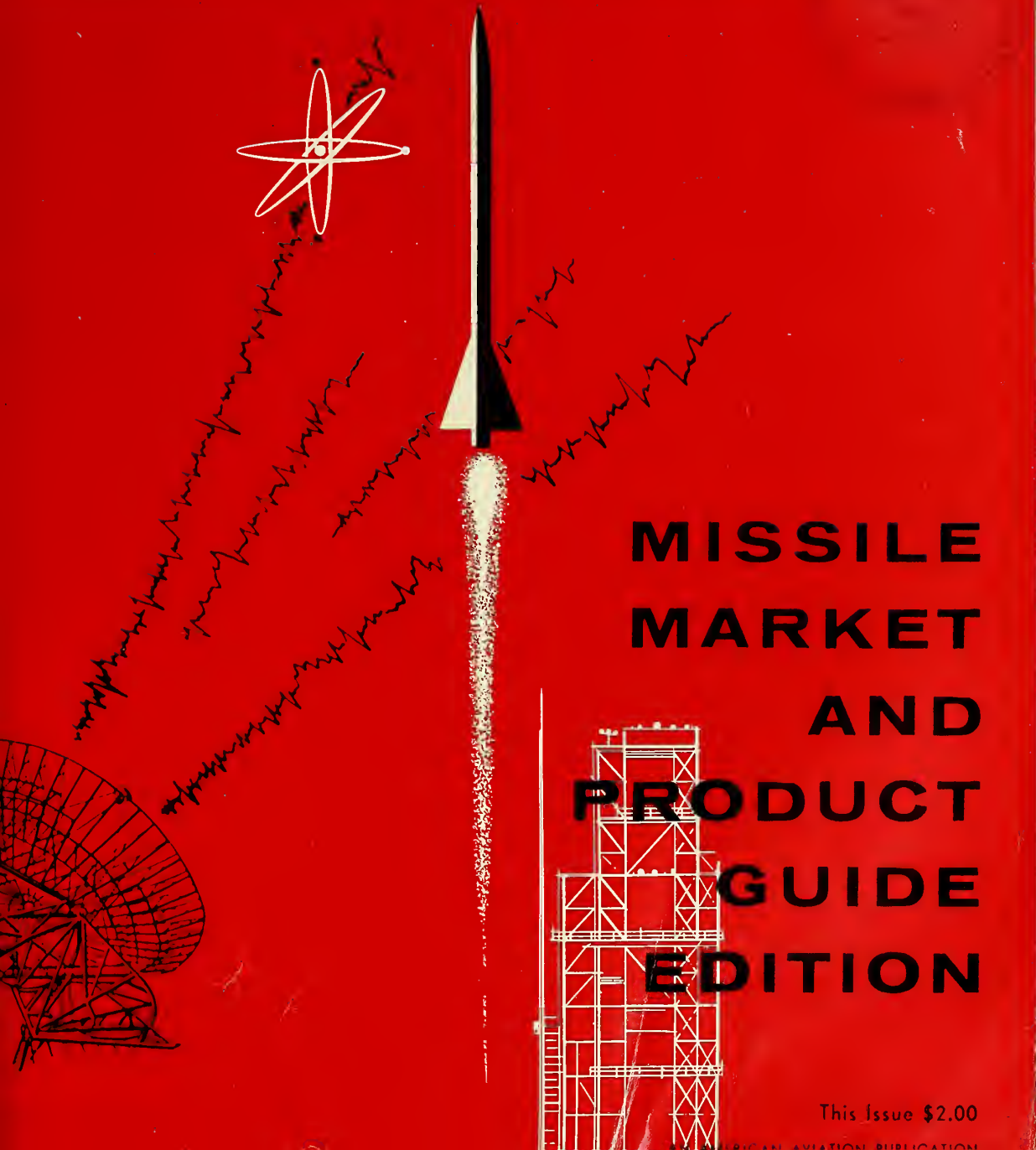


May 30, 1960

missiles and rockets

THE MISSILE / SPACE WEEKLY

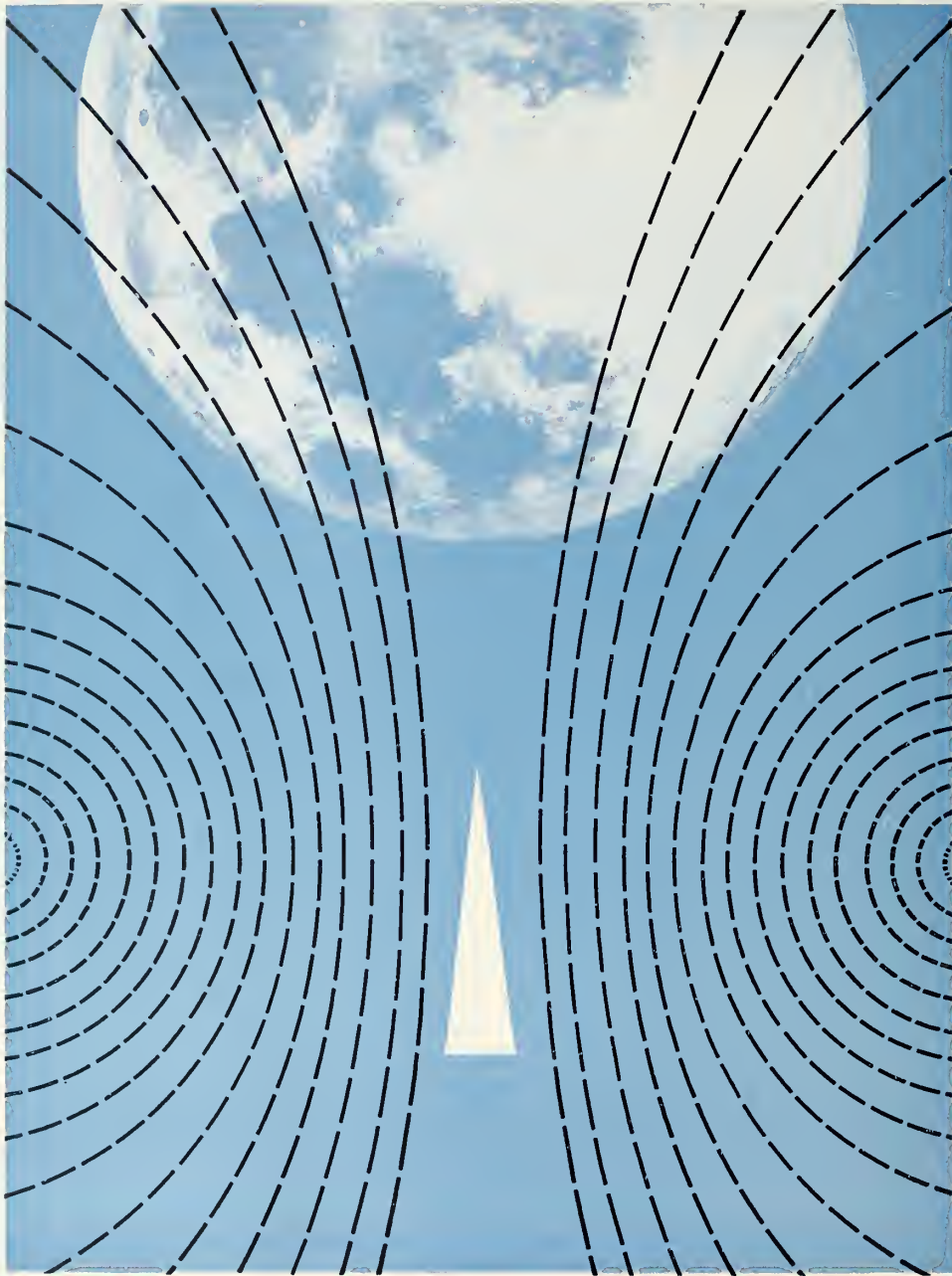
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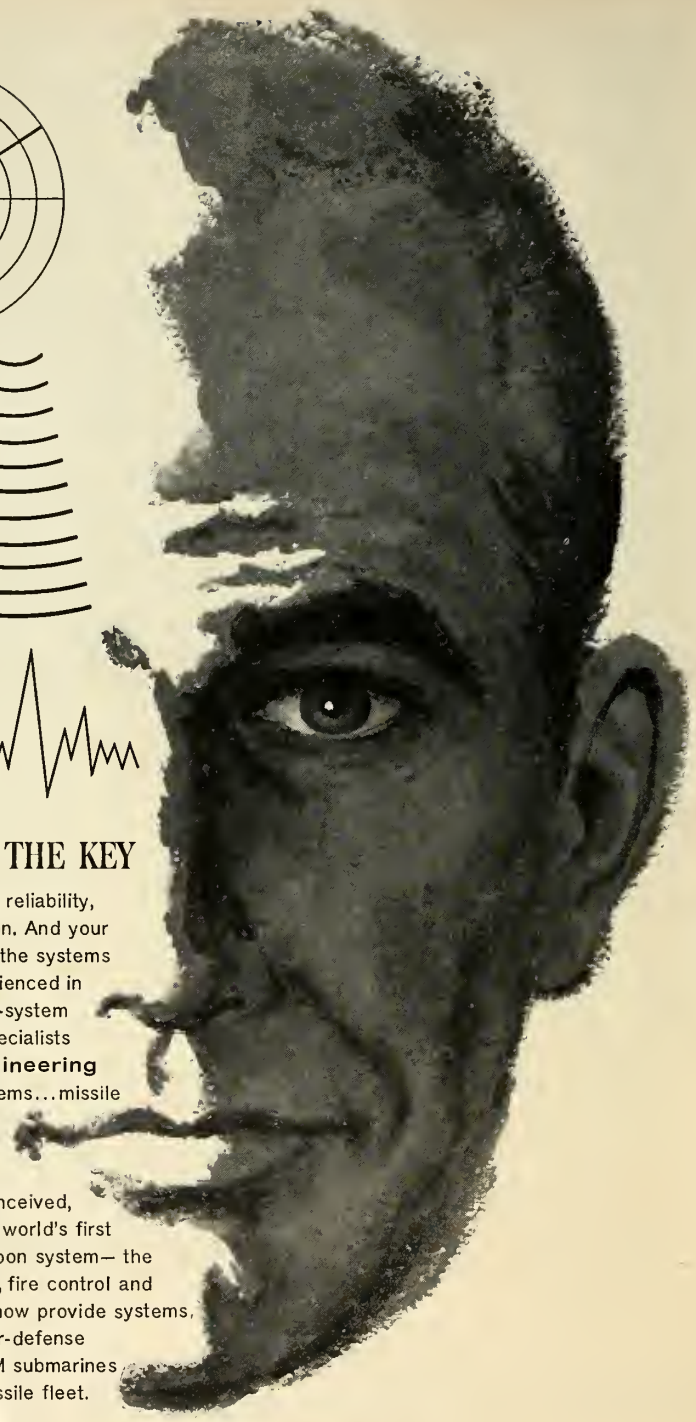
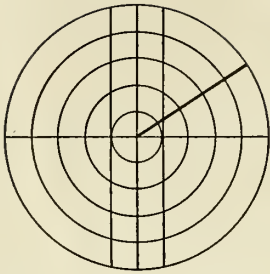
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May 30, 1960

Volume 6, No. 22

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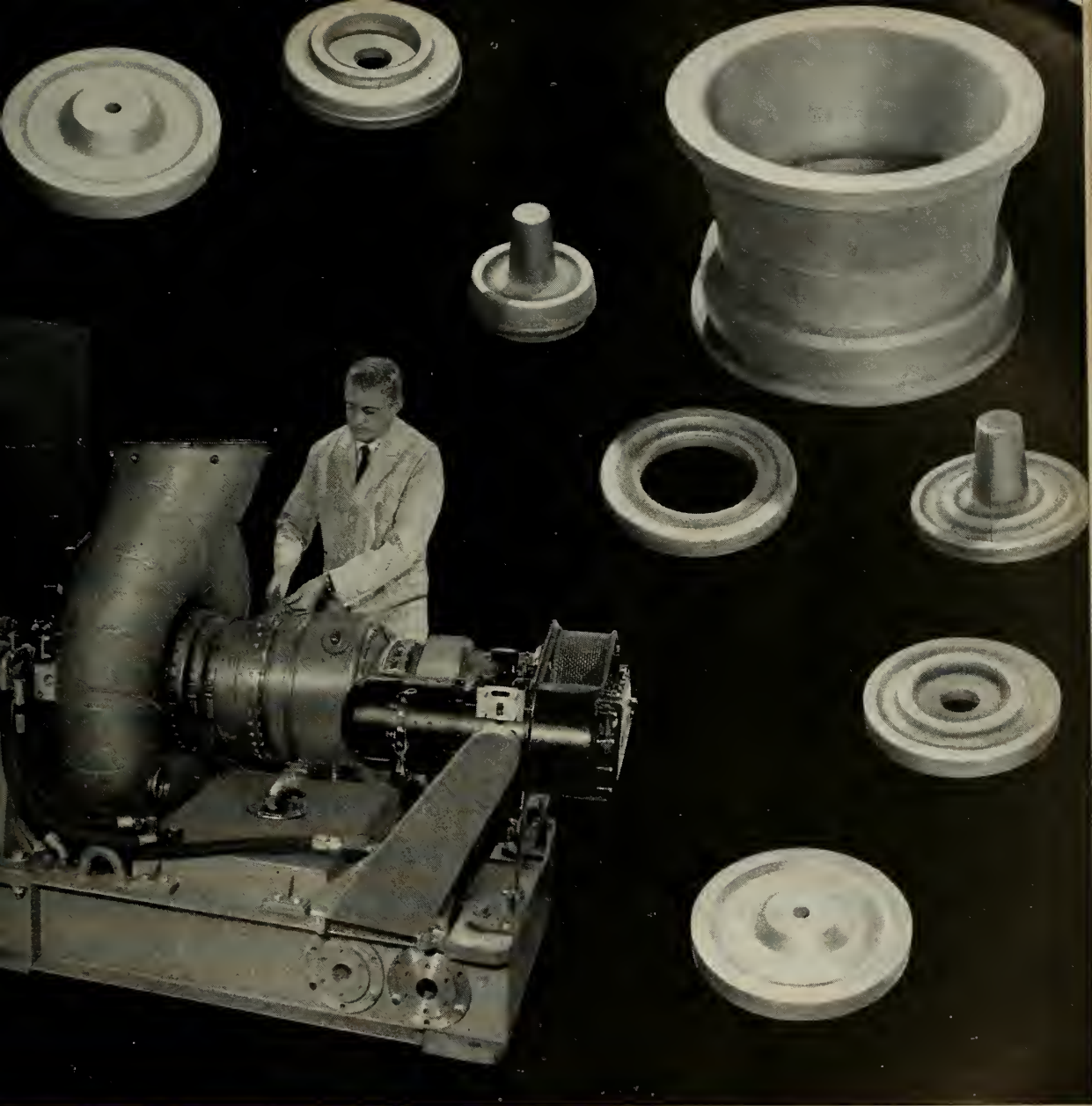


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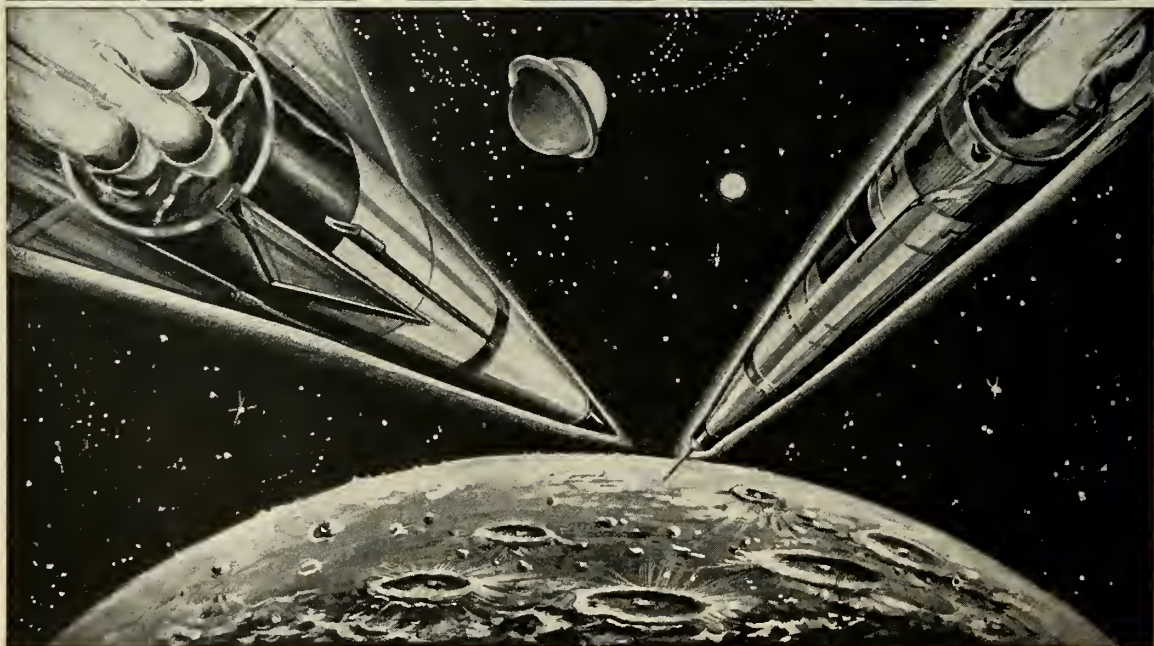
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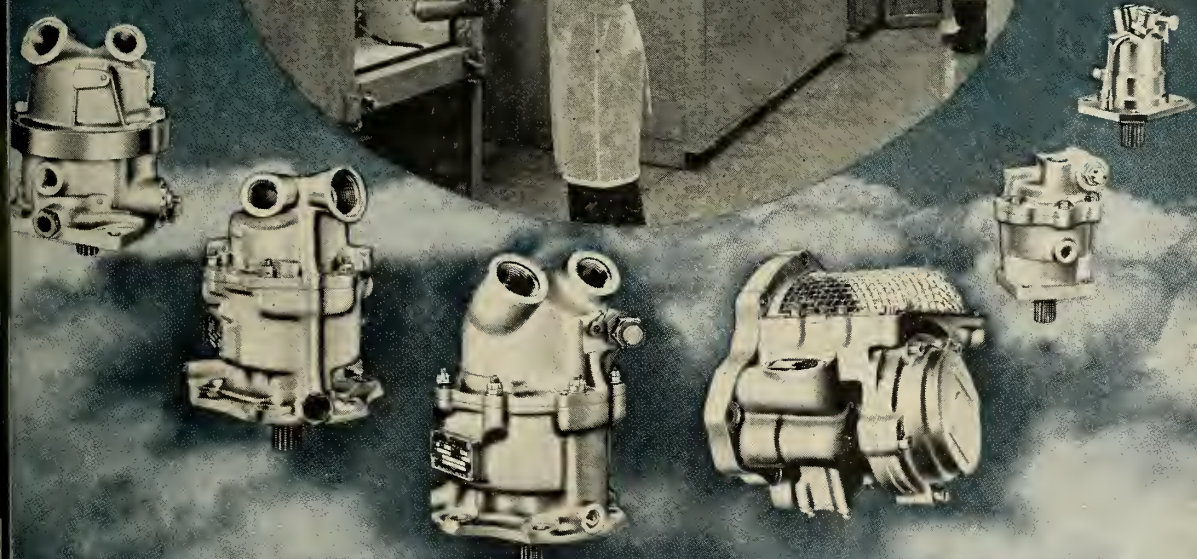
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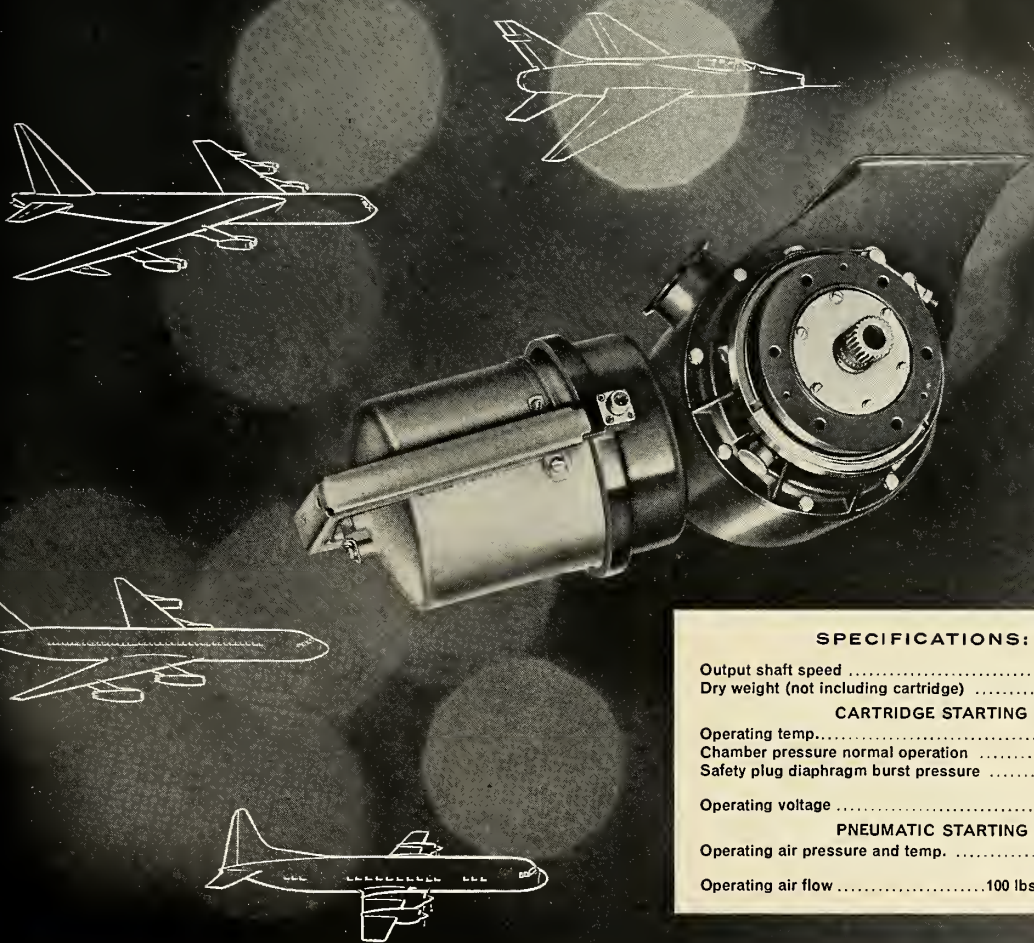
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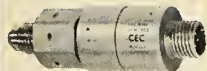


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letters

Impressed by Rickover

To the Editor:

I am certain that the Congressional testimony by Vice Adm. Hyman G. Rickover reprinted in M/R, May 9, is sure to raise many eyebrows and trigger mixed emotions at all levels of government, industry and the public at large.

My hat is off to the Admiral for presenting it and to you for publishing it. What he has to say is no earth-shattering news, as I am sure the problems which he speaks of with such authority and conviction are the basic administrative maladies confronting our technical climate. Although the excerpted testimony is short, those who read it can do an awful lot of reflecting and soul-searching. It may be that something as brief and sincere as this will stimulate those who can do something about the drastic state of the technical lag in this country.

Richard D. Ventres
North Babylon, L.I., N.Y.

Canadian Unification

To the Editor:

In regard to your announcement concerning astronomical unification in Canada (M/R, May 16, p. 38), we would be most grateful if you would correct a mistaken impression which has caused considerable confusion and not a little embarrassment over the last two years.

The Canadian Astronautical Society is in no way tied up with or part of The de Havilland Aircraft of Canada, Limited, either now or in the past. True, the Society was founded by a handful of engineers from the company's Guided Missiles Division and, further, the company has always adopted a benevolent and helpful attitude, but the Society is and always has been an independent body, its de Havilland membership amounting to only a few percent of the total.

As regards the unification move we started in Canada over a year ago, negotiations are still in the early stages and we were surprised to see a unilateral press release on the subject at this early time with so little settled.

E. E. Maine, Acting Secretary
The Canadian Astronautical Society
Downsview, Ontario

Air Catch by 'Harpoon?'

To the Editor:

It seems to me that reports indicate that we are having great difficulty in perfecting the "air catch" system for recovering nose cones or capsules of any nature.

I would like to offer a suggestion, but I do not know exactly where to direct it. Perhaps if it has any merit you could forward it to the appropriate persons.

The idea:

As the whaler harpoons his prey by firing a spear with barbs, so then could we,

← Circle No. 7 on Subscriber Service Card.

by launching a small missile such as the *Sidewinder*, which we would home in on a radiation cell suspended under the parachute. By towing a line with grappling hooks, the missile could snag or thread the suspension lines of the chute. By giving some slack to the line until the missile had cleared the area of the chute, it could then be "braked," causing the line to leave the missile, as an umbilical cord, and set off a destructive charge to prevent any earthly damage by the missile. Hence your catch, by an already proven accurate harpoon.

D. G. Carberry,
Great Valley Laboratory
Burroughs Corporation,
Paoli, Pa.

ASW Praise and Caution

To the Editor:

You are making a much needed contribution to the very important subject of ASW, particularly since the House Appropriations Committee is urging a Manager for ASW. Congratulations! I shall read the subject matter in your new department with great interest.

H. L. Collins, RADM, USN (Ret.)
Assistant to Technical Manager,
Central Technical Dept.
Shipbuilding Div., Bethlehem
Steel Co., Inc.
Quincy, Mass.

To the Editor:

The lack of (editorial) coverage of ASW engineering and its problems has been apparent to me and others in the field—but not to enough others.

The advent of the new nuclear-powered, missile-firing submarines should dramatize the importance of this field.

I certainly look forward to reading additional coverage in this area. I think it will provide a real and necessary service.

Anthony J. Finocchi,
Quality Assurance Manager
ITT Laboratories
Nutley, N. J.

To the Editor:

To date your new ASW section has been most interesting. Several of the articles, such as the ASW Budget breakdown, have been most informative. You have made a bold start and I do hope you will be able to continue, although I realize you are going to be limited, owing to the highly classified status of most of the information on the subject.

May I inject a word of caution? Somewhat more care is needed in assuring the accuracy of your data. I have noted some rather glaring inaccuracies which tend to raise doubts in the reader's mind as to the exactness of statements on subjects with which he is less familiar.

Best of success for your new project.

Frank D. Peltier, Chairman
Weapons Sub Task Committee,
ASW Advisory Committee
National Security Industrial
Association

M/R strives for accuracy; we'd welcome any specific corrections.—Ed.

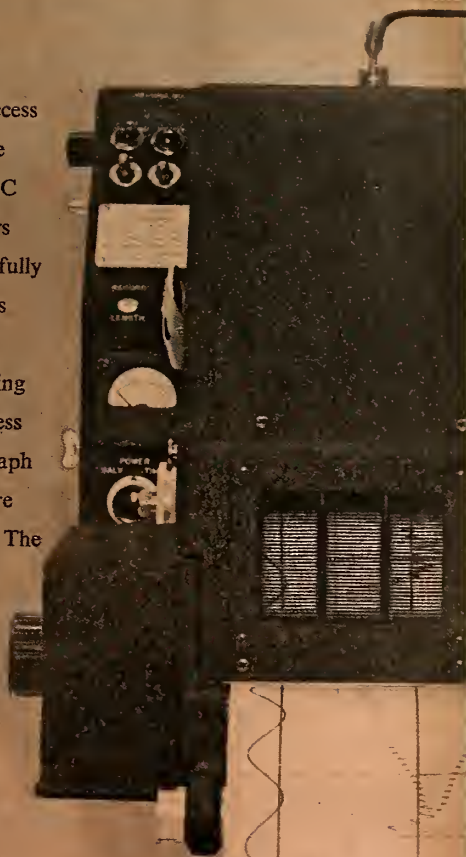
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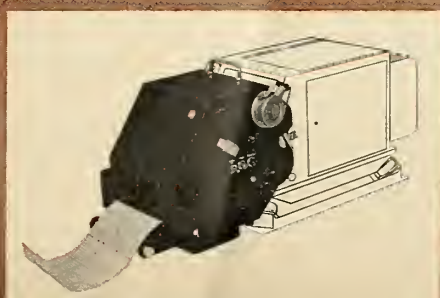


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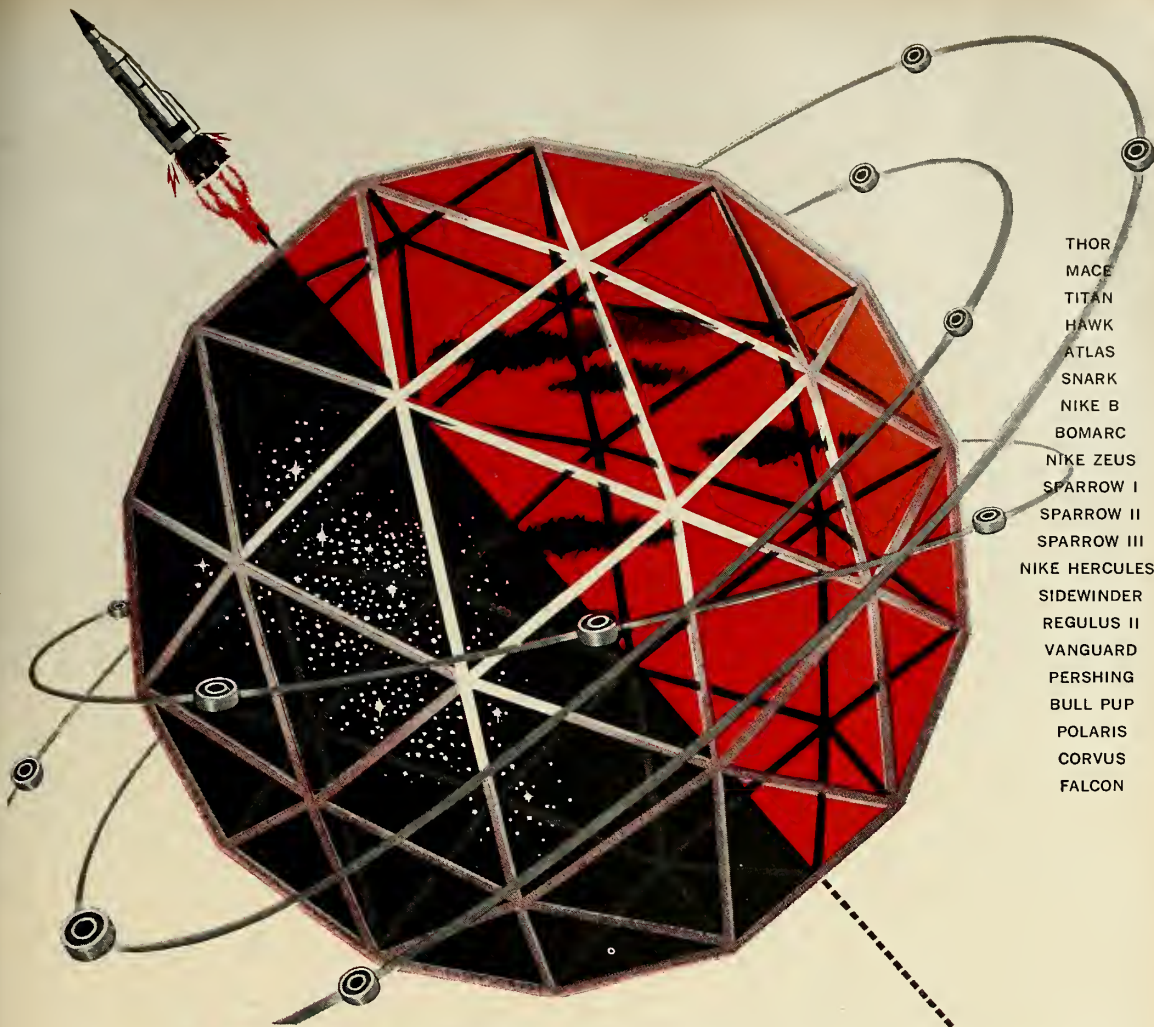
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RAYTHEON COMPANY, WALTHAM, MASS.



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WASHINGTON

Missile Oversight

In the switch to missiles, the Navy now finds itself without a replacement for the battleship-mounted 16-inch gun of yore. The *Talos* antiaircraft missile is too expensive for shore bombardment, so the Navy is frantically trying to develop a cheap, 10-40-mile-range bird which would have a high-explosive warhead effective against shore installations or other ships in limited war.

Samos May Be Twins

The Air Force may wind up with two types of *Samos* reconnaissance satellites. One would radio pictures back to earth from orbit—the other would send them back via capsule, like *Discoverer*. The AF has a *Samos* camera about the size of a Speed Graphic that can photograph a plane on the ground from a distance of 300 miles.

Missile Question of the Week

Is the *Nike-Zeus* program in greater jeopardy? The House already has taken back \$8 million intended for *Zeus* drone-launching installations on Johnston Island in the Pacific on grounds that DOD doesn't want them. But DOD says it hasn't decided yet. Elimination of the *Jupiter* drone program for the AICBM would mean that *Zeus* could only be tested by trying to score near-misses against ICBM's launched from Vandenberg AFB.

Transit II Marks Time

Launch of another Navy R&D *Transit* navigation satellite has been delayed while the Air Force installs range equipment improvements at Cape Canaveral. The shot, originally scheduled for May, now will be attempted sometime in the next month to six weeks.

INDUSTRY

The Return of Plato

The Army's call for July 5 bids on a mobile anti-missile missile feasibility study (M/R, May 23, p. 11) actually is a revival of its old *Plato* program. The new system—like *Plato*—would give the Army a battlefield antimissile missile that could be used against anything from big tactical missiles to ICBM's. As envisioned originally by Sylvania, *Plato* would utilize the *Nike-Zeus* missile and other components of the *Zeus* system.

Hydrazine Plant Going Up

A \$15-million hydrazine plant for the *Titan* storable liquid fuel program is being built by the Air Force at Saltville, Va. Olin Mathieson will operate it.

Out of the Missile Industry

Firestone Tire & Rubber Co., THE COUNTDOWN is told, will close down its guided missile division by November.

Lanphier Crusade Nears End

Ex-Convair v.p. Thomas J. Lanphier Jr. is winding up his "Missile Gap" crusade this week and heading back home to San Diego. His next move: a job—possibly with a foundation, newspaper or TV network.

More on Minuteman

The Air Force is now planning to test-fire *Minuteman* from railroad car launchers at Cape Canaveral. The Southern Pacific RR will take part in the initial operational launches from Vandenberg AFB, Calif., where ICBM crews are trained. Meantime, Boeing is building a *Minuteman* underground silo and launch complex at its Seattle plant to simulate operational firings and is also instrumenting a rail launch car there.

Where Radiation Hurts

Atomic Energy Commission engineers are more worried about the effect of radioactivity on the vehicle and payload of a nuclear rocket than on the atmosphere. A 6000-megawatt reactor for such a rocket would generate fission products equivalent to a half-kiloton A-bomb, if the reactor ran five minutes. However, not all of these products would get into the atmosphere and the resulting radiation would be difficult to detect.

If He Could Only Talk

Convair, one of the bidders on a Navy hydrofoil, is attempting to learn more about underwater propulsion from an instrumented porpoise. The sleek mammal's movements are recorded as he gambols in a 100-ft tank.

INTERNATIONAL

Germans By-pass Cobra for SS-11

A decision by the West Germans to turn down their own *Cobra* antitank missile for the French *SS-11* may spur production of the *SS-11* under license in the U.S. The Germans want 25,000 *SS-11*'s—which will command virtually all of Nord Aviation's manufacturing capacity. Thus, another source will be needed to fill U.S. requirements.

French Test 4-stage Rocket

A solid-fueled four-stage rocket built by the Air Administration and ONERA attained a height of 93 miles over France's Ile du Levant Test Range May 19. The vehicle carrying an instrumented nose cone was designed for an altitude of 185 miles.

Italians Try Sodium Tests

Rocket shots launched off Sardinia by Italy this summer will be sodium cloud tests at a height of 250 miles.

Beryllium for Seaslug

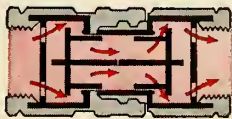
Britain's Armstrong Whitworth Aircraft Co. is now reported to be using beryllium extensively in the *Flutter Dart* test rocket and the *Seaslug* ship-to-air missile—the first missile manufacturers in Europe to do so.

Hey, Herman... Snap-Tite valved couplings come in big sizes too!



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Snap-Tite valved couplings are available with two-way or one-way automatic line shut-off. They are normally furnished in alloy steel. Also available in brass, aluminum, or stainless steel with a variety of finishes.

Write for Snap-Tite Catalog No. 58 for more information on Snap-Tite valved couplings.

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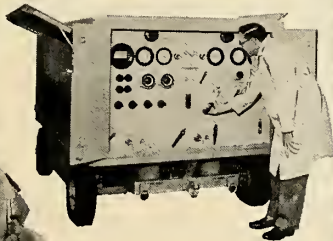
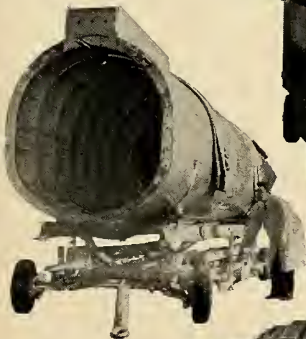
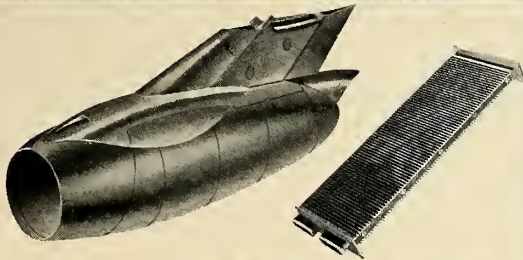


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3M Materials Memo

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■ FIRESIDE FASHIONS

You might not want to wear it in the Easter Parade, but a suit made of "Scotch-Shield" Heat-Reflective Fabric is in good taste for strolling through infernos. Such suits have been really hot items among fire fighters, both in the military and civilian life for some time now. More recently, in the form of sleeves, they've been bouncing heat off of expensive umbilical cables on the launch pads of some of our larger missile systems. They're a natural, too, as protective shrouds and bags for controls or instrumentation components — on the pad, or in the missile itself.

Resistance of these fabrics to radiant heating is well illustrated by this test performed in our Reflective Products Laboratory. A Globar heating element radiating at 2600° F. was placed at the one focus of an elliptical reflector. The sample of "Scotch-Shield" fabric was placed at the other focus. Even after 2 or 3 minutes of exposure, no burn-through took place. Under identical conditions, even flameproofed conventional fabrics disintegrate in seconds. An even more vivid test took place when an imaginative laboratory technician entered a blazing furnace carrying a raw T-bone steak on a platter. When he emerged minutes later, the sizzling steak was done to a turn.

The key to this phenomenal performance lies in the micro-thin aluminum film securely deposited on the surface of the light weight flame proof cloth backing. This finish, reflecting more than 90% of all radiant energy, unlike heavier aluminum foil won't crack or peel away from the backing. Furthermore, it doesn't detract from the original drape of the fabric or add noticeable weight. Those fabric backings available as standard products are the cotton, glass, and asbestos combination, the herringbone asbestos, and flame proofed rayon. If these don't suit your particular needs, special base fabrics are available on minimum yardage basis. If "Scotch-Shield" kindles your imagination, why not check with your REFLECTIVE PRODUCTS representative, or fill in the coupon below?

■ YOUR BIRD CARRYING A TORCH?

It might be doing just that, if you're still using conventional encapsulating resins on its hot little electronic innards. Of course, finding a truly flame proof resin system hasn't been an easy task. That is, not until "Scotchcast" XR-5019 entered the scene. This new two-part flexible epoxy resin system is so flame proof that it doesn't burn, even when given all sorts of encouragement. For example, in the Manson flammability tester—one that's really a scorcher—XR-5019 beat the standards of NEMA for non-flammable resins by a substantial margin. In this test, where the goal is to get the lowest possible number, values of 0.55 to 0.80 were achieved by XR-5019. These figures can be compared to a value of 6.2 for a conventional casting resin, which, incidentally, also passes the flammability requirements of Mil I-16923C. One manufacturer enthusiastically reports that XR-5019 insulated transformers have met the flammability requirements of even Mil T-27A without a waiver, which is something of a "first."

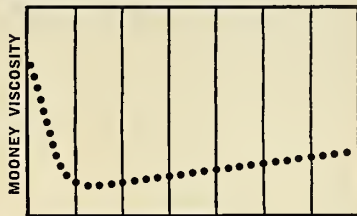
But this versatile resin system doesn't put all its eggs in one basket. In a thermal shock test developed by 3M, the resin cured around a 1/4" metal insert is recycled between 130° and -55°. XR-5019 was cycled for ten times, with no failures. And its virtues don't end there. It features low impregnating viscosity and high adhesion to most metals. Its pot life of 3 to 4 days after mixing is nothing to overlook, either. Needless to say, these advantages are not offered at the sacrifice of electrical properties. Why not contact your local ELECTRICAL PRODUCTS representative, or check the box below for additional information?

■ SOME GUM!

A real aristocrat among synthetic elastomers is our CHEMICAL DIVISION'S new "Fluorel" 2141 Brand Elastomer. This fully saturated polymer is fluorinated to the hilt—containing greater than 60% fluorine by weight. Once you've been exposed to "Fluorel's" remarkable stability you'll realize that the fluorine is not along just for the ride.

Chemical stability is just one area in which it takes the blue ribbon. It resists almost all fuels, lubricants, and hydraulic fluids currently being used or developed for rocket and missile systems, even the high energy fuels of the boron type. It takes hot oils, many organic solvents, as well as strong inorganic acids and bases in its stride. Nor does it have to be pampered, as far as outdoor weathering is concerned.

High temperature is no enemy to "Fluorel," either. It performs under continuous long-time service at 400° F. without marked degradation. Under some conditions for reduced periods of exposure, temperatures above 600° F. can be tolerated. Then of course there's the fringe benefit of its excellent resistance to compression set, which is a handy property to have around, if you're concerned with seals or closures.



MOONEY SCORCH CURVE for FLUOREL 2141

Offering properties like these, you might expect that "Fluorel" would be a real prima donna when it comes to compounding—ain't so! It's easily processed on standard rubber compounding equipment with a Mooney Scorch rating ideal for the rubber processor—can be molded, extruded, and adhered to metals. It's natural for application to O-rings, gaskets, tubing, expellant bladders, fuel cells, and countless other demanding areas.

For a complete brochure on properties and handling of "Fluorel," contact your Chemical Division representative or check the coupon below.

And if you have questions on any of the items mentioned here, or would like to know what else 3M makes—or could make—for your needs, mail coupon.

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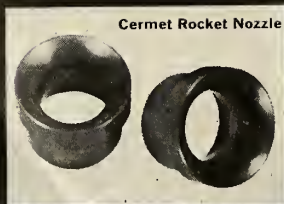
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Cermet Rocket Nozzle



when and where

MAY

Fourth International Symposium on the Reactivity of Solids, Amsterdam, May 30-June 4.

JUNE

Instrument Society of America, Annual Instrumental Methods of Analysis Symposium, Montreal, June 1-3.

Sixth Annual Radar Symposium, University of Michigan, sponsored by Army, Navy, AF, Willow Run Laboratories, Ann Arbor, June 1-3.

Fourth Annual Summer Conference on Vacuum Metallurgy, New York University's College of Engineering, NYU's University Heights Campus, Bronx, N.Y., June 2-3.

ASME Summer Annual Meeting and Aviation Conference, Statler Hilton Hotel, Dallas, June 5-9.

Society of Automotive Engineers, Summer Meeting, Edgewater Beach Hotel, Chicago, June 5-10.

Machinability Seminar, Pennsylvania State University, University Park, June 6-10.

National Society of Professional Engineers, Annual Meeting, Statler Hotel, Boston, June 8-11.

American Nuclear Society, National Meeting, Palmer House, Chicago, June 12-14.

Seminar in Design Engineering, Pennsylvania State University, University Park, June 12-17.

1960 Radio Frequency Interference Symposium, sponsored by the IRE, Shoreham Hotel, Washington, D.C., June 13-14.

American Institute of Mining, Metallurgical and Petroleum Engineers, International Powder Metallurgy Conference, Biltmore Hotel, New York City, June 12-15.

Symposium on Molecular Structure and Spectroscopy, Dept. of Physics and Astronomy, Ohio University, Columbus, June 13-17.

1960 Cornell University Industrial Engineering Seminars, Ithaca, N.Y., June 14-17.

Special Summer Program on Fluid Power Control, Massachusetts Institute of Technology, Cambridge, June 14-24.

American Institute of Chemical Engineers, Del Prado Hotel, Mexico City, Mexico, June 19-22.

University of Connecticut, Institute for Practical Research on Operations, Storrs, June 19-25.

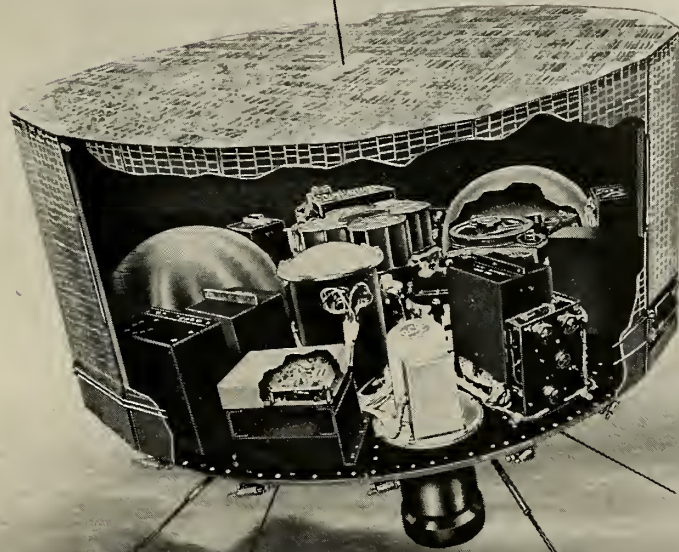
Atomic and Molecular Gas Beams Symposium, University of Denver, Denver, June 20-22.

ASME Applied Mechanics Conference, Pennsylvania State University, University Park, June 20-22.

Gordon Research Conference, Colby Junior College, New London, N.H., June 20-24.

Institute of Navigation, 16th Annual Meeting, Air Force Academy, Colorado Springs, June 23-25.

missiles and rockets, May 30, 1960



THIS IS TIROS... Experimental Weather Observer

This is TIROS—the world's most advanced television-equipped earth satellite. In one giant step it has extended man's powers of continued observation 400 miles into space. The pictures of cloud cover and wind patterns it is now sending down are a major contribution to the science of meteorology—bringing ever closer the day of improved, long-range weather analysis and forecasting.

The entire TIROS satellite, its component systems and associated ground equipments were developed and built by RCA's Astro-Electronic Products Division for the National Aeronautic and Space Administration under the technical direction of the U. S. Army Signal Research and Development Laboratory. Included in the satellite are two TV cameras equipped with shutters so they can take still pictures, tape recorders to

store the pictures when out of ground station range, TV transmitters, command receivers and timing clocks for function control, radio beacons and telemetry equipment, and numerous auxiliary devices to control satellite dynamics. Power is supplied by storage batteries recharged by an array of 9200 solar cells which convert the sun's energy into electricity.

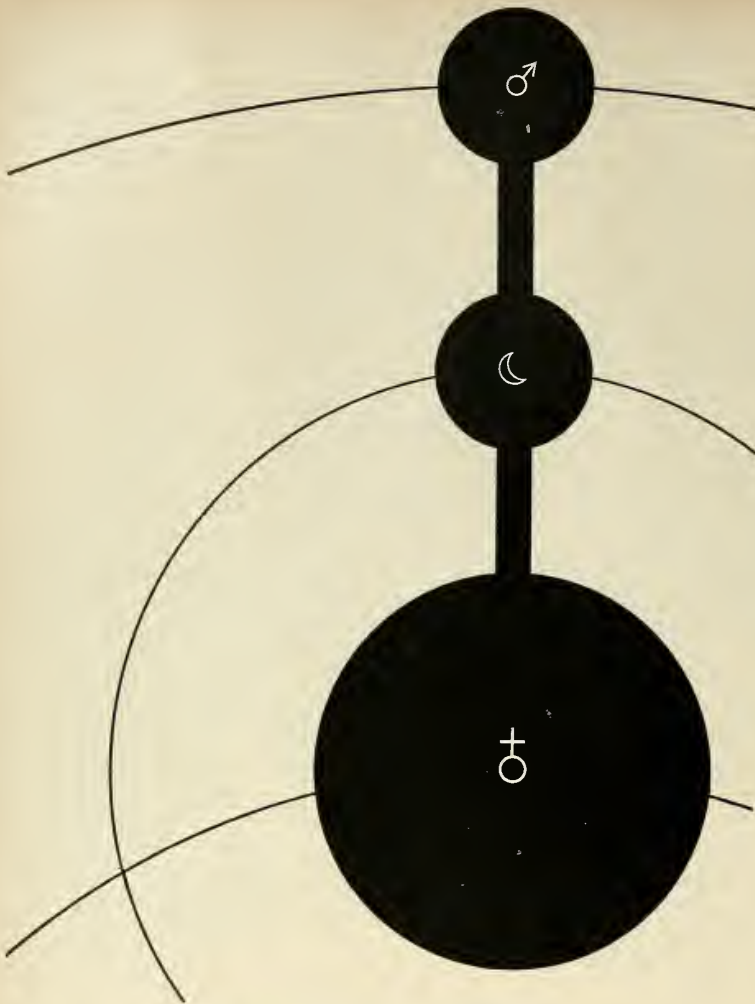
Significant as it is, TIROS is a beginning, not an end. Future satellites and space probes will be far more complex. Yet they will grow out of the experience and capabilities in space electronics, satellite dynamics and structural loading techniques that made Project TIROS a reality. To find out how you can draw on this unique research and development capability, get in touch with the Marketing Manager, RCA Astro-Electronic Products Division, Princeton, N. J.



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California General salutes this industrial and scientific complex... and its contribution to the conquest of space... the 20th century miracle.

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names in the news

Dr. Wolfgang W. Gaertner: Joins the staff of CBS Laboratories as manager of Electronic Semiconductor Research and Development. Dr. Gaertner, author of more than 35 papers in the field of solid state physics was formerly associated with the Solid State Devices Division, U.S. Army Research and Development Laboratory, as chief scientist.



GAERTNER

L. D. Rexroat: Formerly chief of marketing for HRB-Singer, Inc., joins U.S. Science Corp., a division of United Industrial Corp., as vice president and director of marketing.

A. C. Werner, Jr.: Named general sales manager for the Semiconductor Division of Hoffman Electronics Corp. **Jan Black,** former product manager for Pacific Semiconductors, Inc., named transistor product marketing manager.

Dr. Cloyd A. Snavey: Former assistant manager of the Chemical Engineering Dept. at Battelle Memorial Institute, joins Sifco Metachemical, Inc., as general manager.

Edwin A. Sweo: Appointed manager of the Servo Engineering Dept. of Dalmo Victor Co.'s Engineering Division, replacing **Arthur Notthoff,** appointed manager of engineering for the firm's Electronic System's Division.

Albert W. Chapple: Former marketing research manager for Perkin-Elmer Corp., named marketing manager of the Optics and Metrology Division of Keuffel & Esser Co.

Walter A. Kirsch: Joins Telechrome Manufacturing Corp. as Defense Products Manager and assistant to the vice president and director of sales, **H. Charles Riker.**

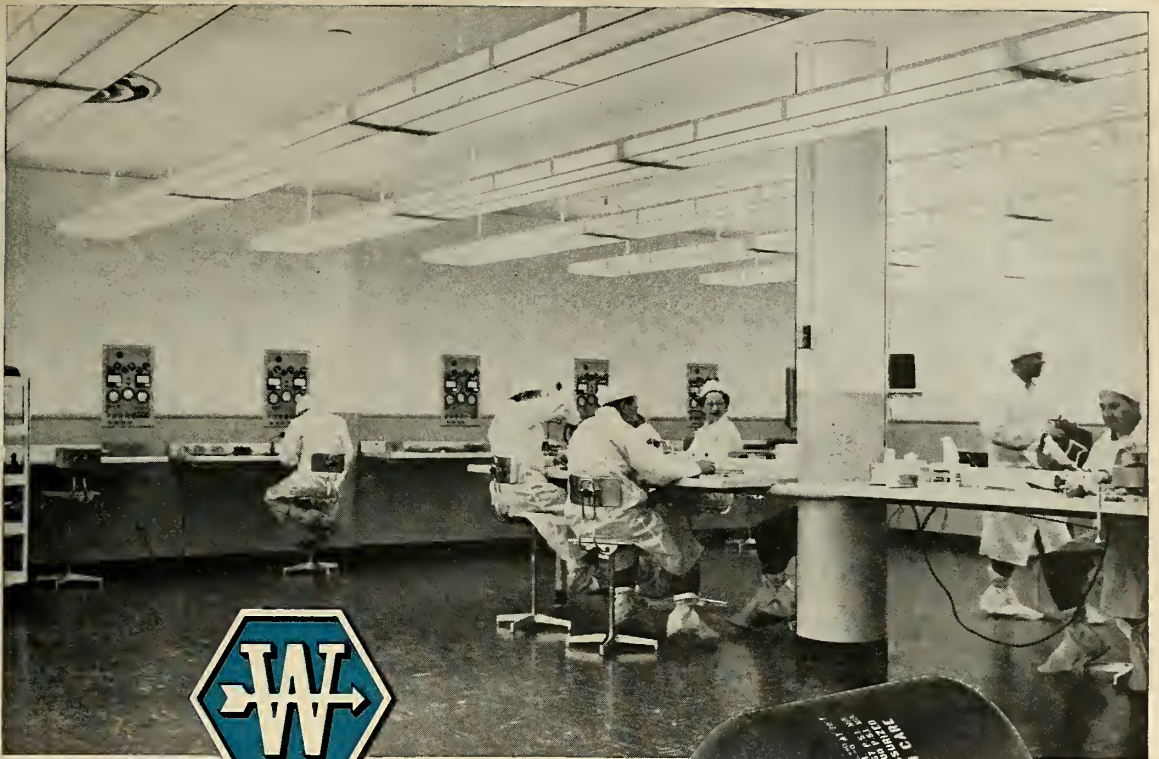
Dr. Steward S. Flaschen: Former staff scientist, promoted to the position of manager of Research and Development for the Semiconductor Products Division of Motorola, Inc. Prior to joining the firm in 1959, was associated with Bell Telephone Laboratories.

Clifford R. Brown: Named executive vice president and general manager of Standard Rectifier Corp. Most recently served as an officer and director of Narmco Industries, Inc., and earlier was affiliated with Aerojet-General Corp. and General Electric.



BROWN

missiles and rockets, May 30, 1960



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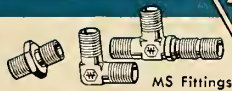
EASTERN AIRCRAFT PRODUCTS DIV.: Cleveland, O.

In Canada: St. Thomas, Ontario

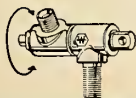
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Lightweight Fuel Hose Assemblies



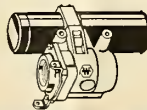
MS Fittings



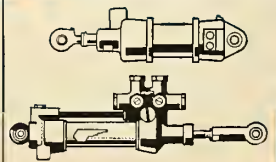
ROTO-MITE® Swivel Joints



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actual size

BRISTOL FINE PRECISION INSTRUMENTS FOR OVER SEVENTY YEARS

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. . . names

James R. Wescott: Appointed to the newly created position of vice president of marketing for The Gabriel Co's Electronics Division. Was formerly marketing manager of the Heavy Military Division of General Electric Co.

Ted Dunnegan, Jr.: Elected manager of the new Project Administration Dept. of Temco Electronics. T. W. Swafford will assume his former position as manager of the Electronics Division's Auxiliary Services Dept.

Saul D. Wills: Joins the staff of REF Manufacturing Corp., as project engineer. Was formerly assistant chief engineer at Greer Hydraulics, Inc.

Albert Belge: Former production engineer for the Firewel Division of Aro Equipment Corp., named manager of manufacturing engineering for International Resistance Co.'s Burlington, Iowa, Division. **Harry Johnson** also named senior sales engineer for the Control Components Division.

Edward G. Schwarm: Elected president of Applied Dynamics, Inc., a subsidiary of Bowmar Instrument Corp. Prior to joining the firm in January as vice president, he was manager of advanced systems engineering and project engineer at Link Aviation Co.

Lionel B. Buraks: Named field engineer-in-charge of Consolidated Vacuum Corp.'s newly opened Washington, D.C. office.

John H. Striebel: Former Hughes Aircraft Co. marketing executive joins Houston Fearless Corp., as assistant to the vice president-sales.

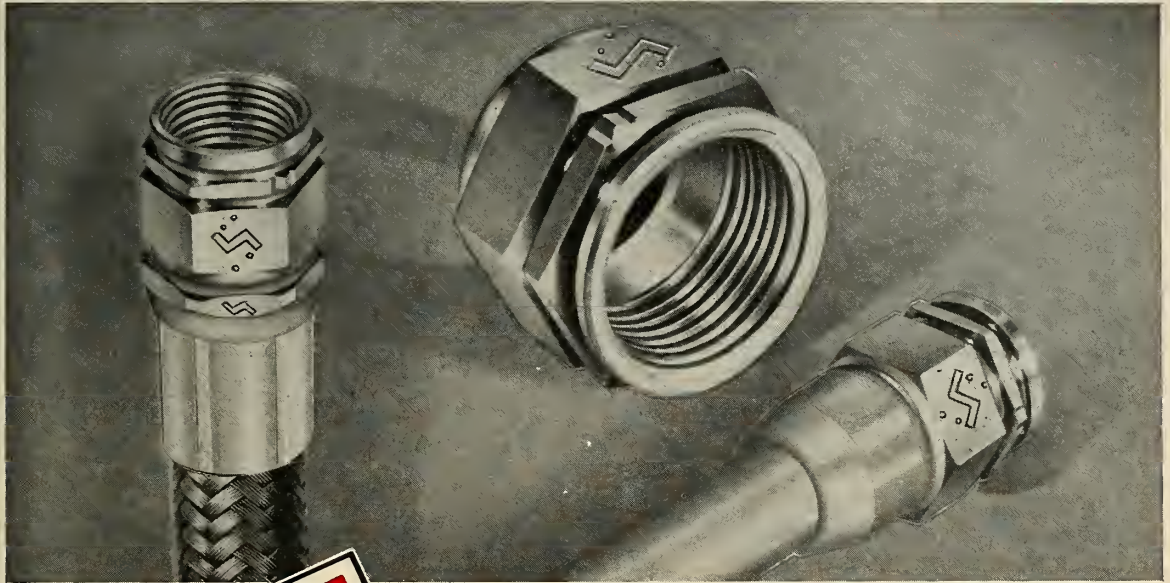
William B. Gurney and Jack O. Nash: Appointed engineering manager and chief engineer, respectively, of Chandler Evans Corp. Gurney was formerly manager of the firms west coast engineering and sales office and Nash appointed assistant chief engineer in 1956 has supervised the company's advanced engineering and component development program.

Dr. T. C. Helvey: Appointed chief scientist for Ortronix, Inc. Was previously in charge of all human factors activities at Radiation, Inc. and also headed the bio-physics and bio-astronautical efforts of the firm.

Robert Ferran and Anthony Fessicini: Join the research and development staff of Technology Instrument Corp., to specialize in design work of transducers. Ferran was formerly with Transonics, Inc., and Fessicini served as a cooperative student with Transonics, Inc.

missiles and rockets, May 30, 1960

**NOW! POSITIVE LOCKING WITHOUT
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NEW **STRATOLOK**

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SELF-LOCKING FLUID COUPLING NUT

Eliminate time and expense involved in safety wiring. The new Stratolok* self-locking fluid coupling nut assures positive locking and trouble-free sealed joints in critical applications.

Stratoflex's new Stratolok series of self-locking nuts is based on a 3-way mechanical displacement of threads. The Stratolok locking element permits free hand starting and insures that the lock is fully engaged before the nut is completely

seated. When fully seated, the lock is retained.

Stratolok nuts meet all locking performance requirements of Specification MIL-N-25027. They are available in a complete range of sizes and are reusable and completely interchangeable with existing AN and MS nuts. Stratolok "S" series nuts, for temperatures up to 550°F, are Cadmium-plated steel; "CR" Series, for temperatures up to 800°F, are silver-plated stainless steel.

For complete information, write for Stratolok Bulletin S-8.

*Formerly SPS Self-Locking Nut



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SF4-0

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. . . names

John J. Jarosh and **Dr. William L. Parker**: Named manager of inertial devices and manager of guidance systems, respectively, at Hughes Aircraft Co.'s research and development laboratories. Jarosh, holder of many patents on gyroscopic devices, was formerly director of engineering at Sterling Precision Corp. Parker is former chief of systems engineering for the Nortronics division of Northrop Aircraft, Inc., where he participated in the development of the *Snark* missile guidance system.

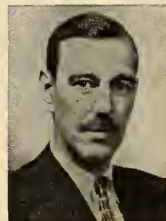
George A. Work: Named chief project engineer of the Leach Corp.'s Special Products Division. Previous posts: Chief engineer and head of product development, Instruments and Electronics Division of Land-Air; Lockheed Missile and Space Division on the *Polaris* project, and the U.S. Navy Radiological Defense Laboratories.

David A. Williams: Appointed director of Standard Steel Corp.'s newly established Research and Development Dept. **Leon F. Howard**, former assistant, succeeds Williams as Director of Engineering for the Cambridge Division.

C. J. Moore: Former general sales and marketing manager of Exide Industrial Division, The Electric Storage Battery Co., promoted to vice president-marketing of the division.

K. Russell Knoblauch: Named market sales manager of Minneapolis-Honeywell Regulator Co.'s Industrial Products Group. Was formerly chemical industry market manager.

A. Henry Schutte: Appointed to the senior staff of Arthur D. Little, Inc.'s chemical engineering section. He is the holder of many patents in the fields of fractionating, absorption, cracking, catalysis, dewaxing and centrifugal separation, and was formerly vice president of the Lummus Co.



SCHUTTE

Harry E. Lockery: Appointed manager of engineering, Electronics and Instrumentation Division, Baldwin-Lima-Hamilton Corp. Prior to joining the company in 1958 as chief engineer, was project engineer for Industrial Controls Division, Manning, Maxwell and Moore, Inc.

Joseph M. Saba: Named director of Laboratory for Electronics, Inc.'s newly established International Division. Was formerly with Raytheon Co. as Director of Planning, International Division.

W. D. Cowgill: Elected general sales manager for Cleveland Graphite Bronze Co.

missiles and rockets, May 30, 1960

Jerome Perlstein: Joins Tenney Engineering, Inc., and will be associated with the development engineering group.

H. Kenneth Hudson: Named eastern division sales manager of The Hallicrafters Co.'s military electronics division. Was formerly electronic warfare products sales manager for Raytheon Co.

Jack Simon: Formerly assistant sales manager, test and ground support equipment for Greer Hydraulics, Inc., joins REF Manufacturing Corp., as an applications engineer.

Carl A. Hultberg: Formerly an engineering group leader at Bell Aircraft Corp., joins the staff of Hoover Electronics Co. as senior project engineer.

E. S. (Bud) Turner: Appointed northwest regional marketing manager for Southwestern Industrial Electronics Co., a division of Dresser Industries, Inc.

Geoffrey Robillard: Named chief of the newly formed Propulsion Division at the California Institute of Technology Jet Propulsion Laboratory. Was formerly chief of the Solid Propellant Division and played a prominent role in the development of the solid rockets used in the upper stages of the *Jupiter C* and *Juno II* launching vehicles.

James E. Heywood: Formerly with International Business Machines Corp., joins Ford Motor Co.'s Aeronutronic Division as assistant general operational manager of the Computer Operations.

Walter H. Hassler: Appointed manager of materiel for Summers Gyroscope Co. Previous posts: Convair, Kaiser Industries and Boeing Airplane Co.

A. S. (Al) Ginsburgh: Staff member of the *Polaris* project at Aerojet-General Corp., appointed manager of the firm's Materials and Fabrication Division for the solid rocket plant of the Sacramento plants.

Jose M. Tellez: Named manager of the Army computer systems department at Hughes Aircraft Co.'s ground systems group. Formerly served as assistant manager of the Army computer systems department; systems section head of the MSG-4 department; group head in charge of systems and circuits for the Missile Monitor system; and circuits design engineer.

Edward C. Leeson: Formerly director of customer relations for the Astrionics Division at Fairchild Engine and Airplane Corp., joins Kollsman Instrument Corp. as vice president-marketing.

Charles E. Heitman, Jr.: Former president of ACF Industries, Inc.'s Carter Carburetor division, joins the staff of **George E. Stoll**, executive vice president of the Bendix Aviation Corp., with responsibility for major manufacturing and organizational functions.



missile AEROSPACE COMPONENTS BY LAVELLE

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Shown between the nose cone structures above is a part of the Hawk missile system, a radar pedestal base magnesium weldment partially machined after assembly. Lavelle works with a wide range of metals and alloys to produce sheet metal components for missiles, electronic systems and ground support equipment to exacting specifications. Major companies rely on Lavelle for precision components required in missiles, space vehicles, jet engines and airframes.

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— reviews —

BASIC RESEARCH RESUMES—A SURVEY OF BASIC RESEARCH ACTIVITIES IN THE AIR RESEARCH AND DEVELOPMENT COMMAND. Herner and Co. for ARDC, Order PB 161291 from OTS, U.S. Dept. of Commerce, Washington 25, D.C. 342 pp., \$5.

Most of the 1400 scientific research projects described in this index are being conducted at leading U.S. colleges and universities. Other projects are the work of industrial laboratories, government facilities, and private, non-profit research institutions. About 14% of the research is assigned to ARDC's own labs, while 20% is done outside the U.S.

All work is listed under 24 subject categories which cover six technical areas: propulsion, materials, electronics, geophysics, biosciences and aeromechanics. There are two research sections and three indexes.

DIRECT CONVERSION OF HEAT TO ELECTRICITY. Edited by Joseph Kaye and John A. Welsh, John Wiley & Sons, New York, \$8.75.

A timely and valuable edited collection of papers in this new and exciting field. The book includes fundamental discussions, considerations of practical application, and problems associated with the four predominant new methods of direct energy conversion: thermoelectric, thermionic, MHD (magnetohydrodynamic), and fuel cells.

MECHANICS OF MATERIALS, A. Higdon, E. H. Ohlsen, and W. B. Stiles, John Wiley & Sons, New York, 502 pp. \$7.75.

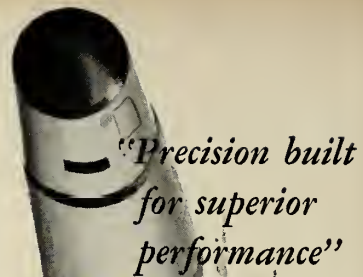
Featuring an approach compatible with the engineering science viewpoint, the work is designed to develop a working knowledge of the relations between the loads applied to a non-rigid body and the resulting deformations, between loads and stresses in non-rigid bodies and a clear insight into the relations between stress and strain.

HYDROMAGNETIC CHANNEL FLOWS, Lawson P. Harris, Technology Press of the Massachusetts Institute of Technology and John Wiley & Sons, Inc., New York, 90 pp., \$2.75.

This monograph, a doctoral thesis written under a WADC contract, is most timely in view of the heightened interest in magnetohydrodynamics, the study of flows of electrically conducting fluids in the presence of electromagnetic fields.

This book presents analyses for three flows of viscous, electrically conducting fluids in high aspect-ratio rectangular magnetic fields. The situations considered are turbulent flow in the presence of a d.c. magnetic field and both laminar and turbulent flows in induction-driven flows.

The methods used are analogous to the "semi-empirical" techniques of fluid mechanics in depending for their success on the combined use of the basic hydro-magnetic equations, a dimensional analysis, and the results of experiment.



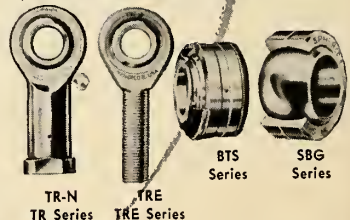
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FLUID POWER CONTROL, Blackburn, Reethof and Shearer, Technology Press of M.I.T. and John Wiley & Sons, Inc., New York. 710 pp. \$17.50.

In certain respects the first in its field, this book evolved from notes for MIT refresher courses for working engineers. It is based on the work of the Dynamic Analysis and Control Laboratory at MIT.

The book is divided into three parts: a review of fluid properties and fluid mechanics; the design of hydraulic and pneumatic drives; and the application of such devices.

Due to the nature of its parentage, the book is somewhat loosely organized and does not cover the subject completely. However, it is up to the minute and fills a definite place in a poorly covered field. It discusses thoroughly the principles of operation, design, and application, and the quantitative factors necessary in putting fluid-power devices and techniques to work.

PROPULSION SYSTEMS FOR SPACE FLIGHT, William R. Corliss, McGraw-Hill, 300 pp., \$10.

The major propulsion concepts for flight beyond the atmosphere are described in this book. It is a well-written text that attempts a technical survey of advanced propulsion systems such as nuclear rockets, ion drive, photon drive and a comment on anti-gravity devices. These are all compared in performance capabilities, technical feasibility and present state of the art. The requirements of various space missions are compared with the abilities of the different propulsion systems; and power-generating and energy-conversion theories are analyzed over a wide power range.

PROPERTIES OF HIGH-TEMPERATURE CERAMICS AND CERMETS ELASTICITY AND DENSITY AT ROOM TEMPERATURE, S. M. Lang, National Bureau of Standards Monograph No. 6. Order from Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. \$20.

In order to supply reliable engineering data on high-temperature ceramics, NBS has assembled a stock of ceramic and cermet materials. The properties investigated include mechanical strength, elastic and anelastic characteristics, temperature dependence of these properties, and thermal properties in general.

The first report presents the results of an investigation to: (1) determine room-temperature elastic properties by a sonic method; (2) determine both the bulk and theoretical densities; (3) evaluate from a statistical treatment of the data the variability of fabrication of the materials using the elastic and bulk density data; and (4) compare measurements of the elastic properties and densities for their usefulness as indicators of significant variations in fabrication.

missiles and rockets, May 30, 1960

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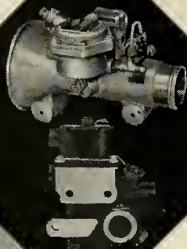
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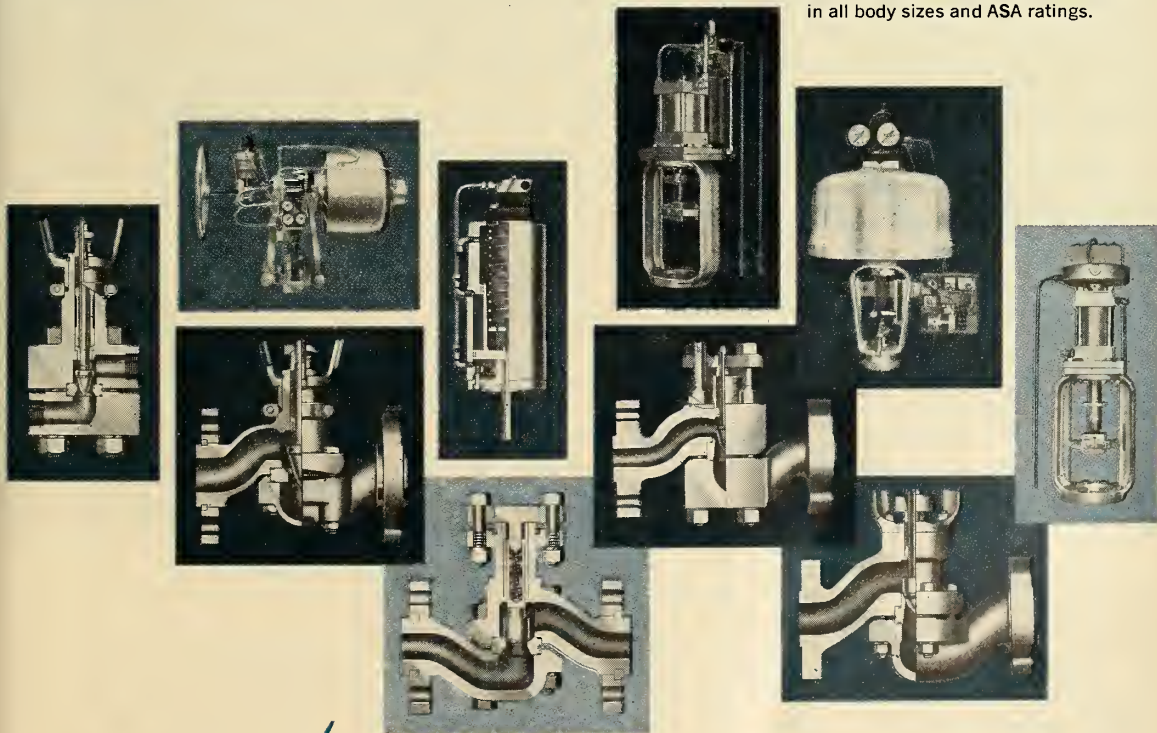
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Role Seen for Mobile Bomarc

Truck and rail launching system may stave off death of troubled program

by William J. Coughlin

SEATTLE—An attempt is under way to enhance the attractiveness of *Bomarc* air defense missile by making it mobile.

Despite cutbacks in the program by the Air Force and Congress, Boeing Airplane Co. officials feel—apparently along with some Defense Department officials—that a requirement still exists for an area defense missile if it can be made invulnerable.

The argument is based largely upon the assumption that Russia will pose a manned bomber threat for some time to come, in spite of its heavy reliance upon missiles. A mobile *Bomarc* transported either by truck or train would be designed to combat aircraft using stand-off missiles to pave the way for an attack. The moving version similarly would be capable of riding out a strike by submarine-launched missiles and catch a follow-up wave of bombers.

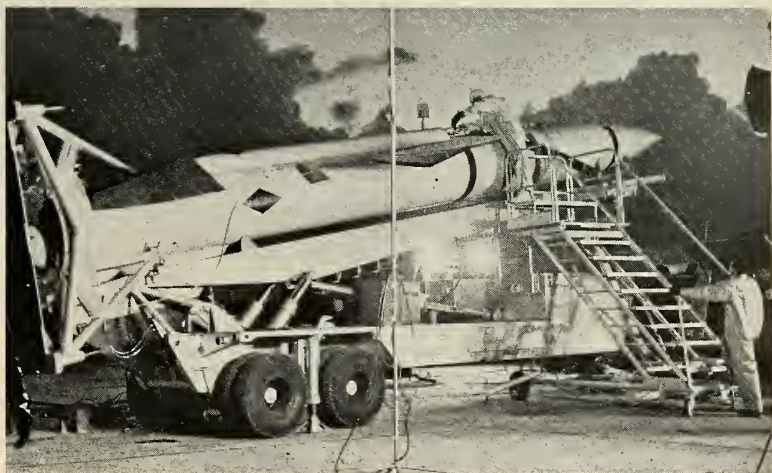
Bolstering hopes somewhat for a mobile *Bomarc* system was the demand two weeks ago by Deputy Defense Secretary James Douglas for a restoration of \$294 million in the defense appropriation bill to complete 10 squadrons of *Bomarc B*. The bird has had some successful tests recently, but Congressional leaders are cool to this proposal.

Although Boeing disclosed the existence of the mobile *Bomarc* only this week, with the declassification of pictures of the system, the program has been under way for some time.

"We are going to work intensively to show the Air Force and other customers that this weapon has the inherent flexibility to be used in many military situations," says a Boeing spokesman. "And it's here now. It's not a concept, it's hardware."

The company is continuing development testing and the entire program is going ahead in what is described as "high gear."

Advocates insist that troubles plaguing *Bomarc B* were ironed out during the propulsion test program at Cape Canaveral and that the missile is pro-



MOBILE BOMARC on transporter-erector is shown in this exclusive photo. Company feels this system will make the anti-aircraft bird more flexible, less vulnerable.

ing its worth in the successful firings on the Eglin Air Force Base Range.

Richard A. Montgomery, *Bomarc* Development Program Manager, and William M. Shultz, *Bomarc* Customer Liaison Manager, spelled out in an interview with M/R the company's defense against major criticisms of the program. Here are the charges and Boeing's answers:

• **Bomarc is too late; it is no longer needed.**

"USAF says there is still a substantial bomber threat. *Bomarc A* is operational now and *Bomarc B* will be operational next year. These weapons will be operational in the time period when this threat exists. We believe *Bomarc* is the most capable answer. If there are bombers to be shot down or air-breathing missiles carried by bombers, this is a weapon that can shoot them down."

• **Bomarc costs too much.**

"When you compare *Bomarc* development costs with other weapons on the basis of the large procurement initially planned and not on the present reduced program, these costs were not

excessive."

"Excluding development costs, the investment cost and annual operating costs are one-fifth those of Century Series fighters."

• **Bomarc is vulnerable because it can operate only from fixed sites.**

"This is not true. The present *Bomarc B* configuration with a solid booster system makes it readily adaptable to mobile launchers of any type."

• **Bomarc is useless without the SAGE (Semi-Automatic Ground Environment) control system.**

"This likewise is not true. Obviously the better the data, the better the missile will do. But *Bomarc* carries its own search and homing radar. The same procedure by which manned interceptors are launched to the general area of an intercept is effective with *Bomarc*."

"In fact, *Bomarc* has more effectiveness in the non-SAGE area than any other weapon. The changes in manned radar system coordination required to handle *Bomarc* can be made for less than \$500,000, according to the Air Force."

• **Manned fighters can do the same**



LIGHTWEIGHT launch pad is attached to missile and rests on ground. Transporter moves away from missile for firing.



IN LATER versions mobile Bomarc would be fired directly from truck bed or from railroad car, as will mobile Minuteman.

job and also can be used in a limited war.

"Bomarc can deliver a nuclear warhead against incoming bombers at a considerable range faster than anything else. On May 12, a Bomarc A fired from Eglin scored a direct hit on a Regulus supersonic drone. That was not a direct hit in the usual sense. The Bomarc actually smashed into the Regulus. This clearly shows its potential capability even with high explosive warheads, indicating its usefulness in advanced theaters in limited war."

• **Bomarc is unreliable.**

"It's a proven weapon and it is in operation. The things we found wrong, we fixed—and they never recurred. The seven so-called "unsuccessful" B tests at Patrick were testing three different kinds of government-furnished engines and were not tests of a true B missile. Only the last two had actual B engines and on these the ramjets worked all right. The first two flights at Eglin have been true B designs with B test equipment and have both been successful."

"The Bomarc B program has been on the most accelerated schedule of any U.S. weapon system. It got under way in January, 1958. Things that would have normally taken four or five years, we've accomplished already. The modification to a solid booster engine required large steps. But we now are only three months behind the schedule set two and a half years ago."

First test of the Bomarc B from Eglin AFB was on April 13 when it

flew 170 miles down the Gulf test range. The second test on May 17 went 270 miles downrange to intercept a simulated target. Boeing termed the two flights "completely successful."

The Bomarc B possesses a low-altitude capability and greater range than the A. Officially termed the IM-99B Super Bomarc, the missile is powered by a Thiokol solid-propellant booster rocket and two Marquardt ramjet engines. Its design range is over 400 miles.

First IM-99A base became operational at McGuire AFB last September. At one point, advanced planning for the program called for as many as 40 bases equipped with up to 112 missiles per base, the reduced Air Force program would have established 14 bases.

An indication of the ability of the Bomarc to operate independently of the SAGE system is given by Boeing's development of the tracking system it calls Mantrac, for manual angle tracking capability. This was developed by the Boeing Aero-space Division Preliminary Design Defense Analysis Group, primarily for use in conjunction with Bomarc in countries where it would be economically unfeasible to install the SAGE electronic system.

Using Mantrac, a few men with only basic plotting tools can track attacking aircraft or missiles from radar sightings.

In its announcement of the system last year, Boeing said: "Mantrac has shown that it possesses capabilities that

could lead to its operation as a back-up to present defensive systems in this country. Electronic countermeasures, or jamming of the radar by the attacking force, pose no problem for Mantrac. Its method of operation in this electronic environment is classified, but tests have shown that Mantrac, properly set up to cope with this factor, can take it in stride."

Since it possesses the ability to operate with a manual radar system, combined with the mobility made possible by a solid booster, Boeing hopes successful tests of the Bomarc B at Eglin will change congressional opposition to the program.

Pioneer V Switched Back To Smaller Transmitter

Battery deterioration has forced NASA to switch the Pioneer V sun-orbiting satellite back to its smaller 5-watt transmitter.

The transfer was made on May 21, just 13 days after the larger transmitter was first activated.

According to NASA sources, the big power drain by the 150-watt transmitter could not be supplied by the deteriorating batteries. The radio telescope at Manchester, England, is recording 30 to 40 minutes of transmissions daily from the 5-watt transmitter.

Without undue further deterioration, NASA believes that Manchester will be able to stay in touch with the probe out to about 20 million miles.

Midas Opens Way to World Policing

The successful launching of *Midas II*—the Air Force's early warning R&D satellite—opened the way this last week for the launching of the first *Midas* operational prototypes late this year.

The 5000-lb. satellite soared from Cape Canaveral into a low-angled, nearly circular orbit that whipped it around the earth every 94.3 minutes but carefully skirted the Soviet Union.

However, the 3000-lb. *Midas* operational prototypes will be launched from Point Arguello into an operational polar orbit that will enable its infrared eye to police the entire earth.

As the Air Force prepared to put *Midas II* through its first early warning tests, the significance of the launching and its connection with the international furor over American U-2 spy flights was underlined by a series of related events:

- The State Department issued a statement calling *Midas* a possible key to world disarmament.
- Senate Democratic Leader Lyndon B. Johnson called for a crash program to develop reconnaissance satellites like *Midas* and its R&D sister, camera-packing *Samos*. He said such satellites would make "open skies" a reality.

The operational *Midas* system is expected to call for keeping six to eight satellites in orbit at all times. These will be designed to detect with their IR eyes the heat from the exhaust of ballistic missiles seconds after they are launched and signal warning back to the United States.

The warning would add another 15 minutes to the 15-minute warning that the BMEWS net is designed to provide.

The *Midas* system is designed to discriminate between the exhaust of a ballistic missile and other heat sources such as large fires and blast furnaces.

The Air Force will use two methods to test the effectiveness of *Midas* test satellites:

- Normal ICBM and IRBM launchings from Cape Canaveral and later from the West Coast.
- Lighting of great magnesium ground flares at Edwards AFB and Vandenberg AFB, Calif.

The flares will burn with a blinding rosy light for about 45 seconds

Midas II Vital Statistics

Total weight	.....	about 5000 lbs.
Height	.....	about 22 ft.
Diameter	.....	about 5 ft.
Weight of empty orbital Agena	.....	about 1700 lbs.
Weight of Midas R&D payload	.....	about 3300 lbs.
Orbital time	.....	94.3 min.
Apogee	.....	292.1 statute mi.
Perigee	.....	322 statute mi.
Est. useful life	.....	1 month

and be visible from 50 miles away. The Air Force scheduled the first three flare tests to begin this week.

The *Atlas-Agena* that put *Midas II* in orbit roared from Cape Canaveral at 1:37 P.M. EDT on April 24.

The 88-foot vehicle weighed about 272,000 pounds. The 22-foot Lockheed *Agena* weighed close to 12,000 pounds at the time of launching.

The Convair *Atlas* sustainer engine burned out as it approached the desired orbital altitude. The *Agena* ripped from the sustainer by means of explosive bolts, separation squibs and retro-rockets. Then the *Agena's* 15,000-lb.-thrust liquid-propelled engine cut

in and the satellite soared into orbit at about 18,000 miles an hour.

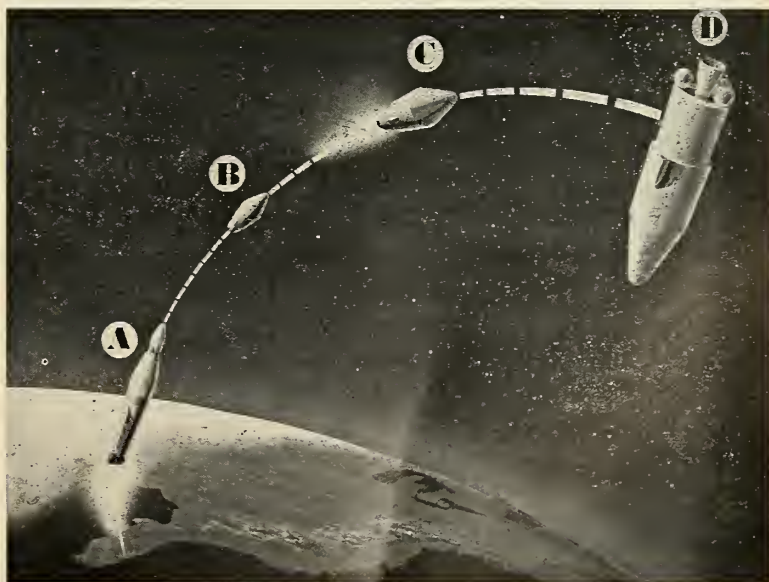
Air Force Satellite Tracking Stations at Vandenberg AFB, Calif., and Kaena Point, Hawaii, assumed their role as primary tracking points. All data obtained by them is fed directly to the Air Force Satellite Test Center at Sunnyvale, Calif.

Vandenberg and Kaena receive any data transmitted by the *Midas* satellite's IR scanner as well as telemetry on the operation of the satellite and its systems. Similar data also is received at Cape Canaveral and down-range tracking stations.

However, the key role is played by the stations at Vandenberg and Kaena which will become part of the final operational *Midas* system.

The first successful launching of *Midas* came after a series of postponements that followed the failure of the first launching on Feb. 26.

Midas I never went into orbit. Failing to separate from the *Atlas* sustainer, it burned up when it re-entered the atmosphere about 2500 miles down-range from Cape Canaveral.



MIDAS II GOING UP from Cape Canaveral. (A) An *Atlas* carried it to nearly the desired orbital altitude. (B) The *Agena* coasted to orbital altitude and positioned itself horizontal to the earth. (C) The *Agena* engine ignited and injected the satellite into orbit. (D) The *Agena* with its *Midas* payload adjusted its attitude into a nose-down position and stabilized itself.

Navy Rejects Extra Polaris Funds

The Navy stuck by its "wait and see" policy last week and turned down extra funds voted by the House for more *Polaris* submarines.

Adm. Arleigh Burke, Chief of Naval Operations, recommended that the Senate Appropriations Subcommittee restore a conventionally-powered aircraft carrier to the Navy's FY '61 budget and eliminate extra *Polaris* funds as well as most of the House-added money for antisubmarine warfare. Burke said the House changes would "tend to upset the balance which the Navy Depart-

ment has striven to achieve in the fiscal 1961 budget."

About \$241 million was provided by the House over and above the Navy request for *Polaris* to fully fund five Fleet Ballistic Missile submarines and to pay for long leadtime items for seven more.

The Navy told the Senate Subcommittee it could obtain a better balance with its original request—full funding of three and long leadtime items on nine.

Burke suggested that the House add-on was academic since the Navy,

upon final tests this summer of the first *Polaris* sub, the *George Washington*, expects to seek a supplemental appropriation which would permit a start on construction of some or all of the nine in the new budget. Altogether 21 *Polaris* subs have been authorized, but only nine—including two that have already been commissioned—are fully funded now.

Burke recommended deletion of all but \$41.9 million of the \$320 million added by the House for ASW. The lesser figure would be used for R&D in the detection field.

Soviets Admit Sputnik IV Ejection Failure

In a rare admission of failure, the Soviet Union announced last week that the cabin within the *Sputnik IV* space ship failed to return to earth because of a "mechanical fault."

The firing of the rocket ejecting the space cabin from the main vehicle did not function properly, and both the cabin and the vehicle were shoved into a larger, more eccentric orbit which, according to Tass, has an apogee of nearly 429 miles and a perigee of 191 miles.

U.S. experts speculated that the normal firing observance would have been the ejection of the cabin from the vehicle rearward by a rocket firing into a closed chamber. This push was to have given the space vehicle an extra kick of about 120 ft./sec., sending it into a higher velocity. The velocity of the capsule would have been correspondingly lowered so that its apogee shrunk to about 60 miles, at which time it would have circled into the earth's atmosphere.

Tass also stated that "data of the telemetrical measurements obtained show that the system of conditioning and heat regulation systems of the ship functioned normally throughout the entire flight and ensured conditions necessary for future manned flights."

Japanese Outline 10-Year Missile Output Schedule

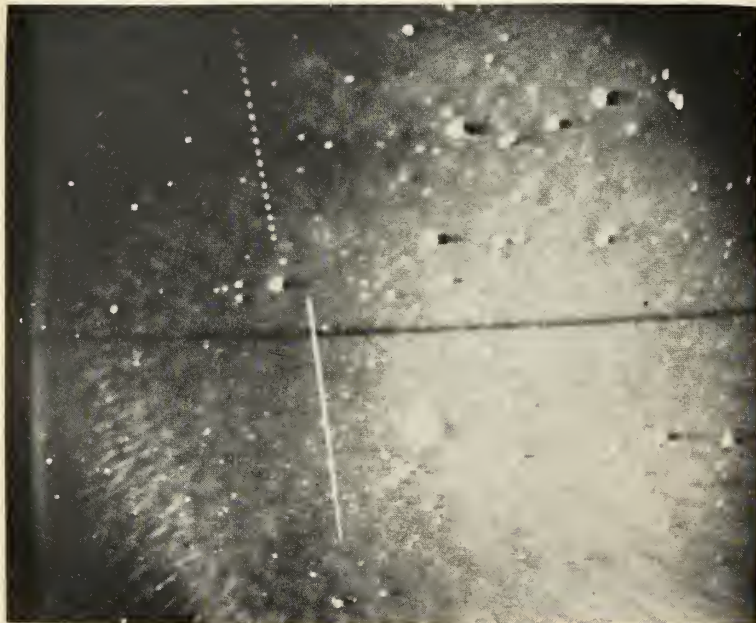
TOKYO—Peak missile production in Japan should be reached by FY 1964, says the influential Federation of Economics Organization.

In its report to the Japanese Defense Agency, May 12, FEO's Defense Production Committee also predicted that nearly a third of the \$1.574 billion to be spent over the next 10 years for missile/aircraft production will be for missiles and rockets. Domestic production will begin in FY 1961.

A variety of missiles are scheduled for production at an estimated 10-year total cost of \$468 million. These include the following types and quantities per year: *Nike-Hercules* (110-150), *Hawk* (100-200), *Bomarc* (20), *Sidewinder* (400), *Falcon* (200), *Lacrosse* (30-40), and several types of anti-tank missiles (1500). Also, some 50,000-60,000 air-to-air rockets will be supplied annually.

Sidewinders will be produced first, says FEO, and R&D of ground control facilities and electronic devices also will be increased significantly.

Aimed at clarifying production prospects for the missile/aircraft industries, the report was prepared with the cooperation of the Society of Japanese Aircraft Constructors, Japan Ordnance Industries Association, and the Guided Missile Council.



TRACING OF SPUTNIK IV in the sky over U.S. was photographed May 18 by Bendix TV Satellite Tracker. Dotted line was made by tumbling last stage, while solid white line is 5-ton satellite, which later broke up into several fragments after failure of a re-entry capsule reportedly containing a dummy spaceman. Black line in center is a TV screen element. Pearl-like objects are stars.

Meeting Cites Space Telemetry Needs

by Frank G. McGuire

SANTA MONICA, CALIF.—Development of new telemetering techniques and new telemetering instrumentation will have to be stepped up considerably to keep pace with the needs of space exploration. It will be a good market for electronic firms who can meet the severe requirements.

This was made clear by a number of papers presented here at last week's National Telemetering Conference. The meeting was sponsored jointly by the American Rocket Society, American Institute of Electrical Engineers, Institute of Aeronautical Sciences, Instrument Society of America and Institute of Radio Engineers.

Much of the emphasis was on the need for useful data during the period of unmanned flight when the hazards of sending man into space will be evaluated. That need will grow as manned flight and deep space exploration get underway, it was pointed out.

"The exploration of space will place requirements upon instrumentation systems which cannot be met by present-day telemetry techniques," declared J. D. Yeagley and W. W. Godwin of The Martin Co.'s Denver Division. A maximum of information must be obtained from each space probe to justify the costs of such experiments.

As one step forward, they proposed a PCM/PS telemetry system employing pre-transmission data processing, describing it as "A significant advance in the art of space telemetry."

• **Weight advantage**—Processing to eliminate unneeded data before transmission from a space vehicle, they suggested, would cut power requirements considerably and reduce power supply weight to as little as 10% of that needed for full transmission.

Their emphasis on weight reduction was echoed by R. A. Porter and M. I. Lesnik of Avco Corp. who noted that the limited payload capacities of missile and space vehicles are creating a demand for smaller and lighter telemetry systems. They recommended more efficient data transmission by stepping up sampling rates to as much as 150% of present maximum recommended rates for PAM/FM/FM systems.

Requirement for more advanced instrumentation in the field of bioinstrumentation was stressed by George W. Gleason of Martin-Denver.

"There has been much transducer progress in the last year, but that much more progress is needed to support the immediate needs," he reported. Gleason said environmental transducer development is the most advanced, physiological instrumentation takes second place

in terms of available hardware, and environmental instrumentation is the least exploited.

He said that for life support measurement in the important fields of oxygen concentration, carbon dioxide concentration, miscellaneous gases and gaseous flow, there are no transducers of electronic equipment available which satisfy all the requirements for space flight.

• **PCM interest**—Increasing interest in pulse code modulation telemetry (PCM) was noted by several speakers. William H. Seaver of EPSCO, Inc., told a session on PCM progress that the technique is drawing "widespread interest" as new techniques and new equipment are developed to permit the high-speed transmission of digital data.

R. L. Sink of Consolidated Electrodynamics Corp. said: "It is probably not exaggerated to state that if those now engaged in and who will remain in the telemetry field have not been involved in PCM programs to date, they will certainly be engaged in PCM programs within the next several years."

He said certain of the basic characteristics of PCM will not only justify but require its use in many forthcoming missile and space experiments, including *Minuteman* and *Titan*. He presented a detail survey of present and pending PCM use.

AF Reorganizes R&D Direction

Lt. Gen. R. C. Wilson, Air Force Deputy Chief of Staff for Development, has reorganized his office in order to handle all new weapons generally on a weapon systems basis.

A new Directorate of Systems Development has been established under Maj. Gen. Marvin C. Demler, former director of R&D. The new directorate will be in charge of all weapon systems programs. At the same time, Maj. Gen. V. R. Haughen, director of development planning, will become Wilson's assistant succeeding Maj. Gen. Leighton Davis. Davis has been named commander of the Atlantic Missile Range.

One of the major changes is that the Air Force Director of Advanced Technology also will report to Demler rather than directly to Wilson. He will serve as Demler's deputy.

The switch takes effect as Brig. Gen. Richard D. Curtain of the Ballistic Missile Division assumes the job as

director. He succeeds Brig. Gen. Homer Boushey, a pioneer in rocketry, who has been named commander of the Air Force's Arnold Engineering Development Center at Tullahoma, Tenn.

Correction

Due to a typographical error, last week's M/R inadvertently referred to the Pluto reactor as Tory I instead of Tory II. Tory I was a design which never left the drawing board. In the same story, transposition of a paragraph made it seem that a reference to difficulties with the use of liquid hydrogen in a nuclear reactor applied to Tory II. This, of course, concerned the Rover Program, not the Pluto Program.

Lunar Systems Activity Formed by Ford Division

Ford's Aeronutronic Division has formed a Lunar Systems Activity to manage its lunar capsule development program for NASA.

Ford was picked to construct a 300 pound instrumented package to be landed on the moon within the next two years. The package will be launched from a larger spacecraft being built by Jet Propulsion Laboratory, Pasadena.

Frank G. Denison has been named Lunar Systems manager, and will assume responsibility for technical administration and direction of the program.

The Lunar Systems Activity is comprised of four components: System Integration, Applied Mechanics, Electronics, and Product Qualification.

Retros To Brake Mercury

The *Mercury* space capsule will be braked from orbital speed by the firing of three solid-propelled retro-rockets developed and manufactured by Thiokol Chemical Corp.

The rockets that Thiokol is developing under subcontract to McDonnell Aircraft Corp. will brake the capsule velocity by about 500 ft./sec.—enough to initiate descent from orbit.

NASA said the three rockets, each 15 in. long, 12 in. in diameter and generating 1000 lbs. thrust for a classified period of time, will reduce the capsule from orbital velocity of 17,400 mph to subsonic speed and 70,000 ft. altitude in less than 10 minutes. At this point, the capsule's drogue chutes will come into play.

The rockets will be fired one at a time, on signal from the astronaut, an electronic programmer inside the capsule or a command signal from the earth.

Thiokol said that in a recent static test under simulated altitude conditions, plastic nozzle materials were used successfully. The test was conducted at the Air Force's Arnold Engineering Development Center in Tullahoma, Tenn. Use of plastic will



THIOKOL TE 316 Retrograde Rocket Engine for *Mercury* manned capsule, showing igniter leads, pressure-sensing switch and heater blankets.

allow a valuable savings in weight.

Thiokol manufactures the rocket, designated TE-316, at its Elkton, Md., plant.

Tiros I Camera Reported In Working Order Again

In the wake of the U-2 "spy" plane incident, NASA announced recently that *Tiros I's* high resolution camera was again in working order and is taking pictures over the Soviet Union as well as most of the Northern Hemisphere.

Earlier pictures from the camera indicated that its resolution was not high enough to detect significant objects on the ground. NASA, according to Administrator T. Keith Glennan, originally held up the high resolution camera's pictures until it determined whether or not the civilian space agency could be accused of having a spying eye in the sky. Principal purpose of both cameras is to give weather experts information about cloud cover.

The timing mechanism which controlled remote operation of the narrow-angle camera failed April 2. It began to respond again May 10.

NASA officials forwarded a possible explanation that a small joint in the wiring in the timer's wiring opened at low temperature, breaking a contact. "Soaking" in sunlight may have closed the joint, re-establishing the contact.

If such were the case, the officials

warn that continued exposure to low temperatures may result in a recurrence of loss of contact until heat from the sun again closes the opening.

New Procurement Bill Introduced in House

A bill limiting negotiations and extra incentive payments has been introduced by Chairman Carl Vinson (D-Ga.) of the House Armed Services Committee.

HR 12299 would eliminate the President's Korean War emergency powers and substitute a new authority for negotiated procurement—for use in a national emergency declared by Congress or by the President.

Incentive payments would go to contractors who could "... clearly and completely demonstrate" the savings were due to skill, efficiency or ingenuity in the performance of a contract.

Any of the other exceptions to advertised bidding would require the Pentagon to submit written findings that formal advertising would not have been feasible and practicable. A copy of this would be sent to GAO.

Negotiated procurement over \$2500 would have to be solicited from a maximum number of qualified sources

and procurement officers would have to hold written or oral discussions with all responsible contractors submitting proposals within the competitive range.

Military R&D to be Topic At IRE-Sponsored Meeting

Military research and development will be the subject of the opening panel discussion at the Fourth National Convention on Military Electronics in Washington, D.C., June 27-29.

Dr. J. R. Zacharias, Professor of Physics at Massachusetts Institute of Technology, will moderate the discussion by officers from the three military services. Panel members include Vice Adm. John T. Hayward, Deputy Chief of Naval Operations (Development); Maj. Gen. Leighton I. Davis, Air Force Assistant Deputy Chief of Staff, Development, and an Army representative not yet announced.

The technical program of the convention—sponsored by the IRE Professional Group on Military Electronics—will include 20 unclassified and 5 classified sessions. The classified portion will be sponsored by the Air Research and Development Command, and attendance limited to those with appropriate security clearance.

Unclassified session topics are: satellite electronics; microwave devices and techniques; instrumentation; noise effects on precision and data; communications; reliability; antennas; data handling; special electronic components; radar; simulation; missile ancillary systems; space technology; camera display devices; and vulnerability, guidance and control.

There will be classified sessions on instrumentation, electronic generation, switching and radiation, guidance and space technology, and reconnaissance and ranging.

Callery Plans to Begin Producing Pentaborane

Callery Chemical Co. expects to begin production of pentaborane at its Muskogee, Okla., plant by late summer.

E. G. Sanner, Callery president, said last week that employment at the plant will rise from 190 to 300 when the current modification is completed.

Pentaborane has been causing considerable stir in the rocket industry because of its storability and very high specific impulse with most oxidizers. The Air Force last February awarded Callery a \$9-million production contract.

"We are optimistic about the future of pentaborane because it has con-

missiles and rockets, May 30, 1960

Space probe reaches
heights of over 500 miles—
speeds of over Mach 10—
with unprecedented reliability ...



... AND BRISTOL SIDDELEY SUPPLY THE POWER

One of the largest manufacturers of motive power units in the world, Bristol Siddeley Engines Limited produce the Gamma. A liquid propellant rocket engine, the Gamma powers the Saunders-Roe Black Knight, Britain's highly successful space research vehicle. An extremely reliable powerplant, the Gamma produces a total sea-level thrust of 16,400 lb (7,438 kg) and nearly 19,000 lb (8,618 kg) outside the earth's atmosphere, for a total powerplant weight of only 700 lb.

The Gamma has sent Black Knight over 500 miles into space at speeds in excess of Mach 10 with a reliability that is unprecedented. For, to date, the Gamma has never failed to fire successfully.

Since Bristol Siddeley's rocket division began work in 1946, it has developed a wide range of components. *By combining these components in single or multi-chamber layouts, thrust requirements from 500 lb up to 100,000 lb can be met.*



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... AND THIS



The Bristol Siddeley Orpheus powers the Fiat G 91, NATO'S light fighter.

... AND THIS



The Bristol Siddeley Proteus powers the Britannia airliner.

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NASA Life Sciences Group To Farm Out Most of Studies

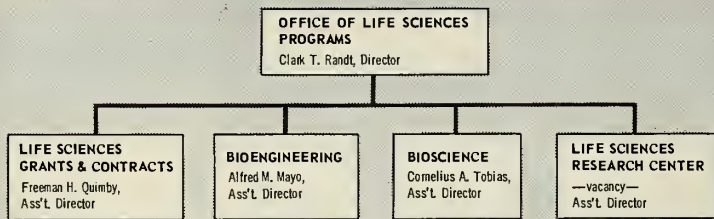


TABLE OF organization of NASA's new Office of Life Sciences.

NASA's recently organized Office of Life Sciences expects to be spending at least three-quarters of its budgeted funds for outside work. Some of these funds will be used for studies at military aerospace laboratories.

NASA also plans a Life Science Research Center, which would be built to attract outstanding life sciences talent.

The work of the Office of Life Sciences is being divided into four categories, each with its own assistant director. Heading up Grants and Contracts is a former Office of Naval Research chief scientist, Freeman H. Quimby. He will be overseeing the money given to sponsored research, grants and contracts research.

Taking the Bioengineering post is Alfred M. Mayo, with Douglas Aircraft for the past 20 years; and the Bioscience post, Cornelius A. Tobias, on leave from the University of California, where he is professor of medical physics. Still unfilled is the job of assistant director of the Research Center.

• **Man-machine integration**—One of the major pieces of work for the Office is to help get man into space. Phases of the problem are in biotechnology and in basic medical and behavioral sciences.

"Biotechnology," as defined by OLS Director Clark Randt, "refers to man-machine integration; environmental stress tolerance—that is, the definition of limits of tolerance and protection therefrom; a special category of protective equipment, escape devices, and radiation shielding; life support systems; public health problems, and ground crew safety."

Pointing out how important biotechnology is to the effort of his office, Randt emphasized that the military services have great capability in this field as regards personnel, facilities,

equipment and programs, and that consequently "we will turn for major support (in biotechnology) to the military service laboratories."

In basic medical and behavioral sciences, the Office sees the best help coming from the medical schools. The speaker hastened to add that these remarks should not be taken "as an attempt on my part to assign roles or missions" but merely as a recounting of accomplishments.

The program for the Life Science Research Center is now being planned so that it can be shown to Congress for approval next spring. Major reason for the Center "is that this would enable us to attract and productively utilize the talents of a few high-quality individuals to provide leadership for a national program in the space-related life sciences."

• **Select staff**—It was estimated that the facility would be small, maybe reaching 90,000 square feet and a staff of about 60 professionals. "We have no intention of building this Research Center across the waterfront in order to do any major portion of our research and development work there . . ." Represented would be flight medicine and biology, space medicine and behavioral sciences, and space biology.

Randt said that his Office is particularly concerned with planning and participating in the follow-ons to Project *Mercury* in the manned space flight area. He observed that Project *Mercury* itself is already well down the road, with the planning phase being over, and hence there is little work here for his office except minor consulting.

Of more immediate interest is starting a program for biological experiments in the upper atmosphere and space environment. Randt said that within the next two months there will

be a meeting of scientists interested in this work who will be advising on productive areas of research and the priorities they should have.

Speaking of work that outside contractors could do, Randt called for instruments able to make automatic analyses of remote planetary surface and subsurface organic compounds. "We would like to be (in) on the development of instruments for that purpose . . ."

NASA would also like to get a device which after emplacement would collect samples of possible life forms on other planets. "Such collections of samples and the automatic instruments that by telemetry would record data then will bear on the major problem of the origin of life and the genetic mechanisms of evolution," Randt said.

NASA Spending House Votes More Power Than Appropriations

The House last week left NASA with a \$94 million discrepancy between its Fiscal Year 1961 authorization and appropriation.

After having passed an appropriations bill cutting NASA's FY '61 spending by \$38,950,000 (M/R, April 25, p. 61), the House turned around and passed the Senate-House conferees' authorization bill giving the space administration authority to spend \$55 million more than it had asked for. (The Senate subsequently passed the authorization bill and sent it to the President.)

According to the House appropriation bill, NASA can spend \$866 million; according to the House-Senate authorization bill, NASA is authorized to spend \$970 million. NASA had asked for an authorization and appropriation of \$915 million.

The Senate Appropriations Committee is currently considering NASA's budget. It is expected to recommend that the Senate appropriate \$50 million more than NASA asked for in FY '61, thereby making the Senate appropriations bill identical to the Senate authorization bill.

Then the opposing bills will be submitted to a conference committee where some compromise will be attempted to eliminate the \$93 million contradiction in the House bills.

In the final version of the authorization bill passed by the House is a provision for 30 additional "excepted" positions not subject to normal Civil Service regulations. This would give NASA authority for a total of 290 of these high-grade jobs.

Discoverer Problems Still Unsolved

by Hal Gettings

No final answers have yet been found as to why the *Discoverer* program has failed to yield a successful re-entry and recovery. The puzzle is being intensively investigated by Lockheed, the prime contractor, and General Electric, developer of the re-entry vehicle.

Eleven of the Air Force satellites have been fired without success. Six have been put into orbit but none has re-entered in the planned recovery area. At least two, and possibly three, probably re-entered in other areas, but no recoveries have been made.

The *Discoverer* program calls for the launching into polar orbits of a number of *Agenas* for development of the satellite and its systems, and for bio-medical and other scientific experiments. *Agena* is boosted to near-orbit altitude by the AF *Thor* which separates after burnout. The satellite coasts upward as it positions itself in a horizontal attitude; then its own engine is fired to bring it to orbital speed.

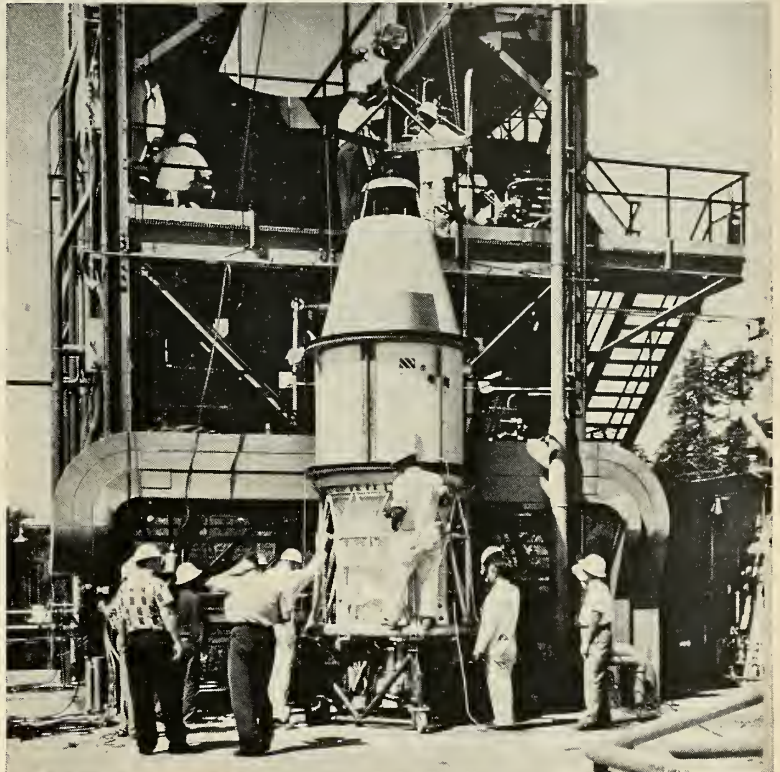
Soon after attaining orbit, the satellite is programmed to turn 180° to face the nose section rearward and destabilize in this attitude.

On the 16th pass, the satellite is tilted 60° downward and stabilized to permit ejection of the nose section.

As the satellite swings over the pole and past Alaska, a timer activates the ejection sequence and the re-entry vehicle-recovery capsule is separated from the rest of the *Agena*. A retro-rocket on the nose section fires to slow it down to permit a gradually curved entry into the earth's atmosphere. A parachute is opened at the proper time in order that an aerial recovery attempt can be made near the Hawaiian Islands.

• **Monkeys delayed**—The phase involving the carrying of live monkeys into space for bioastronautic research has been delayed until after two successful recoveries of "unmonkeyed" capsules have been made. (Monkeys used in the experiments must be American-bred, due presumably to their being held sacred in some countries of origin.)

One capsule carried mice, but failed to orbit. An instrumented but unoccupied "mouse house" was carried



SECOND-STAGE *Agena* carried re-entry vehicle into polar orbit. After stabilization and proper attitude orientation, nose cone is separated and returns to earth.

Discoverer Box Score

DISCOVERER	LAUNCH	ORBIT	SEPARATION	REASON FOR FAILURE
I	OK	OK	OK	Not Known.
II	OK	OK	OK	Incorrect timing. Re-entry over Spitsbergen.
III	OK	NO		Not known.
IV	OK	NO		Not known.
V	OK	OK	OK	Possible wrong attitude at separation. Vehicle probably became satellite "Unknown 1-60."
VI	OK	OK	OK	Navy planes supposedly tracked re-entry body, but no recovery.
VII	OK	NO		
VIII	OK	OK	OK	Attitude control problem. Re-entry outside recovery area.
IX	OK	NO		
X	NO			
XI	OK	OK	OK	Not known. Could be rocket failure, improper attitude, physical hangup on separation.

in *Discoverer II*, which re-entered over Spitsbergen in the Arctic Ocean. Instrumentation of the life-capsule on other shots has telemetered back data indicative of its successful operation.

Troubles plaguing *Discoverer* can come from any number of possible sources. Precise stabilization of the *Agna* in orbit is one vital consideration. Due to critical re-entry angle and speed, the re-entry vehicle must be exactly positioned in attitude when ejected from orbit. Otherwise, it will go into another orbit or burn up in the atmosphere. Stabilization has been

achieved but, apparently, attitude was not correct or other malfunctions occurred.

In the most nearly successful operation to date—*Discoverer II*—everything went well but timing. The re-entry vehicle was spotted by “qualified observers” in the Spitsbergen area but could not be located after it hit the ground. The capsule of *Discoverer VIII* also re-entered outside the planned area and was not recovered.

• **Tough requirements**—Other items in the re-entry complex can also become significant due to the sophisti-

cated nature of the operation. Separation must be clean and exact. Retro-rocket firing must be exactly timed and of precise thrust. Attitude of the re-entry vehicle after separation must be properly stabilized when the retro-rocket fires. The radio beacon must operate at the proper time for ground tracking. Any one of a number of minor malfunctions can abort the mission.

The program in its early stages did not provide for telemetry. As problems developed, however, telemetering equipment was added to the vehicle. But telemetry didn't provide all the answers. In most cases it could tell what went right but not what went wrong. There was no way to verify, for instance, that there might have been a physical hangup on the re-entry vehicle separation . . . or that final attitude was not disturbed on separation . . . or some other malfunction did not occur. It is practically impossible to instrument for all contingencies—and still carry a useful payload.

In the meantime, investigation is still going on to find the answers. Other vehicles are scheduled to be launched in continuing attempts to successfully accomplish the mission and put the experiments on a routine basis.

Lockheed was recently granted a \$50-million contract for 16 more *Agna* vehicles, some of which will be used in the *Discoverer* program. The exact number of future firings has not been released, but present plans are to continue the open-end project for some time.

Constant Satellite Watch Feasible With TV Equipment

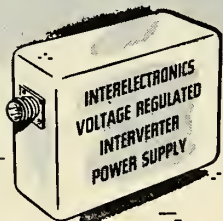
Supersensitive astronomical daylight photographs are now practical using television techniques. Equipment has been developed by International Telephone and Telegraph Corp.'s ITT Laboratories, Ft. Wayne, Ind.

The importance in this development, says ITT, is that 24-hr. observations are now possible. Perhaps more important, 25 or more telescopes equipped with this closed-circuit equipment could maintain constant satellite observation.

Six years have gone into the development, sponsored by the Air Force Aeronautical Research Laboratories, Dayton.

Heart of the equipment is an electronic transducer which receives the light and transforms it into electrical impulses. These are amplified and converted to a visual image on a storage cathode ray tube. The object being scanned then may be observed visually or photographed.

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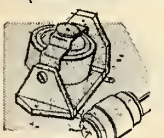
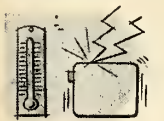
Complies with MIL specs. for shack (100G 11 msc.), acceleration (100G 15 min.), vibration (100G 5 to 5,000 cps.), temperature (to 150 degrees C), RF noise (I-26600).

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Saturn Pad and Its Escape System

On this page are pictures of the *Saturn* launch facility and its service tower's safety escape mechanism presently being constructed at Cape Canaveral.

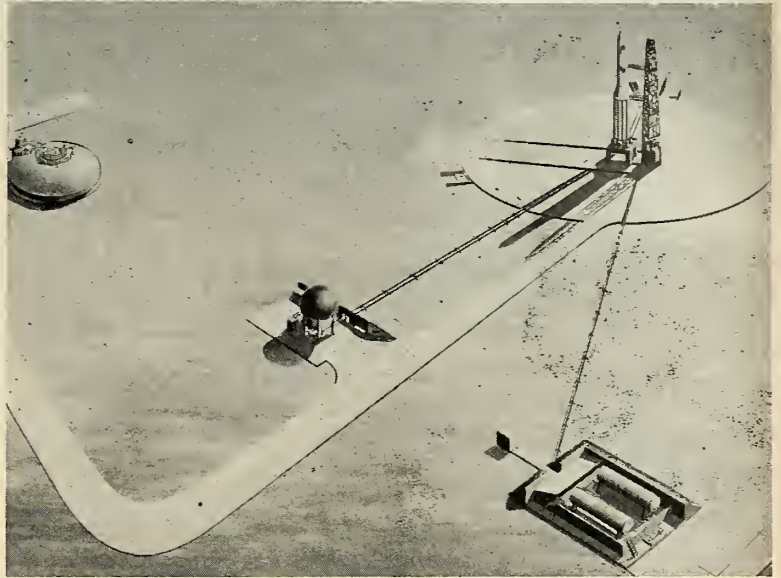
The hazards of fueling the upper stages of *Saturn* necessitated construction of the novel escape system. The huge vehicle may eventually carry a nuclear top stage.

At right is a schematic of the three-stage version of the vehicle sitting on the launch pad, with a service structure and propellant-loading facilities of liquid hydrogen and liquid oxygen in the upper stages.

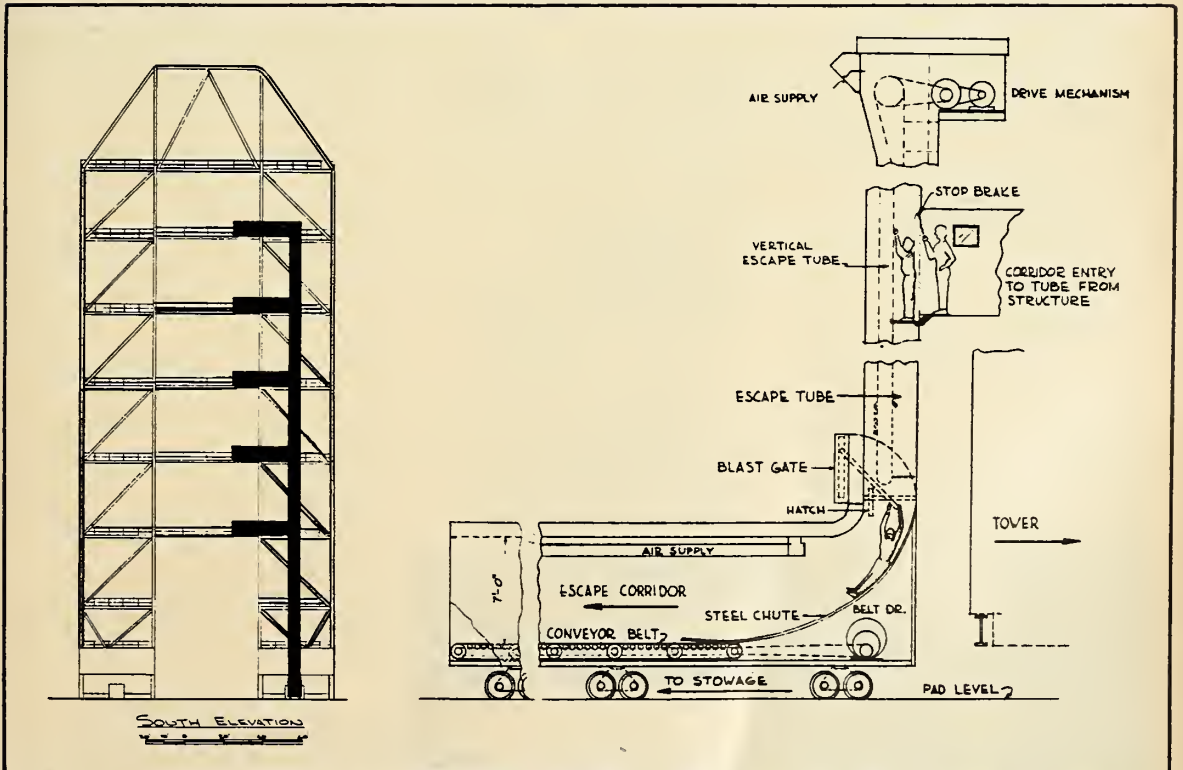
At right in the schematic is the blockhouse from which the firing will be carried out.

The facility will be used for the first launching sometime in the summer of 1961.

Funds for the facility were included in NASA's FY 1961 budget.



DEPICTED IS the *Saturn* launch facility under construction at the Cape, including the propellant-loading facilities for LOX and liquid hydrogen.

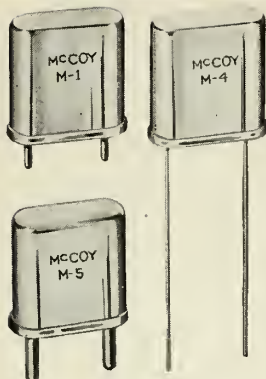


TO BE BUILT at *Saturn* launch site is a safety escape mechanism. Vertical descending manlift transfers to horizontal belt for transporting personnel to edge of pad. System is needed because of service tower's 30-story height.

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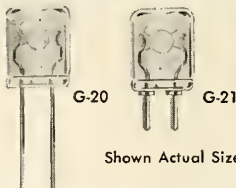


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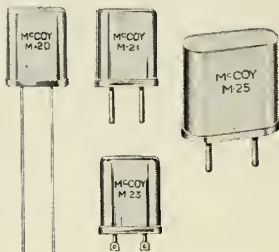


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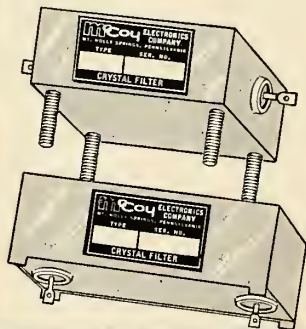
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AFCEA Meeting

Record Session Opens With Moon Relay Test

The Armed Forces Communications and Electronics Association officially opened its 14th Annual Convention in Washington with a ceremonial moon relay to and from Pearl Harbor.

The Naval Communications Station here served as the initiating site for this first public showing of the moon relay system, developed by the Navy and Developmental Engineering Corp. UHF high-powered transmitters and highly directional narrow-beam antennas were used during the communication.

Relay time for the 1,000,000-mile round trip distance was roughly five seconds. The first message was sent by AFCEA President B. H. Oliver, Jr.

Certainly the Missile/Space Era dominated all aspects of this year's May 24-26 meeting. A majority of the 160 exhibits at the Sheraton Park Hotel involved missile or space products and R&D services, as did all of the panels and speeches.

Theme of the convention was "Communications and Electronics—The Arm of Control, the Voice of Command." By M/R's press time, more than 4500 persons had registered—topping all previous records—and all social events were sold out, an unusual occurrence at a technical conference.

• **Principal speakers**—The keynote speaker, Admiral Arleigh Burke, Chief of Naval Operations, summarized recent advances in military electronics and stressed the need for cheaper, more reliable and less complex equipment and systems.

Maj. Gen. George L. Black (USA, Ret.), an executive of International Resistance Co., was principal speaker at the Industrial Luncheon.

He reviewed the milestones leading up to the 100th anniversary of the U.S. Signal Corps—from smoke signals in the early 1800's, through a weather service assignment in 1870, to flag and torch, heliograph, telegraph, telephone, radio, and finally communication satellites.

Leo Cherne, Executive Director of the Research Institute of America, was main speaker at the Conference banquet.

• **Panel**—A six-man panel from the National Aeronautics and Space Administration presented a well-rounded discussion of the use of satellite communications, positioning, and tracking, plus a glimpse at some advanced research in this field.

missiles and rockets, May 30, 1960

ELECTRONICS CO.
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Lockheed's MSD Faces Crippling Strike Threat

Four vital defense programs will halt at Lockheed's Missile and Space Division if the 10,548 members of the International Association of Machinists resort to strike action in the current contract negotiations.

The strike authorization was voted in last week by 95.4% of the IAM membership. The union is proposing a 7% cost increase for each year of a two-year contract. The figure includes both pay and fringe benefits.

Thomas E. McNett, IAM spokesman, charged earlier that the negotiations have been subject to government interference in the form of rumors that

no provisions will be made in contracts for employe relocation and other expenses related to the assignment of personnel to off-base test sites. One IAM request concerns relocation pay for some 2000 employes at LMSD's Van Nuys, Calif., plant.

McNett accused the firm of "dragging their feet" in the negotiations which began at Santa Barbara, Calif., April 5.

Six Lockheed plants will be affected by the strike, halting production on *Polaris* missiles, and *Discoverer*, *Samos* and *Midas* satellites.

mergers and expansions

AIRTRON DIVISION of Litton Industries has established an Advanced Devices Laboratory for R&D in micro-wave subsystems, components and materials. Dr. Ernest Wantuch will be director of the Morris Plains, N.J., facility.

ELECTRO NETWORKS, INC. of Syracuse, N.Y., has disclosed acquisition of all outstanding stock of Camden Electronics in New Jersey. Maintaining its same line of products, Camden will operate as a division of Electro Networks.

GIANNINI CONTROLS CORP.—has moved its general offices and gyro division to Duarte, Calif. An 80,000-sq.-ft. facility is planned which eventually also will hold the company's Transducer Division.

ELECTRONIC ASSEMBLY CO. has changed its name to Elasco, Inc.

WEATHERHEAD COMPANY, Cleveland, put into operation a new \$100,000 facility for assembly and testing of critical missile fluid power system components under surgically clean conditions.

ELGIN MICRONICS broke ground for a new 15,000-sq.-ft. Research and Engineering Lab at Rolling Meadows, Ill., 28 miles Northwest of the Chicago Loop.

NORTH ELECTRIC COMPANY, Galion, Ohio, has acquired control of Power Equipment Company. The latter produces power supplies for computers and other electronic systems.

AERO INSTRUMENT CO., Burbank, Calif., has been purchased by Radioplane Division of Northrop. Aero will continue to operate under its own name and management.

PUROLATER PRODUCTS, INC. has opened new research laboratories in a newly constructed half-million dollar building with more than 13,000 square feet of space . . . Western Scientific Instrument Co., Inc., firm of instrumentation engineers has established a technical coordinator district in the San Diego area . . .

INTEGRATED DATA PROCESSING, INC. has been acquired by Monroe Calculating Machine, Inc., a division of Litton Industries. IDP, who furnishes financial reports to all types of companies, will operate as part of Litton's Monroe Division.

financial news

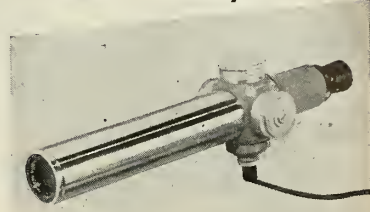
Textron Electronics—First quarter sales were \$6.5 million; net income was \$226,000. Textron's backlog of business as of March 31 was \$5 million.

Garrett Corp.—A net profit of \$3.9 million from consolidated sales of \$166.6 million was realized for the nine months period ending March 31. Net income was 59% higher than that of the corresponding period in the previous year.

Air Reduction Co., Inc.—Sales for the first quarter of 1960 were \$53.3 million, 11.1% higher than that of 1959's first quarter. Net income in the first quarter of 1960 was \$4.2 million, or 10.9% over the previous year's first quarter.

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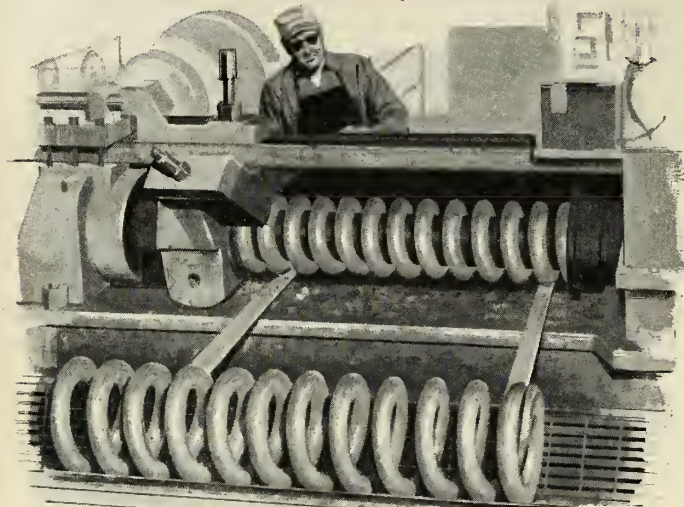
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contracts

NASA

\$450,000—Space Electronics Corp., \$118,000 for fabrication and test of flight decoder units, ground equipment and system test consoles related to a spacecraft radio command system and \$325,000 for design, packaging and fabrication of a digital data handling system for transmission of information from deep in space.

AIR FORCE

- AiResearch Manufacturing Div., The Garrett Corp., for design, development and manufacture of a liquid oxygen converter system capable of operating at zero gravity. Amount not disclosed.
- Electro-Optical Systems, Inc., Pasadena, for a mathematical study of performance characteristics affecting solar energy concentrators. Amount not disclosed.
- \$118,000,000—Convair, General Dynamics, San Diego, for continued production of the *Atlas* including both weapon system and space booster uses.
- \$46,000,000—Hoffman Electronics Corp., Los Angeles, for production of Tacan sets.
- \$4,000,000—Continental-Emsco Co., Dallas, for constructing 12 structural steel cribs for *Atlas* missile underground launching pads.
- \$3,800,000—American Machine & Foundry Co., for development of an underground launching system for *Atlas*. Subcontract from Convair.
- \$3,500,000—GPI Division, General Precision, Inc., for overall design, integration and testing of the navigation subsystem package for the ALRI program, an extension of SAGE.
- \$1,500,000—Bendix Aviation Corp., for initial production of the AN/GJQ-9 automatic ground check-out system for the *Sky Bolt* and *Hound Dog* missiles.
- \$600,000—Hydraulic Research and Mfg. Co., Burbank, Calif., for electro-hydraulic steering actuators to be used on the *Atlas*. Subcontract from Convair-Astronautics.
- \$120,000—Cornell University, Ithaca, N.Y., for continued research on linear beam tubes.

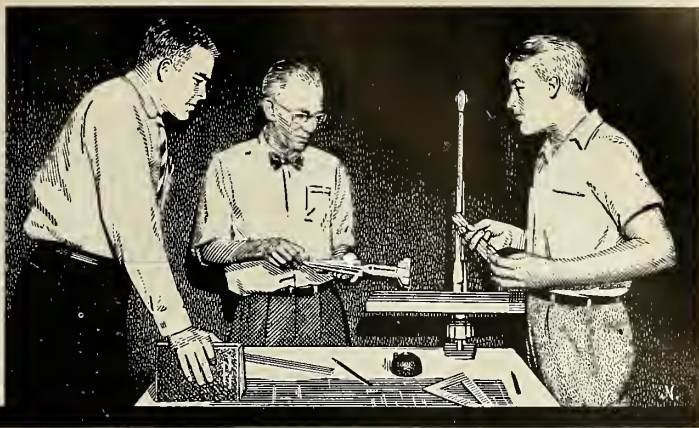
ARMY

- Telecomputing Corp., Whitaker Gyro Division, Los Angeles, received a contract for the design and development of a two-axis free gyro for use in the *Shillelagh* missile. Subcontract from Aeronutronic Div., Ford Motor Co.
- \$13,560,853—Raytheon Co., Waltham, Mass., for components for the *Hawk* missile system. (Three contracts covering ground equipment, field maintenance equipment, telemetering and ground stations sub-assembly.)
- \$5,303,912—Sperry Rand Corp., Salt Lake City, for research and development on the *Sergeant* missile system.
- \$4,077,000—Western Electric Co., Inc., New York, for research and development of the *Nike-Zeus*.
- \$2,477,247—Five Boro Construction Corp., New York, for construction of missile master support facilities in the Pittsburgh defense area.
- \$1,094,319—Raytheon Co., Waltham, Mass., for repair parts, *Hawk* missile system.
- \$683,785—Forrester Construction Co., Flint, Mich., for construction of SAC GAIM facilities, Wurtsmith AFB.
- \$214,000—Freuhauf Trailer Co., for manufacture of missile pallets for the *Hawk* missile. Subcontract from Raytheon Co.
- \$193,204—Aeronca Mfg. Corp., Middletown, Ohio, for design, fabrication, test firing and evaluation of a rocket-deployed parachute support target system.
- \$175,000—Columbia University, New York City, for analysis of radar noise in the *Nike* and related systems.
- \$98,872—Martin Construction Co., Cocoa Beach, Fla., for construction of Azusa Service Center, Cape Canaveral Missile Test Annex.

missiles and rockets, May 30, 1960

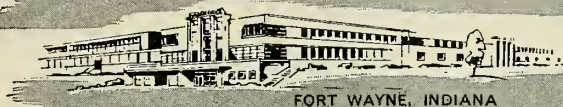
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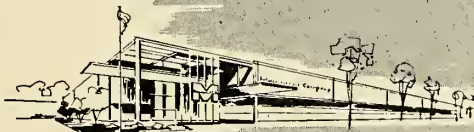
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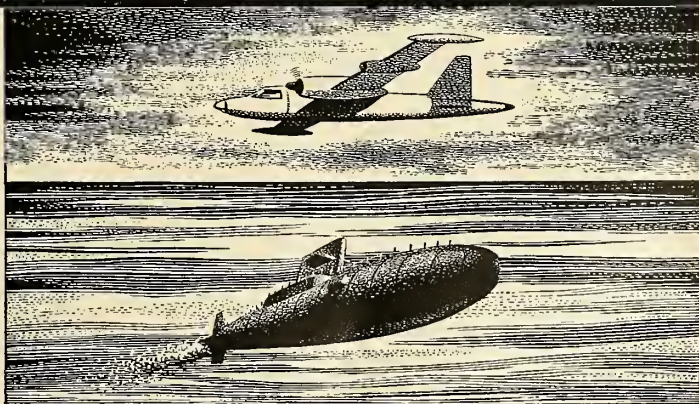
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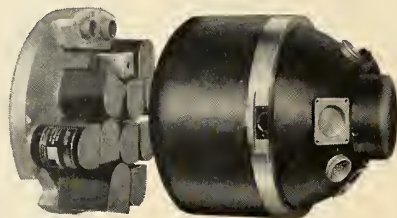
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ELECTRONICS

Two-Mile Impact by Atlas

Air Force is keeping it quiet, but the payload of the recent 9000-mile *Atlas* shot impacted within a two-mile target area in the Indian Ocean. The bird used General Electric's radio-command guidance system and was not a stripped-down version. Weight savings in Rocketdyne propulsion system was the key factor. The Mark 3 nose cone was reportedly same weight as operational RVX-4.

Solar Radiation Communications

Electro-Optical Systems, Inc. is developing a new communications system (SOCOM) using solar radiation as the transmitting mode. Providing optical communications over interplanetary distances, the system will be used for all types of data transmission in space, and possibly from space to earth. Sponsored by AF's WADD, it has very narrow beam width which appears to be invulnerable to ECM. EOS says the system can be satellite-tested in two years.

High Capacity at Aerojet

Total cost of instrumentation and the electronic control centers at Aerojet-General's 22,000-acre test facility outside of Sacramento, Calif., was roughly \$15 million. Sounds high, but about 40% of the total test center is used for each major contract. At present, company is running from 400-700 liquid-fuel engine tests/month; 400-2000 solid rocket tests/month.

Douglas Heavy With Computers

If there is any doubt in anyone's mind that the missile/space industry isn't extremely computer-oriented, take a look at just one typical prime: Douglas Aircraft Co. has 14 autonomous computer sections using 17 major data processing machines and 29 smaller free access computers. Its Missile Computer Engineering section, however, employs half the total talent available and takes one third the total operating expenditure.

GE in Battelle Program

GE's Light Military Electronics Department will represent the company in the Battelle Memorial Institutes' Electronic Component Reliability Center program. Purpose is to develop reliability, performance and application data on component parts from pooled raw test data supplied to the center by some 12 participating companies. Results will be documented to the companies. Involved are transistors, diodes, tantalum capacitors and relays.

Sub for Shillelagh

Telecomputing Corp. has one-year subcontract for design and development of the gyro for Army's *Shillelagh*. Assuming the gyro design work is successful, follow-on production contract would be awarded by Aeronutronic, a division of Ford.

ASW ENGINEERING

Barium Titanate Cost Criticized

Transducer manufacturers are griping that the price of barium titanate is "way out of line." One manu-

facturer says he has to pay \$40 for a flat plate 4 in. in diameter, 1 in. thick—and that its cylindrical shape couldn't possibly justify such a cost. But with not many standard types available and the trend in transducer sizes becoming larger to accommodate lower frequency, costs probably will remain high. There is talk of putting in megawatt pulse.

RUM Vehicle Worries

ONR's remote control ocean bottom crawler, dubbed RUM, has a good many missile/space companies goggle-eyed at its production possibilities. But Navy sources say the original "insiders"—Hughes, Orbitran, General Mills—probably will reap the production benefits.

MATERIALS/STRUCTURES

Oops, We're Sorry!

Standard Steel Corp.—not Standard Pressed Steel (as reported in M/R, May 2) has been licensed to make a super-insulation developed by National Research Corp. for long-term storage vessels for liquid helium, hydrogen and fluorine.

Switching Advance at Goodrich

Bellows activated switches took a big step forward last week with the development of "Omega design" seamless bellows operational up to 1200°F and 12,000 psi. at B. F. Goodrich. This is about twice the capabilities of current bellows.

Arc Chamber Cracks

Operational date for Boeing Airplane Co.'s new Mach 27 electrical arc discharge tunnel, scheduled for extensive use in the *Dyna-Soar* program, has been postponed. The tunnel's arc chamber cracked at 30,000 psi during hydraulic testing.

PROPULSION

F-1 Test in Spring

The word is that the first full thrust (1.5 million pounds) test of Rocketdyne's *F-1* engine will be at Edwards AFB in the spring of 1961.

Strip Steel Motor Cases

Solid cases reaching 305,000 psi hoop stress are in experimental fabrication at Ryan. Layers of Allegheny Ludlum's AM-355 are wound and then spot-welded into cylindrical chambers.

JPL Expansion

With the propulsion industry having to put its own money in new facilities—in most cases just to bid on contracts—Jet Propulsion Lab of CalTech is on same wagon. JPL has a three-year, \$7-million program to relocate and modernize its solid and liquid propellant test cells and to establish new research laboratories. Construction soon will start on a 60-acre site near present Pasadena facilities.

As crisis continues . . .

Defense Market Due To Double by Mid-'60's

Mobility will become the major criterion and tactical missiles will get biggest R&D emphasis; military space effort is seen certain to expand

by James Baar

The decade of the 1960's will see the missile come of age as America's prime weapon and means of reaching out into the Solar System. By the middle of the decade the military missile/-space market is expected to at least double.

For the Missile/Space Industry, four major trends are evident to many top military and civilian defense leaders as the decade begins:

- Mobility is rapidly becoming the essential element of any new missile system.

- The relatively short-range tactical missile is expected to become the prima donna of the development field as the big long-range systems are completed—except for follow-on improvements.

- Military space programs are expected to absorb a growing share of the defense budget.

- Missile defense systems are expected to call for more and more effort by the mid-1960's.

The result will be continued expansion of the Missile/Space market. Only the rate of that expansion remains to be determined, depending on the approach of the next administration to the nation's critical defense problems.

The FY 1961 defense budget includes nearly \$7 billion for all missile programs plus another \$1.7 for military astronautics, foreign missiles for

TEST firing of tethered Boeing *Minuteman* at Edwards AFB, Calif., symbolizes the push to get operational mobile ICBM systems by middle of decade.

military aid nations and missile maintenance. Congress is expected to add several hundred million more—that the present Administration may or may not spend.

Conservative estimates put total annual defense spending on missiles and space by 1965 at about \$18 billion. A number of responsible military leaders put the figure much higher.

- **Imponderables**—Two of the biggest unknowns in speculating on the size of the missile/space military budget are missile defense and space.

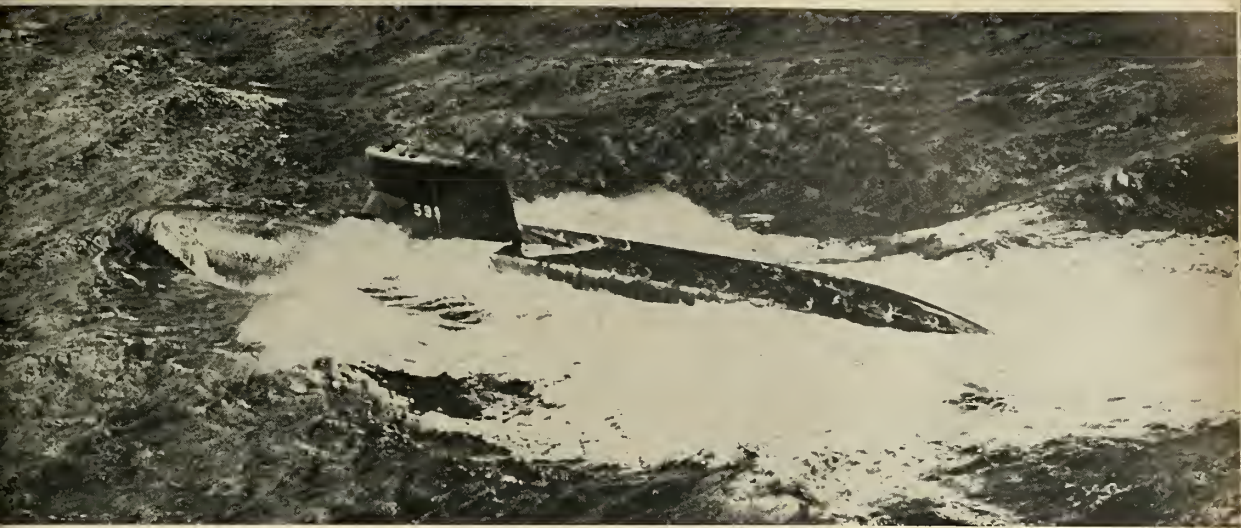
Any foreseeable missile defense system designed to provide protection for continental United States would cost between \$10 and \$15 billion depending on how much defense the country bought. The Western Electric *Nike-Zeus* antimissile missile could provide protection for about half the nation's population for some \$15 billion. Some proposed systems would cost three times as much or more.

The question that military planners face is whether a system that costs so large a sum is worth it. No decision has been reached.

The expansion of military operations into space is considered inevitable by most military men regardless of the current Administration's policy that the military services have no interest beyond a few thousand miles out.

Some top military men feel that by the end of the 1960's the military occupation of the moon will be necessary for national survival. Many more attach similar importance to the development of space bombers and space stations.

The question is how quickly the



PRIME DETERRENT WEAPON of '60's will be submarines like the Patrick Henry, whose *Polaris* tubes show clearly above.

United States will move toward these costly military goals.

• **Move to mobility**—The trend toward mobile missile systems is already very great.

By the mid-60's, much of the nation's major deterrent power will be vested in three systems: the *Minuteman*-launching railroad car, the *Polaris*-launching submarine and the *Sky Bolt*-launching bomber. However, present plans also call for a huge program for building dispersed, hardened *Minuteman* bases.

The same in trend is seen in the tactical missiles of the Army and Navy.

All of the Army's newest missiles are designed either to be easily transportable on trucks or tank treads or carried on a soldier's back.

The Navy's missiles have always been mobile because of their deployment aboard ships. However, the trend appears here, too, in the Navy's search for greater speed in the hydrofoil ship.

• **Hydrofoil destroyer?**—A contract for the first hydrofoil subchaser which will carry antisubmarine missiles is scheduled to be let by July 1. Many in the Navy advocate construction of a missile-packing hydrofoil destroyer as the next step. (M/R, May 23)

The hydrofoil destroyer would be deployed in fleets and be capable of downing sub-launched missiles with an antimissile missile such as the Westinghouse *Typhon* now under development. The new ships also would be capable of launching tactical range surface-to-surface missiles.

Some buildup of the Army's tactical missile arsenal will be underway

this year if the Administration accepts the opinion of many congressional leaders. However, the big buildup is not expected to begin until 1962 at the earliest.

The Army not only needs to purchase its newest missiles in quantity to meet the threat of limited war but it is interested in the development of ever smaller, lighter missiles of various ranges up to 1000 miles. At present, it is prevented by official edict from extending the range of its tactical missiles beyond the 300-mile range *Martin Pershing*. There are some indications that this ceiling will be raised.

• **Gas carriers**—Another growing area of Army interest is in the field of poison gas missiles. Tactical missiles designed especially to carry chemical and biological agents in their warheads and similar strategic long-range missiles figure importantly in Army planning.

Some defense officials predict that development work in the mid-1960's will concentrate on tactical missiles because much of the effort and money that has been devoted to long-range missiles no longer will be needed.

All of the future ICBM and IRBM programs currently envisioned generally involve product improvements rather than radical innovations. Military men want to extend the range of the Lockheed *Polaris* to 2500 miles and increase the size of the warhead on both *Polaris* and *Minuteman*. The Air Force would like to develop a third generation ICBM which would for the most part be a small-scale *Minuteman*.

But none of these proposals involve the magnitude of difficulty that confronted the men who developed the

first large liquid-propelled and solid-propelled missiles.

• **Ultimate mobility**—In the field of tactical missiles, the possibilities of the future can be seen in the nuclear-tipped *Davy Crockett* than can be carried by two men or on the back of a jeep and the Convair *Mauler* anti-missile missile, tactical battlefield weapon reported to weigh less than five tons in its entirety.

New materials, solid and pre-packaged liquid propellants with much higher specific impulse, nuclear and ion-powered rockets, still smaller electronic systems, all will be needed.

Many military officials feel that it is here that many firms must turn for contracts in a market where more dollars are continually being spent for fewer programs. But they argue that research as an end in itself and not as a means to production contracts is increasingly needed. If they are correct, the demand for radical changes in the contracting system can be expected.

• **Steady market**—Underlying all predictions as to what the 1960's hold for the military missile/space market is the assumption that the East-West struggle will continue in one form or another.

No top official in or out of military uniform is known to think anything but that it will. Moreover, many feel that America's great time of trial lies directly ahead and that the period between 1960 and 1970 may well decide the fate of the world for the next century.

With the money and policies to go with it, the weapons built by the American Missile/Space Industry will tell the tale.

NASA Outlay May Top \$20 Billion

Spending estimates rise as space race intensifies; newly decentralized contracting set-up makes for fast award of contracts

by Paul Means

The National Aeronautics and Space Administration in less than two years of existence has undergone a major evolution. Changes which affect contractors include:

- A significant increase in the amount of money to be spent.
- A decentralization of the NASA procurement procedure.
- Major revisions about to be affected in NASA patent policies.
- The addition of two new field organizations.

The doubt about who-does-what-in-the-space-program was pretty well settled during 1959, with NASA becoming the nation's principal space organization. With few exceptions NASA is now charged with the development of future space boosters, upper stages, vehicles, instrumentation—the projects which will explore near space, and all of space more than 600 miles away.

Present estimates are that the Space Administration will spend from \$15 to \$20 billion during the next decade in carrying out this program, and this figure is being revised upwards as the space race progresses.

• **Decentralization**—One major change in NASA's procurement procedure during the past year was to decentralize. In the past, most of NASA's larger contracts, such as the development of *Nova*, *Vega*, and *Delta*, had been made at NASA headquarters in Washington. Now such contracts will be made by the field organization concerned.

Names of regional procurement officers are listed (see box) and the types of procurement done by these various field offices will be described below.

While supply and construction contracts are being made on a fixed price basis—largely by formal advertising—cost-plus-fixed-fee contracts are used for the bulk of NASA procurement, which is research and development. It is NASA's contention that cost contingencies, because of technical uncertainties, would make it necessary for

contractors to include a substantial amount over their price to cover unknown costs or take a chance of losing money if such procurements were based on a fixed price basis.

NASA's basic procurement authority is the Armed Services Procurement Act, the same authority as the military departments. Its contract clauses, therefore, largely follow the clauses and procedures used by the military.

One advantage of NASA contracting procedure is that its procurement organization is small, allowing it to negotiate and conclude contracts with a minimum of time and formality.

• **How it works**—The average NASA contract to be let on a cost-plus fixed-fee basis begins with a bidders' conference, where early draft specifications are viewed by prospective bidders. This conference is held at the NASA center where the contract will be supervised.

Then a request for proposals goes out to possible bid sources. The number of companies bidding is usually fewer than the number attending the bidders conference.

After the bids are received, the NASA center supervising the contract hands the bids over to a source evaluation board which has been appointed from business and technical experts at the center. They evaluate the bids, considering the past economic history of the company, past bids made by the company, and technical evaluations of the company's facilities and personnel and the company's bids.

Once the local center's source evaluation board has made up its mind, and if the contract's potential cost is over \$1 million, the board comes to Washington and briefs NASA Administrator T. Keith Glennan. Glennan then selects the bidder. He may follow the board's advise (as is usually the case) or he can select another company as the bidder. The final determination, and the responsibility, is his.

After selection of the bidder by the Administrator, the legal staff of the local center then negotiates a contract with the bidder. The contract contains

a clause which states that either party in case of breach will submit to arbitration before NASA's Board of Contract Appeals. If the contracting company is still not satisfied, it can then appeal to the U.S. Court of Claims.

Since the Administrator makes the bidder selection on contracts whose potential cost is more than \$1 million, the evaluations on which the board's selection are made are not made public. This has been criticized by Congress recently, but there is little chance that the procedure will be changed since NASA Constitutionally can withhold the information because of executive privilege.

After NASA has made a research and development contract, the military department having a contract administration staff at the contractor's plant is requested to administer the contract for NASA. NASA concluded an agreement with the Navy to assist in its procurement work some time ago, and recently effected a similar agreement with the Air Force. Payment of invoices, however, is made through NASA.

NASA also requests one of the military departments to contract for certain items, such as facilities to be used by NASA at a military base, or to procure boosters for its space shots. In these instances, the military department chooses the contractor, negotiates, writes and administers the contract. Though considered a DOD contract, such contracts carry the NASA patent clauses.

• **Small business aided**—Also created by NASA during the past year was the office of Small Business Adviser, headed by Jacob M. Roey. Each center has recently appointed a small business adviser. Since his appointment last July, Roey has been screening a list of small businesses (those with under 500 employes) supplied by the Small Business Administration for potential NASA contractors.

To this list Roey has added many small research organizations that are relatively new and have never been on the SBA list.

NASA's record of letting contracts to small business has been very good. The latest statistical evidence of this shows that between April 1 and Sept. 30, 1959, small business received 66.6% by number of contracts and 25.5% by dollar amount.

Where contracts are placed with larger companies, steps are taken to be sure the contractor allows small business to participate as subcontractors.

The Rocketdyne Division of North American Aviation, which has the NASA contract to produce the *Nova* million-and-a-half-pound-thrust single-chamber engine, for example, has placed 79.4% of its total subcontract work by volume with small business firms over a representative period. Total dollars showed \$40 million going to small business subcontractors and less than \$28 million to large business subcontractors.

General aims of NASA's small business program are: (1) to compile a well-indexed file of small businesses; (2) to screen proposed NASA contracts to determine what portions could be performed by small businesses; (3) to invite small businesses to participate

as members of the audience when details of NASA-proposed contracts are explained to potential bidders; (4) to urge big business contractors to set up their own files of potential small business subcontractors; and (5) to urge small businesses to pool their resources so that they can jointly bid on larger NASA contracts.

• **Patents**—Though it is premature to interpret what NASA's new patent provisions will say, it is safe to predict that the space agency's patent law will read like the Department of Defense's, and will be executed accordingly.

Congress is presently in the process of revising NASA's patent laws.

Generally, the new law will give NASA a non-exclusive royalty-free license to use the patentable invention and the company will retain title. But this contract is revocable and waiver of title will be effected if NASA finds the company's use of their patent is to the exclusion of the national interest.

The only two areas where NASA may take more than a non-exclusive royalty-free license are where (1) the importance of the invention or process to the welfare of the country is such that title should be retained; and (2)

the invention or process has to do with atomic energy and AEC patent policies are involved.

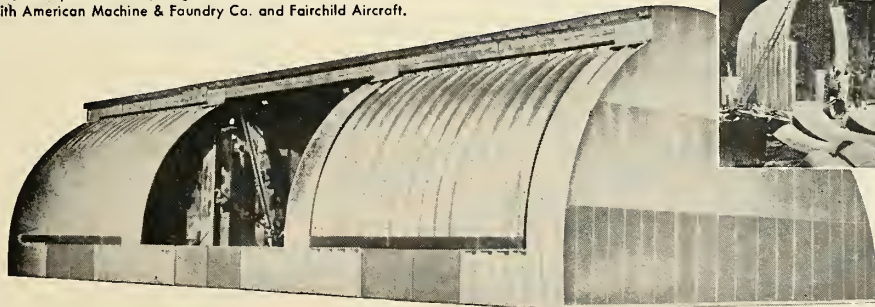
• **NASA centers**—In existence about a year and a half, NASA's table of organization has now been firmed. The space agency's centers, their projects, and procurement demands are:

• **The Langley Research Center** at Langley Field, Va. The oldest NACA facility, its areas of research are aerodynamic heating, hydrodynamics, and structure loads. More than \$96 million has been spent in a recent year on research and development, construction and supplies. This represented 770 transactions with big and small business, other government agencies, and educational institutions. Though basically a research center, it has some development programs under way. One development project is the four-stage solid-propellant *Scout* satellite launcher.

• **The Lewis Research Center** at Cleveland, O. Lewis's staff is developing the chemical, nuclear and electric rocket propulsion systems of the future. Over \$23 million has been appropriated in the last three years to expand its facilities.

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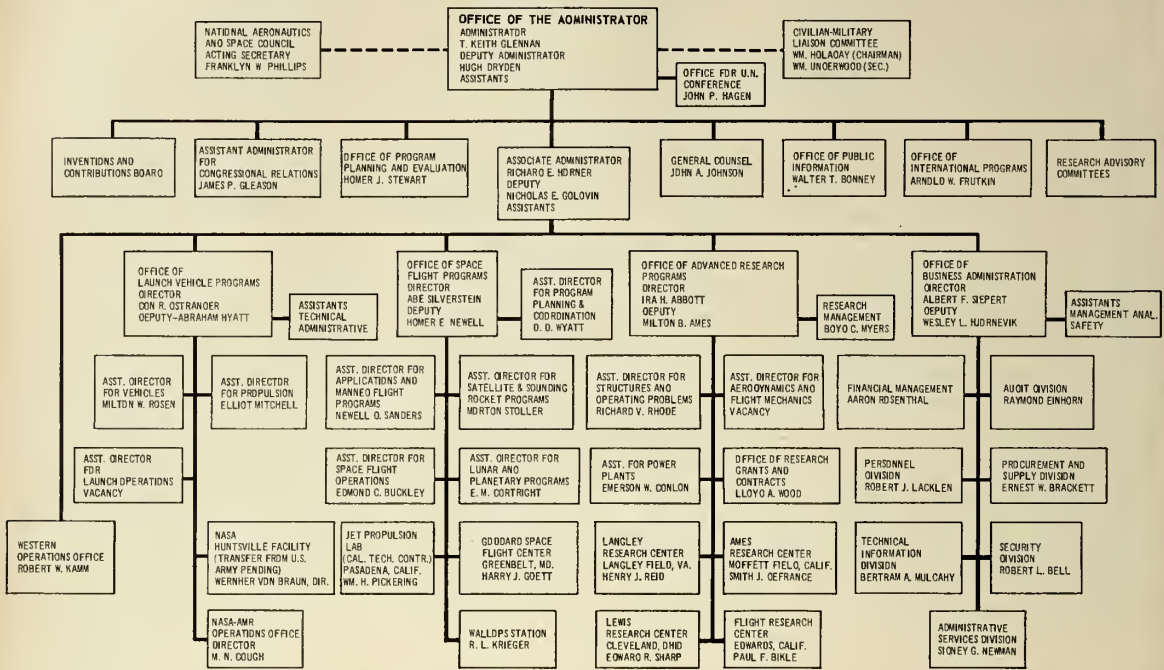
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wards AFB, Calif. Now engaged in propulsion and energy conversion, material sciences, structures and operating problems, and mechanics of flight. The station also is conducting the X-15 research. The 1960 operating budget calls for \$900,000 for research and development and \$1,775,000 for construction and equipment.

- **Ames Research Center** at Moffett Field, Calif. Micrometeoritic impact and aerodynamic heating of space materials are among the principal research efforts. Over \$10 million has been appropriated in the last three budgets to expand its facilities.

- **Jet Propulsion Laboratories** at Pasadena, Calif. This division of the California Institute of Technology operates on contract from NASA. All JPL contracts are written on a no-fee basis as cost-reimbursable, while JPL contracts with suppliers and vendors are negotiated with standard fee or profit provisions. Principal areas of research are propulsion, guidance and instrumentation. Recent contracts have included *Vega*, the payloads of many NASA scientific vehicles, and NASA's lunar impact vehicle program. \$4 million has been appropriated for construction and equipment in FY '61.

- **The George C. Marshall Space Flight Center** at Huntsville, Ala. The latest and most glittering jewel in NASA's crown, Marshall is the only

installation in the U.S. that can handle a launch vehicle program from conception through design, development and flight testing. Total spending during FY '61 is expected to exceed \$300 million. Present basic area of activity is Project *Saturn* and the *Juno II* satellite launch program. To be transferred to NASA supervision in the near future are NASA's role in *Agena B*, *Centaur*, and the F-1 single chamber million-and-a-half pound *Nova*.

- **Goddard Space Flight Research Center** at Beltsville, Md. Another new NASA installation, Goddard has primary responsibility for space flight and manned flight. One of the significant NASA procurement changes is the pending transfer from NASA Headquarters to Goddard of personnel and active contracts. Procurement for the \$350-million-plus Project *Mercury* will also be handled from Goddard, which is managed by the Space Task Group division of the Center. In the past three budgets \$27 million has been spent to build this center.

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EIA To Help Small Firms Get More Military Work

Electronic Industries Association's Small Business Committee has assumed responsibility for helping small electronic manufacturers obtain military business.

The decision was made—according to a report filed by the committee chairman, J. B. Elliott, president of Tele-Dynamics—after a survey which showed “that small business did not obtain enough government business and did not know how to obtain contracts.”

Other problems of small business disclosed by a committee-sponsored regional conference:

- The small businessman suffers from the lack of progress payments during development and prototype stages of a contract. He also is hampered by payments for tools and advance production costs prior to the delivery of production merchandise.

- He is handicapped by lack of knowledge of planned expansion by DOD.

- Legislation is needed to guarantee small business a larger percentage of the defense dollar, regardless of whether the contracts are with prime contractors or the government.

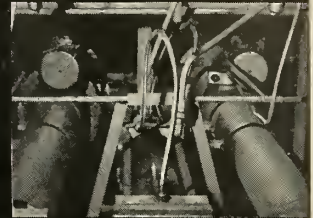
- Small businesses complain that primes and government agencies are obtaining know-how from individual smaller companies and, in some cases, using it for competitive bidding or even to manufacture equipment.

Proposed solutions center primarily around EIA providing ways and means of acquainting them with governmental procedures and available aids.

The committee recommended that regional small business representatives of the electronics industry be appointed on a non-pay basis. EIA could then correlate the major problems handicapping small electronic manufacturers and present them with recommendations to the Small Business Administration and the services.

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Industry Gets Nearly 1/2 of Missile \$ \$

EIA's new Fact Book predicts electronics' share of DOD budget will continue to climb; space projects grow in importance

Electronics accounted for almost half of total missile expenditures in fiscal 1959. In its just-published Electronics Industry 1960 Fact Book, Electronic Industries Association says that approximately \$1.6 billion of the \$3.5 billion spent for missile production went for electronics.

EIA credits the soaring increase in electronic missile dollars as a prime factor behind the remarkable growth of the electronic industry in recent years.

Total military purchases of electronic products during calendar year 1959 are "conservatively estimated" by EIA at \$4.7 billion—more than nine times the \$500 million outlay in 1950. And, despite a more-or-less static defense budget for the next few years,

EIA anticipates a growing share of dollars for electronics. The Fact Book points out that research, development, test, and evaluation is a growing portion of the DOD budget—\$2.86 billion in 1959 as against an estimated \$3.9 billion in 1961—and one in which electronics has a major and increasing part.

These and many other important facts relating to the growth and major role of electronics in defense are contained in the Fact Book. As a service to our readers, M/R has obtained permission to excerpt pertinent data from the book as an aid in establishing marketing guidelines and policies in this vital aspect of the missile/space industry.

• Growth started with WW II—

The electronics industry's research and development effort first began to take on a new dimension under the stimulation of World War II. Under this impetus, electronics has become today "the common denominator of weapons for defense."

During the War, the LORAN navigation system, the proximity fuze, new bombsight equipment and improvements in sonar detection and radar systems were evolved. Scientists learned to use electronics in trajectory studies for counting and calculating. Speedy, automatic control devices were developed for aircraft and guns. From 1941 to 1945, military purchases of electronics and communications totaled \$7.5 billion. At the peak of the war, more than 500,000 were employed in electronics production.

The 1950-53 period saw the manufacturing industry nearly doubled in size due to the electronic needs of the Korean War. Production for the military increased fivefold during these years to account for one-half of the \$5.2 billion industry volume, and approximately 40% of an estimated 575,000 employed in electronics during 1953.

The intervening years have seen a continuous growth of military electronics to last year's total of \$4.7 billion, an increase of seven percent over 1958.

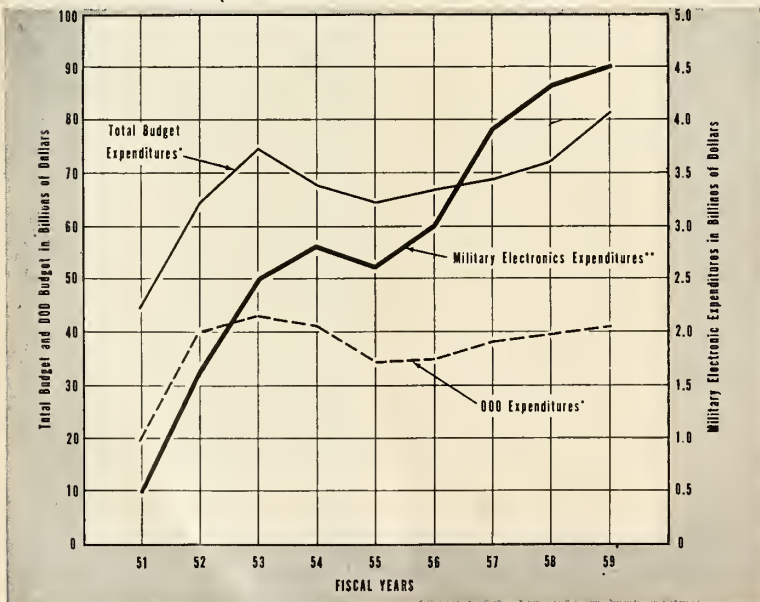
• **Space implications**—Especially important in the long-range future are Government space programs which are requiring increasing electronics content in the design and fabrication of space vehicle payloads; data acquisition, reduction and transmission; and guidance and control of booster rockets.

Of the \$385 million available to the National Aeronautics and Space Administration during fiscal 1959, an estimated \$70 million plus is being absorbed by the electronics industry. During the next decade, over \$14 billion will be authorized for space programs, of which approximately one-third will be available for electronics.

New and expanding markets will evolve from the application of Space

ESTIMATED MILITARY ELECTRONIC EXPENDITURES VS. TOTAL BUDGET EXPENDITURES AND DOD EXPENDITURES

(Fiscal Years 1951 - 1959)



* Read on left hand scale.

** Read on right hand scale.

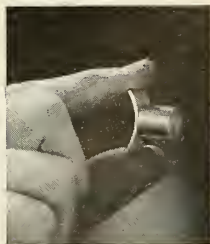
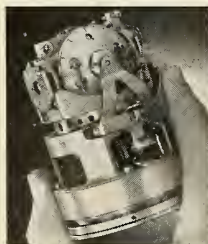
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Age technology to electronics production for commerce, industry, and the consumer. The impact will be felt more distinctly in commercial and public-service activities. For example, electronic devices placed in orbit will forecast the weather, aid ships in navigation, improve world-wide communications by serving as relay stations for signals, and permit long-range point-to-point communications at low levels, thus conserving the crowded radio frequency spectrum. Satellites containing electronics will patrol for icebergs, warn of forest fires, map the earth's surface and conduct geological surveys.

• **'Think-small' new concept**—The missile/space world technology race has been a strong force in advancing the trend to "think small." The urgent need has been, and certainly will continue to be, for smaller electronic systems requiring less power, performing more functions faster, and achieving higher and higher reliability.

The need—and the money supporting this need—provides much of the impetus for technical progress. But even more than this is the realization by industry in general that to stay ahead is to stay alive.

A secondary force in the think-small drive has been the computer industry which, in turn, has been attempting to satisfy the needs of the missile/space industry.

The same needs exist here, with the added problem of reducing vast cooling complexes—again an offshoot of component density and power usage.

Research programs in hundreds of firms are highly oriented by concepts of microminiaturization based upon functional circuits rather than by complex redesign of components and components assembly techniques.

Electronic equipments which have enjoyed significant size reductions through printed circuitry and transistorization are experiencing further diminution as a result of micro-module research and development.

Micro-modules are the result of an Army Signal Corps-sponsored fabrication technique in which tiny ceramic wafers containing semiconducting and insulating materials are combined to perform the electronic functions of basic components such as resistors, capacitors and transistors.

More than \$7 million has been spent in the micro-module research program by the Signal Corps since its inception in April 1957. Already used to some degree by the military, micro-modules will save critical space and weight in portable ground communications, helmet radios, guided missiles, satellites, and in many other applications.

Solid-state tunnel diodes are the subject of intensive development work by many manufacturers. Related to transistors in form and function, tunnel diodes are potentially useful as oscillators, amplifiers, or switching devices, and promise to speed operations on small power requirements.

The influence of cryogenics, or superconductive phenomenon of certain metals at low temperatures, is already being felt in missilery, long-range communications, steel-making, and biochemistry.

Other significant technological progress which will shape the industry in future years, is being made in such areas as magnetics, thermoelectrics, solid-state physics, and microwave technology. Inroads in magnetics research and development, for example, are opening entirely new fields of engineering as advanced techniques are being successfully applied in new computer memory systems, in electronic control projects, and in magnetic amplifiers for high-speed aircraft and missiles.

Thermoelectrics, involving the direct interconversion of heat and electricity, is being extensively explored, and applications are envisaged in electronic refrigeration and in power generation for missiles, space vehicles, and at remote ground locations. Masers, microwave amplifiers of advanced design—offer wide potential in the communications field, particularly in radar, guided missiles, and space communications. Already in the prototype operating stage, these devices are able to detect and amplify extremely weak microwave signals.

Further in the future are the revolutionizing prospects of thin-film and molecular electronics. Presently in the applied research stage, this field involves the deposition of films of conductors, semiconductors, and insulators, or the molecular rearrangement of materials in such a way that single blocks of material perform functions of complete circuits. As a result of this work, entirely different concepts are in prospect for the construction of missiles, space vehicles, and a variety of conventional equipment.

Industry concentrated in few states—An estimated 3500 electronics companies operating nearly 5000 plants throughout the nation are currently selling well over 2000 classes of equipment and components. Nearly three-fourths of the total dollar volume of electronic production is concentrated in seven states: New York, Illinois, California, New Jersey, Pennsylvania, Massachusetts, and Indiana. New York last year led all other states in the shipment of military electronic equip-

Total Budget, DOD Expenditures for Major Procurement and Production and Research and Development, and Estimated Military Electronic Product Procurement*

FISCAL YEARS 1951-1959 (Millions of Dollars)

	1951	1952	1953	1954	1955	1956	1957	1958	1959
Total Budget Expenditures	\$44,000	\$65,400	\$74,300	\$67,800	\$64,600	\$66,500	\$69,400	\$71,900	\$80,700
Total DOD Expenditures	\$19,772	\$38,972	\$43,711	\$40,336	\$35,532	\$35,791	\$38,439	\$39,062	\$41,250
Major Procurement and Production (MP&P)									
Missiles	\$ 21	\$ 169	\$ 295	\$ 504	\$ 718	\$ 1,168	\$ 2,095	\$ 2,737	\$ 3,494
Aircraft	2,412	4,888	7,917	8,335	8,037	7,146	7,978	8,448	7,658
Ships and Harbor Craft	382	624	1,191	1,090	1,009	895	897	1,156	1,537
Combat Vehicles	189	1,014	1,926	677	740	48	266	66	149
Support Vehicles	57	900	408	240	296	190	124	150	134
Electronics and Communications	193	597	1,001	826	636	770	881	877	912
Other**	722	3,286	4,885	4,287	1,560	1,965	1,408	1,243	976
Total	\$ 3,976	\$11,478	\$17,123	\$15,959	\$12,996	\$12,182	\$13,649	\$14,677	\$14,860
Research and Development (R&D)	\$ 758	\$ 1,164	\$ 1,412	\$ 1,385	\$ 1,391	\$ 1,491	\$ 1,686	\$ 1,742	\$ 2,277
Total MP&P and R&D	\$ 4,734	\$12,642	\$18,535	\$17,344	\$14,387	\$13,673	\$15,335	\$16,419	\$17,137
Military Electronic Product Procurement (EIA Estimates)	\$ 510	\$ 1,600	\$ 2,500	\$ 2,800	\$ 2,600	\$ 3,000	\$ 3,900	\$ 4,300	\$ 4,500

*With the exception of estimated "Military Electronic Product Procurement," data contained in this table are derived from official U.S. Government sources, including the Department of Defense and the Bureau of the Budget. Data covering military purchases of electronic products represent EIA estimates only, and are based upon the best information available from both Government and industry sources.

**Includes artillery, weapons, ammunitions, production equipment and facilities, and other procurement and production.

ment—over 31% of the total. California was second with over 16%, and Pennsylvania third with almost 7%. By cities, New York (including Newark, N.J.) was tops with over 15% of total shipments, followed closely by Los Angeles with 14%. Philadelphia was third, Boston fourth, and Baltimore fifth.

Approximately 760,000 are employed in electronic manufacturing, about one-seventh of whom are engi-

neers. Because the industry is so close to the frontiers of science, the demand for experienced engineers to fill specialized niches will remain strong. Computers, digital data processing, airborne instrumentation, guidance systems, semiconductors and microwave are among those fields requiring high degrees of engineering excellence. The demand for electronic technicians is particularly heavy in the area of computers and data processing.

• **Military over half of market—**
Today, the military market for electronic products absorbs about 51% of total U.S. electronic sales. In 1950, military purchases were less than 20% of total sales.

Since the turn of the century, when the Signal Corps opened the first radio channel off the coast of New York, the use of electronic devices by the military has grown almost continuously. Before World War II, Radio tele-

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Total Budget and DOD Expenditures for Procurement and Research, Development, Test and Evaluation*

FISCAL YEARS 1959-1961 (Millions of Dollars)

	1959 Actual	1960 Estimate	1961 Estimate
Total Budget	\$80,700	\$78,400	\$79,800
Total DOD (Excl. Mil. Assist.)	\$41,233	\$40,945	\$40,975
Procurement			
Missiles	\$ 3,339	\$ 3,900	\$ 3,479
Aircraft	7,658	6,670	6,027
Ships	1,493	1,651	1,644
Electronics & Communications	942	898	1,067
Other	979	1,223	1,384
Total	\$14,410	\$13,943	\$13,602
Research, Development, Test and Evaluation (RDT&E)	\$ 2,859	\$ 3,680	\$ 3,917
Total Procurement and RDT&E	\$17,269	\$17,623	\$17,519

*Data are adjusted to reflect comparability with fiscal year 1961 appropriation structure.

phones and radio telegraph were used by the Navy while short-range communications and radio aids were used in airborne navigation. The military, at this time, was purchasing electronic equipment at an annual rate of about \$100 million.

During the war, intensive research and development expanded the electronic art to encompass not only vast communications networks, but also special purpose walkie-talkies, fire-control equipment, improved radar, sonar detection devices and guidance systems. Production of electronics and

communications products for the military grew rapidly to an annual rate of about \$4.5 billion by mid-1945.

From the end of the war to 1950, military electronic production levels declined because of the national disarmament policy. When the Korean War began the electronics industry again quickly mobilized. Total expenditures by DOD expanded from nearly \$12 billion during fiscal 1950 to \$43.7 billion during fiscal 1953. Expenditures for electronics increased five-fold during this period to approach \$2.5 billion.

The rapid growth of fiscal spending for military electronic equipment since 1953 is primarily attributable to expanding missile programs (including detection and defense), the increasing electronics content of sophisticated aircraft, and increasing command and general communications activities. While total defense expenditures for major procurement and production (MP&P) and R&D have remained below the fiscal 1953 level of \$18.5 billion, missile expenditures have multiplied by more than 12 times during this period to total nearly \$3.5 billion.

Since fiscal 1955, military electronics has increased its share of MP&P (including R&D) expenditures, rising from 18% to 26% in fiscal 1959. As a percentage of total DOD spending, military electronics has risen from 7% to 11% during this period.

The 1961 defense budget reflects a trend toward increased spending for research, development, test, and evaluation of new and improved weapons systems and equipment. Although the \$13.6 billion budgeted for weapons systems procurement represents a decline of \$808 million since 1959, this is more than offset by funds for RDT&E which increased from \$2.6 to



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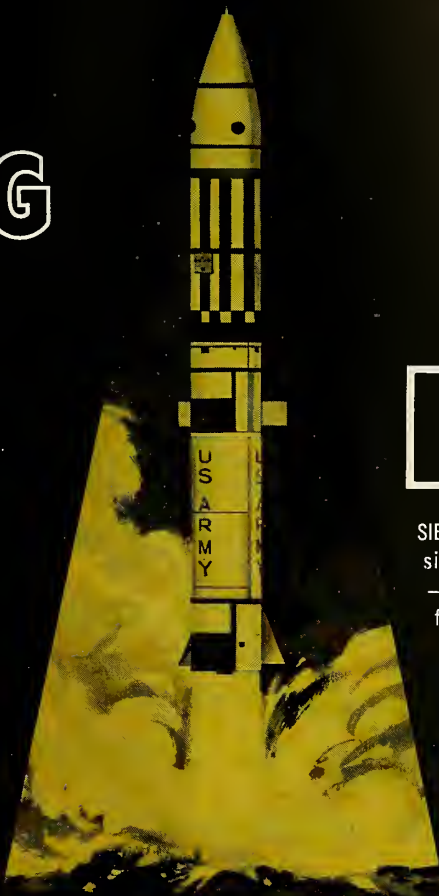


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\$3.9 billion (see table).

• **Missile electronics prime factor**—Increasing electronics missile dollars is a prime factor behind the remarkable growth of the electronic industry during recent years. In fiscal 1955, somewhat more than \$300 million of \$718 million in missile expenditures was absorbed by electronics. Of the \$3.5 billion spent for missile production in fiscal 1959, approximately \$1.6 billion went for electronics.

Electronic equipment is used in missile systems for guidance, control, and information recording and transmission. Compact electronic gear within a missile, for example, translates and amplifies signals from ground control stations to operate missile control surfaces and guide it on a predetermined path. Ground-based guidance systems from the remotely controlled *Minuteman*, *Atlas*, and *Titan*. Other supporting systems, including ground communications and testing equipment, fulfill vital functions in missile operations.

The 1961 budget reflects continued emphasis on missiles of all kinds in national defense. Funds for the procurement and production of the four main strategic deterrent missiles—the AF *Atlas*, *Titan*, and *Minuteman*, and

the Navy *Polaris*—will be further increased. Procurement of the *Hound Dog* and *Quail* for use by the B-52 strategic retaliatory force will continue. Funding for the *Nike-Hercules* air defense missiles will largely complete this program, while funding for the *Talos*, *Terrier*, *Tartar*, and *Typhon* fleet air defense missiles will continue as additional guided missile ships join the fleet. Funds will also be devoted for continuing the procurement of large number of air-to-air missiles such as *Sparrow*, *Falcon*, and *Sidewinder*.

A wide variety of other missiles for support of the ground forces is planned for procurement in 1961. The *Bullpup* air-to-surface missile will be purchased in greater numbers. The highly flexible *Pershing* will continue to receive heavy emphasis. The tactical close-support rockets, *Little John* and an improved *Honest John*, will receive additional funding to provide medium and short-range ground support. A substantial procurement of *Hawk* missiles, together with the first production quantity of *Redeye*—a man-carried air defense missile—will be made in 1961, to improve the defense of our ground forces in the field against low-level air attack.

Missiles and related equipment will receive a substantial portion of 1961 budget funds for R&D, test, and evaluation. Large sums are provided for the improvement of the range, accuracy, and reliability of the *Polaris* missile. Funds are provided for the full-scale testing of the *Nike-Zeus* antimissile missile and for further developmental work on other Army tactical missiles, including *Pershing*, *Sergeant*, and *Mauler*.

• **Other military electronics important**—Electronic systems for other defense purposes are expanding in

Origin of Shipments of Military Electronic Equipment, by State, 1959

(Percent of total value of shipments)

State	Equipment Shipments
New York	31.28
California	16.36
Pennsylvania	7.67
Massachusetts	4.81
Maryland	4.62
Illinois	3.51
New Jersey	3.47
Arizona	3.27
Ohio	2.14
Texas	1.99
Minnesota	1.86
Michigan	1.27
Florida	.81
Missouri	.78
Indiana	.55
Connecticut	.54
Wisconsin	.42
Other	14.65*
Total	100.00

* Contains one state with large military shipments which could not be shown separately without disclosing proprietary information.



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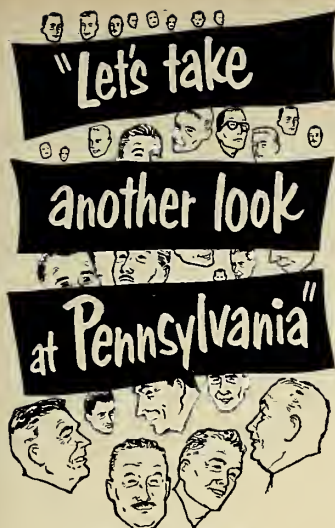
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volume as well as in complexity. Defense electronics involve radar, infrared detection, microwave radio links, field computers, and centralized information processing stations at command posts. Advanced radar systems are providing earlier and better detection of high-speed missiles and vehicles. Electronic countermeasure equipment has been developed for both defensive and offensive systems and has led to the emergence of new types of electronic components.

The "Electronics and Communications" category absorbed \$942 million (under the new budget structure) of the military electronic market during fiscal 1959. Expenditures within this area are expected to level off gradually during the immediate future.

Additional funds were allocated in the 1961 budget for procurement of

missiles and rockets, May 30, 1960



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large radars for two BMEWS stations, for the radar improvement program, and to extend the air weapons control system in overseas areas. Funds are also provided for the development of extensive command and control communications for air defense, SAC, and ground forces.

Electronic techniques make improved military operations possible in numerous other ways. In the field of combat surveillance, for example, radar, infrared, and television can be employed to survey battlefields and assist in the location of enemy targets. Infrared drones can map a battlefield area by detecting tanks, guns, trucks, and other heat sources. In the *Midas* project, infrared will be used to detect the launching of ICBM's.

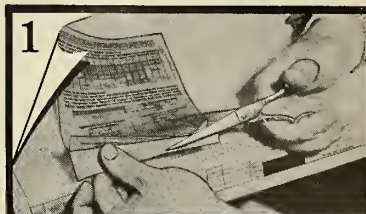
Complex electronic equipment will continue to fulfill vital requirements on ships and submarines. The 1961 shipbuilding program includes funds for the construction of three guided missile frigates, two guided missile destroyers, three nuclear-powered submarines, five *Polaris* fleet ballistic missile submarines, and eight other ships. In addition to the three *Polaris* submarines scheduled for 1961, funding is provided for the purchases of long lead-time components for seven more to be started after 1961. (With those already launched and those building, the potential FBM submarine fleet will total 21.)

An additional 14 destroyers are slated for major modernization in 1961, the second annual increment of the fleet modernization program designed to improve antisubmarine warfare capability. ASW research will be continued at a high level, including development of both fixed and mobile detection and improved tracking equipment.

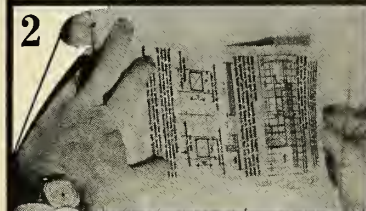
Electronic guidance and control equipment for space vehicles comprises a relatively new purchasing area. Sophisticated space programs such as satellite interceptors, strategic orbital systems, communications, surveillance, and navigation satellites will receive large budget allocations in future years. For the military space effort, the 1961 budget provides funds for early warning satellite systems (*Midas*), reconnaissance (*Samos*), communications (*Notus*), and navigation (*Transit*). Work will also continue on advanced guidance and communications techniques.

Ed. note—Copies of the 1961 Fact Book have been mailed to 350 member-companies of the EIA. Additional copies may be obtained from Association headquarters, 1721 DeSales St., NW, Washington 6, D.C., for 75 cents each.

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Space GSE Concepts Are Unique

Because of the peculiar demand for simplicity in the face of growing payload complexity, manufacturers must start design early

Manufacturers of ground support equipment for space vehicles must keep in mind two major considerations to successfully compete in this field:

1) GSE for space involves an entirely different design concept than that for conventional missile weapons systems.

2) Basic work must be started now in order to take advantage of coming opportunities in this field.

Space GSE differs in several ways from weapons system support. In the first place—and probably the strongest factor influencing design—is that space-probe vehicles are each unique. They are individually tailored to specific test objectives; and these objectives and the methods of meeting them may change radically from one vehicle to the next.

Since a space launch is always unique, GSE, in general, must also be unique. Changing the target of a space probe means changing the missile staging and, usually, the payload, requiring a recasting of the entire launch. The goals of the space probe are separately defined in each case with consequent great effect on the ground support equipment.

Secondly, an optimum balance between system simplicity and testing completeness must be reached early in the vehicle design.

• **Simplicity is basic**—Based on their experience with the NASA/AFBMD Project *Able* space probes, Space Technology Laboratories engineers came to the conclusion that simplicity is of prime importance. Checkout equipment used in this program is generally manually operated, since automated checkout would give no great advantage either in test time economy or the use of less qualified test personnel.

Further, automatically programmed go/no-go data would be considerably less useful for evaluation because of the developmental nature of each system. Still further, the uniqueness of each space probe vehicle system makes the go/no-go approach in most cases impractical, since a flexible, judgmental approach to checkout operation and

countdown is required if the GSE is not to become an overwhelmingly large project in itself for each space launch.

Equipment must be designed to sense the vehicle state of readiness in a great number of ways so that diagnosis of the potential success of the launch can be made by intelligent evaluation of all the information available. This means, in short, that space probe checkout equipment must be operated by engineers.

For the one-of-a-kind space probe launches, STL found it more expedient and reliable and economical to use highly trained personnel than to spend time and money for the design of sophisticated equipment. The ground support of a weapon system accounts for approximately 60% of a program budget; in the *Able* space projects the support program runs less than 10% of the total program budget.

The fact that the space probe launch is dealing with a multistage vehicle imposes three special problems in the support operations:

1) Electrical interface connections between stages must be checked to assure proper separation.

2) Staging transition section alignment must be checked during pre-launch assembly with specially designed support equipment of high accuracy.

3) The multistage vehicle must be considered as an overall system, and checkout procedures integrated and prepared with the system concept in mind.

A further consideration is that critical launch date and time place additional burdens on support equipment reliability. Often trajectory considerations make it necessary to restrict the time of launch to a period of a few minutes on a specific day. Such constraints demand highly reliable ground equipment.

Finally, one of the outstanding characteristics of a space probe support equipment program is the short design and development time allotted for each configuration. Elapsed time from contract go-ahead until launch has varied

from three to six months in the Project *Able* programs.

• **Future requirements**—According to STL scientists, future space payloads will grow more complex and incorporate completely new subsystems such as inertial control devices and command attitude control systems. Increased efficiencies will be made possible by, for example, oriented solar cell arrays and directional antennas.

In every case, however, the gain in operating efficiencies will need to be weighed against the increase in complexity required in the support equipment. Although booster rockets and supplementary stages of higher performance are expected in the next few years, payload weight will be a severe restriction for some time. A minimum weight/maximum performance propulsion system in the final stage will therefore continue to have high priority.

Upper-stage cryogenic systems, fluorine systems, and the like will severely complicate the propellant loading on the ground, and the support problem for nuclear auxiliary power systems in the final stage will be considerable. On the basis of experience to date, however, it is reasonably certain that a continuation of the philosophy of simplicity, flexibility, reliability, and the quantitative nature of the ground support equipment for the space probes program will be continued.

Studies by Jet Propulsion Laboratory for NASA and the Army Ordnance Corps agree with the basic conclusions of the STL experience—especially as regards the differences between GSE for space exploration and that for weapons systems.

Other conclusions reached by the JPL studies:

• Problems related to rendezvous and orbital refueling are among the most critical in the coming period.

• The period immediately before us is one of intensive research and development and low production in the spacecraft GSE area.

• After 1967, lunar and planetary surface exploration equipment could develop into one of great interest and

reasonable production. Development of this equipment is a difficult task requiring long lead time and adequate funding.

Because of reliability, time, and cost of development, great efforts must be made to standardize all equipment sent into space. Decisions in favor of standardization must, however, be carefully measured to determine if real performance capability is being lost unnecessarily.

Engineering management must recognize these facts and considerations if it is to successfully produce the ground support equipment for space exploration.

products & processes

Tip-Sensitive Switch

Control Products, Inc. has developed a precision thermal switch which responds to tip temperature rather than shell temperature. Designated the "Tip-Stat," the new switch is most effectively used where inner temperature must be controlled.

Designed to operate within a temperature range of -20°F to 550°F , the switch employs a spring-loaded inner cartridge which is hermetically sealed. The switch, itself, is slow make and break based on a thermal bi-metal principle. The reaction time is less than 0.5 seconds and temperature differential is from 1 to 2 degrees. Repeatability of operation is $\pm 1^{\circ}\text{F}$.

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Temp. Shock Chamber

A temperature shock chamber has been developed by Tenney Engineering for very rapid, automatic cycling of electronic components and small assemblies undergoing environmental tests.

Self-containing, the unit requires no manual handling and has no drawers to move; there is no removing of test objects until the testing is completed.

Switching from hot to cold, in a temperature range of -85° to $+425^{\circ}\text{F}$, takes only 10 seconds, and recovery time to the set point takes only 20 minutes. The entire operation is controlled with an automatic programmer.

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Direct View Storage Tube

The smallest direct view storage tube with electrostatic deflection is being made by Allen B. DuMont Laboratories, Inc. Termed type K1938, the new Storatron is a $2\frac{3}{4}$ -in. diameter tube with overall maximum length of 9 $11/16$ -inches from the face to extremity of the 14-pin low-leakage type, conventional base. Applications for the small electrostatic Storatron are in narrow bandwidth video transmissions at

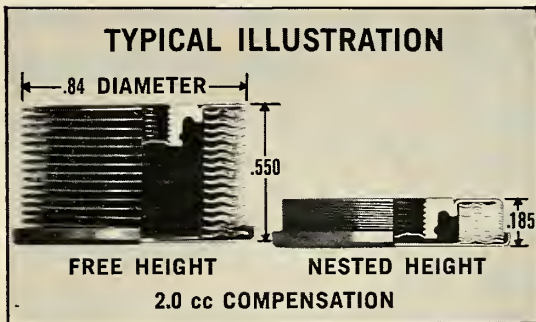
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A cold-cathode type discharge gage for the accurate and uniform measurement of high vacuum has been introduced by F. J. Stokes Corp. It has a wide range—from 10^{-1} to 10^{-8} mm. Hg.

A constant magnetic field confines the residual gases to insure proper measurement. A special ring anode design produces a more concentrated ion-discharge beam, which assures a cleaner

tube and more accurate readings over a longer period of time.

Another feature of the gage is that both cathode and anode can be quickly and easily replaced when they become contaminated.

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Five-Ounce Shutoff Valve

Weighing only 5 oz., a lightweight manual shutoff valve from James, Pond & Clark, Inc. can handle pressures to 10,000 psi. Made of 303 stainless steel, the new valve is intended for use on test stands and similar equipment to control high-pressure systems containing air, hydrogen, nitrogen, oxygen, hydraulic fluid, etc.

Buna N "O" Rings in the valve backed up with Teflon provide a dead tight seal in the closed position and complete freedom from body leakage. System pressure protects the "O" Rings from damage when crossing a port. Each valve is pressure-tested at 20,000 psi and burst pressure is over 30,000 psi.

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Subminiature Servovalves

A miniaturized, high-performance electrohydraulic servovalve weighing only 5.12 oz. is being manufactured by MOOG Servocontrols, Inc. This valve features the nozzle-flapper hydraulic amplifier and mechanical feedback arrangement utilized by the firm's Series 31 servovalves. Its principles of operation are identical to the Series 31 servovalve.

The Series 30 servovalve uses a small second stage spool and bushing contained in a lightweight aluminum body. Its maximum flow capacity is 3 gpm at 3000 psi which is adequate for most low flow control systems.

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Filament-Wound Rings

Filament-wound fibre-glass rings, designed to provide internal support to fibre-glass tubes subjected to external pressure of 500 psi, have been developed by Apex Reinforced Plastics of Cleveland.

The rings, $\frac{3}{4}$ " x $\frac{3}{4}$ " x 20" OD, are wound from continuous filaments of fibre-glass by passing the glass through a thermosetting resin onto a split mold for support and cure. Rings contain 75% glass by weight. In this application, they provide 150,000 psi tensile strength.

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Space Simulation Chamber

Extreme range of temperature variations, from -100°F to $+1000^{\circ}\text{F}$, is now available in an environmental test chamber manufactured by the American Research Corp.

Designed to simulate conditions which might be encountered by outer space vehicles, the chamber produces both high and low temperatures by radiation from all six sides, as well as by convection, thus reproducing true, high altitude conditions completely around the test specimen.

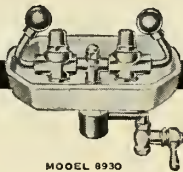
In addition, at any temperature and at any altitude up to 150,000 ft., the gradient throughout the chamber can be held as closely as $\pm 5^{\circ}\text{F}$.

The chamber has a free test space of 4 in. x 4 in. x 4 in. and is equipped with mechanical refrigeration capable of dissipating a heat load at the rate of 7500 watts at -70°F .

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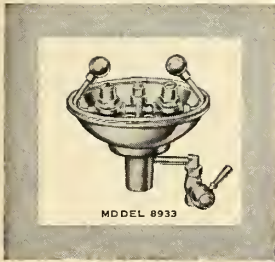
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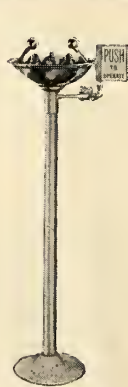
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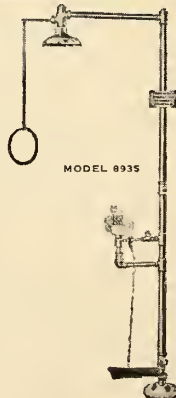
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missiles and rockets, May 30, 1960

Research Focuses on Re-entry Problems

by John F. Judge

One of the major problems up for solution in the materials picture is how to bring back the larger and larger vehicles the U.S. will soon be tossing into space.

Firms such as General Electric, Avco, CTL Division of Studebaker Packard, Corning Glass and many others are hard at work in the many aspects of the concept of re-entry—which in some respects is another way of saying materials.

The controversies raging over the relative merits of re-entry vehicles actually involve specific tradeoff factors within each vehicle—a minute part of the whole of re-entry.

• Definitions—Re-entry is a generic term for a broad function, or mission, that may be accomplished by any number of vehicles, according to William S. Pellini, Metallurgical Department, Naval Research Laboratory.

Re-entry, says Dr. L. Steg, manager, Aeronautics Laboratory, G. E.'s MS-VD, is simply that flight phase where atmospheric effects become significant. This phase may last for several hours or less than a minute. The time difference is a function of the particular vehicle and its re-entry path.

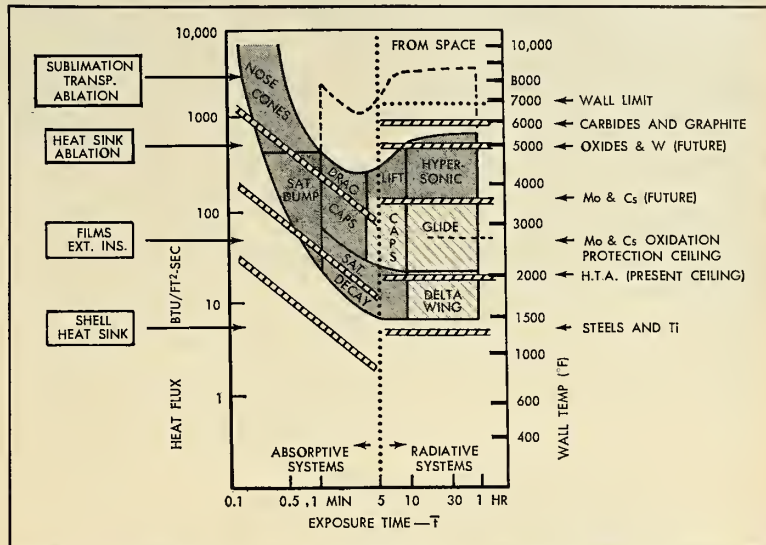
Pellini, in a paper delivered to the Tri-Chapter meeting of the American Society for Metals last month, divided all such vehicles into two general classes—lift and drag. According to the metallurgist, the materials of construction are determined by the environment each must withstand. The principal characteristic of this environment is heat—its generation and transfer.

• Earth's envelope—The cause of all this consternation is a thin shell of gas enveloping the planet earth. In depth this shell is to the earth as the skin is to the apple. The greater part of this gas (99%) lies within 100,000 ft. of the ground. Aerodynamicists consider the significant limit to be somewhere between 300,000 and 350,000 ft. The mean free path of a molecule is less than 0.1 ft. at these altitudes and continuum flow conditions exist. From 350,000 to 400,000 ft. the mean free path of a molecule lies between 0.1 and 100 ft. and this is termed slip flow. Above 400,000 ft. free molecule flow exists (M.F.P. greater than 100 ft.)

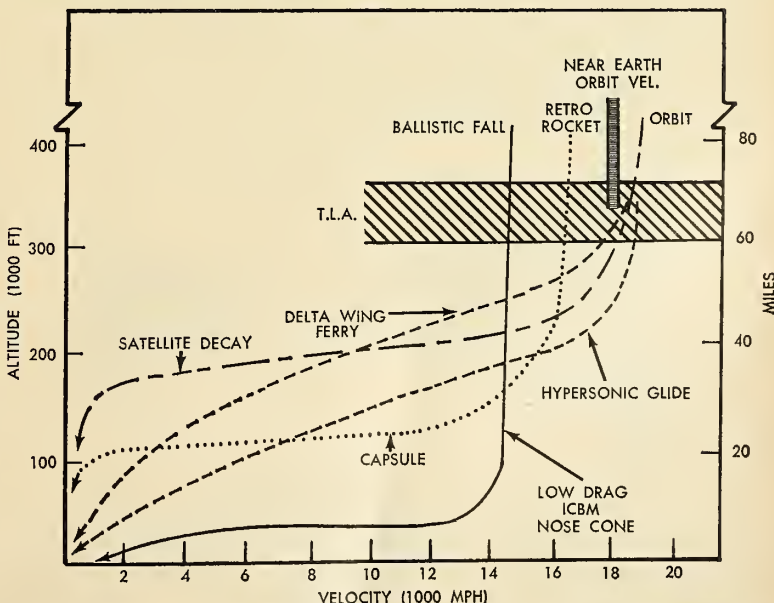
According to Pellini, re-entry braking effects occur only during continuum conditions.

Re-entry velocities range from 6000 mph for a 400-mi. vertical drop,

through 17,000 mph for a 400-mile-high orbiting satellite to 25,000 mph for spaceships. Ballistic nose cones fall in the area between vertical launch re-entry and tangential re-entry of satel-



OVERALL CORRELATION of environmental conditions, re-entry vehicles, and thermostructural materials in the concept of re-entry.



CHARACTERISTICS OF the various flight paths of re-entry vehicles. Flight path and vehicle form details determine actual aerodynamic heating.

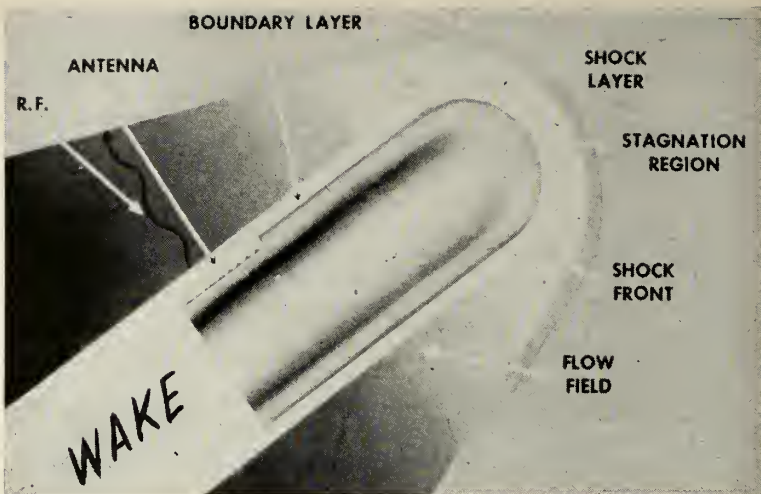
lites, says Pellini. They range from 10,000 mph (IRBM) to 15,500 mph (ICBM). In all cases, says Pellini, the kinetic energy fraction is the critical index of the re-entry problem of energy conversion and heat generation.

Steg says that the kinetic energy of a satellite falling from a 200-mile orbit is approximately 13,000 Btu/lb., and a vehicle arriving from an interplanetary orbit has about twice this energy. In comparison it takes 1000 Btu/lb. to vaporize water and 25,000 Btu/lb. to completely vaporize carbon.

But only about 0.5% of a vehicle's kinetic energy is absorbed by the body. The rest is handled by the air in the shock envelope surrounding the vehicle.

At a re-entry angle of 3°, there is a total heat input at the stagnation point of about 9000 Btu/ft.²/sec. and a heating rate of 100 Btu/ft.²/sec. Although this is but a small fraction of the total energy of the vehicle it is still formidable if one considers that a steam powerplant operates around 10 Btu/ft.²/sec. and an atomic reactor at 400 Btu/ft.²/sec. So even with the help of the buffering shock wave (which does create other problems) there is a severe temperature problem.

Pellini says that the overall aero-



SHOCK EFFECT produced by a body traveling through the atmosphere at supersonic speeds. Much of the heat never reaches the surface of the vehicle.

dynamic features of re-entry bodies determine the flight path relationships between altitude and velocity. But the heating conditions are determined by the shape of the leading edges and noses.

• **Shock effect**—A body traveling at supersonic speeds through the atmo-

sphere carries with it a volume of air contained within a shock envelope. The molecules of gas tend to pile up against the surface of the bow creating a subsonic condition. This shock process entails a reduction of the relative velocity of the molecules from supersonic to subsonic flow and a high adiabatic compression—resulting in high air temperatures. These areas covered by the subsonic flow regions are referred to as stagnation points.

Pellini notes that ordinarily, heating conditions for a body are referenced to these stagnation points (which are much higher in temperature than the nearest point on the body) and “1 foot back” positions for the case of long bodies such as glide vehicles. The reason for this is that the leading edge is usually not a load-carrying member and is in a low stress area, while the “1 foot back” position is the area where considerations of stress become important.

By separating the wide variety of re-entry vehicles into classes, Pellini says it is possible to establish a thermal environment spectrum for the analysis of materials problems.

Pellini further categorizes lift and drag type vehicles as to the length of time exposed to the heating effect. Results of the analysis are:

- **Nose cones**—Develop heat fluxes from 500 to 5000 Btu/ft.²/sec. and higher for exposure times less than a minute.
- **Satellite dump techniques**—High entry angle, similar to nose cones but heating conditions are a little less severe in magnitude although the time is about the same.
- **Manned drag capsules**—(Also small satellite decay vehicles with small payloads) Exposure is higher, being of

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the order of several minutes, but because of differences in the altitudes of deceleration, heat flux values range from 10 to 20 Btu/ft.²/sec. for satellite decay and 50 to 400 Btu/ft.²/sec. for manned drag capsules.

- Lift capsules—Exposure times reach 5 to 10 minutes with an accentuation of nose and leading edge heating conditions over the larger nose stagnation point region of drag capsules.

- Hypersonic glide vehicles—Exposure times reach 1 hour and positions back may develop temperatures in the range of 2000 to 3500°F.

Pellini says that the amount of heat energy developed during re-entry is independent of the vehicles design and flight path. But the amount transferred to the body is closely related to these factors.

Drag vehicles absorb the least amount of heat although the temperatures generated in the gas envelope are extremely high. Lift vehicles have much lower envelop temperatures but absorb more heat because the input time is long.

- Materials concept—Pellini divides thermal protection systems into two sections—absorptive systems involving gaseous mass transfer or heat sink, and radiative systems; which dissipate most of the convective heat input by radiation from the surface.

Absorptive systems are designed to dissipate heat without causing a high temperature rise in the structure, and are usually limited to short time usages because of weight considerations, according to Pellini.

Included in the absorptive systems are ablation methods, heavy wall heat sinks, sublimation systems and transpiration systems. Transpiration means cooling by the flow of gases or liquids through pores in the aerodynamic wall.

Steg points out that heat sink is not competitive with mass transfer cooling systems on a weight basis. The MSVD scientist says that ablation with vaporization cooling. "... represents a most attractive solution to the heating problem."

Radiation systems, according to Steg, becomes more and more interesting as the re-entry time lengthens. A thin radiating shield supported by insulation around the re-entry body is critically dependent upon the maximum heating rate encountered. A poorly guided re-entry, creating excessively high temperatures, would end in disaster.

Steg says that the optimum design here would probably include a material good for radiation but also with ablative properties. He mentions graphite in this connection.

Over a year ago, Pellini together with Dr. William Harris of the Ma-

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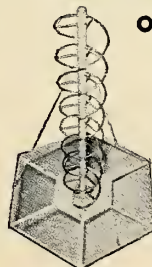
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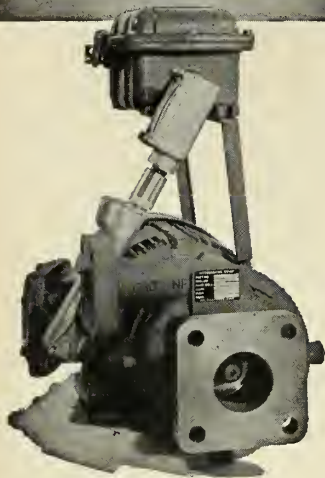
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terials Advisory Board of the National Academy of Sciences, told a group of scientists that specific problems of applications of re-entry materials cannot be placed in context with the general problem because of communication difficulties between the materials and design fields.

A summarization of all of the materials applicable to re-entry problems would be meaningless, says Pellini, simply because it presents an impossibly broad front for attack and does not provide for assessment of the relative importance and degree of urgency of the many requirements.

Pellini says that the publicity given to crash programs for the developing of specific vehicles often results in an over concentration on a narrow front. "This situation will not be rectified until the materials field develops the necessary knowledge and sophistication that will provide for independent assessment of the materials requirements for the accomplishing of functions." concludes Pellini.

Steel Speed-up

Ford Process May Cut Output Time in Half

A ton of steel in half the time is the potential of a new twist in open hearth production at Ford Motor Co.

Still in the experimental stage, the process will apply only to the open hearth furnace and will not affect the cost of scrap steel or hot iron. The cost of rolling and shaping steel will also remain unchanged.

Basically the Ford process revises the conventional open hearth method by using a combination of fuel and oxygen—and burned lime instead of limestone.

Oxygen lances have been used for some time throughout the steel industry to hasten the open hearth process. This method usually resulted in increasing output for a 200 ton furnace from 20 to 30 tons per hour.

Ford used oxygen-fuel lances for several years. Even with the extra heat thus generated, the process is retarded by adding molten iron too quickly. By adding burned lime in place of the usual limestone, the firm has averaged 60 tons of high-quality steel per hour from a 200 ton furnace.

In 400-ton open hearth furnaces the yield has been around 100 tons per hour as compared to 40 tons using conventional oxygen processes.

Company spokesmen say that even if future experiments confirm the promise of the new process, Ford will continue to purchase the greater portion of its steel requirements from outside suppliers.

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Teflon 'Spot Bonding'

A "spot bonding" technique has been developed by Plastic Associates, for attaching Teflon to itself or other materials. The method sharply reduces the weight of adhesive required and therefore preserves Teflon's important low-loss characteristics.

A major use of Teflon in electronic packaging design is as a dielectric in high-frequency circuits. The plastic has the highest "Q" of any known material, which means that little if any RF energy is absorbed in the plastic. However, when adhesives are used to assemble the Teflon-containing parts, the adhesive layer acts as a low-Q, energy-absorbing barrier.

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Permanent Magnet Alloy

A copper-nickel-iron permanent magnet alloy possessing high coercive force and energy product values has been developed by Hoskins Mfg. Co.

The alloy can be readily stamped, machined or otherwise formed by conventional methods into a wide variety of complex, intricately shaped parts which require no costly finishing operations.

Now being produced for volume commercial use, Hoskins *Cunife* is available as finished magnets formed or fabricated to meet specific design and application requirements. It is also offered as wire and strip in an extended range of sizes, shapes and widths to manufacturers equipped and qualified to fabricate their own parts without affecting the alloy's basic magnetic and physical properties.

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Miniature Torque Wrench

Designed for the small screws used on miniature or precision assemblies, tiny torque wrenches are being marketed by Techni-Tool Products, Inc.

The tool is particularly suited for jobs where torque setting is of extreme importance, such as in delicate assemblies for instrumentation, electronics, missile and aircraft control systems.

For use with socket head cap screws from 0 to 1/4 in., the wrench is adjustable or can be pre-set for specific torque requirements. All units are easily interchangeable and can be quickly secured in the head.

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Small Impeller Pump

Hydrodyne Corp. has in production a small centrifugal impeller pump for heavy duty work in areas requiring subminiature equipment. Designed originally for Naval Ordnance, this unit delivers up to 8 gpm at 150 psi. It is designed to handle salt water and certain other corrosive fluids.

Normal temperature limits are -60°F to +350°F. Duty limit is 10 minutes. It is sealed at the shaft with the Skinner Rotary Face Seal, a product manufactured by Hydrodyne's Skinner Seal Division, which withstands pressures to 600 psi. Principal materials used in this pump include aluminum housing and bronze impeller. Power source is direct current electrical pump.

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Close Tolerance Mg Sheet

Magnesium sheet in special thickness tolerances for aircraft and missile use is being marketed by The Dow Metal Products Company, division of The Dow Chemical Company.

The closer tolerances are available in the standard thicknesses in AZ31B, HK31A and HM21A alloys in sheets up to 48 in. wide. They are one-half of standard tolerances for most thicknesses. In the 0.050, 0.063, 0.071, 0.080 and 0.090 in. thicknesses, for example, the close tolerance is ± 0.002 in., compared to a standard tolerance of ± 0.004 in.

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Modular Valve Mechanism

Several valve varieties of modular valve components are now available upon special order from James, Pond & Clark, Inc.

In effect, a modular valve component becomes a part of the assembly in which it is installed, and eliminates or reduces exterior pipe or tubing connections. Thus, it may be mounted in a pump housing, in a cored manifold or combined with other modular components in a neat and space-saving "litter black box" control package.

In most modular designs, the valve mechanism itself is retained in the modular body and sealed by an O-ring. This makes it possible to replace the basic valve mechanism without discarding the entire package. The modular components are available in check, bypass relief, shuttle and other valve types for operating pressures upward to 10,000 psi.

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Rocket Fuel Development Accelerates

Saturn, storables, hydrogen stages dominate scene; big solid, Nova, nuclear rocket stir interest

by Jay Holmes

Rocket propulsion is entering an explosively rapid period of development. The activity is concentrated in three areas—with projects of the highest national priority in each area.

In the race for space, the development on the huge Project *Saturn* booster rocket overshadows everything else, both in sheer size and in dramatic impact.

In weapons, the shift to storable, instantly reacting systems goes on

apace. More and more weapons are moving from liquid to solid propulsion. Those that remain liquid are switching from cryogenic to storable propellants.

In upper stages, the development for higher energy propellants is becoming ever more intense.

The high level of activity means a high level of business over the next few years, for the major propulsion contractors and for the companies large and small that supply them as sub and sub-sub contractors.

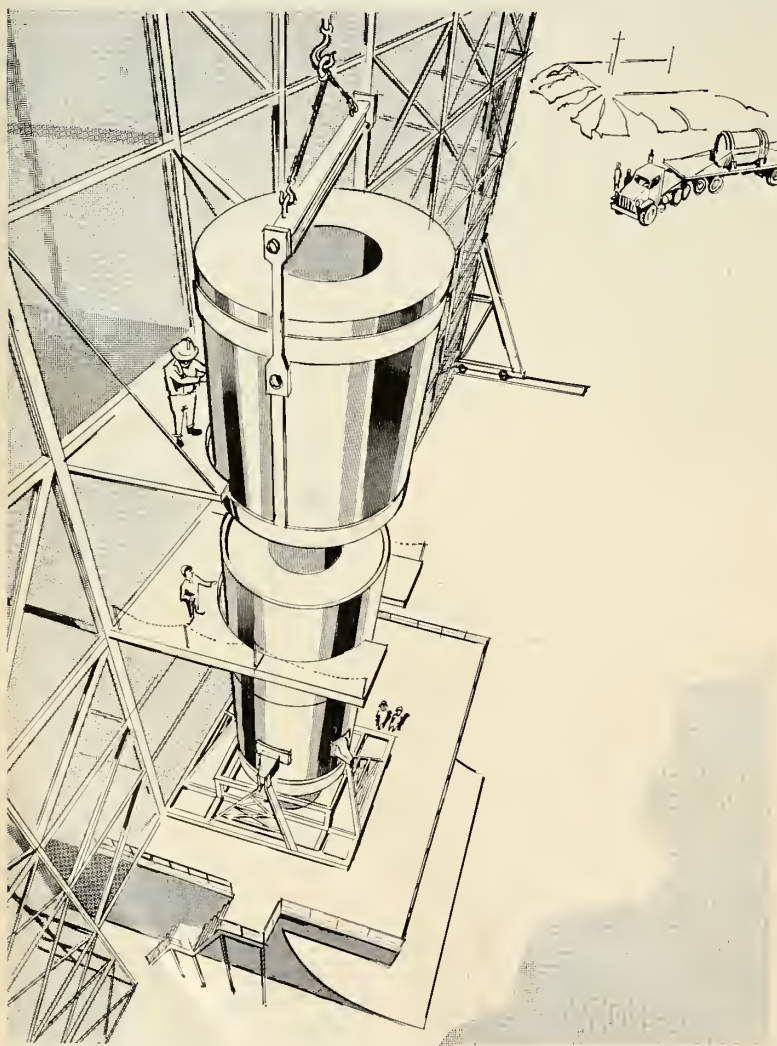
Saturn, a cluster of eight Rocketdyne engines of the type used in the *Redstone*, *Jupiter*, *Thor* and *Atlas* missiles, will generate 1.5 million lbs. thrust for about 100 seconds—a total of 152 million pound-seconds of impulse. The propellants are a conventional combination of LOX and kerosene.

The project was granted a "DX" priority—the nation's highest—last winter after President Eisenhower decided to transfer control from the Army to the National Aeronautics and Space Administration. The first test of the eight-engine cluster—burning about eight seconds at 1.3 million lbs. thrust—was held April 29 at Redstone Arsenal, Ala.

• **Test next year**—The first flight test of the booster is scheduled for next spring at Cape Canaveral. The first flight is programed for a thrust level of 1.32 million lbs., burning for 115 seconds.

In its three-stage configuration—designated C-1—the *Saturn* vehicle will be able to put 28,000 to 30,000 lbs. of payload into a 300-mile orbit. The second stage will be a cluster of four LR-115 hydrogen-oxygen engines, which are now in late stages of development by Pratt & Whitney Division of United Aircraft. NASA awarded the stage development contract to Douglas Aircraft earlier this month.

The third stage will be a slightly modified *Centaur* vehicle, consisting of two LR-115 engines, under development by Convair Division of General Dynamics. Early versions of the LR-115 generate 15,000 lbs. thrust, thus the *Centaur* thrust is 30,000 lbs. However, the Douglas stage, designated S-4, will be able to take advantage of improvements in the engine that will



SEGMENTED SOLID booster may break solid-propellant size barrier. Diagram above is Grand Central Rocket Co. artist's conception.

make possible a 20,000-lb. thrust level. Thus the cluster will generate 80,000 lbs. of thrust.

Since an 80K second stage does not take full advantage of the potential of the big *Saturn* booster, NASA has decided to build a bigger hydrogen-burning stage. Later versions of the *Saturn* vehicle will have a second stage consisting of a cluster of four 200,000-lb.-thrust engines generating 800,000 lbs. thrust—more than 13 times the power of the largest upper stage in existence today.

The later configuration—designated C-2—will use the Douglas S-4 vehicle as its third stage. The fourth stage will be the modified *Centaur*. The first three stages of the C-2 configuration are capable of putting 45,000 lbs. of payload in a 300-mile orbit. With higher stages, it will be able to put 9000 lbs. in a 24-hour orbit or soft-land 5000 lbs. on the moon.

The reason for use of hydrogen upper stages is the big jump in specific impulse. At a chamber pressure of 1000 psia and a 14.7 psi nozzle exit pressure, the I_{sp} for LOX-hydrogen is 391 seconds. This compares with an even 300 seconds for the conventional LOX-kerosene.

By shifting the top stage of a rocket from LOX-kerosene to LOX-hydrogen, a 50% increase of payload is attained. This new payload is raised by 50% as the next stage lower is shifted to hydrogen. The process continues through the vehicle.

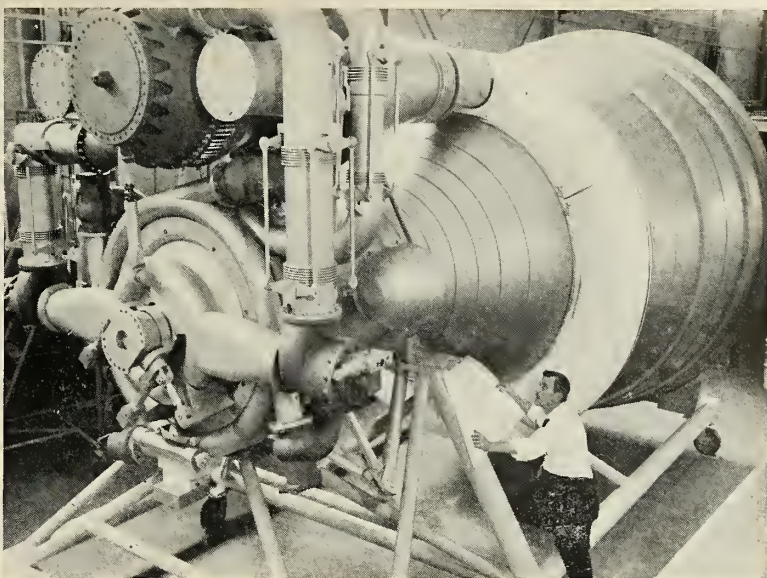
At present, the *Saturn* configuration has been shifted to hydrogen completely except for the booster. Shifting the booster was considered briefly last December, but it was recognized that such action would delay the program for several years. If the 200K engine develops rapidly, it seems certain that the proposal will be revived.

• **Launching scheduled**—There will be one *Saturn* launching in Fiscal Year 1961, four in FY 1962 and six in FY 1963 if the current NASA schedule is met.

Another program related to *Saturn* is the Project *Rover* nuclear rocket, under development jointly by NASA and the Atomic Energy Commission. The first test of *Kiwi-A*, a non-flying prototype of a *Rover* rocket, was a success last summer. Two further tests are scheduled for the coming summer.

Rover generates thrust by the heating of gaseous hydrogen as it passes through the bowels of a nuclear reactor. Based on the consumption of liquid hydrogen, specific impulse performance in the 700-800 second range is expected in early versions.

The schedule calls for completion of ground testing of the *Rover* rocket by 1963 and first flight tests in 1965.



GIANT LIQUID rocket under development at Rocketdyne will provide 1½ million lbs. thrust in single cell for NASA's *Nova* vehicle.

There is a technical dispute about the nature of the first flight test. AEC officials favor a ground launch for demonstration purposes. NASA officials prefer that the first test be firing of the rocket after it is launched in a stable orbit. A third possibility might be the firing of a nuclear rocket as an upper stage of *Saturn*.

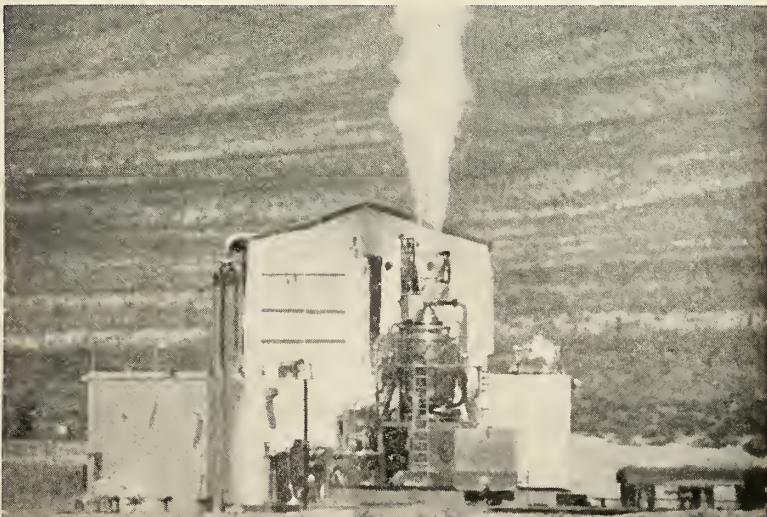
NASA plans to contract with an industry group for a thorough study of methods of test and other technical problems about *Rover*.

The first application of the rocket probably will be as an upper stage for a late version of *Saturn*. Wernher von Braun has said that with a nuclear

upper stage, *Saturn* could inject payloads of 72,000 lbs. in a 300-mile orbit, 32,000 lbs. in a 24-hour orbit and 14,800 lbs. to a soft landing on the moon.

Von Braun did not describe the characteristics of such a vehicle; however, the first flight *Rover* under AEC plans would weigh 40,000 lbs. and would generate a thrust of 52,000 lbs. at liftoff. AEC officials have not disclosed the length of the powered flight but it can be assumed that it would last six or seven minutes.

Such a vehicle could lift itself about 1000 miles straight up from the ground, according to AEC calcula-



FIRST NUCLEAR rocket spouts hydrogen in test of AEC's *Kiwi-A* at Nevada test site last summer. Two more tests are scheduled this summer.

tions, and burn up on re-entry into the atmosphere. On an orbital launching, the nuclear rocket might be used for a lunar or deep space probe.

Another big rocket development scheduled for the late '60s is the *Nova* vehicle. *Nova* is a series of concepts based on the F-1, a single-chamber LOX-kerosene engine of 1½ million lbs. thrust, which Rocketdyne is developing for NASA. The engine still has four or five years development ahead of it. Building a vehicle around the engine will take several years more. The NASA 10-year program calls for the first *Nova* flight by 1968.

The best known of the *Nova* concepts is a cluster of six F-1 engines to provide nine million lbs. thrust. Another possibility is one central F-1 surrounded by six or eight H-1's—the Rocketdyne engines that go into the *Saturn* cluster.

Maj. Gen. Don R. Ostrander, NASA director of launch vehicles, has said that *Nova* is facing increased competition from combinations with nuclear upper stages as the vehicle to follow *Saturn*, which will have the mission of landing a manned 10,000-lb. spacecraft on the moon, re-entering through the atmosphere and landing safely. NASA has programed such a mission for the early 1970's.

A third possibility for big booster rockets in this decade is the Air Force's Project 3059, a one-year program due to start soon to investigate the feasibility of very large solid-propelled rockets. Bids from six companies are being evaluated on a proposal to build a solid booster of about 100 million pound-seconds total impulse.

The Project 3059 booster would be about 2/3 as big as the *Saturn* booster. The Air Force has decided that it can go ahead with the feasibility study on its own authority. NASA propulsion experts will serve on a committee supervising and evaluating the work. However, if the study proves a success, the Air Force will seek approval from the Defense Department before going ahead with a full-fledged development program.

The industry is divided on how to build a big solid rocket. Three companies—Aerojet-General, Grand Central and United Technology—have proposed that it be cast into cylindrical metal segments at the factory and put together at the launch site. The whole rocket cannot be cast in one piece at the factory because it would be too big for transportation by rail or truck.

Two companies—Thiokol and Rocketdyne—propose mixing and casting the propellant at the launch site. It could not be learned which approach is favored by the sixth bidder, Hercules Powder Co.

If the Project 3059 concept becomes hardware, it will become competitive with *Titan* as booster powerplant for *Dyna-Soar*. Since *Dyna-Soar* is a military vehicle, the Air Force is impressed with the instant readiness and simplicity of solids for the assignment.

• **Titan improvement**—Meanwhile, however, *Titan* itself will be changing. The Air Force this spring gave the Martin Co. the go-ahead to redesign the missile for storable propellants. Aerojet-General already has made progress on converting the engines from LOX-kerosene to nitrogen tetroxide oxidizer and a 50-50 fuel mixture of hydrazine and unsymmetrical dimethylhydrazine (UDMH).

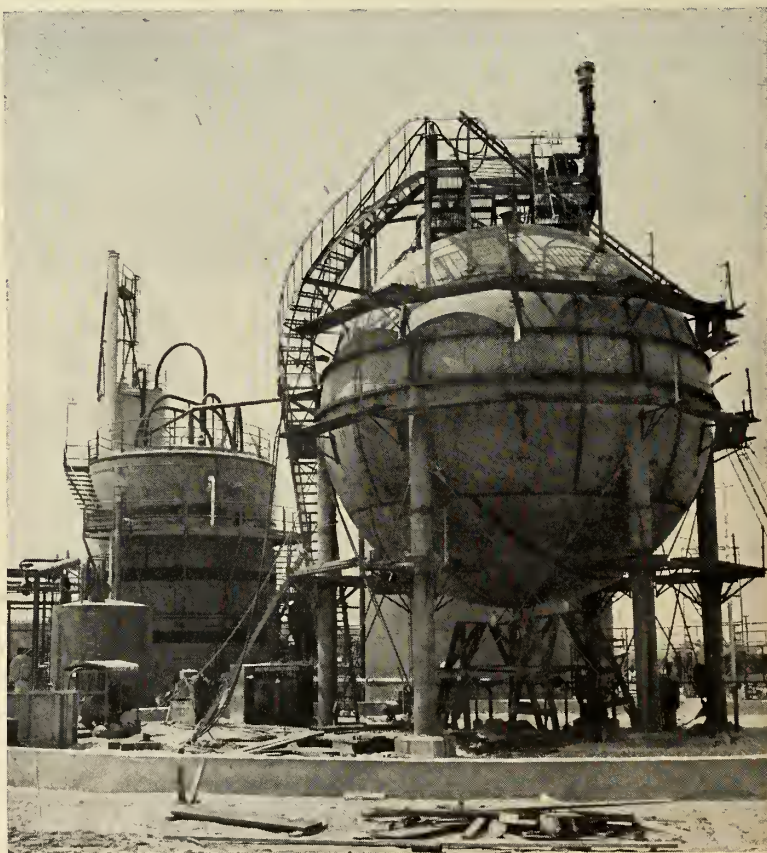
The new propellant combination will drop specific impulse by 12 seconds. At 1000 psia chamber pressure and shifting equilibrium, the storables give 288 seconds, compared with 300 for LOX-hydrocarbon. However, the

increased density of the storables actually make it possible for *Titan* to do more of a job—either carry a bigger payload or fly farther.

Many other storable combinations are under investigation. Pentaborane, the "Zip" fuel involved in a jet-fuel program cancelled last summer, is causing a great stir in the rocket industry at present. Theoretical calculations and limited small-scale testing indicate that some combinations of oxidizers and pentaborane (B_5H_9) yield very high specific impulse values. With N_2O_4 , for example, the figure is five seconds higher than with N_2H_4 and 10 seconds higher than with UDMH.

Hydrazine is ordinarily regarded as a fuel. However, an interesting new concept has evolved from its use as an oxidizer with pentaborane. The combustion of the two produces boron nitride and liberates hydrogen. Thus the average molecular weight of the

Linde Liquid Hydrogen Plant Rises



NATION'S LARGEST privately owned liquid hydrogen plant is nearing completion at Torrance, Calif. Linde Co. Division of Union Carbide is building the plant with daily capacity rated at 12,000 lbs. Linde will supply needs of National Aeronautics and Space Administration when it goes on stream this summer. Nation's only larger hydrogen plant is operated for Air Force by Air Products Inc. at West Palm Beach, Fla., Production rate of API plant is classified. (See story next page)

product gases is extremely low.

With a chamber pressure of 1000 psia, exit pressure of 14.7 psia and shifting equilibrium, the calculated specific impulse is 329 sec., 33 seconds higher than N_2O_4 and pentaborane.

One hint of the prime interest in

pentaborane came earlier this month when Callery Chemical Co. said it expects to begin production at its Muskogee, Okla., plant by late summer. Employment will rise from the current 190 to about 300 at that time, the company said.

Work Begun On Liquid H₂ Complex at Nevada Test Site

Contractors have begun construction of the first liquid hydrogen complex for the Project *Rover* nuclear rocket program at Jackass Flats on the Nevada Nuclear Test Site.

In last summer's first test, designated *Kiwi-A*, gaseous hydrogen was pumped through a nuclear reactor. The same is true of two tests scheduled for this summer, *Kiwi-A Prime* and *Kiwi-A3*.

Air Products Inc. is prime contractor for engineering the liquid hydrogen complex at the new test site, designated Test Cell C. The first engine test at the new site is to be held some time in 1961.

Test Cell C will have storage capacity for 6 million cu. ft. of gaseous hydrogen under high pressure. In addition, there will be two 50,000-gallon spherical Dewar tanks for liquid hydrogen storage.

At present, liquid hydrogen is shipped into Nevada by truck from West Palm Beach, Fla., Allentown, Pa., and Bakersfield, Calif. To reduce shipping costs, as much as possible is brought in from the Stearns-Roger Manufacturing Co. plant in Bakersfield. However, the capacity of that plant is relatively small.

Air Products also ships some from its small plants in Painesville, Ohio, and Allentown, Pa. The remainder comes from the large plant API operates for the Air Force at West Palm Beach.

The situation will be alleviated somewhat when the Linde Co. puts on stream a 6-ton-a-day liquid hydrogen plant some time this summer. However, Douglas Aircraft Co. soon will be using fairly large quantities of liquid hydrogen in its development of the S-4 80,000-lb.-thrust upper stage for the *Saturn* system. In addition, Convair's consumption of liquid hydrogen in the *Centaur* program will be rising slightly.

Thus the demand for liquid hydrogen in the West is expected to remain ahead of the supply. It can be assumed that some thought may soon be given to establishing further supplies in that area.

Requirements for development of the NASA 200,000-lb.-thrust liquid hydrogen-LOX engine will merely accentuate the shortage in the West.

products & processes

High Temperature Valve

Marotta Valve Corp., Boonton, N. J., has introduced a variable orifice valve to control flow of gas up to 2000°F. The orifice diameter can be adjusted between .150 and .185 in.

Designed to handle gas output from a small solid-propellant gas generator, the valve weighs 9 oz. and measures 3 5/8 by 2 1/2 in. Weight will vary according to material required for specific applications.

A two-way, normally closed valve, it is magnetically operated on 27-35 VDC with a continuous duty rating.

Circle No. 239 on Subscriber Service Card.

AI Stainless Coupling

A metallurgically bonded aluminum-stainless steel coupling—for joining pipes of the two metals without flanges or gaskets—is offered by Project Fabrication Corp. of College Point, N. Y.

P. F. C. has been manufacturing the couplings for five year under license from Hydrocarbon Research Inc. for use in its cryogenic plants. They are now available to industry in general.

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Compatible Connectors

A new series of aluminum and stainless steel connectors qualified from -320 to 400°F is announced by E. B. Wiggins Oil Tool Co., Los Angeles.

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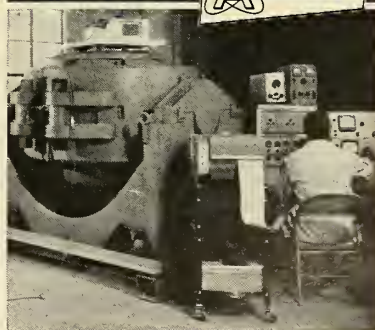
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The Bumpy Road to the ASW Market

An examination of how the selling job is complicated by Navy's profusion of managers and its demands for simplicity

by Donald E. Perry

Recognizing that many problems of undersea engineering parallel those in air and space, an increasing number of missile/space industries are expanding their research capability to open up new markets.

The most prevalent tactic is to set up separate ASW engineering departments, although many companies are also acquiring capability through mergers. One prime example is Lockheed Aircraft's acquisition of Stavid Engineering, long a leader in ASW elec-

tronics, and the Puget Sound Bridge & Drydock Co.

While ASW is by no means getting priority in funding, many in industry feel that emphasis will be increased if—and when—Russia gains the nuclear-powered ballistic missile submarine. Funding in Navy-wide ASW, including ships and planes, is \$1.3 billion in the FY 1961 budget.

The breakdown:

Ship construction—\$762.3 million

Aircraft—\$340.1 million

Research & development—\$180.5 million

Ordnance—\$56 million
Electronic procurement—\$25.5 million.

The House added \$321 million to the overall ASW effort, \$221 million for ships and another \$100 million for R&D. If this is approved by the Senate, and if the Administration releases the funds, ASW R&D will total \$280.5 million in FY '61.

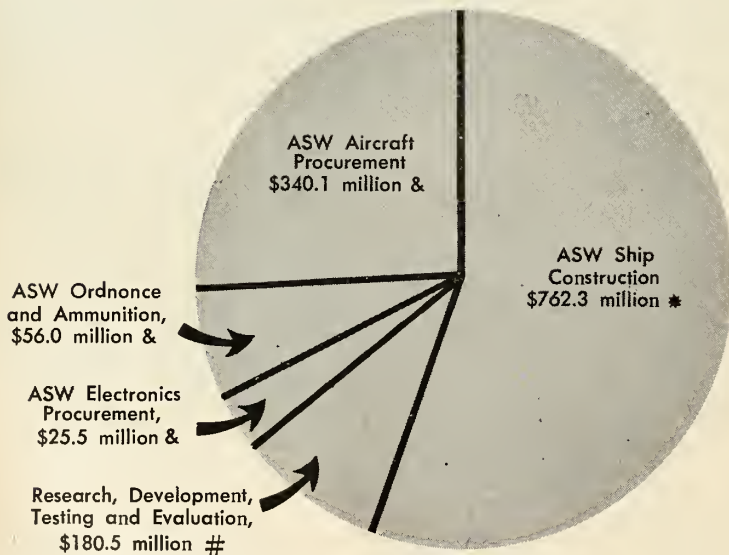
• **Stress on simplicity**—Many industry officials are finding that the Navy is a difficult customer when it comes to supplying ASW systems and equipment. The one thing it doesn't want is oversophistication, which it feels many firms in the missile/space industry want to provide. Reasons are rather obvious: money and maintenance. As Admiral Arleigh Burke, Chief of Naval Operations puts it:

"Complex equipments cost more to buy, to maintain, to operate. We need so many weapons in sea warfare, so many in ASW warfare alone, that we have to spread our dollars over a wide range of seagoing capabilities. The more each weapon costs, the fewer we can buy. The fewer we buy, the less capability we have in ASW, and in other vital areas. Even to approach the minimum numbers, weapons must stay low in cost. They must be simple . . . Gear that needs a master engineer to maintain it on a day-to-day basis has no place at sea."

Assuming that industry can come up with simple, easily maintainable ASW equipment, the road to selling it is still bumpy and hard. Unlike the *Polaris* fleet ballistic missile program, ASW has no single managership program—buying is split across the board into the various technical bureaus. It often develops that industry doesn't know where to go to sell an idea. Some sellers often go to the top—which alienates personnel of the cognizant bureau.

There is an ASW Research and Development Office in the Office of the Chief of Naval Operations, in the Bureau of Ships and the Bureau of Weapons, and on the staff of the Com-

FY 1961 ASW Portion of Navy Budget



THIS IS HOW the pie is split for the Navy's nearly \$2 billion ASW market.

* Indicates the Navy's request before Congress this month added one more nuclear attack submarine than the original budget request and retained two proposed for elimination by Departmental adjustments to the budget. Three boat costs would be \$171 million, plus \$50 million more for two ASW destroyer escort vessels. Realistic figure for ASW ship construction would be \$983.3 million, assuming Senate agrees with House bill, and Navy wants to spend the FY 1961 added funds. Navy also has \$343 million authorized in previous years.

Indicates House also approved \$100 million more in this category to speed the ASW program. Realistic figure would be \$280.5 million.

& Indicates Navy's original budget requests which were not substantially changed by the House and are considered realistic.

mander Operations Test and Evaluation Force.

•Where to go—The Navy points out that if an unsolicited proposal can be identified as having application to ASW it should be sent to one of the above offices. BuShips has cognizance over detection and communication equipment installed in ships. BuWeaps has cognizance of weapon systems—the weapon and its fire control equipment for ships and aircraft as well as the design of aircraft and their component parts.

The Office of Naval Research has cognizance over basic and applied research as well as component development where the direct application is not easily determined or the feasibility needs to be proven.

So if you have a proposal that can be identified under these general areas, it should be sent to the cognizant bureau or ONR. However, Vice Admiral J. T. Hayward, Deputy Chief of Naval Operations (Development), says if industry is at a loss as to where a certain proposal should go, it may be sent to his office and there it will either be turned over to the ASW Programs Division or to the Advanced Technology Group depending again on whether it is identifiable as an ASW project or solely a research program.

Navy has several criteria worthy of mention in evaluating proposals: (1) Is the proposal technically and scientifically sound? (2) Will the successful accomplishment of the proposal meet an operational requirement not already being met satisfactorily? (3) Is it economically and operationally acceptable? (4) Does it duplicate or complement work in progress? and (5) Does it have application to other problems not necessarily referred to in the proposal? Correct answers to these could mean a winning horse.

•Ships and planes—It takes tools to do the ASW task, and the biggest requirement is in ship construction and conversion, 56% of the Navy's ASW budget. The Navy wants to either buy or convert the following ships in FY 1961:

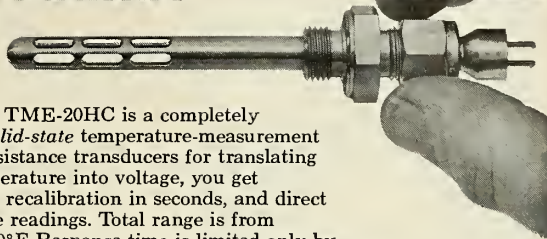
million

3 DLG's (Guided Missile Frigate)	\$231.6
2 DDG's Guided Missile Destroyer)	92.5
4 DE's (Destroyer Escort)	101
4 SSN's (Nuclear attack submarine)	343.2
1 AGOR (Oceanic research ship)	4.9
1 AG (Escort Research) ..	29.3
1 AG (Deep diving submarine)	25.8
14 DD's FRAM (Fleet Re-	

missiles and rockets, May 30, 1960

ARNOUX'S NEW TME-20HC SYSTEM PROVIDES 20 to 200 CHANNELS OF TEMPERATURE INFORMATION

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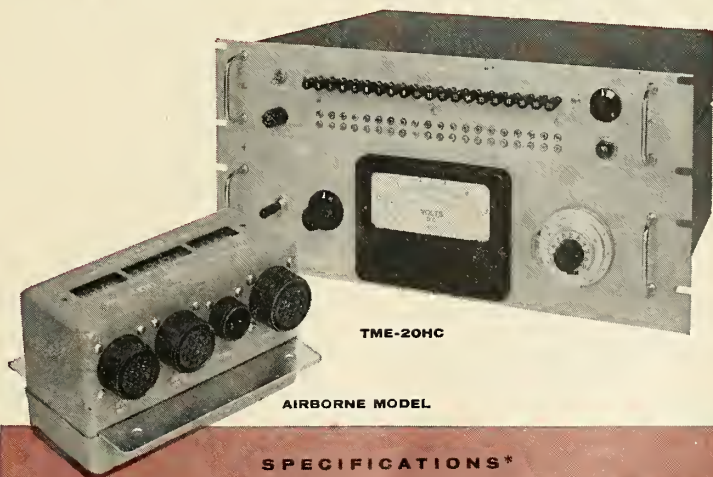
ARNOUX's new TME-20HC is a completely self-contained, *solid-state* temperature-measurement system. Using resistance transducers for translating a change of temperature into voltage, you get adjustable range, recalibration in seconds, and direct high-level-voltage readings. Total range is from -320°F to $+1000^{\circ}\text{F}$. Response time is limited only by the selected resistance temperature transducer. Per-channel cost is low compared to systems using thermocouples because voltage amplifiers are not required.

The TME-20HC unit contains 20 channels, each adjustable for 0 to 5 volts output over a desired temperature range.

Associated TCE-20HC provides a convenient and accurate method of channel calibration. An airborne unit is also available ... it's small and lightweight. Bulletin 501.

Arnoux Corporation

11924 W. Washington Blvd., Los Angeles 66, California



SPECIFICATIONS*

TME-20HC BALANCE AND POWER UNIT

1. Number of temperature channels: 20.
2. Type of temperature transducers: standard 20,000-ohm resistance
3. Adjustment and monitoring circuits: all necessary circuits incorporated
4. Temperature-measurement range: -325°F to $+1000^{\circ}\text{F}$
5. Temperature-measurement span: each channel adjustable to any desired span
6. Output voltage: 0 to 5 vdc for 275°F minimum temperature span
7. System stability: 0.25% of full scale
8. System ambient temperature range: $+20^{\circ}\text{F}$ to $+120^{\circ}\text{F}$
9. Power requirements: 105 to 125 vac, 60 cps, single phase

10. Size and mounting: 3.5 x 19 inch panel for standard rack mounting

11. Finish: Light grey per specification MIL-E-15090B

TCE-20HC CALIBRATION UNIT

1. Calibration: adjusts and calibrates up to 200 channels
2. Readout: visual on any data channel
3. Calibration accuracy: $\pm 0.6^{\circ}\text{F}$
4. Ambient temperature range: $+20^{\circ}\text{F}$ to $+120^{\circ}\text{F}$
5. Size and mounting: 5.25 x 19 inch panel for standard rack mounting
6. Finish: Light grey per specification MIL-E-15090B

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habilitation and Modernization) 142.1
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Following ship construction and conversion, the next big dollar market is ASW aircraft procurement, \$340.1 million. Buying will be for Sikorsky HSS-2 helicopters, Grumman S2F-3 fixed-wing carrier based aircraft, Lockheed turboprop P3V patrol plans, and Gyrodyne's gas-turbine-driven DSN-3 drone helicopters for destroyers.

• **RDT&E**—The House appropriations Subcommittee added \$100 million to the Navy's request of \$180.5 million for research, development, test and evaluation budget request. The subcommittee said it recognized the problem of lead time and "the importance of concerted action to develop improved ASW weapons now, rather than at a later date." In FY 1960 Congress appropriated \$45 million above that requested for RDT&E. In the FY 1961 request, Navy had provided an ASW RDT&E priority list totalling \$133,638,000. The subcommittee did not restrict the use of funds to the top \$100 million category.

Bulk of the funds will be used for classification, detection and localization, the Navy's Number 1 bugaboo with no breakthroughs in sight. Weapons, ordnance and fire control would come in for the next biggest share, followed by vehicles and propulsion equipment and supporting equipment.

In electronics needs, major purchases will go in three categories: Variable depth sonars for the older

destroyers; high-powered surface-ship sonar for newer destroyers (\$22.015 million); and communication and training equipment (\$3.467 million).

• **Probing deep**—Because the ASW effort depends on knowledge of the oceanic environment, the nation has a 10-year program of oceanic research which will cost about \$1 billion, with FY 1961 spending to be about \$56 million. Work is being stressed in the following areas:

- General circulation of the oceans.
- Horizontal and vertical diffusion or density stratification.
- Salinity and electrical conductivity.
- Compressibility and sound velocity.
- Characteristics of noise-producing animals.
- Topography of ocean bottoms.
- Reverberation.
- Exchange of energy at the ocean boundary.
- Transmission of light and electromagnetic radiation.
- Sound scatters and absorbers.
- Surface wave motion.

Navy will be spending \$55.962 million for Ordnance and Ammunition to meet ASW requirements in FY 1961. Funds will go for missiles and their support; depth charges, Mk. 37, Mk. 44, Mk. 45 and Mk. 46 torpedoes and their support; in service support for existing torpedoes; the Mk. 57 mine; fleet service mine tests; FRAM support; and miscellaneous ASW ammunition.

products and processes

Mica Button Capacitors

Sangamo Electric Company has developed a new group of high-temperature silvered mica button capacitors designed for continuous operation in the wide temperature range of -55°C to $+230^{\circ}\text{C}$. These capacitors are rated at 200 working volts DC in capacitance ratings from 50 to 4775 mmf. They are intended for use where the application calls for low distributed inductance and reliable performance characteristics in a high-temperature environment.

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Cathode Ray Tube

A cathode ray tube capable of high resolution photographic recording at altitudes up to 70,000 ft. is the latest from Sylvania's Electronic Tube Division.

The electron-optical system and fine grain screen of the new 5-in. tube

enable it to achieve fine trace width (6000 line resolution), with conventional focusing and deflection units. Line width is less than 0.0008-inch.

Designated Type SC 2809, the tube has a flat, clear, non-browning optical glass faceplate for optimum photographic quality.

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Bifurcated Gold Contacts

Bifurcated gold contacts—for increased switch reliability and stabilized contact resistance in data processing, radar and radio circuits—are a feature of a new subminiature snap-action switch announced by Micro Switch division of Minneapolis-Honeywell Regulator Company.

The bifurcated contacts (two contact surfaces in each position) move with a wiping action to clean the surfaces with every cycle.

Circle No. 244 on Subscriber Service Card.

missiles and rockets, May 30, 1960

Aerojet's Atlantic Group Deep in Undersea Research

FREDERICK, MD.—Aerojet-General Corporation's Atlantic Division may be small in comparison with its West Coast sisters at Azusa and Sacramento, but antisubmarine warfare systems under development or study here show advanced thinking.

With only about 60 employees and some 30,000 sq. feet of space—some of that waiting for expected contracts—the division is gearing its efforts to one principal criterion:

• The best way to find a submarine is to use another submarine.

This has been back of the division's plans and objectives ever since Aerojet picked up the former Ordnance Engineering Corp. facilities in 1957.

While the policy may run contrary to some accepted thinking that you have to use a mix of all three—submarines, aircraft and destroyers—the division is confident that much more can be done to improve the capability of the submarine itself as an antisubmarine device.

And the group here is not antidestroyer or antiaircraft, either. Rather, its main interest is in the medium itself—the ocean environment. It's working hand-in-glove with Aerojet's West Coast ASW Division, where the main concern is with underwater propulsion, hydro-dynamics and helicopter-towed minesweep devices.

• **Broad interests**—Atlantic Division delves into the whole field of underwater intelligence—detection, localization, classification, guidance and countermeasures.

Most of the work of the handful of mathematicians, electronic engineers, geophysicists and acousticians is classified, but a little can be told.

Due to some early pioneering work by the division's vice president, John V. Atanasoff, when he was at Naval Ordnance Laboratory, the group took a good look at shallow water propagation for use in acoustical mines. End result has been a healthy simulator contract from the Bureau of Ships.

The company went on the premise that the way to build a simulator was to get actual data from several environmental locations and use the averages as a means of simulation. While details are classified, presumably the simulator's acoustical generation gives an average of the propagational characteristics of sound underwater and is then tied into mine triggering.

The Navy made sound propagation

measurements in "several" harbors to come up with average data. Acoustic sweep is played into the simulator by an Aerojet modification to an Ampex magnetic tape transport.

• **Other jobs**—The Division also recently acquired a BuShips Underwater IFF (Identification, Friend or Foe) contract. First part of about \$100,000 study phase is almost complete.

It has put in-house money into studies in passive ranging and has several small study contracts from BuShips for countermeasures.

The Division also is tied in with the West Coast's ASW group's work in a relatively new proposal—measurement of undersea turbulence, which affects sound velocity and bearing accuracies much the same as a thermal layer affects amplitude. As such they are concerned with the physics of the sea and how it affects turbulence.

ASW Division has developed a turbulence meter which is undergoing evaluation by Navy. While it could have application in a complete detection system, it probably first will go

into basic oceanographic research to provide more data on such things as eddies, and how the size of objects plays a part in their creation. Such basic knowledge in turn should lead to better detection systems.

Navy Asks Bids on JATOS First Bought from Aerojet

The Navy has asked for competitive bids on a new procurement of a JATO motor originally obtained from Aerojet-General under a negotiated contract.

Bids were requested from all major manufacturers early this year on the 5KS 4500 JATO (4500 lbs. thrust for 5 seconds). Originally, the closing date was March 10. This was extended, however, to April 29. The bids are now being evaluated and the Navy's Bureau of Weapons says it is hoped that the contract will be awarded by the end of May.

BuWeaps said the contract originally was negotiated with Aerojet because of the urgency of the program. Now that it does not have such a high priority, the bureau says, it is possible to take the time involved in advertising for competitive bids.

The 5KS 4500 JATO is a multipurpose motor primarily used for takeoff propulsion of Navy aircraft. Aerojet has completed delivery of several thousand under the original contract.

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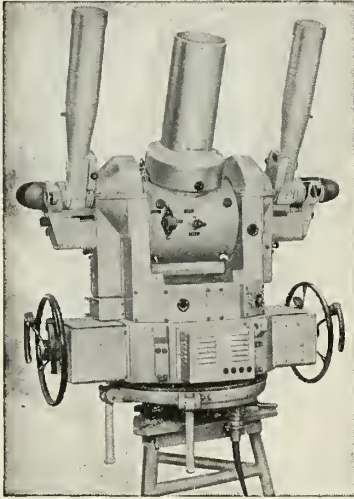
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memo from the publisher

This week's voluminous issue marks the third edition of M/R's Annual Missile Market and Product Guide. First published in Mid-April, 1958, under the title of Missile Market Guide and Directory, the Guide at that time listed 2613 companies and their products, and was mailed to 18,000 subscribers.

M/R's 1960 Guide lists 4903 companies involved in some form or other of missile/space work, together with the amazing total of 3216 different products which they manufacture or assemble. More than 32,500 copies of the Guide will be mailed out this year . . . approximately 1000 of those in single-copy sales between now and the time M/R's 1961 Guide appears.

The Guide is divided into two parts: the Purchasing Directory (we might even call it a "Seller's Guide"), beginning on the opposite page, which contains the 4903 company listings . . . including address, telephone number, names of key purchasing and sales personnel, and code numbers to indicate the areas in which each company is active; and the Product Directory, or Buyer's Guide, beginning on page 177, which lists 3216 parts and products . . . all of which are used somewhere within the \$10-billion missile/space industry. Under each of the 3216 products is an alphabetical listing of the companies which manufacture that component.

Throughout both the purchasing and the Product Directories, listings for Guide advertisers appear in boldface type with an asterisk preceding the name.

To assure maximum accuracy in the massive job of tabulating all of the information about company listings and product classification, the services of Remington Rand Univac here in Washington, D.C., were employed. Without the phenomenal speed of this huge computer, the Guide probably would not have been mailed until late summer or early fall.

Each year the Guide is revised and updated, with some listings eliminated through exhaustive study of product categories by the M/R editorial staff, and with many added . . . not only by the staff but through suggestions from industry.

The ink on the pages of the 1958 Guide had hardly dried before we began to hear the outraged voices of dozens of companies throughout the industry who were inadvertently left out of the Guide listings. While this year's Guide is the most comprehensive yet published, somebody may have been overlooked. If so, let us hear from you.

Each year, some three months after the Guide is published, we survey a portion of the M/R subscriber list to learn whether or not we're on the right track. Returns from these surveys have prompted us to make a number of changes in the format of the Guide in an effort to make it the most readable and most comprehensive service of its kind in any field.

You may be getting a questionnaire to fill out to tell us what you think. But don't wait for that; if you've got a suggestion (or a complaint) tell us about it. Address all comments and requests for future listings to: Editor, Missile Market and Product Guide, 1001 Vermont Avenue, N.W., Washington 5, D.C.

Edward Michelfeld



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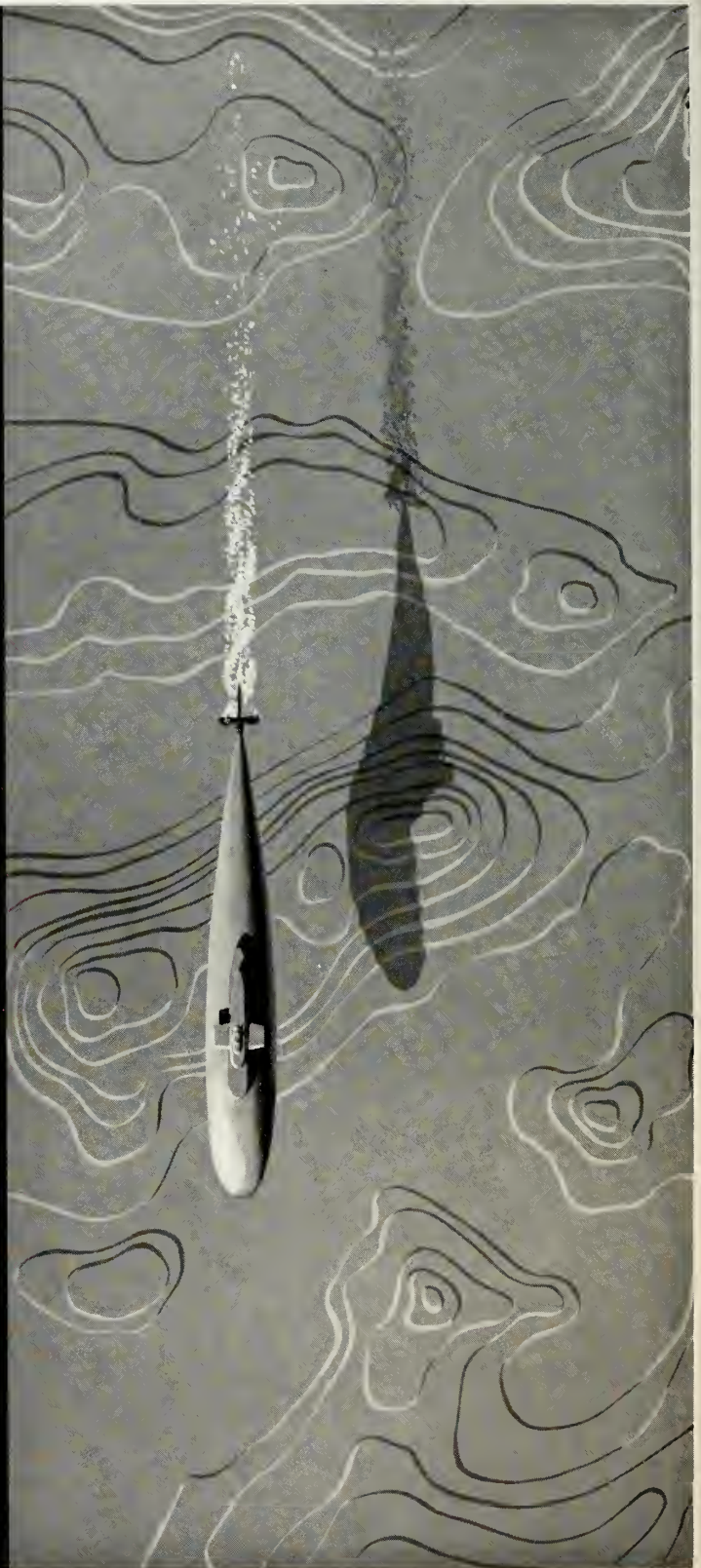
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MISSILE PURCHASING DIRECTORY

Listed on the following pages along with their address, phone number, and key purchasing and sales personnel, are almost 5,000 companies engaged in the missile industry. Codings appear at the end of each listing from which the area of company activity may be determined. These are explained in the lower right hand corner of every other page. Products manufactured by each company appear in the PRODUCT DIRECTORY which begins at the end of this section. Every effort has been made to obtain listings for all companies active in the missile business, but in an undertaking such as this, there are bound to be omissions. If we have omitted any company who should have been included, we are sorry—and hope that our readers will inform us for corrections in future editions. Write to: Editor, MISSILE MARKET & PRODUCT GUIDE, American Aviation Publications, 1001 Vermont Ave., N. W., Washington, D.C.

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Dir.-Sales: E. F. Nason
- ABALON PRECISION MFG. CORP.**
540 Casanova St., New York 59, N. Y. (Tel. LUDlow 9-5682)
Purch. Agent: Lon Orent
- ABBOTT BALL CO., THE**
Railroad Pl., Hartford 10, Conn. (Tel. JACKson 3-4231)
Purch. Agent: Edmund Tirone
Mgr.-Mktg.: E. H. Berges, Jr.
- ABBOTT SCREW & MFG. CO.**
6525 N. Clark St., Chicago 26, Ill. (Tel. ROgers Park 1-8400)
Purch. Agent: Joseph H. Spiegel
V. P.-Sales: Max Cordell
Sales Mgr.: Hal Glaser
M
- ABESTO CORP.**
49 Ackerman St., Bloomfield, N. J. (Tel. EO 8-6814)
Purch. Agent: R. W. Krumscheid
Dir.-Sales: G. L. Humphreys
M
- *ABRAMS INSTRUMENT CORP.**
606 E. Shiawassee St., Lansing 1, Mich. (Tel. IVanhoe 4-9441)
Purch. Agent: C. E. Adams
Asst. Purch. Agent: F. Conner
V. P.-Sales: C. J. Arksey
*(See advertisement this issue)
- ABRASIVE DRESSING TOOL CO.**
14528 Second Blvd., Detroit 3, Mich. (Tel. TOWnsend 8-6000)
Pres.: Jerry Krandall
M
- ACADEMY OF AERONAUTICS**
La Guardia Airport, Flushing 71, N. Y. (Tel. FIA 9-6600)
Pres.: Charles Jones
Dean: Walter M. Hartung
Chairman, Admissions: George W. Brush
- ACCESSORY CONTROLS & EQUIPMENT CORP.**
805 Bloomfield Ave., Windsor, Conn. (Tel. MURdock 8-4986)
V. P.-Purch.: John J. Kardys
Purch. Agent: C. A. Putini
Dir.-Sales: Clifford L. Osterling
M
- ACCESSORY PRODUCTS CO., DIV.-TEXTRON INC.**
616 W. Whittier Blvd., Whittier, Calif. (Tel. OXbow 3-3747)
Purch. Agent: Jerry Hudson
Sales Mgr.: O. A. Cordes
MS, CT, RD
- ACCURATE INSTRUMENT CO.**
2418 W. Alabama, Houston 6, Texas (Tel. JA 6-4947)
V. P.-Purch.: David W. Kemptner
Pres.: James G. Sears
- ACCURATE MFG. CO.**
Hepworth Place, Garfield, N. J. (Tel. GRegory 3-2900)
Pres.: V. A. OeMattia
Dir.-Sales: A. W. Rista
M
- ACCURATE SPECIALTIES CO. INC.**
37-11 57th St., Woodside 77, N. Y. (Tel. TWining 9-5757)
Purch. Agent: Lawrence Diamond
Asst. Purch. Agent & Sales Mgr.: Irving M. Solotoff
Buyer: Robert MacIsaac
M
- ACE COIL & ELECTRONICS CO.**
917 Lincoln Hwy., Metuchen, N. J. (Tel. LIberty 8-3580)
Purch. Agent: A. D. Meyer
Buyer: I. M. MacDonald
Sales Mgr.: Fred Sampson
M
- *ACE DRILL BUSHING CO. INC.**
5407 Fountain Ave., Los Angeles 29, Calif. (Tel. HO 9-8253)
V. P.-Mfg.: George Clement
Mgr.-Mktg.: Robert Ferris
*(See advertisement this issue)
- ACE ELECTRONICS ASSOCIATES, INC.**
99 Oover St., Somerville 44, Mass. (Tel. SOMerset 6-5130)
Pres.: Aaron N. Solomon
Sales Admin.: John J. Kennedy
Sales Mgr.: George Berman
G, RD
- ACE ENGRG. & MACHINE CO., INC.**
Tomlinson Rd., Huntingdon Valley, Pa. (Tel. WIlson 7-1900)
Dir.-Purch.: Frances M. Fay
Purch. Agent: Charles E. Kienzle
Sales Mgr.: Charles C. Borden
S
- ACE PLASTIC CO.**
91-30 Van Wyck Expressway, Jamaica 35, N. Y. (Tel. JA 3-5500)
Purch. Agent: Irving Steinberg
Dir.-Sales: Sidney Seidman
- ACE PRODUCTS CO.**
1820 N. 12th St., P. O. Box 784, Toledo 1, O. (Tel. CHerry 3-6513)
Purch. Mgr.: Emory A. Fall
- ACE SPRING MFG. CO., INC.**
141 32nd St., Brooklyn 32, N. Y. (Tel. STerling 8-0100)
Dir.-Sales: L. Edwards
M
- ACHESON COLLOIDS CO., DIV.-ACHESON INDUSTRIES, INC.**
1952 Washington Ave., Port Huron, Mich. (Tel. YUkon 4-4171)
Sales Mgr.: Arthur T. Olsson
Purch. Agent: O. L. Keith
M

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Missile Support	MS
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Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- ACKERMAN ENGRAVERS, INC.**
458 Broadway, New York 13, N. Y. (Tel. BArcley 7-1479)
Pres.: Bernard Strianese
Gen. Mgr.: Michael Strianese MS, G, CT, TT, RD
- ACKERMAN-GOULD CO. INC.**
10 Neil Ct., P. O. Box 188, Oceanside, N. Y. (Tel. ORiale 8-4110)
Purch. Agent: Anthony Fiorey
Secy.-Treas.: Herman Gauld
- ACKERMAN JOHNSON CO.**
625 W. Jackson Blvd., Chicago 6, Ill. (Tel. Randolph 6-2816)
Purch. Agent: E. W. Enyart
Sales Mgr.: V. G. Prabst S, M
- ACME BRASS FOUNDRY CO. OF SAN ANTONIO, INC.**
716 Wyoming St., San Antonio 3, Texas (Tel. Capital 7-4601)
Gen. Mgr.: Steve Margazewitz
Sales Mgr.: Mrs. Agnes M. Mahula M
- ACME CHAIN CORP.**
821 Main St., Halyake, Mass. (Tel. JE 2-9458)
Purch. Agent: Richard Munrae
Sales Mgr.: John D. Hayden M
- ACME ELECTRIC CORP.**
20 Water St., Cuba, N. Y. (Tel. Cuba 4)
Dir.-Purch.: A. J. Rudy
Dir.-Sales: J. D. Hall CT, TT, RD
- ACME INDUSTRIAL CO.**
200-222 N. Laflin St., Chicago 7, Ill. (Tel. MOnroe 6-4122)
Purch. Agent: Ronald Farrell
V. P.-Sales: Warner T. Brackeen RD
- ACME WIRE CO.**
1255 Dixwell Ave., New Haven 14, Conn. (Tel. LO 2-2171)
Purch. Agent: Walter Rausch
Asst. Purch. Agent: Robert Kawalczuk
Gen. Sales Mgr.: James Galvin
Pres.: H. B. Bassett M
- ACME-NEOPORT STEEL CO.**
9th & Lawell Sts., Newport, Ky. (Tel. COlonial 1-5620)
Dir.-Purch.: H. M. Baker
V. P.-Sales: C. M. Riefkin M
- ACORN BEARING CO.**
66 Stanley, New Britain, Conn. (Tel. BA 9-0839)
Dir.-Purch.: D. E. Malana
- ACOUSTICA ASSOCIATES, INC.**
10400 Aviation Blvd., Los Angeles 45, Calif. (Tel. ORchard 0-3393)
Purch. Agent: P. Masley
Buyers: R. Sanchez & R. Hackworth PS, MS, CT, RD
- ACRO DIV., ROBERTSHAW-FULTON CONTROLS**
2040 E. Main St., Columbus 16, O. (Tel. CL 3-8531)
Purch. Agent: A. Lafferty
Sales Mgr.: Tam Smith M
- ACROMAG, INC.**
22515 Telegraph Rd., Southfield (Detroit), Mich. (Tel. ELgin 7-0030)
Gen. Mgr.: Robert G. Hennings
Dir.-Sales: Henry W. Pottan
- ACROMARK CO., THE**
445 Marrell St., Elizabeth 4, N. J. (Tel. ELizabeth 2-6500)
Purch. Agent: M. A. Palmiere
Gen. Sales Mgr.: W. R. Heine, Jr. M
- ACTIONCRAFT PRODUCTS**
2 Yennicock Ave., Port Washington, N. Y. (Tel. PO 7-4500)
Purch. Agent: B. Lazich
Asst. Purch. Agent: M. Briggs
Sales Mgr.: W. J. Murphy M
- ACTON LABORATORIES INC.**
533 Main St., Acton, Mass. (Tel. COlonial 3-7756)
Prod. Mgr.: Richard A. Hall
Gen. Mgr.: Leray C. Bower, Jr. CT, RD
- ACTION RESEARCH CORP.**
416 N. Glendale Ave., Glendale 6, Calif. (Tel. CHapman 5-6866)
Mat. Coordinator: B. G. Mueller
Sales Mgr.: E. H. Mitchell MS, RD
- ACTUATOR PRODUCTS, DIV.-GEARTRONICS CORP.**
36 Nashua St., Waburn, Mass. (Tel. WElls 3-1400)
Purch. Agent: Albert N. Galante
Sales Mgr.: John H. Lyman
- ACUSHNET PROCESS CO.**
Belleville Ave., P. O. Box 916, New Bedford, Mass. (Tel. WYman 3-1711)
Dir.-Purch.: W. J. Roemer
Purch. Agent: C. R. Hinkley
Sales Mgr.: Halmes M. Dyer M
- ADAGE, INC.**
292 Main St., Cambridge 42, Mass. (Tel. UN 4-6620)
Purch. Agent: Richard J. McLernan
Dir.-Sales: J. Burgess Jamiesan CT
- ADAM METAL SUPPLY INC.**
4-63 48th Ave., Lang Island City 1, N. Y. (Tel. 5Tillwell 6-7737)
V. P.-Purch.: Jules Brady
Dir.-Sales: William Malcus M
- ADAMS RITE MFG. CO.**
540 W. Chevy Chase Dr., Glendale 4, Calif. (Tel. CHapman 5-1095)
Dir.-Purch.: R. Harvey
Sales Mgr.: C. J. Schlee Weiss
Dir.-Dev.: Donnell Grizzard
- ADEL PRECISION PRODUCTS, DIV.-GENERAL METALS CORP.**
1444 Washington Ave., Huntington, W. Va. (Tel. JA 2-7345)
Purch. Agent: D. V. Reynolds
Sales Mgr.: H. G. Shy
- ADEL PRECISION PRODUCTS OF CALIF., DIV.-GENERAL METALS CORP.**
10777 Vanowen St., Burbank, Calif. (Tel. TRiangle 7-2611)
Purch. Agent: A. Haines
Mgr.-Engrg. & Sales: W. J. Drummy
Chief Engr.: L. W. Topham
Gen. Mgr.: W. J. Yuss MS, G
- ADEPT INDUSTRIES INC.**
1636 W. Hunting Park Ave., Philadelphia 40, Pa. (Tel. DAvenport 4-6800)
Purch. Agent: Sidney Whitman
Sales: John F. Sahl
- ADHESIVE ENGRG. DIV.-HILLER AIRCRAFT CORP.**
1411 Industrial Rd., San Carlos, Calif. (Tel. LYtel 1-2686)
Purch. Agent: W. E. Schneider
Tech. Sales Mgr.: Robert W. Gaul M, RD
- ADLER ELECTRONICS, INC.**
One Le Fevre Lane, New Rochelle, N. Y. (Tel. NEw Rochelle 6-1620)
Dir.-Purch.: Eugene Laks
Buyer: Fred Meyers
V. P.-Mktg.: Alfred Stragoff MS, CT, TT, RD
- ADMIRAL CORP.**
3800 W. Cartland St., Chicago 47, Ill. (Tel. SPaulding 2-0100)
V. P.-Purch.: Frank J. Kazda
Purch. Agent, Govt. Div.: A. De Franceschi
V. P., Govt. Div.: Thomas J. Llyad TT, RD
- ADVANCE CARBON & ELECTRIC MFG. CO.**
2505 Mariposa St., San Francisco 10, Calif. (Tel. HEMlock 1-4034)
Dir.-Purch.: Bayd Bithell
Sales Mgr.: W. J. Crader PS, MS, M, G, TT
- ADVANCE INDUSTRIAL X-RAY LABS., INC.**
3538 Fowler St., Los Angeles 63, Calif. (Tel. AN 8-1721)
V. P.-Purch.: E. H. Wisdam
Gen. Mgr.: Ed Martindale CT
- ADVANCE INDUSTRIES, INC.**
640 Memorial Dr., Cambridge 39, Mass. (Tel. UNiversity 4-6800)
Dir.-Purch.: Oscar S. Lightbody
Buyers: Allan J. Joseph & Chester W. Dryden
V. P.-Sales: Robert L. Johnston MS, G, CT, TT, RD
- ADVANCE INSTRUMENT CORP.**
1109 6th Ave., Neptune, N. J. (Tel. PRospect 4-3700)
Pres.: Martin Tepper
Purch. Agent: Harry Bishop MS, CT, TT, RD
- ADVANCE RELAYS, ELECTRONICS DIV., ELGIN NATIONAL WATCH CO.**
2435 N. Naomi St., Burbank, Calif. (Tel. VI 9-1446)
Purch. Agent: J. Shrieber
Gen. Sales Mgr.: Gene Straube
- ADVANCED ELECTRONICS, INC.**
94 Silas Deane Hwy., Rocky Hill, Conn. (Tel. JACKson 9-6881)
Purch.: Alfred Dinunzia
Sales: Sam Friedman MS, CT
- ADVANCED ENGRG. DIV., D. S. KENNEDY & CO.**
P. O. Box 1711, Monterey, Calif. (Tel. FRantier 3-2461)
Sales Mgr.: Howard H. Hubbard RD
- ADVANCED PRODUCTS CO., THE**
59 Broadway, North Haven, Conn. (Tel. CEDar 9-1664)
Treas.: Arthur Hastage
Sales Mgr.: S. Robert Pulley S, PS, MS
- *ADVANCED TECHNOLOGY LABS.**
369 Whisman Rd., Mountain View, Calif.
*(See advertisement this issue)
- AEMCO INC.**
10 State St., Mankata, Minn. (Tel. 5153)
Purch. Agent: A. P. Pitzl
Asst. Purch. Agent: D. W. Wrucke
Sales Mgr.: J. F. Krast TT
- AER, INC.**
871 E. Washington Blvd., Pasadena, Calif. (Tel. SY 4-9725)
Dir.-Purch. & Sales: Robert E. Oliver RO
- AERIAL MACHINE & TOOL CORP.**
38-27 30th St., Lang Island City 1, N. Y. (Tel. RA 9-2425)
Dir.-Purch. & Sales: B. Kurz M
- AERO BOLT & SCREW CO., INC.**
25 W. Hartsdale Ave., Hartsdale, N. Y. (Tel. RORckwell 1-0210)
Dir. Purch.: A. J. Babbani
Sales Dept.: A. Oliver & F. Di Biase M
- AERO ELECTRONICS CORP.**
1745 W. 134th St., Gardena, Calif. (Tel. FAculy 1-2196)
Purch. Agent: Jim Fagan, (Tel. FA 1-3311)
Tech. Dir.: Jim Green
Gen. Mgr.: Steve Taylor M
- AERO GASKET CORP.**
763 Hanover Rd., Meriden, Conn. (Tel. BEVerly 5-3361)
Dir.-Purch.: Rhada Hurwitz
Dir.-Sales: Raymond C. Schmitt PS
- AERO INSTRUMENT CO.**
11423 Vanowen St., North Hollywood, Calif. (Tel. TRiangle 7-5433)
Pres.: T. O. Cax
Asst. Secy.: Mrs. L. Haugh MS, CT
- AERO LEATHER PRODUCTS CO.**
1740 W. 59th St., Los Angeles 47, Calif. (Tel. PLEasant 3-1461)
V. P.-Purch.: C. E. Seymour
Gen. Sales Mgr.: W. E. Seymour
- AERO MFG. & MACH. CO., INC.**
2724 9th St., Muskegon Heights, Mich. (Tel. PE 3-1251)
V. P.-Purch.: O. U. Johnson
Non-Prod.: G. M. Brown
V. P.-Sales: H. A. Kriefeldt S, PS, MS, G
- AERO RESEARCH INSTRUMENT CO. INC.**
315 N. Aberdeen St., Chicago 7, Ill. (Tel. TAYlor 9-4400)
Dir.-Purch.: Ben Scadran
Dir.-Sales: M. Scadran CT, RD
- AERO SPARES, INC.**
69-08 Woodside Ave., Woodside 77, N. Y. (Tel. HI 6-4880)
Acting Purch. Agent: Bob Bayd
Buyers: Julia Ford & Pete Vaughn
Dir.-Sales: George Vaughn MS
- AERO SUPPLY MFG. INC.**
611 W. Main St., Corry, Pa. (Tel. 2-8261)
Purch. Agent: P. E. Dwyer
Buyer: Dean Hauser
V. P.-Sales & Engrg.: E. F. Pain PS, MS, G, RD
- AEROCAL DIV., AERONCA MFG. CORP.**
24751 Crenshaw Blvd., Tarrance, Calif. (Tel. DAvenport 6-8220)
Mgr.-Material: A. J. Mulford
Purch. Agent: J. M. Crawford
Dir.-Tech. Services: D. N. Ninteman S, MS, RD
- AEROCHEM RESEARCH LABS., INC.**
P. O. Box 12, Princeton, N. J. (Tel. WAInut 1-7070)
Gen. Mgr.: George R. Bent, II R D
- AEROFLEX LABS., DIV., AEROFLEX CORP.**
34-06 Skillman Ave., Lang Island City 1, N. Y. (Tel. 5Tillwell 6-3315)
Purch. Agent: P. Peterson
Buyer: W. Barilla
Prod. Control: H. Cranfill
V. P.-Sales: R. G. Sanders MS, G, CT, RD

AERDIL PRDDUCTS CO., INC.
55 Wesley St., South Hackensack, N. J. (Tel. Diamond 3-5200)
Dir.-Purch.: Emil Treumper
Dir.-Sales: Joseph Holperin S, M

AEROJET-GENERAL CORP.
Box 296, Azusa, Calif. (Tel. Cumberland 3-6111, Edgewood 4-6211)
Mgr.-Prac.: William Mullock
Gen. Purch. Agent: F. W. Henion
Prac. Specialist: V. R. Miller
V. P.-Customer Relations: W. L. Gore
*(See advertisement this issue) PS, MS, G, CT, RD

AEROJET-GENERAL CORP., DOWNEY PLANT
1711 Woodruff Ave., Downey, Calif. (Tel. TOpoz 1-9711, SPuce 3-0130)
Mgr.-Material Div.: R. W. Lossmon
Comm. Purch. & Prac. Services: I. G. Funk
Customer Relations, Aero. Div.: O. W. Grow
Customer Relations, Ord. Div.: W. G. Weigel S, MS, RD

AEROLITE ELECTRONICS CORP.
2207 Summit Ave., Union City, N. J. (Tel. UNION 3-2955)
Purch. Agent: John Doheny
Sales Mgr.: Victor G. Motto PS, M, CT

AERDLUX LIGHT CORP.
653 11th Ave., New York 36, N. Y. (Tel. Circle 6-5324)
P. J. Kayott M, RD

AERONAUTICAL ELECTRONICS, INC.
Box 6527, Raleigh, North Carolina (Tel. TEmple 4-7381)
Purch. Agent: J. R. Whitaker
Sales Mgr.: A. F. Morthens MS, CT

AERONAUTICAL MACHINISTS INC.
386 Mountain Grove St., Bridgeport 5, Conn. (Tel. FOrest 6-4791)
Product Analyst: Michael Demci
V. P.-Purch.: Arthur J. Gleason
Pres.: Matthew Kuziok MS

AERONCA MFG. CORP.
1712 Germantown Rd., Middletown, O. (Tel. GARden 2-2751)
Dir.-Purch.: R. M. Poul
Dir.-Material Negotiation Section: Thomas Brunjes
V. P.-Tech. Services Div.: Roy F. Hermes S, M, G, RD

AERONCA MFG. CORP., AEROSPACE DIV.
Hilltop & Frederick Rds., Baltimore 28, Md. (Tel. RIDgeway 7-0200)
Purch. Agent: G. M. Swesey
Sales Engr.: C. Horvey
Dir.-Mktg.: J. Woscovage MS, G, CT, TT, RD, HSE

AERONAUTIC, DIV.-FCRD MCTGR CO.
Ford Rd., Newport Beach, Calif. (Tel. ORiole 5-1234)
Mktg. Mgr.: S. D. Wanloss
Mktg., Computer Operations: R. F. Geiger
Mktg., Tactical Weapon Systems Operations: H. K. Weiss
Mktg. Mgr., Space Technology Operations: J. C. Christian
Systems Mktg., Range Systems Operations: R. T. Barrett
Gen. Purch. Agent, Material: C. D. Groef
Purch. Agent, Subcontracts & Electronics: G. S. Codice
Purd. Agent, Supplies & Facilities: D. W. Coulter

AEROPRODUCTS OPERATIONS, ALLISON DIV., GENERAL MOTORS CORP.
Municipal Airport, Dayton, O. (Tel. TWinooks 8-4661)
Mgr.-Purch.: J. E. Boird
Asst. Purch. Agent: W. S. Neff
Purch. Parts Buyer: F. A. White
Mgr.-Sales, Serv. & Contracts: C. E. Dixon

AERPRDJECTS INC.
310 E. Rosedale Ave., West Chester, Po. (Tel. OWen 6-4710)
Purch. Agent: Fred Wood
Sales Mgr.: D. D. Kirkpatrick S, M, RD

AERQUIP CORP., GENERAL LOGISTICS DIV.
2929 Floyd St., Burbank, Calif. (Tel. VICTORIA 9-5831)
Purch. Agent: M. J. Kalojon
Gen. Sales Mgr.: Richard W. Mosher MS

AERQUIP CORP., JACKSDN DIV.
300 S. East Ave., Jackson, Mich. (Tel. STore 2-0361)
Purch. Mgr.: L. A. Greene
Gen. Sales Mgr.: F. W. Schwier S, PS, MS, CT, RD

AERDSCIENCE, INC.
3015 S. Kilson Dr., Santo Ana, Calif. (Tel. Kimberly 9-1101)
Purch. Agent: R. M. Hall
Gen. Sales Mgr.: W. C. Vanbeber MS, CT, RD

AERO-STAT CO., THE
8021 S. Western Ave., Los Angeles 47, Calif. (Tel. PLeasant 3-1919)
Engr.: Louis Brownlee
Pres.: Joseph A. Iaio M

AEROTEC INDUSTRIES, INC., AIRCRAFT EQUIPMENT DIV.
Pembewick Rd. & Comly Ave., Greenwich, Conn. (Tel. JEFferson 1-8400)
Dir.-Planning & Prac.: Harold Anderson
V. P. & Mgr.: J. V. Oliveau
Sales Mgr.: T. W. Walker S

AERO-TEST EQUIPMENT CO., INC.
8401 Chancellor Row, Dollos 7, Texas (Tel. FLeetwood 7-6271)
Purch. Agent: E. L. Wilks
Chief Estimator: W. O. Price
Sales Mgr.: Ken Bishop MS, CT

AERO-TEST EQUIPMENT CO., INC.
8401 Chancellor Row, Dollos 7, Texas. (Tel. FLeetwood 7-6271)
Purch. Agent: E. L. Wilks
Chief Estimator: W. O. Price
Sales Mgr.: Ken Bishop MS, CT

AEROTRON SUPPLY CO.
13611 S. Normandie Ave., Gardena, Calif. (Tel. FR 1-5911)
V. P.-Purch.: John L. Scoles
V. P.: Richard J. Greer M

AERDVOX CORP.
740 Belleville Ave., New Bedford, Moss. (Tel. WYmon 4-9661)
Purch. Agent: Robert Crobbe
Buyers: Edward Hickey, John Warren, Fred Groeben, Joe Desjorins
V. P.-Sales: Frank Marshall M

AETNA BALL & ROLLER BEARING CO., DIV.-PARKERSBURG-AETNA CORP.
4600 W. Schubert Ave., Chicago 39, Ill. (Tel. CApiitol 7-2410)
Purch. Agent: G. M. Korn
Asst. Purch. Agent: R. W. Zitzewitz
Sales Mgr.: H. F. Wendt M

AETNA ELECTRONICS CORP.
Readington Rd., North Branch, N. J. (Tel. RA 5-1000)
Purch. Agent: Robert McDonald
Dir.-Sales: Henry J. Buser, Jr. CT

AGRICULTURAL AVIATION ENGRG. CO. INC.
858 Scott St., Santo Clara, Calif. (Tel. CH 8-6075)
Operations Mgr.: Phillip R. Pickell
Adm. Mgr.: George S. Sanders MS, RD

AINSLIE CORP.
531 Pond St., S. Brintree 85, Moss. (Tel. VICTor 8-0850)
Purch. Agent: L. D. Ainslie
Sales: H. W. Ainslie S, MS, G, TT

AIR FILTER CORP.
4554 W. Woolworth Ave., Milwaukee 18, Wis. (Tel. FLogstone 3-5800)
V. P.-Purch.: R. E. Zohn
Dir.-Sales: W. H. Welty M, HSE

AIR LOGISTICS CORP.
3600 E. Foothill Blvd., Posodeno, Calif. (Tel. SYcomore 6-7191)
Chief Purch. Agent: C. J. Wilson
V. P.-Engrg.: C. J. Breitwieser MS, CT, RD

AIR PRODUCTS, INC.
Allentown, Po. (Tel. Express 5-3311)
Gen. Purch. Mgr.: F. B. Droke
Purch. Agent: A. Wilson
Gen. Sales Mgr., Process Equip. Div.: Gordon Kiddoo PS, MS, M, G, RD, HSE

AIR REDUCTION SALES CO., DIV.-AIR REDUCTION CO., INC.
150 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 2-6700)
Dir.-Purch.: E. R. Humann
Mgr., Mktg.: E. S. Twining, Jr. S, HSE

AIR RESEARCH & DEVELOPMENT COMMAND
Assistant for Procurement Sources, Directorate of Procurement, HQ, Andrews Air Force Base, Washington 25, D. C. (Tel. REDwood 5-8900)
DCS/Wt Brig. Gen. Lee Fulton
Dir.-Prac.: Col. J. B. Producers
Dep. Dir.-Prac.: R. Miedel

Chief, Prac. Surv. Div.: C. Meyer
S, PS, MS, M, G, CT, TT, RD, HSE

AIR SPEED TOOL CO.
1502 W. Slouson Ave., Los Angeles 47, Calif. (Tel. PLeasant 2-8340)
Gen. Mgr.: H. J. Thiessen
Asst. Gen. Mgr.: R. G. Zimmerman
Purch.: H. L. Johnson S, MS, PS

AIRATERRA
620 Poulo Ave., Glendale 1, Calif. (Tel. CHopman 5-8521)
Purch. Agent: Leo Horris
Sales Mgr.: Donald A. Benbow PS, MS, M, G, RD

AIRBORNE ACCESSORIES CORP.
1414 Chestnut Ave., Hillside 5, N. J. (Tel. MU 8-0250)
Purch. Agent: P. Moranz
Pres. & Gen. Mgr.: W. Cortlyn Rhodes MS

AIRBORNE INSTRUMENTS LAB., DIV.-CUTLER-HAMMER, INC.
Comac Rd., Deer Park, N. Y. (Tel. MYrtle 2-6100)
Dir.-Procurement: George Hensen
Dir.-Mktg.: M. J. Rowe CT, RD, HSE

AIRBORNE RESEARCH & DEVELOPMENT CORP.
7530 Sun Fernando Rd., Sun Valley, Calif. (Tel. TR 7-9647)
Purch. Agent: T. Roberts
Dir.-Sales: R. H. Hohn RD

AIRCORN INC.
48 Cummington St., Boston 15, Moss. (Tel. CO 7-9115)
Chief Engr.: Robert A. Rivers
Sales Mgr.: Edward J. Stock MS, G, TT, RD, HSE

AIRCRAFT ACCESSDRY TURBINE DEPT., GENERAL ELECTRIC CO.
950 Western Ave., Lynn 3, Mass. (Tel. LYnn 3-6000)
Purch. Agent: W. M. Badger
Buyer (Fargings, Costings): M. W. Dilloway
Buyer (Bearing, Soles, Hardware): J. P. Condon
Field Sales Mgr.: W. F. Moore

AIRCRAFT ARMAMENTS, INC.
Cockeysville, Md. (Tel. NOrmond 6-1400)
Chief-Procurement: Bloine M. Swortz
Dir.-Sales: Morvin J. Kohn S, MS, CT, TT, RD

AIRCRAFT COMPDNENTS, INC.
755 Woodland Ave., Twin Cities Airport, Benton Harbor, Mich. (Tel. WALnut 5-8861)
Pres.: C. O. Zoller
Sales Mgr.: C. R. Roines
Asst. Sales Mgr.: R. C. Williams

AIRCRAFT EQUIPMENT DIV.-CONSOLIDATED DIESEL ELECTRIC CORP.
880 Canal St., Stamford, Conn. (Tel. DAVis 5-2261)
Dir.-Ops.: E. J. Minor
Purch. Agent: J. A. Adams
V. P. & Gen. Mgr.: J. I. DAVIS

AIRCRAFT EQUIPMENT TESTING CO., INC.
1812 Fleet St., Baltimore 31, Md. (Tel. ORLeans 5-8337)
Pres.: Harry P. Kupiec CT, RD

AIRCRAFT FITTING CO., THE
701 N. Federal Hwy., Donlo, Flo. (Tel. WABash 3-2331)
Dir.-Purch.: Paul Hummel
Sales Mgr.: H. P. Burger M

AIRCRAFT INSTRUMENTS CO.
King of Prussia Rd. of Montgomery Lane, Rodnor, Pa. (Tel. MUrray 8-0151)
Dir.-Purch.: George Peterson, Jr.
Purch. Agent: H. Miller
Chief Engr.: W. Betten MS

AIRCRAFT PDRDUS MEDIA, INC., SUB.-PALL CORP.
30 Seo Cliff Ave., Glen Cove, N. Y. (Tel. ORiole 1-4000)
Purch. Agent: N. Friedman
Sales Mgr.: J. A. Whitwell M

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- AIRCRAFT TOOLS, INC.**
9030 Bellanca Ave., Los Angeles, Calif. (Tel. OR 8-3432)
Purch. Agent: William Avey
Asst. Purch. Agent: Paul Dawd
Buyer: D. Jackson
V. P.-Sales: H. W. Dellett MS
- AIRDROME PARTS CO.**
492 S. Hyde Park Blvd., Inglewood 3, Calif. (Tel. ORegon 8-7133)
Purch. & Prod. Mgr.: Harold D. Stout
Sales Mgr.: Walter J. Parker MS, RD
- *AIRESEARCH MFG. OF ARIZONA**
402 S. 36th St., Phoenix, Ariz. (Tel. BRidge 5-6311)
Mgr.-Purch.: Herb Bjornberg
Mgr.-Sales: S. D. Whitaker PS, MS
(See advertisement this issue)
- *AIRESEARCH MFG. CO. DIV., THE GARRETT CORP.**
9851 Sepulveda Blvd., Los Angeles 45, Calif. (Tel. SP 6-1010)
Purch. Mgr.: B. Schindler
Sales Mgr.: P. W. Bartlett MS, G, RD, HSE
(See advertisement this issue)
- AIRETOOL MFG. CO., THE**
300 S. Center St., Springfield, Ohio (Tel. FAirfax 3-4988)
Dir.-Purch.: Harold Gilliam
Dir.-Sales: I. T. Thomson M
- AIRFLYTE ELECTRONICS CO.**
535 Ave. A, Bayonne, N. J. (Tel. HEMlock 6-2230)
Purch. Agent: Ben Navy
Buyer: D. Pintura
Sales Dir.: Milton Feinman MS, TT
- AIRHARDWARE, INC.**
14845 Oxnard St., Van Nuys, Calif. (Tel. STate 5-1591)
Purch. Agent: Ralph Gabrielson
Buyer: Carl J. Bild
Sales Mgr.: Stephen J. Bild M
- AIR-MARINE MOTORS, INC.**
369 Bayview Ave., Amityville, N. Y. (Tel. AMityville 4-3700)
Purch. Agent: Paul Harrington
Gen. Sales Mgr.: David H. Thomas
Sales Mgr. (E/C Div.): William Sly G, RD
- AIR-MAZE CORP.**
25000 Miles Rd., Cleveland 28, O. (Tel. MOntrase 2-8000)
Dir.-Purch.: James Carson
Sales Mgr.: John M. Clem
- AIRPAX ELECTRONICS INC., CAMBRIDGE DIV.**
Cambridge, Md. (Tel. ACademy 8-4600)
Purch. Agent: Evan Harding MS
- AIRPAX ELECTRONICS INC., SEMINOLE DIV.**
Fort Lauderdale, Fla. (Tel. LUdlow 3-6160)
Purch. Agents: Ewald Spedden & R. Dandlinger
Gen. Sales Mgr.: H. A. Cook MS, TT, RD
- AIRTEMP DIV., CHRYSLER CORP.**
1610 Webster St., Dayton 1, Ohio (Tel. BAldwin 3-2141)
Purch. Agent: H. M. Coy
Purch. Supvr.: C. L. Buck G
- AIRTRON, DIV.-LITTON INDUSTRIES**
200 E. Hanover Ave., Morris Plains, N. J. (Tel. JEHersan 9-5500)
Dir.-Purch.: J. Carrigan
Dir.-Sales & Mktg.: G. P. Tanquari MS, G, CT, TT, RD
- AIRWORK CORP.**
5245 N. W. 36th St., Miami Springs, Fla. (Tel. TUveda 7-8176)
Connector Sales: R. R. Read PS
- AKRON BRASS MFG. CO., INC.**
Wooster, Ohio (Tel. HOward 2-0070)
Purch. Agent: F. B. Watson
V. P.-Sales: Harold Strain
- ALAC, INC.**
365 W. Arden St., Glendale, Calif. (Tel. CHapman 5-3787)
Dir.-Purch.: Arthur Le Stourgeon
Sales Mgr.: M. J. Johnson M
- ALAD ALUMINUM LADDER CORP.**
7260 Melrose Ave., Los Angeles 46, Calif. (Tel. WEbster 4-5000)
Gen. Sales Mgr.: F. A. van Baum
- Dir.-Purch.:** William S. Hamby, 1448 Signal Dr., Pomona, Calif. (Tel. NAtional 2-2478)
- ALADDIN ELECTRONICS, DIV.-ALADDIN INDUSTRIES INC.**
705 Murfreesboro Rd., Nashville 10, Tenn. (Tel. CHapel 2-3411)
Sales Office Mgr.: F. G. Bassler
Chief Engr.: P. E. Dicker
Purch. Agent: William B. Patterson
V. P. & Gen. Mgr.-Sales: W. W. Stifler M, RD
- ALBANO CO. INC.**
549-555 W. 54th St., New York 19, N. Y. (Tel. PLaza 7-5887)
Purch. Agent: G. Strump
Dir.-Sales: J. R. Creveling S, M
- ALBERTSON & CO., INC.**
3100 Lowell Ave., Sioux City 4, Iowa (Tel. 2-0525)
Purch. Agent: Marvin H. Andersen
Asst. Purch. Agent: M. L. Andersen
Sales Mgr.: D. E. Jacobsen
- ALBION INDUSTRIES, INC.**
816 N. Clark St., Albion, Mich. (Tel. NAtional 9-3965)
Purch. Agent: C. W. Burns
Gen. Mgr.: J. F. Karmalski
- ALCAR INSTRUMENTS, INC.**
411 Robbins Ave., Trenton 8, N. J. (Tel. OWen 5-6342)
Prod. Mgr.: J. F. Tiballa
Dir.-Sales: Dr. Hugh H. Darby M, CT, RD
- ALCO PRODUCTS, INC.**
P. O. Box 1065, Schenectady 1, N. Y. (Tel. FRanklin 7-3311)
Dir.-Procurement: E. J. Van Valkenburgh
Sales Mgr., Nuclear & Defense Products: A. T. Lowrance
- ALCO VALVE CO.**
865 Kingsland Ave., St. Louis 30, Mo. (Tel. PArkview 5-2460)
Proc. Dir.: W. F. Helfrich
Buyers: Wm. C. Colvin & Jack DeCormier
Mgr.-Aircraft Sales: W. F. Lachmaeller S, PS, MS
- ALDEN PRODUCTS CO.**
154 N. Main St., Brackton, Mass. (Tel. JUNiper 3-0160)
Purch. Agent: A. E. Illsley
Sales Mgr.: Russ Hawkins MS, M, G, RD
- ALFAX PAPER & ENGRG. CO. INC.**
Washington St., Westboro, Mass. (Tel. FOrest 6-4467)
Chief Engr.-Purch.: E. D. Cross
Plant Mgr.-Sales: S. C. Sviakla TT, RD
- ALFRED ELECTRONICS**
897 Commercial St., Pala Alta, Calif. (Tel. DAvenport 6-6496)
V. P.-Purch.: Al Jew
Buyer: Marle Spade
Sales Mgr.: Paul N. Fulton CT
- ALITE DIV., U. S. STONWARE CO.**
P. O. Box 119, Orrville, Ohio (Tel. SMithville, MO 9-2271) M
- ALL AMERICAN ENGRG. CO.**
Box 1247, DuPont Airport, Wilmington 99, Del. (Tel. WYman 4-0951)
Purch. Agent: John F. Stocki
Head, Military Proj.: Chuck J. Daniels
V. P.-Sales: Robert B. Cotton PS, MS, CT, TT, RD
- ALL AMERICAN TOOL & MFG. CO.**
8027 Lawndale Ave., Skokie, Ill. (Tel. ORchard 3-7084)
Gen. Mgr.-Purch.: S. K. Hein
Chief Engr.-Purch. & Sales: Robert O. Hein
- ALL BORO METAL PRODUCTS CO., INC.**
610 Fenimore Rd., Mamaroneck, N. Y. (Tel. OWens 8-0104)
V. P.-Purch.: H. B. Maxwell
Purch.: J. J. Schnapp & H. M. Sterling M
- ALL CHROME MFG. CO.**
2610 Willa Lane, Costa Mesa, Calif. (Tel. LI 8-4265)
Dir.-Purch.: D. Harrison
Dir.-Sales: R. Harrison
- ALL PRODUCTS CO.**
P. O. Box 110, Mineral Wells, Tex. (Tel. FAirfax 5-3301)
Purch. Agent: Harry Opanowitz S, G, TT, RD
- ALL SPECS CORP.**
245 Fourth St., Passaic, N. J. (Tel. GRegory 1-4700)
Dir.-Purch.: H. Mahrwinkel
Dir.-Sales: H. Landan M
- ALL STAR PRODUCTS INC.**
P. O. Box 487, Defiance, Ohio (Tel. 2-1065)
Dir.-Purch.: D. P. Ingle
V. P. & Sales Mgr.: W. F. Reiter G, CT, TT, RD
- ALLARD INSTRUMENT CORP.**
146 E. Second St., Mineola, L. I., N. Y. (Tel. Pioneer 6-5895)
Prod. Mgr.: Norman M. Herman
Pres.: Alfred Skrabisch
- ALLEGANY INSTRUMENT CO., INC.**
1091 Willis Mountain, Cumberland, Md. (Tel. PArkview 4-1200)
Purch. Agent: Miss Helen Whiteman
Sales Mgr.: John B. Zarnig
- ALLEGHENY BALLISTICS LAB.**
Cumberland, Md.
- ALLEGHENY ELECTRONIC CHEMICALS CO.**
Hooker-Fulton Bldg., Bradford, Pa. (Tel. FOrest 2-3586)
Plant Mgr.: Thayer Rudd
Sales Mgr.: Norman J. Egli M
- ALLEGHENY LUDLUM STEEL CORP.**
Oliver Bldg., Pittsburgh 22, Pa. (Tel. COurt 1-5300)
V. P.-Purch.: L. H. Bittner
V. P.-Sales: W. B. Pierce M
- H. D. ALLEN MFG.**
3201 Casitas Ave., Las Angeles 39, Calif. (Tel. NOrmandy 1-6961)
Purch. Agent: H. D. Allen
Dir.-Sales: S. Allen S, RD
- *R. C. ALLEN AIRCRAFT INSTRUMENT DIV., R. C. ALLEN BUSINESS MACHINES, INC.**
333 Commerce Ave., S. W., Grand Rapids 2, Mich. (Tel. GLendale 6-8541)
Purch. Agent: H. Vern Frielink
Div. Mgr.: G. T. Harrison
Chief Engr.: Ralph H. Johnston
Sales Mgr.: T. J. Wilson, Jr. G
(See advertisement this issue)
- ALLEN AIRCRAFT PRODUCTS, INC.**
Ravenna, O. (Tel. AX 6-9621)
Purch. Agent: Russ Lengs
Sales Mgr.: Wm. H. Salladay PS, MS
- ALLEN ELECTRIC & EQUIPMENT CO.**
4101 N. Pitcher St., Kalamazoo, Mich. (Tel. FLreside 5-8531)
Dir.-Purch.: J. E. Danahue
Gen. Sales Mgr., Govt. & Indsl. Div.: W. L. McMichael CT
- ALLEN MFG. CO.**
Drawer 570, Hartford 1, Conn. (Tel. CH 2-8511)
Purch. Agent: Wm. A. MacDonald
V. P.-Sales: W. D. Harner PS
- ALLENNAIR CORP.**
255 E. Second St., Mineola, N. Y. (Tel. Pioneer 7-5450)
Dir.-Purch.: A. K. Allen
Sales Mgr.: A. C. Kelly
- ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
40 Rector St., New York 6, N. Y. (Tel. HANover 2-7300)
Dir.-Purch.: W. B. Machmer, Jr.
Mgr.-Purch.: J. A. Simpson
Sales Mgr.: G. T. Stribling
- ALLIED CHEMICAL CORP., NATIONAL ANILINE DIV.**
40 Rector St., New York 6, N. Y. (Tel. HANover 2-7300)
Sales: P. L. Oertel
- ALLIED CHEMICAL CORP., NITROGEN DIV.**
40 Rector St., New York 6, N. Y. (Tel. HANover 2-7300)
Purch. Agent: L. L. Nance
V. P.-Sales: M. E. Hunter RD
- ALLIED CONTROL CO., INC.**
2 E. End Ave., New York 21, N. Y. (Tel. BUtterfield 8-7403)
Purch. Agent: C. A. Jekel
Purch. Agent: Carl Holland, Plantsville, Conn. (Tel. MArket 8-9654)
Gen. Sales Mgr.: Edward Bacharik

ALLIED DECALS, INC.
20700 Miles Ave., Cleveland 28, O. (Tel. GGreen-
wood 5-1500)
Dir.-Purch.: Raymond L. Saks
V. P.-Sales: Alfred L. Matyi M

ALLIED ENGRAVING & STAMPING CO.
701 Seneca St., Buffalo 10, N. Y. (Tel. CL 3725)
Pres.: D. Kamofsky S

ALLIED INTERNATIONAL CO.
230 Park Ave., New York 17, N. Y. (Tel. MU 9-6126)
Dir.-Purch.: Ed Nemeth
Sales Mgr.: Lyman Bullard M, G, CT

ALLIED PLASTICS SUPPLY CORP.
75 Cliff St., New York 38, N. Y. (Tel. BEekman
3-7377)
Pres.-Sales: Morton B. Mavrick
V. P.-Purch.: Raymond O. Vetter M

ALLIED PRECISION PRODUCTS, INC.
600 San Christopher St., Ouedin, Fla. (Tel. 81-5311)
Pres.: B. C. Skinner
V. P.: Ben Skinner

ALLIED PRODUCTS CORP.
12677 Burt Rd., Detroit 23, Mich. (Tel. KE 2-8600)
Purch. Agent: W. H. Hetrick
Buyer: C. Murdock
Sales Engr.: W. L. Culligan M

ALLIED RESEARCH ASSOCIATES, INC.
43 Leon St., Boston 15, Mass. (Tel. GArrison 7-2434)
Purch. Mgr.: Martin Granville
Buyer: James McGuire
V. P.: Norman Buchbinder
Mgr., Development Planning: A. R. Seville
S, PS, MS, M, G, CT, TT, RD, HSE

**ALLIED RESEARCH & ENGRG., DIV.-ALLIED
RECORD MFG. CO.**
6916 Santa Monica Blvd., Hollywood 38, Calif. (Tel.
HDIllywood 2-1251)
Purch. Agent: Jack Kalk
Sales Mgr.: Bruce C. Jones S, G, RD

ALLIED RESEARCH PRODUCTS, INC.
4004 E. Manumet St., Baltimore 5, Md. (Tel.
PE 2-9970)
Purch. Agent: H. C. Quast
V. P.-Sales: J. A. Cairns
Buyers: C. J. Reilly & B. F. Monroe, Detroit, Mich.
(Tel. TU 3-0100) M

ALLIED WITAN CO. INC.
12500 Bellair Rd., Cleveland 35, O. (Tel. Wlnton
1-2800)
Purch. Agent: S. J. Gibel
Sales Mgr.: George Gibel MS, CT

ALLIES' PRODUCTS CORP.
P. O. Box 188, Kendall Branch, Miami 56, Fla. (Tel.
CEdar 5-5424)
Sales Mgr.: Miss Hazel I. Brown

ALLIS-CHALMERS
Milwaukee 1, Wisc. (Tel. SPring 4-3600)
Dir.-Purch.: K. R. Geist
Dir.-Sales: C. W. Schweers M

ALLISON DIV., GENERAL MOTORS CORP.
P. O. Box 894, Indianapolis, Ind. (Tel. CHapel
4-1511)
Purch. Agent: C. A. Osborne
Mgr., Aircraft Sales & Contracts: William O. Watson
PS, MS, M, RD

ALLISON LABS. INC.
11301 E. Ocean Ave., La Habra, Calif. (Tel. OWen
1-0115)
Chief Engr.: D. E. O'Donnell RD

ALLISON STEEL MFG. CO.
19th Ave. & SP Tracks, P. O. Box 6067, Phoenix,
Ariz. (Tel. ALpine 8-7731)
Purch. Agent: L. M. Farr
Sales Mgr.: E. J. Peake S, MS

**ALLISON-CAMPBELL DIV., AMERICAN CHAIN &
CABLE CO., INC.**
929 Connecticut Ave., Bridgeport, Conn.

ALLMETAL SCREW PRODUCTS CO., INC.
821 Stewart Ave., Garden City, L. I., N. Y. (Tel.
Planeer 1-1200)
Dir.-Purch.: P. Fishman
Purch. Agent: J. Segal
Buyer: F. Risteyn
Sales Mgr.: S. R. Marsh M

ALLOY BELLOWS INC.
18123 Roseland Rd., Cleveland 12, O. (Tel. IVanhee
6-3990)
Dir.-Purch.: J. T. Kanuch
Pres.: R. W. Pettersson M, RD

***ALLOY METALS CO.**
17621 Capital Ave., Oak Park 37, Mich.
Sales Mgr.: M. R. Gilman
(See advertisement this issue)

ALLOY PRODUCTS CORP.
1045 Perkins Ave., Waukesha, Wis. (Tel. Liberty
2-6604)
Purch. Agent: R. J. Hess
V. P.-Sales: W. J. Wachowitz, Jr. S

ALLOY STEEL PRODUCTS CO.
1300 W. Elizabeth Ave., Linden, N. J. (Tel. WAbash
5-4600)
Purch. Agent: R. Giles
Gen. Sales Mgr.: R. E. Baller, Jr. MS

ALLOYD CORP., THE
35 Cambridge Pkwy., Cambridge 42, Mass. (Tel.
UNiversity 8-6900)
Purch. Agent: Hillard Morgan
Tech. Services: Nicholas Doyle, Jr.
Controller: Cosma Cosmicio
Dir.-Sales: R. L. McCLaughlin M, RD

ALLOYS UNLIMITED INC.
21 - 09 43rd Ave., Long Island City 1, N. Y. (Tel.
SStillwell 6-4480)
Purch. Agent: Jerome Blaha
V. P.-Sales: G. S. Calemam M, RD

ALL-STATE WELDING ALLOYS CO., INC.
249 Ferris Ave., White Plains, N. Y. (Tel. WH
8-4646)
Purch. Dir.: Charles J. Olesan
Pres.: Thomas O. Nast
Gen. Sales Mgr.: Lee S. Wade M

ALL-TRONICS, INC.
45 Bond St., Westbury, N. Y. (Tel. EOGewood 3-3090)
Purch. Agent: Theodore Silvia
Sales Mgr.: Stephen E. Bullock, Jr.
Pres.: Harold P. Westman, Jr. M, CT

ALPAR MFG. CORP.
220 Demeter St., Pala Alta, Calif. (Tel. OAVenpart
4-8105)
Purch. Agent: C. R. Parmenter
Sales Mgr.: R. V. Loustrup S

ALPHA METALS, INC.
60 A Water St., Jersey City 4, N. J. (Tel. HEnderson
4-6778)
Field Mgr.: Martin A. Boyle M

ALPHA HYLKOTE CORP., THE
65 Maryland Ave., Stamford, Conn. (Tel. FI 8-3724)
V. P.-Purch.: C. E. Sanntag
Sales: David M. Noltie M

ALPHA WIRE CORP.
200 Varick St., New York 14, N. Y. (Tel. ALgonquin
5-5400)
Purch. Agent: Sheldon Ellenaff
Asst. Purch. Agent: John Gallagher
Dir.-Sales: Jack Kirschbaum
S, PS, MS, M, G, CT, TT, RD, HSE

ALPINE ELECTRONIC COMPONENTS, INC.
Walcott Rd., Waterbury, Conn. (Tel. PLaza 7-1449)
Pres.: Thomas E. Rawlinson
V. P.-Sales: Richard H. Sceery TT

ALPITEC, INC.
49 Gleason Ave., Stamford, Conn. (Tel. FIlreside
8-7788)
Pres.: P. Piter
Dir.-Sales: I. Peters S, G, CT, TT, RD

ALSO ENGRG. CORP.
Mill St., Milldale, Conn. (Tel. MArket 8-9661)
Purch. Agent: John F. Beatsan
Gen. Mgr.: Raymond F. Harland M

ALTAIR INC.
19 Hillside Ave., Terryville, Conn. (Tel. LUDlow
3-1343)
Purch. Agent: L. E. Odell
Sales Mgr.: J. J. Mancusi, Jr. S, MS, G

ALTAMIL CORP.
225 Oregon St., El Segundo, Calif. (Tel. EAstgate
2-5520)
Divisions: Tullahoma, Tenn., Martinsville &
Brazil, Ind.
V. P.-Sales: B. P. Gibbons

ALTHOR PRODUCTS
2301 Benson Ave., Brooklyn 14, N. Y. (Tel.
ESplanade 3-7444)
Purch. Agent: I. Thorn
Sales Mgr.: J. Kessler M

ALTO SCIENTIFIC CO., INC.
855 Commercial St., Pala Alta, Calif. (Tel.
OAVenpart 1-3434)

Purch. Agent: Miss V. Barrett
Gen. Mgr.-Sales: Oavid Cherry CT, RD

ALUMINIUM LIMITED SALES, INC.
630 Fifth Ave., New York 20, N. Y. (Tel. JUdsan
6-5120)
Sales Mgr.: Robert E. Young M

ALUMINUM ALLOYS CORP.
6650 W. Walton, Detroit 10, Mich. (Tel. TYler
8-5300)
V. P. & Gen. Mgr.: Stanley R. Day S, PS, MS, G

ALUMINUM CO. OF AMERICA
1501 Alcoa Bldg., Pittsburgh 19, Pa. (Tel. ATLantic
1-4545)
V. P.-Purch.: R. O. Keefer
Gen. Purch. Agent: T. O. English
Asst. Gen. Purch. Agent: L. B. Neubert
V. P.-Sales: R. B. McKee M, RD

ALVO NUT & BOLT CO. INC.
1601 Grande Vista, Los Angeles 23, Calif. (Tel.
Angelus 2-5131)
Dir.-Purch.: R. E. Miller
Purch. Agent: B. Pantel
Sales Mgr.: D. Smith

ALWAC COMPUTER, DIV.-EL-TRONICS INC.
13040 S. Cerise Ave., Hawthorne, Calif. (Tel. OR
8-5774)
Buyer: L. RUSH
Gen. Sales Mgr.: C. A. Pena CT

AMATOM ELECTRONIC HARDWARE CO. INC.
88 Orake Ave., New Rochelle, N. Y. (Tel. BEverly
5-4441)
Asst. to Pres.: R. Mazzulli
Buyer & Stack Control Ch.: C. Oamare
V. P.-Sales: N. O. Frank MS, M, CT

AMBROID CO. INC.
Box 30, Weymouth 88, Mass. (Tel. EDgewater
5-6658)
Sales & Adv. Mgr.: A. E. Laneau
V. P.-Purch.: Lee L. Blyler M

AMCEL PROPULSION INC.
Box 3049, Asheville, N. C. (Tel. ALpine 3-6464)
Gen. Accountant: Frank G. Roberts, Jr.
Contract Relations Mgr.: Henry A. Kitzelman, Jr.
PS, M, RD

AMCHEM PRODUCTS INC.
Brookside Ave., Ambler, Pa. (Tel. MITchell 6-1700)
Dir.-Purch.: E. A. Snyder
Purch. Agent: W. M. Wilson
Dir.-Mktg.: J. O. J. Shellenberger M

AMCO ENGRG. CO.
7333 W. Ainslie St., Chicago 31, Ill. (Tel. UN 7-8500)
Purch. Agent: Gary Fredericks
Sales Mgr.: Robert C. Komarek S

AMERAC INC.
Ounham Rd., Beverly, Mass. (Tel. WAlker 2-8610)
Buyer: Edward J. Bernard
Treas.: E. A. Hoggard CT, RD

AMERICAN AEROPHYSICS CORP.
6824 Brynhurst, Los Angeles 43, Calif. (Tel.
PL 3-1148)
Dir.-Purch.: Norman Singer
Purch.: Bill Blackmore
Dir.-Sales: C. B. Spratt

AMERICAN AGILE CORP.
P. O. Box 168, Bedford, O. (Tel. MD 2-6900)
Purch. Agent: V. S. Balogh
Exec. V. P. & Gen. Mgr.-Sales: C. F. Freeman
S, MS, M, RD

**AMERICAN AIR FILTER CO., DEFENSE PRODUCTS
DIV.**
310 3rd St., Rock Island, Ill. (Tel. 8-9311)
Purch. Agent: M. L. Marlaire
Buyer: H. Martin
Sales: R. Andersen MS, RD

CODING

- Structures S
- Propulsion System PS
- Missile Support MS
- Materials M
- Guidance G
- Checkout & Testing CT
- Tracking & Telemetering TT
- Research & Development RD
- Human Space Engineering HSE

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- AMERICAN ALUMINUM CO.**
230 Sheffield St., Mountinside, N. J. (Tel. ADams 3-3500)
Dir.-Purch.: E. B. Hoyden
Exec. V. P.-Sales: M. H. Klausmann M, RD
- AMERICAN BERYLLIUM CO.**
P. O. Box 3142, Sarasoto, Fla. (Tel. ELgin 5-5105)
Purch. Agent: George A. Adley M
- AMERICAN BRAKE SHOE CO.**
530 Fifth Ave., New York 36, N. Y. (Tel. DX 7-7000)
Purch. Agent: F. B. Newbert S, MS, M, RD
- AMERICAN BRAKE SHOE CO., ENGINEERED CASTING DIV.**
10 Mt. Read Blvd., Rochester 11, N. Y. (Tel. FAirview 8-1881)
Defense Prod. Mgr.: Richard A. Pinto
Sales V. P.: P. H. Clapp S, PS, MS, M, RD
- AMERICAN BRAKE SHOE CO., KELLOGG DIV.**
97 Humboldt St., Rochester 9, N. Y. (Tel. BUlter 8-2020)
Purch. Agent: D. S. Judd
Asst. V. P.-Sales: R. N. Crossley M
- AMERICAN BRASS CO., THE**
414 Meadow St., Waterbury 20, Conn. (Tel. PLaza 4-1121)
Gen. Purch. Agent: E. A. Lone
Gen. Sales Mgr.: E. B. Tracy M
- AMERICAN BRAZING ALLOYS CORP.**
P. O. Box 11, Pelham, N. Y. (Tel. MD 4-5858)
Sales Mgr.: Mike Ross M
- AMERICAN CAR & FOUNDRY DIV., ACF INDUSTRIES, INC.**
750 Third Ave., New York 17, N. Y. (Tel. YUkon 6-8600)
V. P.-Purch.: P. B. Hoyt
V. P.-Mktg.: J. E. Angst S, PS, MS, RD
- AMERICAN CHAIN & CABLE CO., INC.**
271 S. Pennsylvania St., Wilkes-Barre, Pa.
- AMERICAN CHAIN DIV., AMERICAN CHAIN & CABLE CO., INC.**
454 E. Princess St., York, Pa.
- AMERICAN CONCERTONE DIV.-AMERICAN ELECTRONICS, INC.**
9449 W. Jefferson Blvd., Culver City, Calif. (Tel. Upton 0-7245)
Purch.: Larry Styrvoky
Magnetic Tape Recorder Appl. Engr.: K. M. Williams RD
- AMERICAN CONVEYOR CO.**
2133 S. Christiano Ave., Chicago 23, Ill. (Tel. LAwndale 1-2144)
Purch. Agent: George J. Hondo
Sales Engr.: D. C. Colletti S
- AMERICAN CORO & WEBBING CO., INC.**
374 Broadway, New York 13, N. Y. (Tel. BEekman 3-2326)
Pres.: J. Krouss
V. P.-Sales: R. H. Shapiro M
- AMERICAN CYSTOSCOPE MAKERS, INC.**
8 Pelham Pkwy., Pelham Monor, N. Y. (Tel. PE 8-4800)
Purch. Agent: F. J. Scotti
Dir.-Sales: R. V. Lange
- AMERICAN DISTRICT TELEGRAPH CO.**
155 Sixth Ave., New York 13, N. Y. (Tel. AL 5-0200)
Gen. Supvr., Materials & Mfg.: C. D. Ditt
V. P.-Sales: A. E. Smith
- AMERICAN ELECTRIC CABLE CO.**
181 Appleton St., Holyoke, Mass. (Tel. JEFFerson 9-9893)
Trees.-Purch.: M. A. Feinstein
Sales Mgr.: M. McIntyre M
- AMERICAN ELECTRICAL HEATER CO.**
6110 Cass Ave., Detroit 2, Mich. (Tel. TRinity 5-2505)
Purch. Agent: Helen Wilson
Pres.-Sales: Robert A. Kuhn
- AMERICAN ELECTRONIC LABS., INC.**
121 N. Seventh St., Philadelphia 6, Pa. (Tel. WALnut 5-8780)
Head-Purch.: Seymour Kolos
Buyers: Jack Wojcik, William White
Sales Mgr.: Robert D. Freedman CT, RD
- AMERICAN ELECTRONICS, INC.**
1725 W. 6th St., Los Angeles 17, Calif. (Tel. DUNkirk 5-7401)
Mgr., Mktg. & Sales: Jack McNutt MS, G, CT, TT, RD
- AMERICAN ELECTRONICS, INCORPORATED**
9503 W. Jefferson Blvd., Culver City, Calif. (Tel. UP 0-5581)
Purch. Agent: W. Healy
Mgr., Customer Relations: Jack S. Gasoway G
- AMERICAN ELECTRONICS, INC., ELECTRIC MACHINERY & EQUIPMENT DIV.**
2112 N. Chico Ave., El Monte, Calif. (Tel. CLumberland 3-7151)
Purch. Agent: R. A. Hoehner
Asst. Purch. Agent: Al Glick
Sr. Buyer: Paul McDonough
Buyers: Sid Trowbridge & Frank O'Neil
- AMERICAN ELECTRONICS, INC., INSTRUMENT DIV.**
9503 W. Jefferson Blvd., Culver City, Calif. (Tel. TEXos 0-5581)
Buyer: William F. Heoley
Mktg. Service Adm.: Albert Izel
Mgr.-Field Engr. & Sales: Jack S. Gasoway
- AMERICAN ELECTRONICS, INC., NUCLEAR DIV.**
9459 W. Jefferson Blvd., Culver City, Calif. (Tel. UPton 0-5471)
Purch. Agent: Mary Wollin
Mktg. Mgr.: J. W. Ronflit CT, RD
- AMERICAN ELECTRONICS, INC., TALLER-COOPER DIV. & DATA SYSTEMS DIV.**
75 Front St., Brooklyn 1, N. Y. (Tel. UL 8-0500)
Purch. Agent: A. Fetting
Gen. Sales Mgr.: J. Zostro MS, G, CT, TT, RD
- AMERICAN ELITE, INC.**
48-50 34th St., Long Island City 1, N. Y. (Tel. 5711well 6-8713)
V. P.-Sales: Ben Jacobs M
- AMERICAN FELDMUEHLE CORP.**
11 W. 42nd St., New York 36, N. Y. (Tel. PE 6-9751)
Sales Engr.: M. H. Riep
Pres.: R. F. Wild
- AMERICAN FELT CO.**
11 Glenville Rd., Glenville, Conn. (Tel. JEFFerson 1-8700)
Dir.-Procure.: K. R. Peotie
Gen. Purch. Agent: G. P. McShane
Gen. Sales Mgr.: R. Power Fraser PS, MS, M, RD
- AMERICAN GAS FURNACE CO.**
140 Spring St., Elizabeth, N. J. (Tel. EL 2-2120)
Purch. Agent: W. Mitterman
Sales Mgr.: F. C. Schoefer
- AMERICAN GREASE STICK CO.**
Muskegon, Mich. (Tel. 32-101)
Purch. Agent: C. W. Smith
Asst. Purch. Agent: L. E. Petty
Sales Mgr.: Leo S. Rosen
- AMERICAN INSTITUTE FOR RESEARCH**
210 Amberson Ave., Pittsburgh 32, Pa. (Tel. MUuseum 1-3000)
Pres.: John C. Flanagan
Assoc. Dir.-Research: Harley D. Preston
Exec. Scientist: John D. Folley, Jr.
Sr. Res. Scientist: James W. Altman HSE
- AMERICAN INSTRUMENT CO., INC.**
8030 Georgia Ave., Silver Spring, Md. (Tel. JUUniper 9-1727)
Purch. Agent: T. Good
Sales Mgr.: Harry Huck
Mktg.: Stanley Dosik MS, CT
- AMERICAN INSULATOR CORP.**
New Freedom, Pa. (Tel. GLen Rock 4211)
Purch. Agent: A. L. Borner
Sales Mgr.: Barto L. Attig M
- AMERICAN LADDER & SCAFFOLD CO., INC.**
5505 N. W. 7th Ave., Miami, Fla. (Tel. PLoza 4-2663)
Pres.: Melvin Goldstein
Sales Mgr.: Ruth Brown M
- AMERICAN LAFRANCE DIV.-STERLING PRECISION CORP.**
100 E. LaFrance St., Elmiro, N. Y. (Tel. RE 4-8181)
Dir.-Purch.: F. A. Rauh
V. P.-Sales: G. J. Holpin, Sr.
- AMERICAN LATEX PRODUCTS CORP.**
3341 W. El Segundo Blvd., Hawthorne, Calif. (Tel. OSborne 6-0141)
Purch. Agent: Norman Schaub
Sales Mgr.: G. M. Schmoeller S, PS, MS, M, RD
- AMERICAN LAVA CORP.**
Chattanooga 5, Tenn. (Tel. AMhurst 5-3411)
Purch. Agent: C. R. Hughes
Sales Mgr.: E. D. Bell
- AMERICAN LEONIC MFG. CO.**
3001 Walnut St., Westinghouse Bldg., Philadelphia 4, Pa. (Tel. BA 2-4452)
Dir.-Sales: Walter C. Koenig
Exec. V. P.-Purch.: R. Blumberg M
- AMERICAN MACHINE & FOUNDRY CO.**
7501 Natchez Ave., Niles 48, Ill. (Tel. Niles 7-7000)
Purch. Mgr.: R. Van Avero
New Programs Mgr.: D. L. Arenson MS, RD, HSE
- AMERICAN MACHINE & FOUNDRY CO., GOVERNMENT PRODUCTS GROUP**
1701 K St., N. W., Washington 6, D. C. (Tel. METropolitan 8-6505); 261 Madison Ave., New York 16, N. Y. (Tel. MUrray Hill 7-3100)
Mgr.-Customer Services: J. H. Blades MS, M, CT, RD, HSE
- AMERICAN MACHINE & FOUNDRY CO., GREENWICH ENGRG. DIV.**
11 Bruce Pl., Greenwich, Conn. (Tel. NDRmondy 1-7400)
Proc. Mgr.: S. R. Bradley
Asst. Proc. Mgr.: C. Arculorius
Purch. Supvr.: W. J. Dunn
Subcontract Supvr.: F. J. Farrell
Mgr., New Programs: J. N. Albaugh, Jr. MS, TT, RD, HSE
- AMERICAN MEASUREMENT & CONTROL, INC.**
240 Colvary St., Woltham 54, Mass. (Tel. TWinbrook 4-6212)
V. P.-Purch.: A. E. McCoy
Mktg. Mgr.: K. S. Knapton MS, G, CT, RD
- AMERICAN MICROPHONE MFG. CO., DIV.-G-C TEXTRON ELECTRONICS**
400 S. Wyman St., Rockford, Ill. (Tel. WOodland 8-9661)
Purch. Agent: George Kampmeier
Buyers: Stanley Anderson & Donald Bogdanos
Sales Mgr.: Dan O'Connell
- AMERICAN MISSILE PRODUCTS CO., INC.**
15233 Greville Ave., Lawndale, Calif. (Tel. OSborne 9-1401)
Purch. Agent: Sidney S. Jordan
Buyers: Charlotte Word & Dorothy Covenough
Sales Mgr.: Ruben H. Hundley CT, TT, RD
- AMERICAN MONORAIL CO., THE**
1111 E. 200th St., Cleveland 17, Ohio (Tel. IVanhoe 6-5000)
Dir.-Purch.: J. C. Roth
V. P.-Mktg.: C. L. Fell
- AMERICAN NICKEL ALLOY MFG. CORP.**
30 Vesey St., New York, N. Y. (Tel. COrtland 7-6420)
Asst. Secy.: W. B. Lobbenberg
Secy.: Albert Sulzbach M
- AMERICAN OIL & SUPPLY CO.**
238 Wilson Ave., Newark 5, N. J. (Tel. MA 2-0250)
Purch. Agent: W. M. Hoffmann
Sales Mgr.: W. O. Hollemann M
- AMERICAN OPTICAL CO.**
461 Doughty Blvd., Inwood 96, L. I., N. Y. (Tel. CEderhurst 9-8700)
Purch. Agent: J. Bender
Dir.-Sales: Howard Korp S, MS, M, G, CT, TT, RD
- AMERICAN OPTICAL CO., INSTRUMENT DIV.**
Optical Ave., Keene, N. H. (Tel. ELMwood 2-3202)
Purch. Agent: George Howarth
Sales Mgr.: W. E. Folland
- AMERICAN OPTICAL CO., SAFETY PRODUCTS DIV.**
96 Mechnic St., Dept. 4634D, Southbridge, Mass. (Tel. POrtor 4-3211)
Dir.-Purch.: J. A. Choiniere
Buyers: R. G. Nichols & J. E. Lorson
Sales Mgr.: J. T. Monahan M, CT
- AMERICAN PAULIN SYSTEM**
1524 S. Flower St., Los Angeles 15, Calif. (Tel. RIchmond 9-0013)
Dir.-Sales: Arch F. Munter
- AMERICAN POTASH & CHEMICAL CORP.**
3000 W. Sixth St., Los Angeles 54, Calif. (Tel. DUNkirk 2-8231)
Sr. Buyer: Howard A. Bell
Gen. Sales Mgr.: William M. Clines
V. P.-Mktg.: W. J. Francis M, RD
- AMERICAN POTASH & CHEMICAL CORP., NATIONAL NORTHERN DIV.**
3000 W. 6th St., Los Angeles 54, Calif. (Tel.

OUnkirk 2-8231)
West Coast Sales Mgr.: J. C. Venita
Purch. Dept., King St., West Hanover, Mass. (Tel. TRiangle 8-4776)
Gen. Mgr.: H. W. Yeagley
Purch. Agent: Manuel Gonsaleves
East Coast Sales Mgr.: A. T. Fuller
Dir.-Purch.: T. H. Wrigley (Tel. TRiangle 8-4770)
Mgr.-Tech. Services: A. T. Fuller, Jr. (Tel. TRiangle 8-4770) PS, MS, M, RD

AMERICAN POWER JET CO.
705 Grand Ave., Ridgefield, N. J. (Tel. WH 5-8203) RD, HSE

AMERICAN PRINTED CIRCUITS CO., INC.
104 Farrest St., Metuchen, N. J. (Tel. Liberty 8-5777)
V. P.-Purch.: Mrs. Betty M. Weaver
Dir.-Sales: Howard L. Toft G, RD, HSE

AMERICAN PRODUCTS MFG. CO.
8127-33 Oleander St., New Orleans 18, La.

AMERICAN RADAR COMPONENTS INC.
415 E. Main St., Oenville, N. J. (Tel. OAKwood 7-5530)
Dir.-Purch.: Jahn P. Hundley

AMERICAN RECTIFIER CORP.
95 Lafayette St., New York 13, N. Y. (Tel. WOrth 6-3350)
Pres.: Samuel Heller, P. E.
Prod. Dept.: William Bellatti
Sales Mgr.: V. R. Goldsmith MS, CT, RD

AMERICAN RESEARCH CORP.
Rt. 6, Farmington, Conn. (Tel. ORchard 7-2693)
Dir.-Purch.: Ted Augustyn
Dir.-Sales: Jack Shamath RD

AMERICAN RESEARCH & MFG. CORP.
920 Halpine Ave., Rockville, Md. (Tel. HAzelwood 7-7116)
Purch. Agent: Robert J. Taylor
Chief, Planning & Dev.: George A. Beiser S, MS, CT, RD

AMERICAN ROCKET CO.
P. O. Box 1112, Wyandotte, Mich. (Tel. LOgan 5-3408)
Pres.: Alfred J. Zaehring

AMERICAN SCREW CO.
1680 W. Main St., Willimantic, Conn. (Tel. HArison 3-6331)
Purch. Agent: Wallace A. Smedley
Buyer: J. Grant Tuttle
Gen. Sales Mgr.: J. J. Coy

AMERICAN SILVER CO., INC.
36-07 Prince St., Flushing 54, N. Y. (Tel. FLushing 3-8012)
Purch. Agent: Mrs. N. Sullivan
Sales: M. Sherman M

AMERICAN SMELTING & REFINING CO.
120 Broadway, New York 5, N. Y. (Tel. REctor 2-9500)
V. P.-Purch.: F. H. Eichler
V. P.-Sales: S. O. Strauss M

AMERICAN SOLDER & FLUX CO.
19th & Willard Sts., Philadelphia, Pa. (Tel. BALdwin 6-1800)
Gen. Mgr.: M. H. Matz
Sales Mgr.: J. J. McBride

AMERICAN SPEEDLIGHT CORP.
63-01 Metropolitan Ave., Middle Village 79, N. Y. (Tel. EMpire 6-3000)
Purch. Agent: Pat Tagariello
Sales Mgr.: Howard Warner TT, RD

AMERICAN STANDARD INDUSTRIAL DIV.
Detroit 32, Mich. (Tel. WEbster 3-9665)
Dir.-Purch.: John J. Rich
V. P.-Mktg.: John F. Tobin
Purch. Agent: Bert Becker, Columbus 7, Ohio (Tel. HICKory 3-6561)
Buyer: Bruce Ornum (Tel. HICKory 3-6561) MS

AMERICAN STANDARD PRODUCTS, INC.
3030 Main St., Hartford, Conn. (Tel. CHapel 9-7707)
Purch. Agent: Bernard Cantar
Sales Mgr.: William B. Lindholm
Buyer: George Nelson

*AMERICAN STEEL FOUNDRIES,
HAMMOND DIV.
Hohman & Hoffman Sts., Hammond, Ind. (Tel. WEStmare 1-1900)
Purch. Agent: O. L. Koantz
Asst. Purch. Agent: Gerrit Huitsing
Buyer: Joseph Yosai

Sales Mgr.: L. L. Phelps MS
*(See advertisement in issue)

AMERICAN STEEL & WIRE DIV.-UNITED STATES STEEL CORP.
Rockefeller Bldg., 614 Superior Ave., N. W., Cleveland 13, O. (Tel. TOWER 1-2000)
Purch. Agent: R. W. Berrett
Prod. Planning & Dev. Div.-Aircraft & Missiles: H. F. Powders
V. P.-Sales: E. A. Murray

AMERICAN SUPER-TEMPERATURE WIRES, INC.
34 W. Canal St., Winooski, Vt. (Tel. UNIVERSITY 2-9636)
Purch. Agent: Charles Bellmare
Sales Mgr.: Richard O. Hoyt, 195 Nassau St., Princeton, N. J. (Tel. WALnut 4-4450) M

AMERICAN THERMO ELECTRIC CO.
1023 N. Fuller Ave., Los Angeles 46, Calif. (Tel. HOLlywood 4-1632)
Purch. Agent: A. Levy

AMERICAN TOOL CO.
205 E. Water St., Kalamazoo, Mich. (Tel. FLeside 5-6191)
Purch. Dept.: Ivan J. King & Wadsworth Bissell
Plant Mgr.: Harry J. Johnson PS

AMERICAN TRADAIR CORP.
3401 30 St., Long Island City 6, N. Y. (Tel. EMpire 1-1414)
Sales Mgr.: C. R. Beaton M, RD

AMERICAN TUBE BENDING CO., INC.
5 Lawrence St., P. O. Box 1841, New Haven 8, Conn. (Tel. STATE 7-2131)
Purch. Agent: William Ulrich
Sales Mgr.: Charles T. Navak

AMERICAN TUBING CO., INC.
2209 Chica Ave., El Monte, Calif. (Tel. CU 3-6587)
Gen. Mgr.: V. R. Powell
Sales Mgr.: C. E. Chamberlin S, PS

AMERICAN WELDING & MFG. CO., THE
534 Oietz Rd., Warren, O. (Tel. EXpress 3-2531)
Purch. Agent: C. A. Miller
Buyers: G. L. Madigan, R. E. Nelson & D. W. Parker
Sales Mgr.: Frank J. Shanaberg
Assts. to Sales Mgr.: V. H. Lake & Warren Gressle S, PS, M

B. C. AMES CO.
131 Lexington St., Waltham 54, Mass. (Tel. TWINbraak 3-0095)
Purch. Agent: B. C. Ames
Dir.-Sales: H. B. Kruse RD

AMGLO CORP.
4333 N. Ravenswood Ave., Chicago 13, Ill. (Tel. BUckingham 1-2727)
Purch.: C. M. Bobka G, CT, TT

AMOCO CHEMICALS CORP.
910 S. Michigan Ave., Chicago 80, Ill. (Tel. HArison 7-8886)
Dir.-Purch.: G. A. Pangburn
Supvr.-Propellant: E. P. Easterday PS

AMPCO METAL, INC.
1759 S. 38th St., Milwaukee 46, Wis. (Tel. MITchell 5-3750) M

AMPEREX ELECTRONIC CORP.
230 Duffy Ave., Hicksville, N. Y. (Tel. WElls 1-6200)
Purch. Agent: Arnold Fricke
Gen. Sales Mgr.: Frank Randall M

AMPERITE CO. INC.
561 Broadway, New York 12, N. Y. (Tel. CANal 6-1446)
Gen. Mgr.: S. Ruttenberg
Asst. Mgr.: T. Whalen
Sales: E. Repetti

AMPEX DATA PRODUCTS CO.
934 Charter St., Redwood City, Calif. (Tel. EMerson 9-7111)
Purch. Agent: James Walsh
Assistants: Frank Masi & Dave Viergiver
Mgr.-Mktg., Computer Products Div.: Russell Dubois
Mgr.-Mktg., Instrumentation Prod. Div.: Gene Rogers MS, CT, TT, RD, HSE

AMPEX MAGNETIC TAPE PRODUCTS
P. O. Box 190, Opelika, Ala. (Tel. SHerwood 5-7643)
Purch. Agent: Thad McEachin
Mktg. Mgr.: J. Reynolds Carey

AMPHENOL CABLE & WIRE DIV., AMPHENOL-BORG ELECTRONICS CORP.
S. Harlem Ave., at 63rd St., Chicago 38, Ill. (Tel. Blshap 2-1000)
Purch. Agent: Arthur B. Geiger
Sales Mgr.: Robert W. Felber

AMPHENOL WESTERN DIV., AMPHENOL-BORG ELECTRONICS CORP.
9201 Independence Ave., Chatsworth, Calif. (Tel. DIamond 1-0710)
Buyer: Robert Brady
District Sales Mgr.: John Kays

AMPHENOL-BORG ELECTRONICS CORP.
1830 S. 54th Ave., Chicago 50, Ill. (Tel. Blshap 2-1000)
Purch. Mgr.: John B. Leahy
Sales Mgr.: Herbert F. Matz S, PS, MS, G

AMPLEX DIV.-CHRYSLER CORP.
P. O. Box 2718, Oetroit 31, Mich. (Tel. WALnut 1-6733)
Sales Mgr.: W. L. Martin

AMTHOR TESTING INSTRUMENT CO., INC.
45 Van Sinderen Ave., Brooklyn 7, N. Y. (Tel. OICKens 6-8841)
Sales Mgr.: Al Littmann M

ANACHROME DIV., ANADITE, INC.
10647 S. Garfield Ave., South Gate, Calif. (Tel. SPRuce 3-4140)
Dir.-Sales: Ran Cunningham

ANACONDA METAL HOSE DIV., THE AMERICAN BRASS CO.
698 S. Main St., Waterbury 20, Conn. (Tel. PLaza 4-1121)
Sales Mgr.: W. B. Hammond
Div. Purch. Agent: W. S. Edwards MS

ANACONDA WIRE & CABLE CO.
25 Broodway, New York 4, N. Y. (Tel. HANaver 2-6300)
Gen. Purch. Agent: W. I. Westlake
V. P.-Mktg. & Sales: J. L. Tindale
Mgr.-Sales, Govt. Agencies: W. T. Smith M, RD

ANADITE INC.
10630 Sessler St., South Gate, Calif. (Tel. SPRuce 3-4210)
Purch. Agent: Clarence Edwards
Dir.-Sales: Ran Cunningham

ANAHEIM ELECTRONICS DIV., ELECTRONIC ENGRG. CO. OF CALIF.
1601 E. Chestnut St., Santa Ana, Calif. (Tel. KI 7-5501)
Purch. Agent: Arthur Harman
Div. Mgr.: R. T. Arnold
Sales Mgr.: W. R. McQuistan MS, CT, RD

ANALOGUE CONTROLS, INC.
200 Frank Rd., Hicksville, N. Y. (Tel. OVerbraak 1-7300)
Dir.-Purch.: Abe Barbanel
Sales Mgr.: Jerome E. Levine MS, G, TT, RD

ANALYTICAL INSTRUMENTS, INC.
R. F. D. 2, Cedar Lake, Bristol, Conn. (Tel. BRistol, LUDlow 2-6941)
Pres.: James G. McClure

ANALYTICAL MEASUREMENTS, INC.
585 Main St., Chatham, N. J. (Tel. MErcury 5-7474)
Pres.: Frank G. Pauly CT

ANCHOR COUPLING CO. INC.
342 N. Fourth St., Libertyville, Ill. (Tel. EMpire 2-1360)
Sales Mgr.: J. O. Luebkehan

ANCHOR FENCE DIV.-ANCHOR POST PRODUCTS, INC.
6500 Eastern Ave., Baltimore 24, Md. (Tel. MEdard 3-6500)
Purch. Agent: G. Wist
V. P.-Prod.: J. C. Case
V. P.-Sales: R. R. Brannan

ANCHOR METAL CO. INC.
966 Meeker Ave., Brooklyn, N. Y. (Tel. ST 2-7090)

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

purchasing directory anc—atl

Purch.: Walter R. Cole, Edwin Kent
Sales: H. Drapkin

ANCHOR METAL SPINNING CO., THE
 46 Fihart Ave., Dayton 8, D. (Tel. Baldwin 8-2107)
Purch. Agent: M. Robertson
Engr.: A. Saldoff
Sales Mgr.: William Semmelman S, MS, RD

ANCHOR PACKING CO., THE
 401 N. Broad St., Philadelphia 8, Pa. (Tel. Walnut 2-1343)
Secy.-Treas.: J. H. Mastan
Gen. Sales Mgr.: B. B. Reagan (Tel. Harrison 7-5432, Chicago) M

ANCHOR PLASTICS CO., INC.
 36-36 36th St., Long Island City 6, N. Y. (Tel. Ravenswood 9-1494)
Pres. & Sales Mgr.: R. A. Fisch M

ANCHOR SPECIALTY MFG. CO. INC.
 300 Hollister Rd., Teterboro, N. J. (Tel. AT 8-1939)
Purch.: Wm. Zablocky RD

ANDERSEN LABS. INC.
 501 New Park Ave., West Hartford 10, Conn. (Tel. Adams 6-1281)
Purch. Agent: Dan Chase
Asst. Gen. Mgr.: H. W. Stewart RD

ANDERSON AIRCRAFT CO.
 Spring St., North Dighton, Mass. (Tel. Van Dyke 4-8611)
Purch. Agent: Robert H. Leeming
Dir.-Sales: Albert Gramm S

ANDERSON CHEMICAL CO., DIV.-STAUFFER CHEMICAL CO.
 Weston, Mich. (Tel. Geneva 6-2322)
Purch. Agent: G. D. Sharpe
Dir.-Sales: H. G. Deters M, RD

ANDERSON, GREENWOOD & CO.
 5425 Rice Ave., Houston 36, Texas (Tel. Madison 3-2343)
Purch. Agent: C. J. Scollan (Tel. Madison 3-8956)
Sales Mgr.: W. W. Hering PS, MS, CT, RD

ANDERSON DIL & CHEMICAL CO., INC.
 P. D. Box 111, Portland, Conn. (Tel. Diamond 7-2555)
Purch. Agent: Mrs. H. M. McLean
Gen. Mgr.-Sales: T. M. Purtell M

***ANDREW CORP.**
 363 E. 75th St., Chicago 19, Ill. (Tel. Triangle 4-4400)
Purch. Agent: John Carnyn
Sales Mgr.: C. Robert Lane G, TT, RD
 *(See advertisement this issue)

***ANNIN CO., THE**
 1040 S. Vail Ave., Mantebello, Calif. (Tel. Raymond 3-9351)
Purch. Agent: H. A. Jacobs
Sales Mgr.: N. C. Earle, Jr.
 *(See advertisement this issue)

R. B. ANNIS CO.
 1101 N. Delaware St., Indianapolis 2, Ind. (Tel. ME 5-2838)
Purch. Agent: R. K. Caskey
Dir.-Sales: R. B. Annis G

***ANOCUT ENGRG. CO.**
 631 W. Washington St., Chicago 6, Ill.
 *(See advertisement this issue)

ARTHUR ANSLEY MFG. CO.
 New Hope, Pa. (Tel. AXtel 7-2711)
Purch. Agent: Arthur C. Ansley MS, G, CT, TT

ANSONIA WIRE & CABLE CO., THE
 111 Martin St., Ashton, R. I. (Tel. Pawtucket 6-6300)
Purch. Agent: Roland C. Genereux
V. P.-Inds. Sales: John L. Marsh
V. P.-Govt. & Telephone Sales: Tilden E. Thompson S, MS, M, CT, TT

ANSUL CHEMICAL CO.
 1 Stanton St., Marinette, Wisc. (Tel. Redwood 5-7411)
Tech. Dir.: A. B. Gu se M

ANTARA CHEMICALS, DIV.-GENERAL ANILINE & FILM CDRP.
 435 Hudson St., New York 14, N. Y. (Tel. WAtkins 4-0600)
Mgr.-Purch.: S. Colman
Sales Mgr.: J. M. Cloney M

ANTENNA SPECIALISTS CO., THE
 12435 Euclid Ave., Cleveland 6, D. (Tel. Sweetbriar 1-7878)
Purch. Agent: J. G. Freeh
Pres.: M. Friedberg

ANTI-CORROSIIVE METAL PRODUCTS CO., INC.
 P. D. Box 1894, Albany, N. Y. (Tel. PErshing 2-7711)
V. P.-Purch.: Frank Legnard
Pres.: B. T. Brennan M

ANTLAB INC.
 6330 Proprietors Rd., Warthington, D. (Tel. TUxeda 5-5396)
Purch. Agent: Kenneth L. Riggle
Buyers: Ddell H. Wellman & L. E. Dunbar
Pres.: Marris M. Robison S, TT

ANTON ELECTRONIC LABS., INC.
 1226 Flushing Ave., Brooklyn 37, N. Y. (Tel. EVergreen 6-5715)
Purch. Agent: Bernard Nevolett
Dir.-Sales: George Weinman

APAHDUSER CORP. OF N. E.
 1312 Boylston St., Boston 15, Mass. (Tel. KE 6-1223)
Purch. Agent: D. A. Ramler
Buyer: J. Berler
Sales Mgr.: Fred Gately S, TT

APEX MACHINE CO.
 14-13 118th St., College Point 56, N. Y. (Tel. FL 8-2010)
Sales Mgr.: A. Robert Coningsby, Jr.

APEX MACHINE & TOOL CO., THE
 P. D. Box 952, Dayton 1, D. (Tel. Baldwin 2-7871)
Purch. Agent: Elwood Meyer
Dir.-Sales: C. A. Lange S, MS

APEX REINFORCED PLASTICS, DIV.-WHITE SEWING MACHINE CORP.
 Washington & Elm Sts., Cleveland 13, D. (Tel. CHerry 1-7834)
Purch. Agent: John Clynne
Dir.-Research & Sales: William Patterson PS, MS, RD

APEX TDDL CO., INC., THE
 325 Cherry St., Bridgeport 5, Conn. (Tel. ED 4-6121)
Pres.: A. W. Anderson
Engr.: R. J. Burandt

APPLIED DESIGN CO.
 2465 Sheridan Dr., Tanawanda (Buffalo), N. Y. (Tel. ATwater 9000)
Purch. Agent: D. J. Stanish
V. P.-Contracts: H. E. Hill S, MS, M, RD

APPLIED DYNAMICS CORP.
 330 Bear Hill Rd., Waltham 54, Mass. (Tel. TWInbrook 4-7010)
V. P.-Purch.: R. G. Ahlquist
Sales Mgr.: B. J. Warren MS, CT

APPLIED ELECTRONICS CORP. DF N. J.
 22 Center St., Metuchen, N. J. (Tel. Liberty 9-1500)
Purch. Agent: Henry Setzer
Sales Mgr.: Taft Russell G, CT, TT, RD

APPLIED PHYSICS CORP.
 2724 S. Peck Rd., Manrovia, Calif. (Tel. Hillcrest 6-7181)
Mgr.-Material: Scott Metcalf
Dir.-Sales: Robert W. Maulton RD

APPLIED RADIATION CORP.
 2404 N. Main St., Walnut Creek, Calif. (Tel. YEllowstone 5-2250)
Purch. Agent: Howard D. Layson
Dir.-Sales: S. A. Wenk CT, RD

APPLIED RESEARCH INC.
 76 S. Bayles Ave., Part Washington, N. Y. (Tel. PDrt Washington 7-8707)
Buyer: Ruth Seiter
Secy.-Treas.: N. M. Poulos MS, G, RD

APPLIED RESEARCH LABS., INC.
 3717 Park Place, Glendale, Calif. (Tel. Chapman 5-5524)
Material Mgr.: J. D. McKim (Tel. CHurchill 9-6193)
Buyers: James Reddy & Donald Minan (Tel. CHurchill 9-6193)
Gen. Sales Mgr.: William E. Davis CT, RD

ARBEKA WEBBING CO.
 1135 Roosevelt Ave., Pawtucket, R. I. (Tel. PA 6-5600)
V. P. & Gen. Mgr.: W. D. Cuthbertson, Jr. M

ARCAIR CO.
 P. O. Box 431, Lancaster, Ohio (Tel. DLive 3-5618)

Office Mgr.: John Gaskins
Purch. Dept.: Pat Sullivan
Sales Mgr.: E. J. Lehmkuhl

ARCH GEAR WORKS INC.
 97 Halmes St., North Quincy, Mass. (Tel. GR 1-9600) and 4336 E. 10th Court, Hialeah, Fla. (Tel. MUrray 8-2528)
Purch. Agent, Quincy: R. M. Allen
Purch. Agent, Hialeah: A. E. Carroll
Sales Mgr.: R. W. Gray (Tel. Cedar 5-5296)

ARCO CO., THE
 7301 Bessemer Ave., Cleveland 27, D. (Tel. Michigan 1-1170)
Purch. Agent: Lon Esther
Asst. Purch. Agent: George Ditta
Sales Mgr.-Maintenance Sales: L. G. Dlds
Sales Mgr.-Prod. Finishes: John French
Sales Mgr.-Structural Coatings: Dan G. Kloss M

ARDE-PORTLAND, INC.
 75 Austin St., Newark 2, N. J. (Tel. Bigelow 8-8500)
Dir.-Purch.: Joseph Price
Dir.-Sales: Grady McKeen PS, RD

ARDMORE PRODUCTS DIV., AMCO CORP.
 1825 Shermer Rd., Northbrook, Ill. (Tel. CR 2-5000)
Operations Mgr.: Harold Cawley
Buyer: Joseph Kelly
Gen. Mgr.: E. J. Dayle, Jr. MS

ARENBERG ULTRASONIC LAB., INC.
 94 Green St., Jamaica Plain 30, Mass. (Tel. JA 2-8640)
Pres.: David L. Arenberg RD

ARENS CONTROLS, INC.
 2017 Greenleaf St., Evanston, Ill. (Tel. DAVIS 8-4700)
Purch. Agent: Fred W. Green
Sales: William Buschart

ARIES LABORATORIES, INC.
 225 Greenwich Ave., Stamford, Conn. (Tel. RAvenswood 9-9001)
Purch. Agent: H. Grisar
Sales Mgr.: W. Stern M, RD

ARISTOCRAT PLASTICS, INC.
 23-25 Sussex Ave., Newark, N. J. (Tel. Mitchell 3-6110)
Pres.: Arthur Meier

ARKAY ENGRG., INC.
 1630 Euclid St., Santa Monica, Calif. (Tel. EXbrook 3-6959)
Chief Engr.: K. M. Rehler CT, RD

ARKWIN INDUSTRIES, INC.
 648 Main St., Westbury, L. I., N. Y. (Tel. EDgewood 3-2640)
Purch. Agent: Hank Bauer
Contracts Admin.: Arnold Lowell
Sales Mgr.: Louis J. Smith S, PS, MS, G, RD

ARMA DIV., AMERICAN BOSCH ARMA CDRP.
 Roosevelt Field, Hempstead, N. Y. (Tel. Planeeer 2-2000)
Mgr.-Procurement: J. L. Krause
Corporate Dir.-Purch.: W. M. Maughan

ARMAMENT DIV., UNIVERSAL MATCH CORP.
 472 Paul Ave., St. Louis 35, Mo. (Tel. JACKson 2-1620)
Dir.-Purch.: J. M. Darrow
Asst. Purch. Agent: John Wright
Sr. Buyer: R. D. Hays
Dir., Armament Div.: Walter Funk, Jr. MS, G, CT, RD, HSE

ARMATT, INC.
 237 Oak St., P. D. Box 204, Glastanbury, Conn. (Tel. ME 3-9429)
V. P.-Purch.: Armand E. Lemieux
Pres.: Matthew F. Wilkas
Dir.-Sales: Charles Darling RD

ARMO STEEL CORP.
 703 Curtis St., Middletown, D. (Tel. GArden 2-2711)
Purch.: J. S. Thomas
Sales: W. B. Quoil

ARMEL ELECTRONICS, INC.
 840 Fifth Ave., Brooklyn 32, N. Y. (Tel. STerling 8-0422)
Purch. Agent: A. K. Niemi
Sales Mgr.: D. J. Gustafson MS, G, CT, TT, RD

ARMUDUR ALLIANCE INDUSTRIES
 16123 Armour St., N. E., Alliance, D. (Tel. TALbat 1-3510)
Purch. Agent: H. M. Wilson, Jr.
Gen. Sales Mgr., Coated Abrasives Div.: R. L. Heiniger
Gen. Sales Mgr., Cushioning Prod. Div.: J. E.

Krousfeld
Gen. Sales Mgr., Indsl. Adhesives Div.: W. K. Rich M

ARMOUR INDUSTRIAL CHEMICAL CO.
110 N. Wacker Dr., Chicago 6, Ill. (Tel. ANdover 9-5200)
Purch. Mgr.: Al Morvin
Dir.-Sales: B. W. Groham M, RD

ARMSTRONG-BLUM MFG. CO.
5700 W. Bloomingdale Ave., Chicago 39, Ill. (Tel. MErrimac 7-4000)
Purch. Agent: Francis A. Blum
Sales Mgr.: G. M. Hess

ARMSTRONG CORK CO.
W. Liberty St., Lancaster, Pa. (Tel. EXpress 7-0611)
Gen. Purch. Agent: M. L. Lompe
Asst. Gen. Purch. Agent: W. A. Abel
Gen. Sales Mgr.: W. B. Tucker M

ARMSTRONG PRODUCTS CO.
P. O. Box I-MG, Worsow, Ind. (Tel. AMherst 7-3226)
Mgr.: F. E. Harrison M

ARNAY AIRCRAFT ASSOCIATES, INC.
32 Industrial Ave., Little Ferry, N. J. (Tel. HUbbard 9-8600)
V. P.-Purch.: M. A. Murray
Sales Mgr.: J. M. Muckikoff
Mgr., West Coast Plant: H. Oeets, 121 Main St., El Segundo, Calif. (Tel. EAstgate 2-4433) PS, MS

ARNO ADHESIVE TAPES, INC.
U. S. 20 at Ohio St., Michigan City, Ind. (Tel. TRIangle 4-3235)
Purch. Agent: R. L. Scholl
Sales Mgr.: O. W. Burke M

ARNOLD ENGRG. CO., THE
P. O. Box G, Morengo, Ill. (Tel. CHicago ANdover 3-6300; Morengo JORdon 8-7251)
Purch. Agent: R. L. Pottinger
Buyer: J. Stroin
V. P.-Sales: Benjamin Folk M

ARNOLD MAGNETICS CORP.
6050 W. Jefferson Blvd., Los Angeles 16, Calif. (Tel. VE 7-5313)
Buyer: Irene Bertini
Dir.-Sales: Jock Botte

ARNOLT CORP.
Worsow, Ind. (Tel. AMhurst 7-7111)
Dir.-Purch.: Roger H. Oovis
Purch. Agent: Carl O. Schultz
V. P.-Military Liaison: H. M. Henderson

***ARNOUX CORP.**
11924 W. Washington Blvd., Los Angeles 66, Calif. (Tel. UPlon 6-5371)
Purch. Agent: George Pesner
Asst. Purch. Agents: Conrad Ooert & Roy Colbem
Dir.-Mktg.: Michael Dodak MS, G, CT, TT, RD
*(See advertisement this issue)

ARO EQUIPMENT CORP., THE
Enterprise & Trevitt Sts., Bryon, Ohio (Tel. 6-1161)
Purch. Supvr.: Ovid Nixon
Buyers: Gail Smith & C. E. De Groff
Contracts Admin.: A. Austin MS, CT, RD, HSE

ARO, INC.
Arnold Air Force Sta., Tenn. (Tel. GL 5-2611)
Mgr.-Procurement: J. G. Crigler
Asst. Mgr.-Procurement: Charles M. Solomon RD

ARO-FIREWEL CO. INC., SUB.-THE ARO EQUIP. CORP.
3695 Broadway, Buffalo 25, N. Y. (Tel. REgent 0440)
Purch. Agent: Robert Soltzman
Buyer: Stanley Mozurkiewicz
Buyer-Expediter: Donald Flynn
V. P.-Aviation Sales: John G. Goodell RD, HSE

ARONSON MACHINE CO., INC.
Box 307, W. Main St., Arcode, N. Y. (Tel. 276)
Purch. Agent: Theodore Stokoylo
Buyer: George Korcones
Gen. Sales Mgr.: Charles W. Oempsey MS

ARRO EXPANSION BOLT CO.
Box 388, Morion, Ohio (Tel. OU 3-1154)
Purch. Agent: Roy W. Coy
Sales Mgr.: John J. Ougon S

ARROW TOOL CO. INC.
36 Mill St., Wethersfield, Conn. (Tel. JACkson 9-2507)
V. P.-Purch.: Ovid Dewhurst
Buyer: Joseph Burgess
Sales Mgr.: Robert E. Wolsh MS, G, RD

ARROW-HART & HEGEMAN ELECTRIC CO., THE
103 Howthorn St., Hartford 6, Conn. (Tel. CHopel 9-8471)

Purch. Agent: N. P. Belcourt
V. P.-Sales: F. L. Mothes

ARROWHEAD PRODUCTS, DIV.-FEDERAL-MOGUL-BOWER BEARINGS, INC.
2300 Curry St., Box 1890, Long Beach 1, Calif. (Tel. NEvada 6-0571)
Purch. Agent: Charles Smith
Sales: Arnold J. Dovey S, MS, RD, HSE

ART SPECIALTY CO.
3720 N. Milwaukee Ave., Chicago, Ill. (Tel. KIlmore 5-6607)
Purch. & Sales: Robert Notenberg

ART WIRE & STAMPING CO.
227 High St., Newark 2, N. J. (Tel. HUmiboldt 4-2100)
Purch. Agent: Fred Riedmuller
Sales: Nils Johnson M

ARTISAN ELECTRONICS CORP.
171 Ridgedole Ave., Morristown, N. J. (Tel. JEFFerson 8-8500)
V. P.-Purch.: Sheldon Mosser
Sales Mgr.: Oniel Orench

ARTISAN METAL WORKS CO.
11400 Madison Ave., Cleveland 2, Ohio (Tel. LAKewood 1-6173)
Purch. Agent: W. O. Ford
Chief Estimator: P. Siliko
Pres.: D. A. MacRithdie

ARTRA ALUMINUM FOUNDRY & MFG. CO. INC.
202 Transit St., St. Charles, Mo. (Tel. RANdolph 4-1885)
Purch. Agent: Thomas Everts
Sales Engr.: William J. Becker M

ARWOOD CORP.
321 W. 44th St., New York 36, N. Y. (Tel. JUdson 2-4210)
Purch. Agent: F. W. Wocker
V. P.-Sales: William O. Sweeny S, PS, MS, G

ASHVILLE-SCHOONMAKER MICA CO.
271 Church St., New York 13, N. Y. (Tel. WOrth 6-4550)
Purch. Agent: Joseph E. Sesny
Dir.-Sales: J. Fuller Brown

ASHLAND OIL & REFINING CO.
1409 Winchester Ave., Ashland Ky. (Tel. EAst 4-1111)
Dir.-Purch.: J. K. Borron
Purch.: J. S. Honnoh, O. T. Ounn, Wilburn Coskey
V. P.-Sales: F. M. Moffitt

***ASKANIA-WERKE, U. S. BRANCH OFFICE**
4913 Cordell Ave., Bethesda, Md. (Tel. OLiver 4-6060)
Mgr.: Dr. Juergen Witthoef TT
*(See advertisement this issue)

ASSEMBLY PRODUCTS, INC.
Wilson Mills Rd., Chesterland, O. (Tel. HAmilton 3-3131)
Purch. Agent: Robert Foltz
V. P.-Sales: Robert H. Pugsley CT

ASSOCIATED AMERICAN WINDING MACHINERY INC.
750 St. Ann's Ave., New York 56, N. Y. (Tel. CYpress 2-5050)
Chief Purch. Agent: B. Hommeron
Sales Mgr.: G. B. Franklin

ASSOCIATED CO., INC.
1441 S. McLeón Blvd., Wichita 13, Kans. (Tel. HO 4-6379)
Purch. Agent: E. B. Long
Exec. V. P.-Sales: W. W. Grisomere S, MS

ASSOCIATED CONTROL EQUIPMENT, INC.
853 4th Ave., Coropolis, Pa. (Tel. AMherst 4-8161)
Pres.: C. A. Oilly

ASSOCIATED ENGRG. CORP.
65 Kent St., Brookline 46, Mass. (Tel. ASpinvoll 7-4664)
Purch. Agent: L. R. Oemorkles
Dir.-Sales: F. K. Chin M

ASSOCIATED ENGRG. & MFG. CORP.
210 M Stone House Rd., Glen Ridge, N. J. (Tel. PIlgrim 3-8899)
Dir.-Purch.: V. B. Fox
Mgr.: Frank Rhodes M

ASSOCIATED ENGINEERS, INC.
P. O. Box 1628, Springfield, Mass. (Tel. RE 4-6431)
Purch. Agent: A. E. Choflin
Buyers: Harold Quigley, Lou Gelineau & Joe Kone
V. P.-Sales: John Floskomper S, MS, G, CT, RD

ASSOCIATED GASKETS, INC.
P. O. Box 898, Riporian St., Bridgeport 1, Conn. (Tel. FOrrest 6-4318)
V. P.-Purch.: Julian J. Kliolz
Sales Mgr.: John T. Honusovsky

ASSOCIATED RESEARCH, INC.
3789 W. Belmont Ave., Chicago 18, Ill. (Tel. CORnelio 7-4040)
Purch. Agent: J. W. Bente
V. P.-Sales: Richard W. Inman CT

ASSOCIATED SPECIALTIES CO.
1751 Main St., Orefield, Pa. (Tel. EX 5-1275)
Purch. Agent: G. L. Allerton
Sales Mgr.: V. Loudensloger CT

ASSOCIATED SPRING CORP., OHIO DIV.
1825 E. First St., Ooyton 3, Ohio (Tel. CLearwater 3-5135)
Purch. Agent: Roymond C. Chenoweth
Sales Mgr.: John B. Barr

ASSOCIATED SUPPLIERS CO.
2425 Son Fomondo Rd., Los Angeles 65, Calif. M

ASSOCIATED TECHNICAL SALES CO.
3629 N. Dixie Dr., Ooyton 14, Ohio (Tel. CR 5-7441)
Dir.-Sales: Gerold A. Greene M

***ASSOCIATED TESTING LABS., INC.**
135 Clinton Rd., Coldwell, N. J. (Tel. CApital 6-7407)
Purch. Agent: Charles Guerniere
Dir.-Engrg.: William Tonkowich
Chief Product Engr.: John W. Fricke
Sales Mgr.-Engrg.: Bemod Novock MS, CT, HSE
*(See advertisement this issue)

ASTRA TECH
P. O. Box 988, 3014 S. Hollodoy St., Sonto Ana, Calif. (Tel. KImberly 5-9477)
Dir.-Purch.: Ston Studebaker
Prod. Mgr.: Rolph Martin
Sales Mgr.: Jock Prebst MS, CT, RD

ASTRAVAC CORP.
1011-O Industrial Way, Burlingome, Calif. (Tel. OLomond 2-6048)
Pres.: P. A. Peller
Secy.-Treas.: M. B. Stern

***ASTRO-ELECTRONIC PRODUCTS DIV., RADIO CORP. OF AMERICA**
P. O. Box 800, Princeton, N. J. (Tel. WAInut 4-2700)
Purch. Agent: H. W. Hutchinson
Mgr.-Mktg.: Borton Kreuzer TT, RD, HSE
*(See advertisement this issue)

ASTRON CORP.
255 Grant Ave., East Newark, N. J. (Tel. HUmiboldt 2-7800)
Purch. Agent: George M. Sexton
Gen. Sales Mgr.: Irving I. Ser

RAYMOND ATCHLEY, INC.
2339 Cotner Ave., Los Angeles 64, Calif. (Tel. GR 9-8626)
Purch. Agent: Jack Syrus
Pres.: Roymond Atchley
Sales Mgr.: Jock Pegrom RD

ATKINS & MERRILL, INC.
Boston Post Rd., South Sudbury, Mass. (Tel. HIllope 3-8822)
Purch. Agent: Robert Johnson
Buyer: Lee Goodbor
Dir.-Model Sales: Donald L. Atkins
Dir.-Reinforced Plastics Sales: Arthur V. Boyce S, HSE

ATKOMATIC VALVE CO., INC.
545 W. Abbott St., Indianapolis 25, Ind. (Tel. MELrose 8-6545)
Treas.: Robert A. Morris
Sales Mgr.: Mark W. Lowe PS, MS, M

ATLANTIC METAL HOSE CO., INC.
308 Dyckmon St., New York City 34, N. Y. (Tel. LORroine 9-5400)
Purch. Agent: Ovid M. Fuchs
V. P.-Sales: Edwin W. Oriedger M, CT

CODING
Structures P
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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- ATLANTIC RESEARCH CORP.**
Shirley Hwy. at Edsall Rd., Alexandria, Va. (Tel. FLEerwood 4-3400)
Purch. Agent: Wilbur H. Smith
Purch. Agent-Subcontracts: Nigel Harlan
Mgr.-Development: Philip K. Reilly PS, M, RD
- ATLAS BRASS FOUNDRY**
1901 Santa Fe Ave., Los Angeles 21, Calif. (Tel. MAdison 7-6695)
Secy.: K. A. Johnston
Pres.: R. F. Treuer
- ATLAS COIL INC.**
63 Main St., Ansonia, Conn. (Tel. RE 5-4628)
Purch. Agent: Harold Kaye
- ATLAS DROP FORGE CO.**
209 W. Mr. Hope Ave., Lansing 4, Mich. (Tel. IV 4-5341)
Purch. Agent: A. D. Peterson
Sales Mgr.: F. Holland M
- ATLAS ENGRG. CO. INC.**
176 Blue Hill Ave., Roxbury, Mass. (Tel. Hlghlands 5-7100)
Purch. Agent: John Ward
Sales Mgr.: Marshall Karesky MS, M, G, RD
- ATLAS ENGRG. CORP.**
26 Custer St., West Hartford 10, Conn. (Tel. CHapel 6-5651)
Pres.: R. C. Biggers
- ATLAS INDUSTRIAL CORP.**
849 39th St., Brooklyn 32, N. Y. (Tel. GE 5-5520)
Pres.: J. P. Reinhardt
- ATLAS PRECISION PRODUCTS CO.**
3801 Castor Ave., Philadelphia 24, Pa. (Tel. JEFFerson 5-3700)
Purch. Agent: Robert States
Buyers: D. Wynkoop & E. Mingen
Gen. Sales Mgr.: James Kenny G, CT, TT
- ATLAS SCREW & SPECIALTY CO.**
450 Broome St., New York 13, N. Y. (Tel. NDRth 6-0600)
Purch. Agent: Irwin Koplan, 396 Jelliff Ave., Newark, N. J. (Tel. Blgelow 8-3000)
V. P.-Sales: V. J. Merz
- ATLAS SOUND CORP.**
1449 39th St., Brooklyn 18, N. Y. (Tel. GEdney 8-5500)
Purch. Agent: C. R. Blumenthal
Asst. Purch. Agent: J. Wansbury
Sales Mgr.: R. C. Reinhardt
- ATLAS TACK CORP.**
Fairhaven, Mass. (Tel. New Bedford, WY 7-9491)
Dir.-Purch.: J. A. McCarthy
Sales Mgr.: H. S. Callahan M
- ATLEE CORP.**
47 Prospect St., Woburn, Mass. (Tel. WElls 3-5390)
Purch. Agent: Robert A. Joyce
Dir.-Mktg.: Dan E. Baker
- ATTLEBORO REFINING CO., INC.**
142 Union St., Attleboro, Mass. (Tel. CAsTle 2-3705)
V. P.-Purch.: Edward F. Towle
V. P.-Sales: John H. Quebman M
- AUBURN MFG. CO., THE**
Stack St., Middletown, Conn. (Tel. DIamond 6-6631)
Purch. Agent & Sales Mgr.: M. B. Weiner M
- AUBURN SPARK PLUG CO., INC.**
89 York St., Auburn, N. Y. (Tel. 2-9501)
V. P.-Purch.: A. R. Nolin
Supt.: Leo Bates
Sales Mgr.: A. W. DeChard PS
- AUDID DEVICES, INC.**
444 Madison Ave., New York 22, N. Y. (Tel. PLaza 1-6640)
Purch. Agent: Ellis Mays
V. P.-Sales: Bryce Haynes TT
- AUDID INSTRUMENT CO., INC.**
135 W. 14th St., New York 11, N. Y. (Tel. DRagon 5-7820)
Sales Mgr.: C. J. LeBel
- AUDIO-MASTER CORP.**
17 E. 45th St., New York 17, N. Y. (Tel. OXFord 7-0725)
Purch.: Herbert Rosen
- AUGAT BROTHERS, INC.**
33 Perry Ave., Attleboro, Mass. (Tel. 1-2202)
- Purch. Agent: Raymond Piette
Sales: Robert S. Laurence MS
- AUSTENAL CO., DIV.-HOWE SOUND CO.**
224 E. 39th St., New York 16, N. Y. (Tel. DXford 7-5656)
Dir.-Purch.: Anne D. Repko
Sales Mgr.: R. L. Wiseman PS
- AUSTENAL CO., DIV.-HOWE SOUND CO., MICRCAST PRODUCTS**
224 E. 39th St., New York 16, N. Y. (Tel. DXford 7-5656)
Dir.-Purch.: Ann D. Repko
V. P.-Sales: Robert L. Wiseman S, PS, MS
- AUSTIN-WESTERN, CONSTR. EQUIP. DIV.-BALDWIN-LIMA-HAMILTON CORP.**
601 N. Farnsworth Ave., Aurora, Ill. (Tel. 7-8753)
Dir.-Purch.: J. D. McMakin
Asst. Gen. Mgr.-Sales: H. P. Lockhart MS
- AUTO SPECIALTIES MFG. CO., INC.**
St. Joseph, Mich. (Tel. YUkon 3-2521)
Dir.-Procurement: E. Millhouse
Asst. Dir.-Procurement: C. Miller
Chief Buyer: K. Bingham
Mgr.-Mil. Contracts: Harry A. Harter PS, MS
- AUTD-CONTROL LABS., INC.**
333 S. Hindry Ave., Inglewood 1, Calif. (Tel. ORegon 8-4934)
Purch. Agent: John Elledge
Sales Mgr.: John M. Buchwitz MS, CT
- AUTOMATIC ELECTRIC SALES CORP.**
Northlake, Ill. (Tel. Fllmore 5-7111)
Gen. Purch. Agent: W. S. Cadwell
Pres.: D. H. Deover M
- AUTOMATIC RADIO MFG. CO., INC.**
122 Brookline Ave., Boston, Mass. (Tel. CD 6-1420)
Dir.-Purch.: Frank Housman
Purch. Agent: Harry Rosenman
Material Coordinator: Leo Maltzman
Sales Mgr.: E. L. Housman M
- AUTOMATIC SWITCH CO.**
Hanover Rd., Florham Park, N. J. (Tel. FRontier 7-4600, New York City — Dlgby 4-3765)
Purch. Agent: Harold W. Hyland
V. P.-Valve Sales: R. F. McCormick
V. P.-Switch Dept.: F. P. Spinelli MS
- AUTOMATIC TIMING & CONTROLS, INC.**
King of Prussia, Pa. (Tel. BRoadway 9-1100)
Dir.-Purch.: H. Seiple
Asst.: F. Mook
V. P.-Sales: W. W. Winters MS, M, G, CT, RD
- AUTOMATION INDUSTRIES, INC.**
401 E. Green St., Pasadena, Calif. (Tel. SY 3-8169)
Purch. Agent: Gale Bradley
Gen. Mgr.: R. E. Kleint
Chief Engr.: A. W. Crowell M, RD
- AUTOMATION PRODUCTS, INC.**
3030 Max Roy St., Houston 24, Tex. (Tel. UN 9-1485)
Purch. Agent: J. Neighbors
Sales Mgr.: Quin M. Baker
- AUTOMETRIC CORP.**
1501 Broadway, New York, N. Y. (Tel. BRyant 9-8700)
Mgr.-Mktg.: B. R. Ungerleider
Purch. Agent: Larry Rubin, 507 W. 33rd St., New York 1, N. Y. (Tel. PENnsylvania 6-4200) RD
- AUTOMOTIVE & AIRCRAFT DIV.-AMERICAN CHAIN & CABLE CO., INC.**
601 Stephenson Bldg., Detroit 2, Mich. (Tel. TRinity 5-4104)
Purch.: H. C. Wendelcke, Adrian, Mich. (Tel. CDlIx 5-8161)
V. P.-Sales Mgr.: Harry Williams M
- AUTONETICS, DIV.-NORTH AMERICAN AVIATION, INC.**
9150 E. Imperial Hwy., Downey, Calif. (Tel. SPRuce 3-2233)
Dir.-Material: C. R. Raftery
Asst. to Dir.: S. D. Zemansky
Dir.-Mktg.: W. F. Hafstrom
Purch. Agent: H. L. Epperly, (Tel. NEWmark 2-5721) M, CT, RD
- AUTOSCREW CO. INC.**
216-222 W. 18th St., New York 11, N. Y. (Tel. WArkins 9-1291)
Pres.: Henry C. Levi
Sales Mgr.: Thomas A. Drago M
- AUTDTRON, INC.**
3629 N. Vermilion St., Danville, Ill. (Tel. Hlckory 6-0650)
Pres.: Werner A. Gieseke
- AUTOTRONICS INC.**
Box 208, Florissant, Mo. (Tel. ETemple 7-3565)
V. P.-Purch. & Sales: E. F. White
Production Mgr.: A. F. Boaus
Chief Engr.: C. A. Jackson
Pres.: A. J. Thompson
Sales Mgr.: Art Lee PS, G, TT, RD
- AUTO-VALVE INC.**
1705 Guenther Rd., Dayton 27, D. (Tel. ETemple 7-4165)
Buyer: James R. Clark
Pres.: Anthony P. Barcus
- AVCO CORP., CROSLY DIV.**
1329 Arlington St., Cincinnati 25, D. (Tel. Klrby 1-6600)
Dir.-Purch.: G. L. Schafstall
V. P.-Mktg., Defense Products: Dr. L. C. Moier, Jr.
Dir.-Mktg., Airborne Electronics & Fire Control: T. J. Michel
Dir.-Mktg., Missiles: T. M. D'Donnell
Dir.-Mktg., Ordnance: L. E. Beniter
Dir.-Mktg., Ground Electronics & Comm.: E. J. Hopley S, MS, TT, RD
- AVCO CORP., NASHVILLE DIV.**
Nashville 1, Tenn. (Tel. ALpine 4-9551)
Purch. Agent: D. C. Hergert
Gen. Mktg. Mgr.-Structures: Henry Ritter S, M, RD
- AVCO CORP., RESEARCH & ADVANCED DEVELOPMENT DIV.**
201 Lowell St., Wilmington, Mass. (Tel. DLiver 8-8915)
Mgr., Materials Control Dept.: Glenn W. Inman
V. P. & Tech. Dir.: Dr. J. A. Kyger
V. P.: Dr. C. J. Burton
Dir.-Mktg.: E. D. Kenna, Jr. S, PS, MS, M, G, CT, TT, RD
- AVCO-EVERETT RESEARCH LAB.**
2385 Revere Beach Pkwy., Everett 49, Mass. (Tel. DUNkirk 9-2300)
Material Mgr.: Harold Bloom
- AVIATION INSTRUMENT MFG. CORP.**
P. D. Box 12248, Houston 17, Texas (Tel. HUDson 4-2896)
Pres.: Everett L. Anderson
Prod. Mgr.: M. D. McDonald
Buyer: Robert Kenworthy
V. P.-Sales: C. C. Holt G
- AVIATION TEXTILE ASSOCIATES**
22125 Telegraph Hwy., Southfield, Mich.
V. P.-Purch.: H. W. Foster
Pres.: W. T. Greig M, RD
- AVICA CORP.**
Box 180, Newport, R. I. (Tel. VI 6-9100)
Mgr.-Purch.: Dana J. Mulholland
V. P.'s Purch.: Richard S. Weiss & Leo F. Gill
Sales Mgr.: Charles T. Dewick S
- AVIEN, INC.**
58-15 Northern Blvd., Woodside 77, N. Y. (Tel. YELlowstone 2-4600)
Mgr.-Purch.: Clifford Napolitano
V. P.: W. D. Boschen MS, CT, RD, HSE
- AVION PRODUCTS CORP.**
P. D. Box 395, Tarpon Springs, Fla. (Tel. Vltor 2-6633)
Pres.: E. R. Huneke
- AVIONICS RESEARCH CORP.**
111 E. Colonial Dr., Orlando, Fla. (Tel. GA 5-0547)
Div. Mgr.: Alan Drucker PS, MS, G
- AVNET CORP.**
5877 Rodeo Rd., Los Angeles 16, Calif. (Tel. UPTon 0-6141)
Purch. Agent: Stanley Adler
V. P.-Sales: M. G. Newberger MS, M, G, CT, RD
- AVO LTD.**
80 Shore Rd., Port Washington, N. Y. (Tel. PD 7-7700)
Dir.-Sales: Si Bosworth
- AVON TUBE DIV., HIGBIE MFG. CO.**
Kinney St., Rochester, Mich. (Tel. OL 1-9671)
Purch. Agent: R. W. Robertson
Buyer: Jerry Andeson
V. P.-Sales: E. P. Robinson M
- AVONDALE CO., THE**
260 Happ Rd., Northfield, Ill. (Tel. AMB 2-0342)

Purch.: Poul Monning
Sales: H. N. Limbeck

AVONDALE MARINE WAYS, INC.
Box 1030, New Orleans 8, La. (Tel. UN 6-4561)
Purch. Agent: R. Perrin
V. P.-Engrg. & Sales: S. Stone
Gen. Sales Mgr.: R. Lamor Woodfin S

AVTRON MFG., INC.
10409 Meech Ave., Cleveland 5, Ohio (Tel. MI 1-8310)
Purch.: D. E. Conery
V. P.-Sales: A. F. Felster MS, CT

AXEL ELECTRONICS, DIV.-AXEL BROS. INC.
134-20 Jamaica Ave., Jamaica 18, N. Y. (Tel. REmpublic 9-1700)
Purch. Agent: Philip Rimlund
Sales Mgr.: Joseph P. O'Donnell MS, CT, TT

B. & C. INSULATION PRODUCTS, INC.
490 Lincoln Hwy., Iselin, N. J. (Tel. Liberty 8-0815)
Gen. Mgr.: Bernord Sherman M

B & F INSTRUMENTS, INC.
3644 N. Lawrence St., Philadelphia 40, Pa. (Tel. GA 5-4175)
V. P.-Purch.: C. E. Stufflebeam
Sales Mgr.: Robert G. Boll MS, CT, RD

B G CDRP., THE
321 Broad Ave., Ridgefield, N. J. (Tel. Whitney 5-8800)
Purch. Agent: Melville Miller
Asst. Purch. Agent: M. Borokot
Dir.-Sales & Engrg.: Robert W. Brottvet PS

B. H. AIRCRAFT CO., INC.
Eastern Parkway at Moplewood Ave., Formingdale, L. I., N. Y. (Tel. CHapel 9-5000)
V. P.-Purch.: Donald F. Baum S, PS, MS, RD

B & H INSTRUMENT CO., INC.
3479 W. Vickers Blvd., Fort Worth 7, Tex. (Tel. ED 6-7411)
Dir.-Purch.: J. R. Pipes
Purch. Agent: Fred Knepper
Sr. Buyer: J. H. Stiggins
Sales Mgr.: Leon H. Becker MS, CT

B & K INSTRUMENTS, INC.
3044 W. 106th St., Cleveland 11, Ohio (Tel. CLearwater 1-8430)
Office Mgr.: Robert E. Modden
Pres.: James W. Doy CT

BTU ENGRG. CORP.
179 Bear Hill Rd., Waltham 54, Mass. (Tel. TW 4-6050)
Dir.-Purch. & Sales: J. H. Beck

BABCO MFG. INC.
3376 Motor Ave., Los Angeles 34, Calif. (Tel. UPTon 0-8246)
Purch. Agent: R. A. Mortinson
Gen. Mgr.: A. S. Mortinson M

BABCOCK RADIO ENGRG., INC.
1640 Monrovia Ave., Costa Mesa, Calif. (Tel. Liberty 8-7705)
Dir.-Material: Richard Liggitt
Buyers: Charles E. Wilson & Karl Bewlah
Asst. V. P.-Mktg.: Norman E. Cimo G, CT, RD

BABCOCK RELAYS, INC.
1640 Monrovia Ave., Costa Mesa, Calif. (Tel. Liberty 8-7705)
Dir.-Material: Richard Liggitt
Purch. Agent: Bob Chorleton
V. P.-Sales: Carl L. Mortin

BABCOCK & WILCOX CO., TUBULAR PRODUCTS DIV.
Beaver Falls, Pa. (Tel. Beaver Falls, TI 6-0100)
V. P.: J. S. Anderson
Gen. Sales Mgr.: L. B. Wohlgemuth

BACH AURICON, INC.
6994 Romoite St., Hollywood 38, Calif. (Tel. HO 2-0931)
Purch. Agent: Joseph Perolio
V. P.-Adm.: William G. Straube
V. P.-Sales: A. N. Brown CT

SEMDN BACHE & CO.
636 Greenwich St., New York 14, N. Y. (Tel. WA 4-2121)
Purch.: Henry Del Tosto
Sales: B. Newton

BACON INDUSTRIES, INC.
192 Pleasant St., Watertown 72, Mass. (Tel. WAtertown 4-5000)
Purch. Agent: Kenneth H. Borton
Sales Mgr.: Eldon H. Foy M, RD

BADGER DIE CASTING CORP.
201 W. Oklohma Ave., Milwaukee 7, Wis. (Tel. SH 4-6643)
V. P.: Lyle Tuchel M

N. S. BAER CO.
1-11 Montgomery St., Hillside, N. J. (Tel. MUrdoch 8-2250)
Gen. Mgr.: P. J. Stec
Sales Mgr.: S. W. Netter

BAIRD-ATOMIC, INC.
33 University Rd., Cambridge 38, Mass. (Tel. UNiversity 4-7420)
Purch. Agent: John B. Milliken CT, TT, RD

J. T. BAKER CHEMICAL CO.
N. Broad St., Phillipsburg, N. J. (Tel. GLencourt 4-2151)
Dir.-Purch.: John L. Zopf
Buyers: John R. Herd, Thomas W. Mohr, R. H. M. Meir M

BAKER CO., INC., THE
106 Granite St., Biddeford, Me. (Tel. ATlantic 4-8441)
Purch. Agent: Joseph F. Feeley
Purch. Dept.: Keith Hostey
Exec. V. P.-Sales: John M. Eagleson, Jr.

BAKER INDUSTRIAL TRUCKS, DIV.-OTIS ELEVATOR CO.
8000 Boker Ave., Cleveland, Ohio (Tel. OLYmpic 1-3000)
Purch. Agent: K. W. Keyerleber
Asst. Purch. Agents: Joseph Petros & Len Hawkins
Gen. Sales Mgr.: J. Thos. Swift
Sales Prom. Mgr.: Russell A. Moore

BAKER PERKINS INC.
1000 Hess St., Saginow, Mich. (Tel. PLeasant 2-4121)
Purch. Agent: R. F. Byrne
V. P.-Sales: K. A. Mock
Asst. Sales Mgr.: W. D. Chapman M

BALCRANK INC.
Disney St., Cincinnati 9, Ohio (Tel. RE 1-7200)
Purch. Agent: E. M. Flannery
Sales Admin.: J. A. Weiss M

BALDWIN MFG. CO. INC., THE
140 Homer St., Waterbury 20, Conn. (Tel. PLazo 6-5561)
Purch. Agent: Mrs. H. L. Hebert
Gen. Mgr.: Frank V. Gullo

BALDWIN-LIMA-HAMILTON CORP., ELECTRONICS & INSTRUMENTATION DIVS.
42 4th Ave., Waltham 54, Mass. (Tel. TW 4-6700)
Purch. Agent: R. A. Welch
Asst. Purch. Agent: R. Lepore
Mechanical Buyer: R. Lauronzano
Gen. Sales Mgr.: Richard A. Lowe MS, CT

BALL BROTHERS RESEARCH CORP.
Boulder Indsl. Park, Boulder, Colo. (Tel. HI 2-2965)
Field Engr.: K. S. Kilgore
Purch. Agent: C. P. Bennett RD

BALLASTRA DIV., TELEX, INC.
1701 N. Colhoun St., Fort Wayne 7, Ind. (Tel. EAsbrook 9602)
Dir.-Purch.: H. L. Matthios
Buyer: H. D. Carr
Dir.-Sales: O. Kiltie MS

BALTEAU ELECTRIC CORP.
P. O. Box 385, 5 New St., Stamford, Conn. (Tel. DA 4-6118)
Div. Mgr., X-Ray Sales: Fred C. Sarchet
V. P.-Purch.: M. Marechal

BANNER INDUSTRIES
9501 Inkster Rd., Taylor, Mich. (Tel. WH 1-9800)
Purch. Agent: Richard Olesak
Sales Mgr.: Tom MacDonald

BANTHIN ENGRG. CO.
1849-57 Main St., Bridgeport 4, Conn. (Tel. ED 4-3143)
Purch. Agents: Monroe H. Sanford & William Krouse

BARBER-COLMAN CO.
1411-3 Rock St., Rockford, Ill. (Tel. WOOdford 8-6833)
Purch. Agent: D. R. Forquhor
Div. Mgr., Aircraft Controls Div.: R. A. Baird
Div. Mgr., Electrical Components Div.: W. F. Tice

BARCO CHEMICAL PRODUCTS CO.
701-3 S. LaSalle St., Chicago 5, Ill. (Tel. HA 7-2916)
Purch. Agent: S. P. Borewin
V. P. & Sales Mgr.: R. R. Borewin M

BARCO, INC.
Box 1222, Milwaukee 1, Wis. (Tel. BRoadway 6-8515)
Purch. Agent: L. E. Leichtfuss
Sales Mgr.: I. I. Aaron M

BARCD MFG. CO., INC.
566 N. Hough St., Barrington, Ill. (Tel. DUNKirk 1-1700)
Purch. Agent: W. F. Donaldson
V. P.'s: J. O. Heyworth, F. M. Moore PS, MS

BARDEN CDRP., THE
200 Park Ave., Danbury, Conn. (Tel. Pioneer 3-9201)
Purch. Agent: W. R. Ferguson
Buyers: K. A. Taylor & F. H. Lee
V. P.-Sales: Alphe G. Jorreau M

BARIUM & CHEMICALS, INC.
Loke Co. Nat. Bank Bldg., Willoughby, O. (Tel. WI 2-5151)
V. P.-Chg. of Purch.: Douglas Naylor
V. P.-Sales & Adv.: Albert Pavlik, Jr. PS, M

BARKER SALES CO.
339 S. Broad Ave., Ridgefield, N. J. (Tel. Whitney 3-2477)
Purch.: J. Donovan
Sales Mgr.: T. R. Sheron
Pres.: T. R. Cox M

BARKER & WILLIAMSON INC.
Bristol, Pa. (Tel. STillwell 8-5581)
Purch. Agent: Joseph Fattorini
V. P.-Sales: J. C. Pearce M

BARNSDALE VALVES
5125 Alcoa Ave., Los Angeles 58, Calif. (Tel. LLUdlow 9-6181)
Purch. Agent: H. Lemcke
Gen. Mgr. & V. P.-Sales: M. C. Nelson
Sales Mgr.-Eastern Div.: J. D. Brown
Sales Mgr.-Western Div.: Frank Kramer PS, MS, G, CT, RD

BARNEBEY-CHENY CO.
Eighth Ave. & North Cassady, Columbus 19, Ohio (Tel. CL 8-9501)
Buyer: H. Groce
V. P.-Sales: H. L. Barnebey HSE

W. O. BARNES CO., INC.
1297 Terminal Ave., Detroit 14, Mich. (Tel. VALley 2-3422)
Treas.: E. G. Mosteller
Sales Mgr.: W. A. McCullough, Jr. M

WALLACE BARNES DIV., ASSOCIATED SPRING CORP.
18 Main St., Bristol, Conn. (Tel. LU 2-9581)
Purch. Agent: Arthur LeVasseur
Asst. Purch. Agent: John Reilly
Buyer: William Greer
Sales Mgr.: J. S. Gombie

BARNES DEVELOPMENT CO.
213 W. Baltimore Ave., Lansdowne, Pa. (Tel. MA 6-3294)
Purch. Agent & Sales Mgr.: J. W. Bornes
Purch., Engrg.: J. N. Nottter
Purch., Prod.: R. S. Tittler CT, RD

BARNES ENGRG. CO.
30 Commerce Rd., Stamford, Conn. (Tel. FLeside 8-5381)
Purch. Agent: James D. Bennett

BARNSTEAD STILL & STERILIZER CO.
2 Lanesville Terr., Boston 31, Mass. (Tel. JAmoico 4-3100)
Purch. Agent: J. C. Mullon
Sales Mgr.: D. G. Miller PS, RD, HSE

BARNUM MACHINE WORKS, INC.
200 Wooster St., New Haven, Conn. (Tel. LCOust 2-2169)
Pres.: Henry G. Holbing

BAR-RAY PRODUCTS, INC.
211 25th St., Brooklyn 32, N. Y. (Tel. SOuth 8-1020)
Dir.-Purch.: G. Hollands

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

purchasing directory bar—bes

- Purch. Agent:** F. Carlipia
V. P.-Sales: R. Lapof **M**
- LEDN J. BARRETT CO., THE**
1495 Grafton Rd., Worcester 1, Mass. (Tel. PLessant 5-4306)
Dir.-Purch.: O. C. Page
Purch. Agent: L. E. Clark
Sales Mgr.: R. B. Ayres **M**
- BARRETT-CRAVENS CO.**
630 Oundee Rd., Northbrook, Ill. (Tel. CRestwood 2-2300)
Purch. Agent: R. Sonnen
Dir.-Sales: K. E. Forster **MS**
- BARRY CONTROLS INC.**
938 Pleasant St., Watertown 72, Mass. (Tel. WAtertown 3-1150)
Purch. Agent: Thomas Fester
Buyers: James Wise, James Writesell
V. P.-Mktg.: Edward A. Johnson **S, CT, RD**
- BARRY ELECTRONICS CORP.**
512 Broadway, New York 12, N. Y. (Tel. WAlker 5-7000)
Pres.: B. N. Gensler
Sales Mgr.: L. Chall
- BART MFG. CORP.**
135 Manchester Pl., Newark 4, N. J. (Tel. PLymouth 9-0200)
Purch. Agent: Larry Scheid
Pres.-Sales: S. G. Bart
Sales Mgr.: Arthur E. Hallander **M, RD**
- BARTH ENGRG. & MFG. CO., INC.**
48 Elm St., Meriden, Conn. (Tel. BE 7-7468)
Purch. Agent: Joseph Putala
Sales Mgr.: Edward Hauston **MS**
- BARTON INSTRUMENT CORP.**
580 Monterey Pass Rd., Monterey Park, Calif. (Tel. CUmberland 3-6501)
Purch. Agent: Sylvia Clingerman
Gen. Sales Mgr.: Robert Yerxa **MS, RD**
- L. J. BARWOOD MFG. CO. INC.**
12 Williams St., Everett 49, Mass. (Tel. Boston, DUunkirk 7-0942)
V. P.: R. J. Greenleaf **M**
- BARWOOD ELECTRONICS INC.**
120 S. Maryland Ave., Glendale 5, Calif. (Tel. CHapman 5-4063)
Pres.: W. H. E. Barwood **G**
- GEORGE BASCH CO., THE**
19 Hanse Ave., Freeport, N. Y. (Tel. FReepart 8-8100)
Sales Mgr.: George Basch
Gen. Mgr.: Jerome O. Basch
- BASIC & EXPERIMENTAL PHYSICS**
Box 689, Falmouth, Mass. (Tel. Klmball 8-2175)
Purch. Agent: L. Grafton
Sales Mgr.: J. A. Roberts
Gen. Mgr.: N. A. Denman **MS, G, CT, TT, RD, HSE**
- BASIC TOOL INDUSTRIES, INC.**
14439 S. Avalon Blvd., Gardena, Calif. (Tel. FAculty 1-2665); 440 Hester St., San Leandro, Calif. (Tel. LOckhaven 2-4634)
Purch. Agent: Robert F. Rigali
Exec. V. P.-Sales: Robert G. Lucas **S, MS**
- BASO INC.**
730 N. Jackson St., Milwaukee 1, Wisc. (Tel. BRoadway 3-5388)
Purch. Agent: G. C. Winters
Asst. Purch. Agent: F. J. Jens
Dist. Mgr.: O. Weidenfeller
- REX BASSETT, INC.**
1314 N. E. 17th Ct., Ft. Lauderdale, Fla. (Tel. LOgan 6-8416)
Purch.: William T. Jansen
Dir.-Sales: Rex Bassett, Jr. **M**
- BASSICK CO., THE, DIV.-STEWART-WARNER**
3045 Fairfield Ave., Bridgeport 5, Conn. (Tel. FOrest 6-3671)
Dir.-Purch.: George Raiselis
Purch. Agent (Parts): Henry Burr
Dir.-Sales: R. D. Maunt **MS**
- BASTIAN-BLESSING CO., THE**
4201 W. Petersan Ave., Chicago 46, Ill. (Tel. MUIberry 5-1121)
Dir.-Purch.: H. A. Barnes
Asst. V. P.-Sales: R. H. Engstrom **MS, G**
- CYRIL BATH CO., THE**
32400 Aurara Rd., Solon 39, Ohio (Tel. CHurchill 8-6510)
Purch. Agent: J. E. Fagan
Sales Mgr.: J. J. Frank **S, MS, RD**
- CHRISTIE BATLAS, INDUSTRIAL SCALE MODELS**
17 Irving Pl., Summit, N. J. (Tel. CR 3-8364)
- BATTELLE MEMORIAL INSTITUTE**
505 King Ave., Columbus 1, Ohio (Tel. AX 9-3191)
Purch. Agent: M. Coate
Mgr.-Proj. Development: M. R. Nestar **RD**
- BAUSCH & LDMB OPTICAL CO.**
87060 Bausch St., Rochester, N. Y. (Tel. LCOust 2-3000)
Purch. Agent: C. Buss
Mgr.-Military Products Div.: William A. Kerr **M, G, TT, RD**
- E. BAUCHES S. A., C/O FREEPORT ENGRG. CO.**
350 Fifth Ave., New York 1, N. Y. (Tel. LO 5-2488)
Dir.-Sales: Charles Friedman **CT, TT, RD**
- BEACH-RUSS CO.**
420 Lexington Ave., New York 17, N. Y. (Tel. OR 9-7636)
Purch. Agent: S. Sukmanski, 544 Union Ave., Brooklyn 11, N. Y. (Tel. EV 8-4090)
V. P.-Sales: A. T. Beach **M, RD**
- BEACON STEEL CORP.**
1810 Center St., Hollydale, Calif. (Tel. NEvada 6-1142)
Purch. Agent: Art Mann
Dir.-Sales: C. Corodimas **S, MS**
- BEAD CHAIN MFG. CO., THE**
110 Mountain Grave St., Bridgeport 5, Conn. (Tel. EDisan 4-4124)
Purch. Agent: M. H. Oaalittle
Sales Mgr.: G. F. Bahr **M**
- MORRIS BEAN & CO.**
Yellow Springs, O. (Tel. ROckwell 7-7301)
Dir. Purch.: O. W. Woechter
Purch. Agent: T. E. Charlton
Asst. Purch. Agent: R. E. Pallack
V. P.-Sales: R. H. Hallister **M**
- BEARING INSPECTION, INC.**
3311 E. Gage Ave., Huntington Park, Calif. (Tel. ULdow 2-6431)
Pres. & Sales Mgr.: Charles McKnight
Purch. Agent: J. O. Butler **S, PS, MS, M, G, CT, TT, RD**
- BEARIUM METALS CORP.**
Mill & Commercial Sts., Rochester 14, N. Y. (Tel. LCOust 2-7700)
Purch. Agent: A. E. Zielke
Sales Mgr.: B. M. Gorek **PS, MS, G**
- BEATON & CORBIN MFG. CO., THE**
328 N. Main St., Southington, Conn. (Tel. MArket 8-4747)
V. P.: C. W. Rush, Jr.
- BEATTIE-COLEMAN, INC.**
1000 N. Olive St., Anaheim, Calif. (Tel. PRospect 4-4503)
Purch.: L. B. Blythe
Sales Mgr.: J. A. Wilcox **MS, G, CT, TT**
- BEAVER GEAR WORKS, INC.**
1025 Parmele St., Rockford, Ill. (Tel. W0 3-9691)
Dir.-Purch. Dept.: R. A. Zwicky
Dir.-Sales Dept.: Charles L. Kessler **G, TT**
- *BEAVER PRECISION PRODUCTS INC.**
651 N. Rochester Rd., Clawson, Mich. (Tel. JOrdan 4-6547)
Purch. Agent: Edw. Smokaski
V. P.-Sales: John A. Hope
(See advertisement this issue)
- BEAVER-ADVANCE CORP.**
P. O. Box 792, Ellwood City, Pa. (Tel. PL 8-7571)
Purch. Agent: J. T. Penman
Sales Mgr.: R. B. Cooper **CT**
- BECCO CHEMICAL DIV.-FOOD MACHINERY & CHEMICAL CORP.**
Station B, 34 Sawyer Ave., Buffalo, N. Y. (Tel. BEdard 8300)
Purch. Agent: Herbert J. Newman
Asst. Purch. Agent & Traffic Mgr.: Edward Wheeler
Dir.-Sales: A. P. Shutts **PS**
- BECKER ELECTRONICS MFG. CORP.**
1091 Rockaway Ave., Valley Stream, L. I., N. Y. (Tel. LCOust 1-2510)
- V. P.-Purch.:** Fred Becker, Jr.
Sales Mgr.: Manning Mintzer **RD**
- BECKMAN INSTRUMENTS, INC., BERKELEY DIV.**
220 Wright Ave., Richmond, Calif. (Tel. LA 6-7730)
Purch. Mgr.: Walter Day
Sales Mgr. (Test & Indsl. Instruments): John W. Scheck
Sales Mgr. (Analog Computers): Karl Sterne **CT**
- BECKMAN/SCIENTIFIC & PROCESS INSTRUMENTS DIV.**
2500 Harbor Blvd., Fullerton, Calif. (Tel. TRajan 1-4648)
Purch. Agent: K. A. Bruner
Mktg. Mgr.: Ray F. Brown **RD**
- BECKMAN/SYSTEMS DIV.**
325 N. Muller Ave., Anaheim, Calif. (Tel. PRospect 4-5430)
Purch. Agent: J. A. McKnight
Buyers: T. R. Navis & A. O. Pennington
Mktg. Mgr.: Frank J. Scheufele **MS, CT, TT, RD**
- BECKMAN & WHITLEY, INC., INSTRUMENT DIV.**
973 San Carlos Ave., San Carlos, Calif. (Tel. LYell 3-7824)
Purch. Agent: R. Roder
Camera Prod.: R. Shaberg
Meteorological Instr.: H. V. Thompson **PS, MS, G, CT, RD**
- BECKMAN & WHITLEY, INC., MISSILE PRODUCTS DIV.**
985 E. San Carlos Ave., San Carlos, Calif. (Tel. LYell 3-7824)
Purch. Agent: J. W. Baath
Mktg. Mgr.: F. Kerr **PS, MS, G, CT, RD**
- BEECH AIRCRAFT CORP.**
9709 E. Central, Wichita 1, Kans. (Tel. MUrray 3-4681)
Mgr.-Materials: L. E. Bowery
Asst. Mgr.-Prac.: W. R. Sullivan
Mgr., Outside Prod.: Seymour Coleman
V. P.-Contract Admin.: James N. Lew
V. P.-Commercial Sales: Ledy Greever
V. P.-Export Sales: Michael G. Neuberger **S, MS, G, CT, RD**
- BEEMER ENGRG. CO.**
401 N. Broad St., Philadelphia 8, Pa. (Tel. WALnut 2-0900)
Purch. Mgr.: J. M. Brower
Sales Mgr.: H. G. Silcox, 3rd **M**
- BEHLMAN ENGRG. CO.**
2911 Winona Ave., Burbank, Calif. (Tel. VICTORIA 9-5733)
Purch. Agent: L. J. Harvey
V. P.-Sales: J. M. Schroeder **MS, CT, RD**
- BEHR-MANNING CO.**
5860 Howe St., Troy, N. Y. (Tel. ARsenal 3-0100)
Purch. Agent: Mark B. Patten
V. P.-Sales: Henry R. Merrill **M**
- BEKINS INDUSTRIAL PACKAGING**
12512 Inglewood Ave., Hawthorne, Calif. (Tel. OR 8-7213)
Gen. Mgr.: R. A. Patten
Operations Mgr.: Norman L. Johnson
Dir.-Sales & Engrg.: Noble W. Jones
- BEL FUSE INC.**
198 Van Vorst St., Jersey City, N. J. (Tel. HE 2-0463)
Dir.-Purch.: G. Fannel
Dir.-Sales: H. V. Anderson **M, RD**
- BELDEN MFG. CO.**
415 S. Kilpatrick, Chicago 44, Ill. (Tel. ESTerbrook 8-1000)
Dir.-Purch.: William A. Sandy
Gen. Sales Mgr.: Les A. Thayer
- BELFAB CORP., THE**
9 Hobson Ave., Hamden, Conn. (Tel. ATwater 8-3581)
Purch. Agent: Rager Pegala, Municipal Airport, Oyatona Beach, Fla. (Tel. CLIntan 3-0628)
Sales Mgr.: R. F. Harrigan **S**
- BELFORT INSTRUMENT CO.**
Central Ave., Baltimore 2, Md. (Tel. DICKens 2-2626)
Purch. Agent: G. Wasmus
Sales Mgr.: A. E. Clark, Jr.
- BELL AIRCRAFT CORP., NIAGARA FRONTIER DIV.**
P. O. Box 1, Buffalo 5, N. Y. (Tel. NIogara Falls, BUtler 5-7851)
Dir.-Procurement: Maurice J. Coughlin
V. P. & Gen. Mgr.: W. G. Gisel
Dir.-Govt. Relations: S. B. Elggen
V. P. & Dir.-Engrg.: Dr. W. R. Oornberger
Dir.-Mfg.: T. M. Nalan **S, PS, MS, M, RD, HSE**

BELL & GOSSETT CO.
8200 N. Austin, Morton Grove, Ill. (Tel. OR 3-3700)
Purch. Agent: M. Van Parys
Buyers: C. Kirchoff & R. Hough
Sales Mgr.-Electronics Div.: D. F. Shea, Jr.
MS, CT, TT, RD

BELL & GOSSETT CO., MARLDW PUMPS DIV.
Box 200, Midland Park, N. J. (Tel. Gilbert 4-6900)
Purch. Agent: Miss R. K. Boyd
Govt. Sales: H. L. Kocienick
Gen. Sales Mgr.: A. F. Woods MS

BELL & HDWELL CO.
7100 McCormick Blvd., Chicago 45, Ill. (Tel. Ambassador 2-1600)
Dir. Purch.: S. W. Knobe
Dir. Govt. Sales: Carl J. Stouff RD

BELL DIL & GAS CO.
1310 National Bank of Tulsa Bldg., Tulsa, Okla. (Tel. LU 2-7191)
Mgr.-Purch.: M. W. Sullivan
Sales Mgr.: L. H. Deatheroge M

BELL TELEPHONE LABORATORIES, INC.
Murray Hill, N. J. (Tel. C.R. Serv. 3-6000)
V. P. & Gen. Mgr.: R. L. Helmreich RD

BELLEVILLE-HEXEM CORP.
638 University Ave., Los Gatos, Calif. (Tel. EL 4-1379)
Dir.-Purch.: L. M. Belleville
Dir.-Sales: John Hexem

BELLDFRAM CORP.
Blanchard Rd., Burlington, Mass. (Tel. Mission 3-9000)
Purch. Agent: Mrs. Ruth Clark
Sales Mgr.: John F. Toplin
Buyer: Harold Currier M

BELLDWES CO., THE
125 E. Nash St., Milwaukee 12, Wis. (Tel. CO 4-5090)
Plant Mgr.: Pat Casey
Purch. Dept.: John McCoy
Sales Mgr.: Clarence Martin M

BELLDWS-VALVAIR DIVS.
230 W. Market St., Akron 9, Ohio (Tel. FRonklin 6-2174)
Purch. Agents: O. E. Sterling & R. E. Stull
Sales Mgr.: J. James Mudd M

BELMAR WHEEL & MACHINE CO., INC.
1707 F St., Belmor, N. J. (Tel. MUtual 1-1616)
B. M. Kelly S, M, CT, RD

BELMONT SMELTING & REFINING WDRKS, INC.
330 Belmont Ave., Brooklyn 7, N. Y. (Tel. DICKens 2-4900)
V. P.-Purch.: Robert V. Henning

BELDCK INSTRUMENT CORP.
112-03 14th Ave., College Point 56, Queens, N. Y. (Tel. HICKory 5-4200)
Purch. Mgr.: Herbert Helmers
V. P.-Sales: John F. Donato S, MS, G, CT, RD

BEL-TRONICS CORP.
344 Interstate Rd., Addison, Ill. (Tel. Kingswood 3-7778)
Mgr.-Purch.: Lee Belovich
Purch. Agent: Mrs. E. Wonders
Pres. & Sales Mgr.: Thomas J. Wright

BEMIS BRO. BAG CO.
111 N. Fourth St., Box 72, St. Louis 2, Mo. (Tel. CHesnut 1-0900)
V. P.-Purch.: L. L. Willmore, 40 Central St., Boston 5, Mass. (Tel. LAfayette 3-3010)
V. P.-Sales: H. V. Howes

BENBOW MFG. CORP.
11920 W. Jefferson Blvd., Culver City, Calif. (Tel. EX 8-5765)
Purch. Agent: P. C. Bodger
V. P.-Sales: Wayne S. Bools MS, CT, RD

BENDIX AVIATION CORP.
1104 Fisher Bldg., Detroit 2, Mich. (Tel. TRinity 5-5000)
Pres.: M. P. Ferguson MS, G, CT, TT, RD

BENDIX AVIATION CORP., CINCINNATI DIV.
3130 Wasson Rd., Cincinnati 8, Ohio (Tel. ELMhurst 1-2323)
Purch. Agent: A. S. Cogswell
Buyer: J. Lancaster
Sales Mgr.: G. J. Rosenblit MS, CT, RD

***BENDIX AVIATION CORP., HAMILTON DIV.**
Fifth St. & Ford Blvd., Hamilton, Ohio (Tel. TWInbrook 3-6181)
Purch. Agent: D. J. MacGregor

Dir.-Sales & Service: S. R. Craig
*(See advertisement this issue)

BENDIX AVIATION CORP., MONTRDSE DIV.
South Montrose, Pa. (Tel. Montrose 570)
Purch. Agent: J. B. Wilson
Buyers: R. J. Pope, R. L. Kerr, J. E. Mohon & K. R. Flint
Dir.-Sales & Service: M. G. Douglas

BENDIX AVIATION CORP., PIONEER-CENTRAL DIV.
Hickory Grove Rd., Davenport, Iowa (Tel. DAVenport 7-9101)
Dir.-Purch.: George Thomas
Asst. Dir.-Purch.: Vernon Dick
Sr. Buyers: Donald Patrick & William Hiegel
Buyer: Robert Lindsay
Dir.-Sales & Serv.: I. H. MacMillan MS, CT, RD, HSE

BENDIX AVIATION CORP., RED BANK DIV.
Eatontown, N. J. (Tel. Liberty 2-2000)
Purch. Agent: L. Fyfe
Mktg. Mgr.-Electron Tubes: J. F. Bozzelli MS, M

BENDIX AVIATION CORP., SEMI-CONDUCTOR PRODUCTS, RED BANK DIV.
201 Westwood Ave., Long Branch, N. J. (Tel. CApital 2-6220)
Mktg. Mgr.: Robert R. Meijer
Dir.-Purch.: L. O. Fyfe, Eatontown, N. J. (Tel. Liberty 2-2000)
Purch. Agent: Thomas Hockett RD

BENDIX AVIATION CORP., YDRK DIV.
York, Pa. (Tel. 47-1951)
Purch. Agent: R. H. Moore
Chief Buyer: P. B. Gross
Sales Mgr.: T. R. Borlett MS, CT, RD

BENDIX COMPUTER, DIV.-BENDIX AVIATION CORP.
5630 Arbor Vitae St., Los Angeles 45, Calif. (Tel. Spring 6-2220)
Purch. Agent: R. J. Thelen
Dir.-Mktg.: O. P. Stoderman MS, G, CT, TT, RD

BENDIX CORP., THE, ECLIPSE-PIDNEER DIV.
Williams Ave., Teterboro, N. J. (Tel. ATlas 8-2000)
Dir.-Purch.: John P. Quinn
Purch. Agents: Robert Reode, Jr. & Robert E. Rosemund
Dir.-Sales & Service: James P. Buckley MS, G, CT, RD

BENDIX FILTER DIV., BENDIX AVIATION CORP.
434 W. Twelve Mile Rd., Modison Hgts., Mich. (Tel. JORDan 6-2380)
Purch. Dept.: D. S. Kinsman
Buyers: Ivan Papin & Theodore C. Ling
Dir.-Sales: W. N. Caldwell, Jr.
Sales Mgr.: G. T. Grimstad PS, MS, G, CT, RD

BENDIX FOUNDRIES, BENDIX AVIATION CORP.
Teterboro, N. J. (Tel. ATlas 8-2000)
Foundry Mgr.: R. D. Ferguson
Foundry Purch. Agent: G. F. Cartier
Sales Mgr.: L. Eigenruch

BENDIX MISHAWAKA, DIV.-BENDIX AVIATION CORP.
400 S. Beiger St., Mishawaka, Ind. (Tel. BL 5-2111)
Dir.-Purch.: D. J. Youngerman
Supvr.-Subcontracts: R. D. Weller
Asst. Purch. Agent: F. R. Glassman
Dir.-Contracts & Planning: M. R. Bolis S, PS, G, CT, TT, RD

***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
401 Bendix Dr., South Bend, Ind. (Tel. CENtral 3-4141)
Dir.-Purch.: C. E. Budd
Dir.-Mktg.: R. W. Whitesell S, PS, MS, M, CT, RD
*(See advertisement this issue)

BENDIX RADIO DIV., BENDIX AVIATION CORP.
E. Joppo Rd., Baltimore 4, Md. (Tel. VALley 3-2200)
Govt. Prods. Materials Mgr.: J. L. Winchester
Buyers: C. W. McGuire & E. A. White
Govt. Prods. Sales Mgr.: E. A. King MS, G, CT, TT

BENDIX SYSTEMS DIV.
3300 Plymouth Rd., Ann Arbor, Mich. (Tel. NORmandy 5-7765)
Dir.-Long Range Planning: James A. Burns MS, G, CT, TT, RD, HSE

BENDIX UTICA DIV., BENDIX AVIATION CORP.
211 Seward Ave., Utica, N. Y. (Tel. SWift 7-2500)
Dir.-Purch.: Alon J. Oodd
Senior Buyers: P. B. Huested & G. R. Didio
Dir.-Sales & Service: W. S. Allison RD

BENDIX-PACIFIC DIV., BENDIX AVIATION CORP.
11600 Sherman Way, N. Hollywood, Calif. (Tel. POPlor 5-1010)
Dir. Purch.: R. R. Zimmerman

Applications Engr. Mgr.: S. F. Rice
G, CT, TT, RD, HSE

BENNETT-FERAGEN
1408 Jerome St., Niles, Mich. (Tel. MUtual 3-8121)
Dir.-Purch.: J. B. Whitlow

BENSON MFG. CO., THE
1811 Agnes Ave., Kansas City, Mo. (Tel. BE 1-8300)
Dir.-Purch.: Ralph Bure
Asst. Purch.: Jim Mitchell & Earl Miller
Pres.: A. J. Benson S, MS, RD

BENSON-LEHNER CORP.
1860 Franklin St., Sonto Monica, Calif. (Tel. EXbrook 3-9921)
Purch. Agent: Everett Case
Asst. Purch. Agent: Richardson Hill
Mgr., Applications Engr.: Robert C. Saunders MS, CT, TT, RD

BENTLEY, HARRIS MFG. CO.
Hector & Lime Sts., Conshohocken, Pa. (Tel. TAYlor 8-7600)
Purch. Agent: E. A. Ruth
Sales Mgr.: J. A. Webb M

BENTON HARBRD ENGRG. WDRKS, INC.
622 Longley Ave., St. Joseph, Mich. (Tel. YUKon 3-5523)

BERGEN CARBIDE CO.
P. O. Box 531, Fair Lawn, N. J. (Tel. GRegory 1-3538)
Gen. Mgr.: Charles Openden PS, MS, M, G

BERGEN LABS., INC.
60 Spruce St., Paterson 1, N. J. (Tel. ARMory 8-3020)
Purch. Agent: D. Mierop
Sales Mgr.: M. Hoberman CT, RD

BERGEN WIRE RDPE CO.
11 Gregg St., Lodi, N. J. (Tel. HUBbard 7-3521)
Purch. Agent: Jack Horper
Mgr.-Mktg.: W. E. Herdman M, RD

BERKSHIRE ELECTRIC CABLE CO.
River Rd., Leeds, Mass. (Tel. NORthampton-JUSTice 4-3853)
Treas.: Garson R. Feinstein M

BERKSHIRE TRANSFORMER CORP.
Kent, Conn. (Tel. WALKer 7-3541)
Purch. Agent: Barbara Giddings
Pres.: B. B. Hordeski

BERMITE POWDER CO.
22116 W. Soledad Canyon Rd., Saugus, Calif. (Tel. NEWholl 241)
V. P.-Purch.: Hugo Lizzo
Sales Dept., Prod.: Jack Arnold & Dove Aumon
Sales Dept., Research & Development: Louis L. Fiego
Mgr., Eastern Office: Samuel P. Miller, Alexandria, Va. (Tel. FLEewood 4-4118) PS, TT, RD

BERNCD ENGRG. CORP.
2320 S. Tibbs Ave., P. O. Box 41037, Indianapolis 11, Ind. (Tel. CHapel 1-2871)
Purch. Agent: Leland L. Reich
Sales Mgr.: William Zaring G, CT, RD

BERYLLIUM CORP., THE
P. O. Box 1462, Reading, Pa. (Tel. WALKer 9-0781)
Purch. Agent: T. Blessing
V. P.-Sales: L. F. Boland

CHARLES BESELER CO.
219 S. 18th St., East Orange, N. J. (Tel. OR 6-6500)
Purch. Agent: J. Proger
Sales Mgr.: M. F. Myers

BEST AIRCRAFT CORP.
711 Sip St., Union City, N. J. (Tel. UNion 5-1681)
Sales Mgr.: F. Gebhardt
Purch. Agent: William Decker S, PS, MS, M, G

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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BESTCRAFT PRODUCTS CO. INC.

626 Broadway, New York 12, N. Y. (Tel. AL 4-7920)
 V. P.—Purch.: Kurt Levy
 Dir.—Sales: Ross Smylie M

BETHLEHEM STEEL CO.

701 E. Third St., Allentown, Pa. (Tel. UN 7-2424)
 V. P.—Purch.: P. S. Killian
 V. P.—Sales: J. V. Honeycutt S, MS, M

BETTER FINISHES & COATINGS INC.

268 Doremus Ave., Newark 5, N. J. (Tel. MA 4-6700)
 Pres.: Myron Bryant M

BETTINGER CORP.

Summer St., Milford, Mass. (Tel. GREENleaf 3-7500)
 Purch. Agent: Walter Gorenflo
 Plant Supt.: J. Zariboni
 V. P.—Sales: N. Cannistraro M

BEVA LAB., INC.

185 Fourth St., Trenton 8, N. J. (Tel. TUXedo 2-6847)
 Dir.—Purch. & Sales: W. Hartig

JAMES G. BIDDLE CO.

1316 Arch St., Philadelphia 7, Pa. (Tel. LD 4-1620)
 Purch. Agent: Lester Markham
 Chief Engr.: E. B. Curdts
 Sales Mgr.: P. E. Sellers CT, TT, RO

A. BIEDERMAN, INC.

1045 Air Way, Glendale 1, Calif. (Tel. CHapman 5-8621)
 Purch. Agent: Lyle Teeple
 Sales Engr.: Dale L. Porter
 Dir.—Sales: Frank Herle MS, M, G, CT, RD

CARL H. BIGGS CO.

1547 14th St., Santa Monica, Calif. (Tel. GR 8-0461)
 Purch. Agent: G. Hert
 Dir.—Sales: D. N. Lott, Jr. M, RD

BIL-JAX INC.

P. D. Box 38, Archbold, Ohio (Tel. 2045)
 Purch.: Olen L. Britsch
 Dir.—Sales: Wilbur M. Wyse S

BILLINGS & SPENCER CO., THE

1 Laurel St., Hartford, Conn. (Tel. JAcKson 7-5181)
 Purch. Agent: Wm. V. Pilon
 Sales Mgr.: E. A. Crocker M

J. F. BINGHAM MFG. CO.

69 Bay State Rd., Lawrence, Mass. (Tel. MURdock 5-5188)
 Purch. Agent: C. R. Yeaton
 Asst. Purch. Agent: R. A. Arscott
 V. P.—Sales: C. E. Callahan MS

BINKLEY CO., THE

Worrenton, Mo. (Tel. GLadstone 6-3455)
 Purch. Agent: M. D. Coleman
 V. P.—Sales: Frank A. Bornmann MS

BINKS MFG. CO.

3114 Carroll Ave., Chicago 12, Ill. (Tel. Van Buren 6-4200)
 Purch. Agent: Richard Krisch
 Purch.: James Shomonta & Doron Unschuld
 Gen. Sales Mgr.: B. James Hedger

BIO-RAD LABS.

32nd & Griffin Ave., Richmond, Calif. (Tel. BEacon 4-4130)
 Purch. Agent: James L. Donovan M, RD

BIOS LABS., INC.

17 W. 60th St., New York 23, N. Y. (Tel. PLaza 7-8171)
 Asst. Dir.—Purch.: H. Brodie
 Dir.—Sales: Fred Linsker

RICHARD H. BIRD & CO., INC.

11 Spruce St., Waltham 54, Mass. (Tel. TWInbrook 4-0160)
 Purch. Agent: R. T. Cameron
 Dir.—Sales: R. P. Cameron, Jr.
 Supt.: C. F. Whittemore

BIRDAIR STRUCTURES, INC.

1800 Broadway, Buffalo 12, N. Y. (Tel. KEYstone 5100)
 Purch. Agent: Warren K. Horey
 Sales Mgr.: Alvin C. Smith S, MS, RD

BIRMA MFG. CO. INC.

254 Rono St., Plant #1, Buffalo 13, N. Y. (Tel. Victoria 7000)
 Purch. Agent: C. Hopkins
 Sales Mgr.: George H. Nelson S, M

BIRNBACH RADIO CO., INC.

145 Hudson St., New York 13, N. Y. (Tel. WOrth

6-5611)

Sales Mgr.: Aaron D. Danziger
 Pres.—Purch.: M. Birnbach M

BIRTCHER CORP., THE

4371 Valley Blvd., Los Angeles 32, Calif. (Tel. CApiol 2-9101)
 Purch. Mgr.: Mrs. Jessie Matrango
 Sales Mgr., Indsl. Div.: Charles F. Booher

J. BISHOP & CO., PLATINUM WORKS

E. King St., Malvern, Pa. (Tel. NIagara 4-3100)
 Dir.—Purch.: J. Cortez
 V. P.: J. J. Buckley
 Mgr.—Mktg.: H. S. Roberts M, RD

BISHOP MFG. CORP.

10 Confield Rd., Cedar Grove, N. J. (Tel. CEnter 9-2400)
 Purch. Agent: P. W. Reed, Jr.
 V. P.—Sales: F. X. McCormack M

BIWAX CORP.

3445 W. Howard St., Skokie, Ill. (Tel. DRchard 3-1050)
 Pres.: H. J. Bystricky
 V. P.: P. H. Scritchfield M, RD

BJORKSTEN RESEARCH LABS. FOR INDUSTRY, INC.

P. O. Box 1175, Madison 1, Wis. (Tel. ALPine 6-3581)
 Admin. Asst.: Irvin J. Leichte
 Exec. V. P.—Sales: Alan G. Richards RO

BLACK & DECKER MFG. CO., THE

E. Pa. Ave., Towson 4, Md. (Tel. VA 3-4400)
 Purch. Mgr.: Alex Dahl
 V. P.—Mktg.: R. G. Horner

BLACKMER PUMP CO.

1809 Century Ave., S. W., Grand Rapids 9, Mich. (Tel. CHerry 1-1611)
 Purch. Agent: Darcey Mahan
 Dir.—Sales: E. H. Lanthorn

BLACKSTONE CORP.

1111 Allen St., Jamestown, N. Y. (Tel. 5-1121)
 Dir.—Purch.: D. E. Benson
 Products Mgr.: G. A. Gustofson

BLACO MFG. CO.

6541 Euclid Ave., Cleveland 3, O. (Tel. EXpress 1-0497)
 Purch.: S. J. Haretik
 Mgr.—Sales: I. W. McCulley M

ERNEST E. BLANCHE & ASSOCIATES, INC.

10425 Fawcett St., Kensington, Md. (Tel. LLockwood 4-7527)
 Chief-Purch.: Mrs. Irene Von Yugo TT, RD

BLAND BURNER CO., THE

83 Woodbine St., Hartford 6, Conn. (Tel. CHapel 9-8651)
 Purch. Agent: Jerry Glassman
 Sales Mgr.: Joel Livingston M

BLAW-KNOX EQUIPMENT, DIV.-BLAW-KNOX CO.

P. O. Box 1198, Pittsburgh 30, Pa. (Tel. STerling 1-2700)
 Div. Purch. Agent: Phillip H. Rollings
 Sales Mgr.: R. A. Tromon S

S. BLICKMAN, INC.

35 Gregory Ave., Weehawken, N. J. (Tel. Union 3-0800)
 Dir.—Purch.: Frank Curran
 Dir.—Sales: Newton Blickman M

E. W. BLISS CO.

1375 Raff Rd., S. W., Canton, Ohio (Tel. GREENwood 7-3421)
 Purch. Mgr.: F. R. Mayer
 Buyers: W. B. Boyd, G. W. Baker, J. M. Baylor
 Sales Mgr.—Govt. Contracts: R. E. Reilly S, PS, MS

BLISS ELECTRONIC CORP.

Box 366, Sussex, N. J. (Tel. SUSsex 2-3000)
 Dir.—Purch.: Gilbert Coates
 Dir.—Sales: Robert Kaiser

BLONDER-TONGUE LABS., INC.

9 Alling St., Newark 2, N. J. (Tel. MArket 2-8151)
 Purch. Agent: David Rubin
 Sales Mgr.: Joseph H. Kerner M, RD

BLONDER-TONGUE LABS. INC., SPECIAL PRODUCTS DIV.

49 Edison Place, Newark 2, N. J. (Tel. MA 2-0501)
 Mgr.—Purch.: H. R. Walker
 Contract Mgr.: I. A. Foye G, CT, TT, RD

BLOOMINGDALE RUBBER CO.

Roosevelt & Grant Aves., Aberdeen, Md. (Tel. Aberdeen 2050)
 Prod. Mgr.—Purch. Dept.: LoVerne R. Britton, R. #40 & Plater St., (Tel. Aberdeen 2370)
 Chief Engr.—Sales: R. B. Krieger, Jr. (Tel. Aberdeen 2050) S, M

BLOSSOM MFG. CO. INC.

2337 McDonald Ave., Brooklyn 23, N. Y. (Tel. DEwey 6-5555)
 Dir.—Purch. & Sales: Jack I. Antokol
 Prod. Mgr.: Howard Antokol M

BLOWERS INC.

12455 S. Western Ave., Blue Island, Ill. (Tel. Fullton 8-3060)
 Purch. Agent: S. A. Witte

BLUE M ELECTRIC CO.

138th & Chatham St., Blue Island, Ill. (Tel. Fullton 5-9000)
 Purch. Agent: W. F. Wilde
 V. P.—Sales: Angelo Lazzara CT, RD

BLUE M ENGRG. CO.

2312 S. Main St., Los Angeles 7, Calif.

BOBRICK AERO MISSILE PRODUCTS

1839 Blake Ave., Los Angeles 39, Calif. (Tel. NDrmandy 2-3188)
 Purch. Agent: J. A. Puleo
 V. P.—Sales: Arnold A. Cowan MS, RD

BODINE ELECTRIC CO.

2500 W. Bradley Pl., Chicago 18, Ill. (Tel. IR 8-3515)
 Exec. V. P.—Purch.: E. W. Lorson
 Asst. Purch. Mgr.: H. G. Anderson
 Sales Mgr.: W. M. Yogerst

BOEING AIRPLANE CO., AERO-SPACE DIV.

Box 3707, Seattle, Wash. (Tel. JUNiper 6-2121)
 Mgr.—Material Dept.: M. W. McClung
 Mgr.—Minuteman Proc.: E. G. Swanson
 Mgr.—Bomarc Proc.: F. E. Akin S, MS, CT, RO, HSE

BOGART MFG. CORP.

315 Selgel St., Brooklyn 6, N. Y. (Tel. HY 7-4972)
 Supvr.: H. Schoenfeld
 Purch. Agents: W. Edgar & A. Levinson
 Expeditor: R. Goldberg
 Mgr.—Engrg. Sales: Lee N. Blatt RD

BOGUE ELECTRIC MFG. CO.

52 Iowa Ave., Poterson 3, N. J. (Tel. LAMbert 5-2200)
 Purch. Agent: Miss A. Schinmon
 Purch. Dept.: J. Whitcomb
 Sales Mgr.: Joseph Rambusek PS, MS, CT, TT, RD

BOHN ALUMINUM & BRASS CORP.

1400 Lafayette Bldg., Detroit 26, Mich. (Tel. Woodward 3-0655)
 V. P.—Sales: R. C. Aylward

BO MYTE CO., INC., THE

Green St., Silverdale, Pa. (Tel. ALPine 7-2300)
 Purch. Agent: A. Swann
 Pres.: Richard P. Kahn M

BOND METAL SURPLUS CO.

321 Canal St., New York 13, N. Y. (Tel. CA 6-2928)
 Sales Mgr.: Jack Cooper M

BONNY MFG. CORP.

146 Main St., Maynard, Mass. (Tel. TWIn Oaks 7-9311)
 V. P.—Sales: John A. Crowe M

BOOKER-COOPER, INC.

6940 Formdale Ave., North Hollywood, Calif. (Tel. TRionge 7-7105)
 Sales Dir.: Roy Smith

BOONTON ELECTRONICS CORP.

738 Speedwell Ave., Morris Plains, N. J. (Tel. JE 9-4210)
 Purch. Agent & Sales Mgr.: J. Frucht
 Buyer: N. A. Mangieri

BOONTON RADIO CORP.

50 Intervale Rd., Boonton, N. J. (Tel. DEerfield 4-3200)
 Purch. Agent: R. S. Lesser
 Sales Mgr.: H. J. Long

ARTHUR E. BOOTH CO.

265 S. Alexandria Ave., Los Angeles 4, Calif. (Tel. DUnkirk 1-2161)
 Purch. Agent: A. R. Booth
 Sales Mgr.: Arthur E. Booth CT

BOOTS AIRCRAFT NUT CORP.

Newtown Turnpike, Norwalk, Conn. (Tel. Victo 7-2446)

Dir.-Purch.: Charles A. Milton
Purch. Agent: Frank Lowe
Sales Mgr.: Robert Riddle M

BORDEN CHEMICAL CO.
350 Madison Ave., New York 17, N. Y. (Tel. MUrray Hill 7-4100)
Chem. P. A.: Richard J. Magner
Exec. V. P.-Sales: E. J. Sullivan
Mgr.-Govt. Services: L. J. Jawarski M, RD

BORDEN CHEMICAL CO., THE RESINITE DEPT.
1 N. Clark St., North Andover, Mass. (Tel. MURdock 7-7131)
Purch. Agent: H. R. Erickson, P. D. Box 430, Compton, Calif. (Tel. NEWmark 9-0423)
Works Mgr.: C. E. Druge

BORG EQUIPMENT DIV., AMPHENL-BORG ELECTRONICS CORP.
120 S. Main St., Janesville, Wisc. (Tel. PLEasant 4-6616)
Sales Mgr.: R. K. Johnson G, CT, TT

BORG-WARNER CONTRDLS, BORG-WARNER CORP.
3300 Newport Blvd., Santa Ana, Calif. (Tel. KImberly 5-5581)
Purch. Agent: H. E. Schuyler
Sales Mgr.: H. G. Ayers

BORG-WARNER CORP.
200 S. Michigan Ave., Chicago 4, Ill. (Tel. WA 2-7700)
Pres. & Chief Exec.: Robert S. Ingersoll

BORG-WARNER MECHANICAL SEALS, DIV.-BORG-WARNER CORP.
P. O. Box 2017, Terminal Annex, Los Angeles 54, Calif. (Tel. LUdlow 7-6171)
Gen. Mgr.: H. E. Tracy PS, MS

BOSTON AUTO GAGE CO., THE
70 West St., Pittsfield, Mass. (Tel. HILLcrest 5-5691)
Dir.-Sales & Purch.: T. C. Nelson
Sales Engr.: J. H. Mattoon M

BOSTON GEAR WORKS
14 Hayward St., Quincy 71, Mass. (Tel. PResident 3-0400)
Purch. Agent: William MacRae
Mgr.-Field Sales: William J. Johnson
Mgr.-Inside Sales: Edward P. Williams

BOSTON INSULATED WIRE & CABLE CO.
64 Bay St., Boston, Mass. (Tel. CDlumbia 5-2104)
Purch. Agents: Alden C. Davis, Hochig Aghjayan

BOSTROM CORP.
133 W. Dragon St., Milwaukee 4, Wis. (Tel. BRoadway 1-4122)
Purch. Agent: Ed Weiland
Dir.-Mktg.: R. D. Cory
Dir.-Chemical Div.: H. G. Kilb M

BOUND BROOK OIL-LESS BEARING CO.
Bound Brook, N. J. (Tel. ELLiot 6-0441)
Dir.-Purch.: D. Braakes
Purch. Agent: S. Richardson
Sales Mgr.: W. F. Kiney
V. P.-Sales: S. S. Connor

BOURNS, INC.
6135 Magnolia Ave., P. O. Box 2112, Riverside, Calif. (Tel. DVerland 4-1700)
Purch. Agent (Trimpt Div.): M. McGuire
Purch. Agent (Instrument Div.): Brad Stevens
Dir.-Sales (Trimpt Div.): D. P. Vaughan
Dir.-Sales (Instrument Div.): E. J. Gaepfinger MS, TT, RD

BOW SOLDER PRODUCTS CO., INC.
251 Freeman St., Brooklyn 22, N. Y. (Tel. EVergreen 9-4863)
Purch. Agent: S. Turkus, Jr.
Sales Mgr.: N. Zimmer M

BOWEN-McLAUGHLIN-YORK, INC.
955 Kings Mill Rd., York, Pa. (Tel. Yark 7814)
Dir.-Purch.: C. S. Branson
Buyers: William Glassmeyer & William Ritter
V. P.-Sales: J. E. Forinash S, MS

BOWER ROLLER BEARING DIV.
3040 Hart, Detroit 14, Mich. (Tel. VA 2-7300)
Purch. Agent: Charles Heller
Mgr.-Sales: S. E. Davidson

BWDERS BATTERY & SPARK PLUG CO.
P. D. Box 1262, Reading, Pa. (Tel. WALKer 9-0771)
Purch. Agent: Harold L. Deprill
Sales: Paul E. Goodrich

BOWMAR INSTRUMENT CORP.
8000 Bluffton Rd., Box 2835, Ft. Wayne, Ind. (Tel. Sherwood 3121)
Purch. Agent: Robert J. Stratman

Gen. Sales Mgr.: George F. McCarthy, Great Neck, N. Y. (Tel. HUNter 2-1750) PS, MS, G, RD

BOWSER, INC.
1302 E. Creighton Ave., Fort Wayne, Ind. (Tel. HArrison 2341)
Dir.-Purch.: E. A. Steinhauer
Purch. Agent: M. Castan
Sales Admin.: P. J. Peterink S, MS, RD

BOWSER, INC., DEFENSE DIV.
1302 E. Creighton Ave., Ft. Wayne, Ind. (Tel. HArrison 2341)
Dir.-Purch.: E. A. Steinhauer
Asst. Purch. Agent: Milton Castan
Sales Admin.: Paul J. Peterink MS, G, TT, RD

BOYT HARNES CO.
303 New York Ave., Des Moines 5, Iowa (Tel. CH 9-4188)
Pres.: Robert F. Boyt
V. P.-Purch.: B. B. Quiner
V. P.-Sales: James D. Boyt MS

BRACH MFG. CORP.
200 Central Ave., Newark 3, N. J. (Tel. HUMBaldt 2-1500)
Sr. Buyers: P. Marina, F. Werner, K. Gaza
Dir.-Sales: J. Berger MS, CT, TT

BRADLEY SEMI CONDUCTOR CORP.
275 Welton St., New Haven, Conn. (Tel. State 7-7181)
Purch. Agent: Robert A. Brothers
Gen. Sales Mgr.: William J. Gagnon

W. H. BRADY CO.
727 W. Glendale Ave., Milwaukee 12, Wisc. (Tel. EDgewood 2-8100)
Purch. Agent: Eldon Meier
V. P.-Sales: T. W. Wise M

BRAM METALLURGICAL CHEMICAL CO.
820 65th Ave., Philadelphia 26, Pa. (Tel. WAverly 4-2121)
Metallurgical-Chemical Exec.: H. H. Bram
Asst.: T. G. Bram M

WILLIAM BRAND, REX DIV.-AMERICAN ENKA CORP.
31 Sudbury Rd., Concord, Mass. (Tel. EMerson 9-9630)
Mgr.-Planning & Purch.: J. R. Garey
Purch. Agent: C. J. Crawford
Dir.-Mktg.: G. E. Bell
Gen. Sales Mgr.: C. R. Riordan M

BRANSON CORP.
41 S. Jefferson Rd., Whippany, N. J. (Tel. TUCKer 7-1100)
Purch. Agent: C. H. Tuttle
Sales Mgr.: C. G. Braun

BRANSON INSTRUMENTS, INC.
33 Brown House Rd., Stamford, Conn. (Tel. DAvis 4-6721)
Purch. Agent: Celso Biagini
Pres.: Peter K. Bloch
Sales Mgr.: John E. Bobbin CT

BRAUN-KNECKT-HEIMANN CO., INDUSTRIAL DIV.
601 D'Niell Ave., Belmont, Calif. (Tel. LYrell 3-8276)
Purch. Agent: H. M. Warden
Sales Mgr.: H. Hutchings RD

BREEZE CORPORATIONS, INC.
700 Liberty Ave., Union, N. J. (Tel. MURdock 6-4000)
Purch. Agent: R. Fuller
Mgr.-Mktg.: Matthew Lyon
Sales Mgr.: Alban P. Mudd
Asst. Sales Mgr.: J. M. Hearn M

RICHARD D. BREW & CO., INC.
90 Airport Rd., Concord, N. H. (Tel. CApital 5-6605)
Purch. Agent: Paul Fisher
Buyer: Merton Talman
V. P.-Sales: Roy E. Lonnberg G, TT, RD

BRIDGEPORT BRASS CO.
30 Grand St., Bridgeport 2, Conn. (Tel. EDison 4-1182)
V. P.-Sales: R. L. Allen
Dir.-Purch.: A. Malisek M, RD

BRIDGEPORT THERMSTAT DIV., ROBERTSHA-W-FULTON CDNTRDLS CO.
155 Hill St., Milford, Conn. (Tel. TRinity 8-1721)
Purch. Agent: H. V. Bashea
Sales Mgr.: Carl F. Ahlheim

BRIGGS ASSOCIATES, INC.
10 De Kalb St., Narristown, Pa. (Tel. BRoadway 9-0400)
Buyer: Miss J. Wallman
Sales Mgr.: G. A. Hedden, Jr.
Sales Admin.: J. F. Baldino MS, CT

BRIGGS FILTRATION CO., THE
River Rd., Washington 16, D. C. (Tel. OLiver 4-7722)
Purch. Agent: D. H. Hardester
V. P.-Gen. Mgr.: J. H. Nash
Sales: John MacGuffin MS, RD

BRIGHT STAR INDUSTRIES
600 Getty Ave., Clifton, N. J. (Tel. GREGory 1-3200)
Dir.-Purch.: Arthur T. Levine
Gen. Sales Mgr.: Charles F. Bishop PS, M, CT

BRIGHTDN CORP.
820 State Ave., Cincinnati 4, Ohio (Tel. GRandview 1-4110)
Purch. Agent: C. Johnson
Sales Mgr.: Richard G. Hext M

BRILHART PLASTICS CORP.
Dld Country Rd., Mineola, L. I., N. Y. (Tel. PLaneer 6-0425)
Purch. Agent: William Shea

E. W. BRILMAYER LABS., INC.
86 Fulton St., New York 38, N. Y. (Tel. BEekman 3-7914)
Pres.: Eugene W. Brilmayer CT

BRISCOE MFG. CO.
1055 Gibbard Ave., Columbus 3, Ohio (Tel. AX 4-3376)
Purch. Agent: Mrs. Jeanne L. Hewitt
Pres.: E. H. Briscoe MS

BRISTOL BRASS CDRP., THE
580 Broad St., Bristol, Conn. (Tel. LUdlow 2-3161)
Purch. Agent: Fred J. Greenleaf
Gen. Sales Mgr.: Donald Gay M

***BRISTOL CO., THE**
Waterbury 20, Conn. (Tel. PLaza 6-4451)
Purch. Agent: F. Frohn
Asst. Purch. Agents: E. J. Griffith & J. E. Coleman
V. P.-Sales: H. E. Beane
Sales Mgr., Aircraft Dept.: W. C. Calvert MS, G, CT
*(See advertisement this issue)

BRISTOL INSTRUMENT GEARS, INC.
11 Union St., Bristol, Conn. (Tel. LUdlow 3-1395)
Treass.: Alexander Carros RD

BRISTDL MOTDRS DIV.-VOCALINE CD. OF AMERICA, INC.
Coulter St., Dld Saybrook, Conn. (Tel. EVergreen 8-3414)
Purch. Agent: Robert B. Caoney
Sales: Charles M. Murphy

***BRISTOL SIDDELEY ENGINES LTD.**
Mercury House, 195, Knightsbridge, London, S.W. 7
Director: Sir W. Reginald Verdon Smith, Chrm.,
Sir Ray H. Dobson, Vice Chrm., H. T. Chapman,
Deputy Chrm.-Caventy
Chief Engr.: Dr. E. Warlow Davies
*(See advertisement this issue)

BRITTON ELECTRONICS CORP.
19 Warren Place, Mt. Vernon, N. Y. (Tel. DWens 9-3311)
V. P.-Purch.: F. M. Camins
Purch. Agent: Ray Rogers
Asst. Purch.: Paul Dengler
Dir.-Sales: Henry S. Dvnt

BROADVIEW RESEARCH CDRP.
1811 Trousdale Dr., Burlingame, Calif. (Tel. Diamond 4-7625)
V. P.-Purch.: Warren R. Kehler
Dir.-Planning: Theodore R. Bralida
Pres.: Richard De Lancie
Acting Dir.-Intelligence Systems Div.: Frederick J. Dayle, Washington, D. C. (Tel. FEderal 7-7300) RD

BRDOK MDLDRG CORP.
30 Industrial Way, Norwood, Mass. (Tel. NORwood 7-4715)
Purch. Agent: F. K. Whiting
Sales Mgr.: C. M. Cunningham S, M

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Structures PS
Propulsion System S
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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MILTON H. BROOKS & SON ENGRAVING & MFG. CO., INC.
2134 N. Upton St., Arlington 7, Va. (Tel. J Jackson 2-4803)
V. P.-Purch. & Sales: Milton H. Brooks, Jr.
M, G, CT, RD

BROOKS & PERKINS, INC.
1950 W. Fort St., Detroit 16, Mich. (Tel. TA 5-5900)
Purch. Agent (Mgr.): H. L. Westerdale
Purch. Dept.: John Drypen & Neil McLean
Gen. Sales Mgr.: H. P. Dunne
S, MS, M

BROOKS ROTAMETER CO.
407 W. Pine St., Hatfield, Pa. (Tel. ULysses 5-5174)
Purch. Agent: Frederick Roethemeier
Exec. V. P.-Sales: Seymour Blechman
MS, CT, RO

DAYTON T. BROWN, INC.
1305 Strong Rd., Copiague, N. Y. (Tel. TUrner 4-2700)
Purch. Agent: Stephan Babinsky
Exec. V. P.: William P. McLean
V. P.-Sales: Ernest E. Tealey
S, PS, MS, M, G, CT, TT

S. G. BROWN
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Sales Mgr.: Ed Cornfeld

BROWN & SHARPE MFG. CO.
Promenade, Providence 1, R. I. (Tel. DExter 1-5000)
Purch. Agent: E. L. Anderson, Jr.
MS

BROWN-LINE CORP.
111 Main St., El Segundo, Calif. (Tel. EA 2-2237)
Purch. Agent: A. C. Tloughan
V. P.-Sales: M. A. Miner
MS

BRUCE ENGRG. CO.
1633 W. 134th St., Gardena, Calif. (Tel. FAculy 1-2220)
Sales Mgr.: Burr McDowell
Supt.: M. K. Redlin
S, PS, MS, M

BRUNING CO., THE
601 S. 9th St., Lincoln, Neb. (Tel. HE 5-3511)
Purch. Agent: E. G. Moffitt
Sales Mgr.: J. D. Irvine
Pres.: E. F. Bruning

BRUNO-NEW YORK INDUSTRIES CORP.
460 W. 34th St., New York 1, N. Y. (Tel. LOnacre 4-5930)
Gen. Mgr. & Pres.: Irving Strauss
Purch. Agent: Ralph Wilson
Asst. to Pres.: Emouel Singer
G, CT, TT, RD

BRUNSON INSTRUMENT CO.
8000 E. 23rd St., P. O. Box 7951, Kansas City 29, Mo. (Tel. HUmholt 3-3187)
V. P.-Purch.: Gene E. Brunson
V. P.-Sales: M. C. Anderson
CT, RD

BRUNSWICK BALKÉ COLLENDER CO., THE, OFFENSE PRODUCTS DIV.
1700 Messler St., Muskegon, Mich. (Tel. 2-6681)
Buyer: R. W. Jarman
Gen. Sales Mgr.: L. A. Niedfeldt
Buyer: E. Spitzer, Marion, Va. (Tel. S TState 3-7111)
S, PS, RD

BRUNSWICK INSTRUMENTS
Box 813, New Brunswick, N. J. (Tel. CHarter 7-5919)
Chief Engr.-Purch.: L. A. Rosenthal
Sales Mgr.: E. J. Horodner
RO

BRUSH BERYLLIUM CO., THE
5209 Euclid Ave., Cleveland, O. (Tel. ENdicott 1-5400)
Dir.-Purch.: Richard Anuskiewicz
Purch. Agent: R. A. Cobb
V. P.-Sales: N. W. Boss
M, RD

BRUSH INSTRUMENTS, DIV.-CLEVITE CORP.
37th & Perkins, Cleveland 14, Ohio (Tel. ENdicott 1-3315)
Purch. Mgr.: W. J. David
Gen. Sales Mgr.: Norman R. Klivans

BRYANT COMPUTER PRODUCTS DIV.
123 Main St., Springfield, Vt. (Tel. TUrner 5-2141)
Purch. Agent: A. E. Belanger
Purch. Dept.: W. S. Pozner
Dir.-Sales: P. L. Smith
M

BRYNS INSTRUMENT CO.
7026 Sixth Ave., Brooklyn 9, N. Y. (Tel. BEAchview 8-0305)
Purch. Agent: Theodore Brys
Sales Mgr.: Otto Lohkemper
M, G, CT, TT

BUCHANAN ELECTRICAL PRODUCTS CORP.
523 U. S. 22, Hillside, N. J. (Tel. WAverly 3-7474)
Dir. Supt. & Purch. Agent: Albert Mittleman
V. P.-Chg. Sales: Paul E. Vance
M

BUCHMANN SPARK-WHEEL CORP.
4-20 47th Ave., Long Island City 1, N. Y. (Tel. RAvenswood 9-2980)
Gen. Mgr.: E. Schmidt
V. P.-Purch.: R. Dismas
Dir.-Sales: P. Schmidt

BUCKEYE IRON & BRASS WORKS
324 E. 3rd St., Dayton 1, O. (Tel. BAldwin 4-8355)
Purch. Agent: R. L. Reel
Sales Mgr.: Ray O. Comp
MS

BUCKEYE TOOLS CORP.
5005 Springboro Pike at U. S. 25, Dayton 39, Ohio (Tel. AXminster 8-5281)
Dir.-Purch.: E. E. Reeves
V. P.-Mktg.: E. B. Meynard

BUD RADIO, INC.
2118 E. 55th St., Cleveland 3, Ohio (Tel. HEnderson 1-7166)
V. P.-Purch.: E. J. Korey
Pres.: A. N. Haas
MS, M

BUDD CO., THE
2450 Hunting Park Ave., Philadelphia 32, Pa. (Tel. BAldwin 5-9100)
Dir.-Purch.: W. A. Ehresman
Purch. Agent, Steel: R. F. Estes
Purch. Agent: W. G. Sutter
Gen. Sales Mgr.: W. H. Knowles, Jr.
S, M, CT

BUDD LEWYT ELECTRONICS, INC.
43-22 Queens St., Long Island City 1, N. Y. (Tel. EXeter 2-5050)
Purch. Agent: Alter Hurwitz
V. P.-Sales: Jerome L. Strauss
MS, G, CT, TT, RD

BUDELMAN ELECTRONICS CORP.
375 Fairfield Ave., Stamford, Conn. (Tel. FIreside 8-9231)
Purch. Agent: Edward Callum
Sales Mgr.: Robert L. Feistel
TT, RD

BUFFALO METAL CONTAINER CORP.
35 Roetzer St., Buffalo 11, N. Y. (Tel. BA 3944)
Dir.-Purch.: Robert J. Schieder
Sales Mgr.: A. E. Bausenbach
RO

BUFFALO WIRE WORKS CO., INC.
320 Terrace, Buffalo 2, N. Y. (Tel. CLeveland 4-520)
Purch.: Charles F. Scheeler, Jr.
Sales Mgr.: Norman F. Grundner
M

H. H. BUGGIE DIV., BURNDY CORP.
P. O. Box 817, Toledo 1, Ohio (Tel. OXFord 1-2411)
Dir.-Purch.: Marty Koehl
Gen. Sales Mgr.: F. L. Cahill
MS, M, G, CT, TT, RO

BULLARD CO., THE
286 Canfield Ave., Bridgeport 9, Conn. (Tel. EDison 6-2511)
Mgr.-Purch. & Traffic: T. H. Wilber
Gen. Sales Mgr.: H. E. Neale

BULOVA RESEARCH & DEVELOPMENT LABS., INC.
62-10 Woodside Ave., Woodside 77, N. Y. (Tel. NEwtown 9-5700)
Purch. Mgr.: Walter Rogers
V. P.-Engrg. Sales: Oscar B. Brockmeyer
CT, TT, RD

BULOVA WATCH CO., ELECTRONICS DIV.
40-06 62nd St., Woodside 77, N. Y. (Tel. NEwtown 9-5700)
Sales Mgr.: J. O. Harlin

BULOVA WATCH CO., INC., TURTLE MOUNTAIN DIV.
Rollo, N. O. (Tel. Rollo 408)
Plant Mgr.: Oelbert E. Anderson
Dir.-Sales: Warren Young
M, G, CT

BULOW ELECTRIC CO.
11000 Capital, Oak Park 37, Mich. (Tel. LI 7-1133)
Dir.-Purch.: C. J. Galea
Sales Mgr.: R. L. Bulow
RD

BUNTING BRASS & BRONZE CO., THE
715 Spencer St., Toledo 9, Ohio (Tel. EVERgreen 2-3451)
Dir.-Purch.: W. H. Roberts
Asst. Treasurers: R. G. Sevrence & R. L. Lingruen
Dir.-Sales: R. O. Oyler
M

BURG TDOL MFG. CO., INC.
15001 S. Figueroa St., Gardena, Calif. (Tel. FA

1-3510)
Purch. Agent: M. Tavlin
V. P.-Sales: J. Burg
BURGESS BATTERY CO., DIV.-SERVEL, INC.
Foot of Exchange, Freeport, Ill. (Tel. ADoms 2-2161)
Purch. Agent: Raymond Beldt
V. P.-Sales: C. E. Balz
G, CT, TT

BURGMASER CORP.
13226 S. Figueroa, Gardena, Calif. (Tel. FAculy 1-2931)
Sales Mgr.: Edward G. Merk
Purch. Agent: Marvin Tavlin, 15001 S. Figueroa St., Gardena, Calif. (Tel. FAculy 1-3510)

BURKLYN CO.
3429 Glendale Blvd., Los Angeles 39, Calif. (Tel. NOrmandie 2-3111)
Chief Clerk: A. Reed
Dir.-Sales & Purch.: Roland Stevens
Asst. Mgr.: A. L. Kissler
MS, CT, TT

BURNDY CORP., OMATON DIV.
Richards Ave., Norwalk, Conn. (Tel. TEmple 8-4444)
Dir.-Purch.: L. Menzl
Dir.-Sales: S. D. Bergman
Buyers: W. Frey, J. Hartcorn
MS, G, CT, TT

BURNELL & CO., INC.
10 Pelham Pkwy., Pelham Manor, N. Y. (Tel. PEIham 8-5000)
Purch. Agent: V. Triwedi
Sales Mgr.: L. Schwartz
M, TT

BURNER-HOLLDON MFG. CORP.
4706 Rhode Island Ave., Hyattsville, Md. (Tel. UNion 4-5401)
Secy.-Treas.: Frank A. Holloman
Pres.: C. Randolph Burner
Chief Engr.: Charles K. Ramsdell
S, MS

BURNS & ROE INC., CONSULTING ENGINEERS
160 W. Broadway, New York 14, N. Y. (Tel. REctor 2-7000)
Purch. Agent: G. L. Ryan
Dir.-Defense & Aero Div.: J. E. Robbins
V. P.-Sales: L. F. A. Mitchell
S, MS, CT, TT, RD

BURNLEY BATTERY & MFG. CO., THE
103 Clay St., North East, Pa. (Tel. SARatoga 5-3595)
Pres.: N. C. Swanson

BURR-BROWN RESEARCH CORP.
Box 6444, Tucson, Ariz. (Tel. AXtel 8-0772)
Dir.-Purch. & Sales: Thomas R. Brown, Jr.
RD

BURROUGHS CORP.
6071 2nd Ave., Detroit 32, Mich. (Tel. TRinity 5-2260)
Dir.-Purch.: Russ T. Stark
Defense Sales Mgr.: Jack C. Lindley
MS, G, CT, RD

BURROUGHS CORP., ELECTRODATA DIV.
460 Sierra Madre Villa, Pasadena, Calif. (Tel. MUrray 1-3251)
Mgr.-Purch.: W. B. Wight
Purch. Agent (Gen. Prac.): N. E. Rankainen
Purch. Agent (Mech. Proc.): C. B. Mulholland
Sales Mgr.: Robert G. Dee

BURROUGHS CORP., ELECTRONIC TUBE DIV.
Mt. Bethel Rd., Plainfield, N. J. (Tel. PL 7-5000)
Purch. Agent: Vincent Perrucci
Sales Dir.: Arthur B. Shesser
MS, CT

BURTON-RODGERS, INC.
Blade & Helen Sts., Cincinnati 16, Ohio (Tel. UNiversity 1-2155)
Asst.-Pres.: O. A. Linse
Purch. Agent: Allen Loftspring
MS, CT, RO

BURTON-ROGERS CO., SALES DIV.-HOYT ELECTRICAL INSTRUMENTS
42 Carleton St., Cambridge 42, Mass. (Tel. ELiot 4-1643)
Dir.-Sales: William Burton
Chairman-Board: C. W. Burton
Pres.: V. S. Church

E. W. BUSCHMAN CO., THE
Cincinnati 32, Ohio (Tel. MULberry 1-1600)
Purch. Agent: A. E. Oehler
Asst. Purch. Agent: O. Scholl
Pres.: R. B. Vogt
S, M

BUSHINGS, INC.
4358 Coolidge Hwy., Royal Oak, Mich. (Tel. LIBerty 9-3320)
V. P.-Purch.: K. W. Maust
V. P.-Sales: H. G. Moore
M

BUSSMANN MFG. DIV., MCGRAW-EDISON CO.
University at Jefferson, St. Louis 7, Mo. (Tel. GARfield 1-7400)

Dir.-Purch.: Lee J. Bussmann
V. P.-Sales: J. C. Ingram M

BUTLER MFG. CO.
7400 E. 13th St., Kansas City, Mo. (Tel. BEnton 1-7400)
Dir.-Purch.: L. P. Melcher
V. P.-Mktg.: H. A. Edlund S, MS, M

A. M. BYERS CO.
1810 Clark Bldg., Pittsburgh 22, Pa. (Tel. ATlantic 1-8110)
Dir.-Purch.: F. Engelhardt M

BYRON JACKSON PUMPS, INC.
2300 E. Vernon Ave., Los Angeles, Calif. (Tel. LUdlow 7-6171)
Purch. Agent: Elmer C. Prairie
Mgr.-Sales: N. O. Jesse MS, RD

BYTREC CORP.
50 Hunt St., Newton 58, Mass. (Tel. WAlnut 6-0360)
Prod. Mgr.: Malcolm Green
Buyer: J. A. Simone
Chief Engr.: David J. First
Sales Mgr.: Stanley Charren MS, CT, RD

CBS ELECTRONICS, DIV.-COLUMBIA BROADCASTING SYSTEM, INC.
100 Endicott St., Oonvers, Mass. (Tel. SPring 4-2360)
Dir.-Purch.: Edward R. Carroll
Purch. Agent: John F. Ryan
Asst. Purch. Agent: William E. Dennis
Buyers: R. A. Powers, J. W. Conner, F. W. Courage, W. W. Cook, E. F. Murphy, H. J. McLaughlin
V. P.-Mktg.: Reed V. Bantecou

CBS LABS., DIV.-THE COLUMBIA BROADCASTING SYSTEM
227 High Ridge Rd., Stamford, Conn. (Tel. DAVIS 5-4321)
Dir.-Purch.: Ralph Oonue
Mgr., Mil. Liaison: Howard A. Zeimer TT, RD

C. E. M. CO., INC.
24 School St., Oanielson, Conn. (Tel. PRescott 4-8571)
V. P.-Purch.: Hans Koehl
Sales Mgr.: R. J. Harrington

CESCO
4025-37 Sebastopol Hwy., Santa Rosa, Calif.

CG ELECTRONICS CORP.
1500 Central East, Albuquerque, N. M. (Tel. AXtel 9-7601)
Purch. Agent: Ino Crompton
Mktg. Dept.: Ed Yrisorri, Jr. MS, G, CT, TT, RD

CGS LABS., INC.
59 Oanbury Rd., Rte 7, Wilton, Conn. (Tel. POrter 2-5521)
Purch. Agent: George W. Korper
Asst. Purch. Agent: Lloyd Sturges
V. P.-Mktg.: Melvin L. Jackson RD

C & H SUPPLY CO.
415 E. Beach Ave., Inglewood 3, Calif. (Tel. ORegon 8-4181)
Purch. Agent: Clifford Stockdale
Chief Engr.: James Callins
Sales Mgr.: James C. Colfer M

C & K COMPONENTS, INC.
101-103 Morse St., Newton 58, Mass. (Tel. WAlnut 6-0800)
Purch. Agent: Charles Crothers
Buyer: L. Greenblatt
Sales Mgr.: Robert H. Sturdy MS, G

CABLE ELECTRIC PRODUCTS INC.
234 Ooball St., Providence, R. I. (Tel. STuart 1-5400)
Purch. Agent: W. Balutowski
Dir.-Sales: F. W. Schwartz M, RD

CADILLAC GAGE CO.
25760 Groesbeck Hwy., Warren, Mich. (Tel. PRescott 7-7100)
Dir.-Purch.: H. Goll
Sales Mgr., Aero Div.: Robert E. Kolp MS, CT, RD

CADILLAC PLASTIC & CHEMICAL CO.
15111 Second Ave., Detroit 3, Mich. (Tel. TOWnsend 9-9500)
Purch. Agent: Al Piper
Tech. Purch. Offr.: Frank Bamard
Dir.-Sales: Kenneth Globoch M

CADILLAC PLASTIC CO. OF CALIF.
2305 Beverly Blvd., Los Angeles, Calif. (Tel. OUnkirk 5-3001)
Mgr.: Eugene Quinn M

CAIG LABS.
46 Stonwood Rd., New Hyde Park, L. I., N. Y. (Tel. Pioneer 2-0278)
Purch.: A. Pogelson
Sales: O. Lohkemper M

CAL CONNECTOR CO.
7360 Varna Ave., North Hollywood, Calif. (Tel. TRiangle 7-2623)
Owner: Scott Glenn G, CT, TT

CAL PARTS CO.
14858 Aetna St., P. O. Box 134, Van Nuys, Calif. (Tel. TRiangle 3-2360)
Purch. Mgr.: H. J. Ceiley
Sales Dept.: R. Levison M

CALCON MFG. CO., INC.
100 Oakland Ave., Washington, Pa. (Tel. BALdwin 2-8190)
Purch. Agent: F. H. Haynor
Wks. Mgr.: A. W. Moore
Gen. Sales Mgr.: James C. Marasco MS, CT, RD

CALCORP.
1010 W. Philadelphia St., Whittier, Calif. (Tel. RAYmond 3-0211)
Gen. Mgr.: Robert Feltham
Pres.: Andrew A. Brown
Sales Mgr.: Edwin A. Trent S, MS, RD

CALEDONIA ELECTRONICS & TRANSFORMER CORP.
P. O. Box 98, Caledonia, N. Y. (Tel. KEystone 8-4423)
Dir.-Purch.: F. E. Gannon
Sales Mgr.: R. E. Hutchins

CALIDYNE CO., INC., THE SUB.-LING-ALTEC ELECTRONICS, INC.
120 Cross St., Winchester, Mass. (Tel. PArkview 9-3810)
Purch. Agent: Gordon Warthen
Asst. Purch. Agent: Walter Meehan
V. P.-Prod.: Joseph Ostefano
Dir.-Sales: Stanley H. Walters

CALIFORNIA AIRCRAFT PRODUCTS
790 Greenfield Or., El Cajon, Calif. (Tel. Hlckory 2-3451)
Purch. Agent: Gavin W. Coles
Sales Mgr.: Joseph S. Alan MS, RD

CALIFORNIA COMPUTER PRODUCTS, INC.
8714 Cleto St., Downey, Calif. (Tel. WAlnut 3-1913)
Dir.-Quality Control: F. K. Kelsay
Pres.: L. D. Kilpatrick G, TT

***CALIFORNIA GENERAL, INC.**
P. O. Box 565, Chula Vista, Calif.
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CALIFORNIA PLASTECK INC.
219 E. 4th St., Los Angeles 13, Calif. (Tel. MA 4-4311)
Gen. Mgr.: Les Madansky
Sales Dept.: Harry Simmons G, CT, TT

CALIFORNIA SPRING CO., INC.
8401 E. Slauson Ave., Pico-Rivera, Calif. (Tel. RAYmond 3-8581)
Purch. Agent: Robert Harris
V. P. & Sales Mgr.: Roy E. Colfield

CALIFORNIA STAMPING & MFG. CO.
909 E. 59th St., Los Angeles 1, Calif. (Tel. AOams 1-5141)
Gen. Mgr.: P. V. Eskew, Sr.
Sales Mgr.: Richard Wink S, MS

CALIFORNIA TECHNICAL INDUSTRIES, DIV.-TEXTRON INC.
1421 Old County Rd., Belmont, Calif. (Tel. LYtel 3-8466)
Dir.-Purch.: John Burk
Buyers: Carl Strigall & Betty Wellington
Sales Mgr.: H. C. May CT, RD

CALINOV DIV., ILLINOIS TOOL WORKS
3155 El Segundo Blvd., Hawthorne, Calif. (Tel. ORegon 8-3437)
Purch. Agent: Willard Long
Purch. Asst.: Jean Jones
Chief Engr.: Thomas R. Boyd
Sales Mgr.: H. O. Hansen S, MS

CALLAIR, INC.
Afton, Wyoming (Tel. 166)
Pres. & Gen. Mgr.: John J. Mangum, Jr.
Purch.: Barlow H. Coll S

CALLERY CHEMICAL CO.
P. O. Box 11145, Pittsburgh 37, Pa. (Tel. Evans City, Pa. 3510)
Purch. Agent: R. L. Horstman
Mgr.-Mktg.: R. A. Mulholland
Purch. Agent: L. O. Henderson, P. O. Box 1452, Muskogee, Okla. (Tel. MUrray 7-4401) M, RD

CALTRON PRODUCTS CO.
3518 W. Pico Blvd., Los Angeles 19, Calif. (Tel. REpUBLIC 4-2420)
Mgr.-Purch.: C. P. Swanson
Sales Mgr.: J. B. Sebrill M

CALVERT ELECTRONICS INC.
536 Broadway, New York 12, N. Y. (Tel. CAnal 6-7400)
Pres.: Murray Fudim
Purch.: Benjamin Fudim
V. P.-Sales: Bernard Fox M, CT

CAMBRIDGE FILTER CORP.
738 E. Erie Blvd., Syracuse 1, N. Y. (Tel. GRanite 5-1608)
Purch. Agent: Richard C. Linehan
Sales Mgr.: Donald E. Wendel MS, CT, RD

CAMBRIDGE THERMIONIC CORP.
445 Concord Ave., Cambridge 38, Mass. (Tel. TRowbridge 6-2800)
Purch. Agent: Frank C. Waterhouse
Sales Mgr.: Lowell Wilkes G, TT

CAMBRIDGE WIRE CLOTH CO., THE
Cambridge, Md. (Tel. ACademy 8-3000)
Purch. Agent: Fulton Moore
Exec. V. P.-Sales: F. L. Hooper M

CAMCAR SCREW & MFG. CO., DIV.-TEXTRON INDUSTRIES, INC.
600 Eighteenth Ave., Rockford, Ill. (Tel. WOODland 5-9451)
Purch. Agent: Iver Hawkinson
V. P.-Sales: James L. Holland

CAMDAL Precision, Inc.
28300 Groesbeck Hwy., Roseville, Mich. (Tel. PRescott 1-0400)
Purch. Agent: H. L. Miller
V. P.-Sales: A. R. Schwesinger

CAMERAFLEX DIV., THE FEDERAL MFG. & ENGRG. CORP.
1055 Stewart Ave., Garden City, L. I., N. Y. (Tel. Pioneer 2-7400)
Purch. Agent: Harry Levin
Chief Designer: Joseph Henkel
Mgr.-Special Proj. Sales: Henry J. Bopp, Jr. MS, G, CT, TT, RD

***CAMERON IRON WORKS, INC.**
P. O. Box 1212, Houston, Texas (Tel. OV 6-5511)
Purch. Agent: I. P. Oehl
Asst. Sales Mgr., Special Products Div.: R. O. Springer S
*(See advertisement this issue)

CAMLLOC FASTENER CORP.
22 Spring Valley Rd., Paramus, N. J. (Tel. HUbbard 9-4900)
Gen. Supt.: T. A. Barkauskas
Purch. Agent: U. G. Gropengeter
Purch. Dept.: T. Skelly
Eastern Sales Mgr.: Bennet F. Becker
Western Sales Mgr.: James G. English, 5410 Wilshire Blvd., Los Angeles, Calif. (Tel. WEbster 1-1361)

CAMPBELL CHAIN CO.
York, Pa. (Tel. York 5456)
V. P.-Mfg.: Howard D. Campbell
Purch. Agent: George Laver
V. P.-Mktg.: A. A. Holly M

CAMPBELL INDUSTRIES, INC.
Grant St., North Aurora, Ill. (Tel. AUrorra 6-8551) M

CANADIAN RADIUM & URANIUM CORP., MFG. DIV.
43 W. 16th St., New York 11, N. Y. (Tel. WAtkins 4-3760)
Purch.: Mrs. Rose Herman
Chief Engr.: B. Gorlin G, CT, RD

C. F. CANNON CO.
Springwater, N. Y. (Tel. 531)
Dir.-Sales: A. W. Shriner

CANNON ELECTRIC CO.
3208 Humboldt St., Los Angeles 31, Calif. (Tel. CApital 5-1251)

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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- Purch. Agent:** Earl Bixler
Mgr.-Purch.: Leroy Whitney
Gen. Sales Mgr.: Floyd M. Cate
Purch. Agent (Salem Div.): L. J. McCarthy, Pingree & Leavitt Sts., Salem, Mass. (Tel. Pioneer 5-0700)
Purch. Agent (Phoenix Div.): Charles Lochem, Jr., 2801 Airline, Phoenix, Ariz. (Tel. BRidge 5-4792)
Purch. Agent (Santa Ana Div.): Monty Burns, 666 E. Dyer Rd., Santa Ana, Calif. (Tel. KImberly 5-7121) M
- CANNON-MUSKEGON CORP.**
2875 Lincoln St., Muskegon, Mich. (Tel. 5-1676)
Purch. Agent: George Gimokas
Sales Mgr.: F. Kenneth Iverson M
- CANOGA DIV., UNDERWOOD CORP.**
15330 Oxnard St., Van Nuys, Calif. (Tel. SState 6-9010); 736 N. Beale St., Ft. Walton Beach, Fla.
Dir.-Purch.: Louis E. Moore
Buyers: J. Caminiti & D. Tayrien
V. P.-Sales: M. P. Roebuck TT
- CAPEWELL MFG. CO.**
60 Governor St., Hartford 2, Conn. (Tel. JAckson 2-8191)
V. P.: Seery C. Gordon
Purch. Agent: Bernard Dunphy RD
- CAPITAL CITY MFG. CO., INC.**
857 King Ave., Columbus 12, O. (Tel. AX 9-2149)
Purch. Agent: C. E. Bailey
Sales Engr.: L. E. Alspach S, PS, MS, RD
- CAPITOL MACHINE CO., THE**
36 Balmforth Ave., Danbury, Conn. (Tel. Pioneer 3-2758)
Purch. Agent & Sales Mgr.: Arthur E. Wilson MS, CT, TT, RD
- CAPTIVE SEAL CORP.**
30 Henry, Teterboro, N. J. (Tel. AT 8-0205)
Purch. Agent: R. Dodd
Purch.: R. T. Scott
Dir.-Sales: P. H. Palen PS, MS, CT, RD
- CARBOLINE CO.**
32 Honley Ind. Ct., St. Louis 17, Mo. (Tel. MI 7-5795)
Purch. Agent: R. Meder
Sales Mgr.: R. R. Rosenthal M
- CARBONE CORP., THE**
400 Myrtle Ave., Boonton, N. J. (Tel. DE 4-0700)
Purch. Agent: E. Wizenon
Sales Mgr.: E. Dixon M
- CARBORUNDUM CO., THE**
Niagara Falls, N. Y. (Tel. BUler 5-6631)
Purch. Mgr.: W. F. Burk, Jr.
Dir.-Mktg.: F. T. Keeler M, RD
- CARBORUNDUM CO., LATROBE PLANT, REFRACTORIES DIV.**
Latrobe, Pa. (Tel. KEystone 7-3331)
Purch. Agent: J. W. Bell, Jr.
Mgr.-Electronic Sales: D. S. Bowman M, RD
- CARBORUNDUM CO., REFRACTORIES DIV.**
Perth Amboy, N. J. (Tel. HIllicrest 2-3380)
Buyer: F. Richter
Mgr.-Refractories Sales Branch: A. A. Turner
Mgr.-Mktg.: J. M. Smith M
- CARBORUNDUM METALS CO., THE**
P. O. Box 32, Akron, N. Y. (Tel. LH 2-5454)
Buyer: William F. Pritchard
Mgr., Sales Branch: H. A. Andersen M
- CARDELL MFRS.**
1225 Harshman Rd., Dayton 31, Ohio (Tel. CLearwater 6-2311)
Dir.-Purch.: C. J. Snider
Dir.-Sales: T. K. Snider CT
- CARDOX DIV., CHEMETRON CORP.**
840 N. Michigan Ave., Chicago 11, Ill. (Tel. WHitehall 4-7450)
Purch. Agent: M. Hemman
V. P.-Sales: F. C. Rodgers MS
- CARLETON AVIATION CO., INC.**
Jamison Rd., East Aurora, N. Y. (Tel. CYpress 4838)
Dir.-Purch.: John H. Shimer
George Ord PS, MS, HSE
- CARLING ELECTRIC, INC.**
504 New Park Ave., West Hartford 7, Conn. (Tel. ADams 2-4461)
Purch. Agent: William Fleming
Asst. Sales Mgr.: Francis Hanselman
V. P.-Sales: Wesley T. Sorenson M
- G. O. CARLSON, INC.**
200 Marshalton Rd., Thorndale, Pa. (Tel. DUdley 4-2800)
Purch. Agent: G. B. Hubbard
V. P.-Sales: W. D. Gerstell M
- CARMER INDUSTRIES INC.**
22 N. 26th St., Kenilworth, N. J. (Tel. CH 5-1495)
Purch. Agent: F. Sanborn
Pres.: Carl Redmer
V. P.-Sales: Thomas J. Corbett M
- CAROL CABLE DIV.**
Box 260, Pawtucket, R. I. (Tel. PA 2-3100)
Purch. Agent: F. Sisson
Gen. Sales Mgr.: K. R. MacLean M
- CAROL ELECTRONICS CORP.**
315 W. Stephen St., Martinsburg, W. Va. (Tel. AMherst 7-8911)
Gen. Mgr.: Eric Ruckbrod M
- CARPENTER MFG. CO., INC.**
Highbridge Rd., P. O. Box 217, DeWitt 14, N. Y. (Tel. GIlbson 6-0670)
Gen. Mgr.: Hubert J. Carpenter M
- CARPENTER STEEL CO., THE**
153 W. Bern St., Reading, Pa. (Tel. Reading, FRonklin 4-8211)
Purch. Agent: R. P. Freehafer
Asst. Purch. Agent: G. D. Nahn
V. P.-Sales: H. S. Potter M
- CARPENTER STEEL CO., THE, ALLOY TUBE DIV.**
Springfield Rd., Union, N. J. (Tel. MURdock 6-7230)
Purch. Agent: V. T. Nolan
Asst. Purch. Agent: R. A. Southard
Sales Mgr.: P. E. Kelly M
- CARR FASTENER CO., DIV.-UNITED-CARR FASTENER CORP.**
31 Ames St., Cambridge 42, Mass. (Tel. KIrkland 7-4900)
Purch. Agent: F. J. Ross
Asst. Purch. Agent: David Erb
Gen. Sales: Arthur W. Rice, Jr.
- CARRIER CORP.**
Carrier Pkwy., Syracuse, N. Y. (Tel. HOward 3-8411)
Dir.-Purch.: Adolph Ruediger
- CARSON MACH. & SUPPLY CO.**
200 S. E. 29th St., Box 4547, Oklahoma City 9, Okla. (Tel. ME 4-0511)
V. P.: Henry R. Mills S, M
- J. C. CARTER CO., THE**
671 W. 17th St., Costa Mesa, Calif. (Tel. LIBerty 8-3421)
Purch. Agent: William C. Melo
V. P.-Mfg.: C. J. Allan
V. P.-Engrg. & Sales: M. D. Kilmer
Sales Mgr.: W. W. Saxton PS, MS, M, RD
- CARTER MFG. CORP.**
23 Washington St., Hudson, Mass. (Tel. JORdan 2-2206)
Pres.: W. Graustein
- CARTER MOTOR CO.**
2711 W. George St., Chicago 18, Ill. (Tel. JUUniper 8-7700)
V. P.-Purch.: A. J. Carter
Dir.-Sales: E. J. Mitchell TT, RD
- CARTRISEAL CORP.**
3515 W. Touhy Ave., Lincolnwood, Ill. (Tel. BR 4-6140)
Buyer: Stanley Pyzik
Sales Mgr.: B. M. Foster PS, MS
- A. W. CASH VALVE MFG. CORP.**
666 E. Wabash Ave., Decatur, Ill. (Tel. 2-8574)
Dir.-Purch.: Donald M. Perry
V. P.-Sales: G. William Madden MS
- CASTING ENGINEERS DIV., CONSOLIDATED FOUNDRIES & MFG. CORP.**
2323 N. Bosworth Ave., Chicago 14, Ill. (Tel. BLUckingham 1-5940)
Purch. Agent: Arthur Manulis
Sales Mgr.: F. H. Meeder S
- CATALIN CORP. OF AMERICA**
1 Park Ave., New York 16, N. Y. (Tel. MURray Hill 3-2100)
Adv. Mgr.: R. A. Woodard M
- CATALYTIC CONSTRUCTION CO.**
1528 Walnut St., Philadelphia 2, Pa. (Tel. KINGSley 5-7500)
V. P.-Purch.: Gerald J. Smith
- Buyers:** Francis H. Hoffbauer & Edwin B. Stebbins
Mgr., Govt. Sales: Alan McCone
- CATERPILLAR TRACTOR CO., DEFENSE PRODUCTS DEPT.**
Peoria, Ill. (Tel. 6-3311)
Mgr.: E. B. English
Mgr., Contracts Div.: T. A. Glass
Mgr., Sales Div.: C. B. Leber MS, CT, RD
- CATERPILLAR TRACTOR CO., ENGINE DIV.**
Peoria, Ill. (Tel. 6-3311)
Purch. Agent: R. D. Norris
Asst. Sales Mgrs.: Hugh Rose & R. A. Cumming
Sales Mgr.: F. V. Jacobs MS
- CATERPILLAR TRACTOR CO., INDUSTRIAL ENGINE PLANT**
Peoria, Ill. (Tel. 6-3311)
Purch. Agent: R. D. Norris
Buyer: R. V. Pearson
Sales Mgr.: F. V. Jacobs MS
- ALBERT H. CAYNE EQUIPMENT CORP.**
71 Spring St., New York 12, N. Y. (Tel. CANal 6-3317)
Purch. Agent: J. C. Lynn
Dir.-Sales: Albert H. Cayne S, M
- CAYWOOD-SCHILLER, ASSOCIATES**
203 N. Wabash Ave., Chicago 1, Ill. (Tel. ANdover 3-3340)
Purch.: T. E. Coywood
Purch. & Sales: D. H. Schiller RD
- CEDAR ENGRG. DIV.-CONTROL DATA CORP.**
5806 W. 36th St., Minneapolis 16, Minn. (Tel. WESt 9-1681)
Purch. Agent: L. G. Bernier
Buyer: C. W. Engleman
Gen. Mgr.: Thomas G. Komp MS, M, G, RD
- CENTRAL ELECTRONIC MFRS., DIV.-NUCLEAR CORP. OF AMERICA**
2 Richwood Pkce, Denville, N. J. (Tel. OAKwood 7-4200)
Purch. Agent: Mike Buff
Gen. Sales Mgr.: Gene G. Perry G, TT, RD
- CENTRAL RESEARCH LABS., INC.**
Red Wing, Minn. (Tel. DUNkirk 8-3566)
Pres.: Frank G. Chesley
V. P.: Demetrius G. Jelatis MS
- CENTRAL SAFETY EQUIP. CO.**
6601 Marsden St., Philadelphia 35, Pa. (Tel. DEVonshire 3-4788)
Pres.: Henry D. Gordon
Purch. Agent: E. Moss
Sales Mgr.: M. F. Gordon M
- CENTRAL SCIENTIFIC CO.**
1700 Irving Park Rd., Chicago 13, Ill. (Tel. WE 5-8600)
G. C. Godejahn
- CENTRAL SCREW CO.**
3501 Shields Ave., Chicago 9, Ill. (Tel. BO 8-6000)
Purch. Agent: M. A. Mueller
Gen. Sales Mgr.: R. E. Munson M
- CENTRAL TRANSFORMER CO.**
900 W. Jackson Blvd., Chicago 7, Ill. (Tel. TAYlor 9-1936)
Purch. Agent: Miss Katharine Bednar
Sales Mgr.: Frank J. Gallagher M
- CENTRALAB, DIV.-GLOBE-UNION INC.**
900 E. Keefe Ave., Milwaukee 1, Wisc. (Tel. WO 2-9200)
Dir.-Purch.: Frank A. Messer
Gen. Sales Mgr.: W. E. Peek M
- CENTURY ELECTRONICS & INSTRUMENTS, INC.**
1333 N. Utica, Tulsa 10, Okla. (Tel. LUther 4-7111)
Purch. Agent: C. R. Campbell
V. P.-Sales: C. H. Brunel MS, CT, RD
- CENTURY FASTENERS CORP.**
88 Sanford St., Brooklyn 5, N. Y. (Tel. ULster 2-6440)
Mgr., Aircraft Div.-Purch.: Pierre Tord
Sales Mgr.: George Stieglitz
- CERAMASEAL, INC.**
P. O. Box 25, New Lebanon Ctr., N. Y. (Tel. West Lebanon 3-5851)
Purch. Agent: Everett Franzson
Mgr.-Sales Engrg.: Gene D. Sawin M, RD
- CERIUM METALS & ALLOYS DIV., RONSON METALS CORP.**
45-65 Manufacturers Pl., Newark 5, N. J. (Tel. Market 4-1380)
V. P. & Gen. Mgr.: I. S. Hirschhorn
Sales Mgr.: W. A. Otis
V. P.-Sales: J. A. Livingston M

CHADWICK-HELMUTH CO.
472 E. Duarte Rd., Montevideo, Calif. (Tel. EL 8-4567)
Purch. Agent: R. R. Runnels
Sales Mgr.: William F. Cox CT, RD

CHAIN BELT CD.
4701 W. Greenfield Ave., Milwaukee, Wisc. (Tel. EVergreen 4-3000)
Purch. Agent: F. A. Coenen
Asst. Purch. Agent: M. O. Menzel
V. P.-Mktg.: G. H. Woodland

CHAIN BELT CD., SHAFER BEARING DIV.
Belmont Rd. at Curtiss St., Downers Grove, Ill. (Tel. WOODLOND 9-1770)
Div. Purch. Mgr.: R. L. Koiser
Asst. Sales Mgr.: R. F. Hunter

CHALCO ENGRG. CDRP.
15126 S. Broadway, Gardena, Calif. (Tel. FAculity 1-0121)
Dir.-Material: Irving Kierman
Purch. Agent: Ronald Ferdmon
Dir.-Sales: William L. Rose MS

CHAMBERSBURG ENGRG. CD.
Chambersburg, Pa. (Tel. COlony 4-7151)
Purch. Agent: W. H. Derbyshire
Sales Mgr.: S. C. Clarke

CHAMPION CD., THE
400 Harrison St., Springfield, O. (Tel. FAirfax 3-7545)
Purch. Agent: W. E. Cooksey
Asst. Purch. Agent: Samuel Patch
Mgr., Contracts Spec. Prod.: Thomas J. Martin
Mgr., Military Special Prod.: Norman L. Dickey

CHAMPION SPARK PLUG CD.
900 Upton Ave., Toledo 1, O. (Tel. JEFFerson 6-3711)
Dir.-Purch.: Keith Wilson
Asst. Dir.-Purch.: C. W. Sweet
V. P.-Sales: Duane Stronohan PS

CHANCE VOUGHT AERONAUTICS DIV.
P. O. Box 5907, Dallas, Texas (Tel. AN 2-3211)
Gen. Purch. Agent: W. H. Hough
Purch. Agent, Gen. Purchases: J. R. Bruno
Purch. Agent, Subcontracts & Subsystems: W. H. Andrews
Dir.-Mktg.: J. B. Allyn
Mgr., Materials: W. R. Kiefer S, MS, G, CT, RD

CHANCE VUGHT AIRCRAFT, INC.
P. O. Box 5907, Dallas, Tex. (Tel. AN 2-3211)
Dir.-Sales & Service: Forbes Mann

CHANCE VOUGHT ASTRONAUTICS DIV.
P. O. Box 5907, Dallas, Texas (Tel. AN 2-3211)
Mgr.-Mkt. Development: H. W. Thomas
Purch. Agent: A. J. Potton S, MS, CT, RD, HSE

CHANCE VOUGHT ELECTRONICS DIV.
P. O. Box 5907, Dallas, Texas (Tel. AN 2-3211)
Mgr.-Mktg. Dept.: A. E. Wosserman
Materials Mgr.: B. A. Corlson
Purch. Agent: G. Fumos G, CT, RD

CHANCE VOUGHT RANGE SYSTEMS DIV.
P. O. Box 5907, Dallas, Texas (Tel. AN 2-3211)
Mgr.-Bus. Branch: M. E. Wilkes
Materials Mgr.: B. A. Corlson
Asst. Purch. Agent: B. A. Barker MS, CT, TT

CHANDLER EVANS CORP.
Chorler Oak Blvd., West Hartford 1, Conn. (Tel. ADams 6-0651)
Dir.-Purch.: F. Donald Dildine
Purch. Agent: G. Kenneth Metcalfe
V. P.: Louis G. Burns PS, M, G, RD

CHANDLER PRODUCTS CORP.
1491 Chardon Rd., Cleveland 17, O. (Tel. IVonhoe 1-4400)
Purch. Agent: R. H. Akers
Buyer: W. Semion
V. P.-Sales: Fred C. Chandler PS, MS

CHASE BRASS & COPPER CO., INC.
236 Grand St., Waterbury 20, Conn. (Tel. PLazo 6-9444)
Gen. Purch. Agent: C. D. Potterson
V. P.-Sales: G. B. Moseley
Gen. Sales Mgr.: W. E. Evans

CHASE ELECTRONICS MOTOR DIV., INC.
82-31 51st Ave., Elmhurst 73, N. Y. (Tel. OLYmpia 1-0330)
Purch. Agent: Nicholas J. Mongino

CHASSIS-TRAK, INC.
525 S. Webster Ave., Indianapolis 19, Ind. (Tel. FLEetwood 9-5407)
Purch. Agent: J. Maurice Horrell
Sales Mgr.: Lawrence M. Vaughn MS, RD

CHATHAM ELECTRONICS DIV., TUNG-SOL ELECTRIC INC.
630 W. M. Pleasant Ave., Livingston, N. J. (Tel. WYmon 2-1100)
Purch. Agent: Peter Giannuzzi
Buyer: Ernie Bord
Sales Mgr.: Charles Reeves MS

JOHN CHATILLON & SONS
85-93 Cliff St., New York 38, N. Y. (Tel. BEekman 3-2552)
Dir.-Purch.: V. D. McCoy
Exec. V. P.-Sales: George C. Reiley CT

CHEM-LAIRD ELECTRONICS CDRP.
Gillespie Airport, Santee, Calif. (Tel. San Diego-HICKory 4-7681)
Gen. Mgr.: Samuel Freedman M, CT

CHEMICAL MICRO MILLING CO.
105 S. 7th St., Philadelphia 6, Pa. (Tel. WALnut 2-4542)
Purch. Agent: A. Bellongi
M. E.: R. De Palma
Chief Engr.: J. Del Elio G, CT, TT

CHEMICAL PRODUCTS CORP.
King Phillip Rd., East Providence, R. I. (Tel. GE 4-1770)
V. P.-Purch.: J. Ross Moynland
V. P.-Chem-o-sol Sales: Hugh B. Allison
V. P.-Lacquar Sales: Joseph S. Howes M

CHEMPLAST, INC.
3 Central Ave., East Newark, N. J. (Tel. HUMBoldt 2-2622)
Dir.-Purch.: Harry M. Trusko
Dir.-Sales: Stephen S. Dorn M

CHEMPUMP DIV., FOSTRIA CORP.
Rock & County Line Rds., Huntingdon Valley, Pa. (Tel. HObart 4-2000)
Purch. Agent: R. Ashenfelter
Mktg. Dir.: W. W. Droke
Prod. Mgr.: W. T. Korzuch
Sales Mgr.: A. D. Fell

CHERRY RIVET DIV., TOWNSEND CO.
1224 E. Delhi Rd., Sonto Ana, Calif. (Tel. KIMberly 5-5511)
Purch. Agent: Ralph Herndon
Buyer: Leroy Levers
Sales Mgr., Aircraft: John H. Roy S, MS

CHESTER CABLE CORP., SUB-MIAMI COPPER CO.
2000 Hill St., Chester, N. Y. (Tel. HOmestead 9-2141)
Purch. Agent: Anthony Knipp, Jr.
Asst. Gen. Mgr.: R. W. Kemey M

CHICAGO AERIAL INDUSTRIES, INC.
1980 Hawthorne Ave., Melrose Park, Ill. (Tel. FILLmore 5-1840)
Purch. Agent: Robert Rundle
Dir.-Customer Rel.: Arthur R. Fichter

CHICAGO BRIDGE & IRON CO.
332 S. Michigan Ave., Chicago, Ill. (Tel. HA 7-6708)
Purch. Agent: R. E. Hollenbeck
V. P.-Sales: S. C. Hamilton S, MS, RD, HSE

CHICAGO DEVELOPMENT CORP.
5810 47th Ave., Riverdale, Md. (Tel. APpleton 7-2821)
V. P.-Purch.: William W. Gullett
Sales Mgr.: C. S. Goodloe M, RD

CHICAGO ELECTRONIC ENGRG. CO., INC.
3223 W. Armitage Ave., Chicago 47, Ill. (Tel. CApital 7-1310)
Gen. Mgr.: B. F. Vivacqua M

CHICAGO EXPANSION BOLT CO.
1338 W. Concord Pl., Chicago 22, Ill. (Tel. EVerglode 4-1700)
Pres.: L. L. Peirce
Sales Mgr.: Richard S. Rolph S

CHICAGO GASKET CO.
1271 W. North Ave., Chicago 22, Ill. (Tel. HUMBoldt 6-3060)
Mgr., Purch. Dept.: Poul H. Dittmer
Sales Mgr.: R. H. Martin M

CHICAGO MINIATURE LAMP WORKS
1500 N. Ogden Ave., Chicago 10, Ill. (Tel. MOhawk 4-1741)
Controller: Earl E. Erickson
V. P.-Sales: Ernest E. Freeman, Jr. M

CHICAGO PNEUMATIC TOOL CO.
6 E. 44th St., New York 17, N. Y. (Tel. MUrray Hill 7-1700)
Purch. Agent: K. T. Dalsen
Sales Mgr., Pneumatic Tools: R. T. Beers
Sales Mgr., Electric Tools: L. J. Walker

CHICAGO RAWHIDE MFG. CD.
1301 N. Elston Ave., Chicago 22, Ill. (Tel. BRunswick 8-2100)
V. P. & Dir.-Purch.: Norman R. Hanson
Asst. Dir.-Purch.: B. J. Yunker
V. P. & Dir.-Sales: Phelps Wilder M

CHICAGO RIVET & MACHINE CD.
950 S. 25th Ave., Bellwood, Ill. (Tel. LINDen 4-5100)
Purch. Agent: W. A. Boutz
Asst. Purch. Agent: J. A. Campbell
Sales Mgr.: Wm. O. Shineflug

CHICAGO SCREW CD., THE DIV.-STANDARD SCREW CO.
2501 Washington Blvd., Bellwood, Ill. (Tel. LINDen 4-3500)
Dir.-Purch.: W. J. McCoy
Asst. Purch. Agents: P. W. McKenna & John James
V. P.-Standard Prod. Sales: E. L. Cloussen PS, MS, M

CHICAGO STANDARD TRANSFORMER CDRP.
3501 W. Addison St., Chicago 18, Ill. (Tel. INdependence 3-7400)
Purch.: E. Donnellon
Buyer: C. Dubos
Dir.-Sales: P. N. Cook

CHIKSAN CD., SUB.-FDDD MACHINERY & CHEMICAL CORP.
330 N. Pomona Ave., Brea, Calif. (Tel. JASper 9-2121)
Mgr.-Purch.: E. H. Nelson
Supvr.-Purch.: W. G. Keen
V. P. & Sales Mgr.: J. F. Powers, Jr. MS

CHISHOLM-MDDRE HDIST DIV., COLUMBUS MCKINNDN CHAIN CORP.
Fremont Ave., Tonawanda, N. Y. (Tel. JACkson 2230)
Purch. Agent: W. J. Wolf
Sales Mgr.: E. J. Byrne
Sales Prom. Mgr.: R. N. Wornke

CHLOR-ALKALI DIV., FOOD MACHINERY & CHEMICAL CORP.
161 E. 42nd St., New York 17, N. Y. (Tel. MU 7-7400)
Dir.-Purch.: J. A. Mooney
Sales Mgr.: J. R. Harris
Mgr., Dimazine Sales: B. L. Rose M

CHRISTIE MACHINE WDRKS
201 Harrison St., San Francisco 5, Calif. (Tel. EXbrook 2-2187)
V. P.-Purch. & Sales: Lloyd F. Christie PS, MS, G, TT, RD

CHROMIUM CORP. OF AMERICA
P. O. Box 1229, Waterbury 20, Conn. (Tel. PLazo 4-3141)
Purch. Agent: M. J. Melchionno
Plant Mgr.: E. C. Knill
Gen. Sales Mgr.: John B. Allen M

CHRYSLER CDRP., DEFENSE OPERATIONS DIV.
7000 E. Eleven Mile Rd., Center Line, Mich. (Tel. JEFFerson 9-3000) Mailing Address: P. O. Box 757, Detroit 31, Mich.
Dir.-Proc.: O. G. White
Purch. Supvr.: A. M. Thom
Dir.-Govt. Relations: C. W. Snider

CHRYSLER CORP., MISSILE DIV.
P. O. Box 2628, Detroit 31, Mich. (Tel. JEFFerson 9-2000)
Purch. Agent: S. J. Roach
Purch. Admin.: J. M. Orr
Mgr.-Buying & Follow-up: J. P. Forbes
Mgr.-Purch. Analysis: C. R. McMocken
Mgr.-Sub-Contracts: H. L. Sinclair S, PS, MS, M, G, CT, TT, RD, HSE

CIBA PRODUCTS CDRP.
P. O. Box 415, Fair Lawn, N. J. (Tel. SWorthmore 1-1122)
Sales Mgr.: M. M. Gruber M

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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CINCINNATI CLEANING & FINISHING MACHINERY

1100 Hogeman St., Cincinnati 41, O. (Tel. PRinceton 1-5100)
 Purch. Agent: C. Tyohur
 Dir.-Sales: H. Nonnemon

CINCINNATI MILLING MACHINE CO., THE

Marburg Ave., Cincinnati 9, Ohio (Tel. REDwood 1-2121)
 Purch. Agent: Hermon Decatur
 Sales Mgr.: R. Bevis M

CINCINNATI SHAPER CO., THE

P. O. Box 111, Cincinnati 11, Ohio
 Adv. Mgr.: J. A. Warren

CINCINNATI SUB ZERO PRODUCTS

3932 Reading Rd., Cincinnati 29, O. (Tel. PLozo 1-8810)
 Purch. Agent: H. Koupp
 Proj. Engr.: R. E. Schroeder
 Chief Engr.: T. J. Frederick
 Dir.-Sales Prom.: Mrs. L. M. Doherty CT, RD

CINEMA ENGRG.

1100 Chestnut St., Burbank, Calif.
 Gen. Mgr.: E. H. Miller

CINE-VIDEO PRODUCTIONS, INC.

Boston Post Rd., Milford, Conn. (Tel. TRinity 4-6590)
 Pres.: G. W. Roy

CIRCO EQUIPMENT CO.

51 Terminal Ave., Clark, N. J. (Tel. FUlton 8-8600)
 V. P.-Purch.: Norman Fischell
 Purch. Agent: Paul F. Andersen
 Sales Mgr.: Severn S. Carlson CT

CIRCO ULTRASONIC CORP.

51 Terminal Ave., Clark, N. J. (Tel. FUlton 8-8600)
 Tech. Dir.: Benson Carlin
 Purch. Agent: Paul F. Andersen
 Sales Mgr.: Severn S. Carlson CT

CIRCON COMPONENT CORP.

Santa Barbara Municipal Airport, Goleta, Calif. (Tel. WOODland 7-1113)
 Sales Mgr.: M. J. Ainsworth

CITY CHEMICAL CORP.

132 W. 22nd St., New York 11, N. Y. (Tel. WA 9-2723)
 Secy.: T. R. Keller
 Treas.: H. L. Boer RD

CLAIREX CORP.

19 W. 26th St., New York 10, N. Y. (Tel. MUrray Hill 4-0940)
 Dir.-Purch.: V. M. Schell
 Sales: A. F. Deuth M

DAVID CLARK CO., INC.

360 Park Ave., Worcester, Mass. (Tel. PLEasant 6-6216)
 Purch. Agent: Ralph Miller, Jr.
 Sales Mgr.: Charles W. Koufman RO, HSE

CLARK BROS. CO., DIV.-ORESSER OPERATIONS, INC.

N. Fifth St., Olean, N. Y. (Tel. Olean 2-2101)
 Gen. Purch. Agent: Edward E. Bonsper
 Purch. Agent, Recip. Prod. Div.: Michael L. Hodbovny
 Purch. Agent, Turbo Prod. Div.: John J. Sheehan
 V. P.-Sales: George W. Probst MS

CLARK CONTROLLER CO., THE

1146 E. 152nd St., Cleveland 10, Ohio (Tel. ULster 1-2000)
 Purch. Agent: N. E. Scholl
 Asst. Purch. Agent: W. E. Anderson
 Sales Mgr.: R. Whitehill

CLARK CRYSTAL CO.

2 Farm Rd., Marlboro, Mass. (Tel. MARlboro 1411)
 Mgr.: F. O. Nobles

CLARK ELECTRONIC LABORATORIES

Box 165, Palm Springs, Calif. (Tel. FAirview 8-2210)
 Sales Mgr.: O. B. Clark G, CT, RD

CLARK EQUIPMENT CO.

324 E. Dewey Ave., Buchanan, Mich. (Tel. OXBow 5-3811)
 V. P.-Purch.: J. G. Mack
 Dir.-Purch.: L. E. Stevens
 Asst. Dir.-Purch.: J. G. Swanson, Battle Creek, Mich.
 (Tel. WOODward 2-6561) MS, M

CLARK EQUIPMENT CO., INDUSTRIAL TRUCK DIV.

Battle Creek, Mich. (Tel. WO 2-6561)
 Dir.-Purch.: Jim Swanson
 Asst. to Dir.: Lee Hiett

Gen. Sales Mgr.: J. E. Mitchell M

CLARK-AIKEN CO., THE

Water St., Lee, Mass. (Tel. 1261)
 Purch. Agent: T. E. Locke
 Prod. Engr.: J. P. Stoeke S

CLARKE FLOOR MACHINE CO.

30 E. Cloy Ave., Muskegon, Mich. (Tel. PArkway 2-3701)
 Purch. Agent: G. Hentshel

CLARKSON LABS., INC., THE

920-30 N. Dorien St., Philadelphia 23, Pa. (Market 7-6764)
 Treas.: Morris Coppersmith
 Pres.: E. W. Heller
 Chem. Engr.: Thomas Morris M

CLAROSTAT MFG. CO., INC.

Dover, N. H. (Tel. SHERwood 2-1120)
 Purch. Dir.: E. O. Schromm
 Gen. Sales Mgr.: Fran J. Chamberlain

CLARY DYNAMICS

408 Junipero St., San Gabriel, Calif. (Tel. CLumberland 3-2724)
 Gen. Mgr.: P. Meeks
 Gen. Sales Mgr.: A. L. Colello

CLAUSING DIV.-ATLAS PRESS CO.

1915 N. Pletcher St., Kalamazoo, Mich. (Tel. FIlside 5-7157)
 Dir.-Purch.: S. L. Show
 V. P.-Sales: G. C. Noncorrow

CLAYTON MFG. CO.

401 N. Temple City Blvd., El Monte, Calif. (Tel. CLumberland 3-4131)
 Mgr., Purch.: Roland Mackey
 Mgr., Special Products Div.: Glenn Marshall
 Asst. to V. P.-Sales: E. N. Moon
 V. P.-Sales: J. A. Cartright CT

CLECO AIR TOOLS, DIV.-REED ROLLER BIT CO.

1525 Clinton Dr., P. O. Box 2119, Houston 1, Texas
 (Tel. ORchard 2-1761)
 Purch. Agent: R. G. Stockton
 V. P.-Purch.: C. H. Elliott
 Sales Mgr.: E. W. Cloyton

CLEGG LABS., DIV.-CLEGG, INC.

Ridgedale Ave., Morristown, N. J. (Tel. JEFFerson 8-7214)
 Purch. Agent: Ann Gillingham
 Sales Mgr.: Edward T. Clegg MS, CT, RD

CLEVELANO AUTOMATIC MACHINE CO., THE

4932 Beech St., Cincinnati 12, O. (Tel. REDwood 1-5300)
 Purch. Agent: A. W. Niederhelmon
 V. P.-Sales Mgr.: John Prohosko

CLEVELAND GRAPHITE BRONZE DIV.-CLEVITE CORP.

17000 St., Clair Ave., Cleveland 10, O. (Tel. IVonhoe 1-7221)
 Dir.-Purch.: J. G. Mehring
 Purch. Agent: J. C. Hall
 Asst. Purch. Agent: R. Owens
 Purch. Analyst: J. McCouley
 Gen. Sales Mgr.: W. D. Cowgill
 Staff Asst.-Sales: R. C. Webster

CLEVELAND INSTRUMENT CO.

6220 East Schaaf Rd., Cleveland 31, O. (Tel. LA 4-4821)
 Purch. Agent: W. Young
 Mgr.-Sales: F. W. Witzke G, CT

CLEVELAND METAL SPECIALTIES CO., ELECTRONICS DIV.

1783 E. 21st St., Cleveland 14, O. (Tel. PRespect 1-4186)
 Sales Mgr.: Al Gross
 V. P.-Purch.: Joe Japel MS, G, TT, RD

CLEVELAND PNEUMATIC INDUSTRIES, INC.

3781 E. 77th St., Cleveland 5, Ohio (Tel. DIiamond 1-1700)
 Materiel Mgr.: John Chapman
 V. P.-Sales: Elmer Krueger

CLEVITE ELECTRONIC COMPONENTS DIV., CLEVITE CORP.

3405 Perkins Ave., Cleveland 14, Ohio (Tel. ENdicott 1-1730)
 Purch. Agent: L. N. Oodonte
 Gen. Sales Mgr.: M. R. Eostin MS

CLEVITE ORDNANCE, DIV.-CLEVITE CORP.

540 E. 105th St., Cleveland 8, Ohio (Tel. ULster 1-5500)

Mgr., Prod. Control: R. E. Hines
 Buyers: Steve Szabo & D. C. Orr
 Gen. Mgr.: T. E. Lynch PS, MS, G, RD

CLEVITE TRANSISTOR PRODUCTS, DIV.-CLEVITE CORP.

241-257 Crescent St., Waltham 54, Mass. (Tel. TWinbrook 4-9330)
 Dir.-Material: B. D. Pendergost
 Purch. Agent: G. Herd
 Sr. Buyer: T. Kenney
 Gen. Sales Mgr.: A. J. Dusoult MS, RD

CLIFTON PRECISION PRODUCTS CO., INC.

Marple at Broadway, Clifton Heights, Pa. (Tel. MADison 6-2101)
 Purch. Agent: Tyson Parker
 V. P. & Sales Mgr.: Thomas W. Shoop MS, G, RD

CLIMAX MOLYBENUM CO. OF MICHIGAN

1270 Avenue of the Americas, New York 20, N. Y. (Tel. PLozo 7-9700)
 Mgr., Refractory Metal Sales: Joseph P. McGuire
 Sales Mgr.: Lars E. Ekholm M

CLOVER INDUSTRIES, INC.

578-588 Young St., Tonawanda, N. Y. (Tel. LUdlow 1331)
 V. P.-Purch.: H. Paul Henderson
 V. P.-Sales: L. N. Rie S, PS, MS, G, CT, TT, RD, HSE

COAST MFG. & SUPPLY CO.

Box 71, Livermore, Calif. (Tel. HILLtop 7-1000)
 Purch. Agent: A. J. Andersen
 Sales Mgr., Textile Div.: Carter Schriber M, RD

COAST PRO-SEAL & MFG. CO.

2235 Beverly Blvd., Los Angeles 57, Calif. (Tel. OU 7-5141)
 Buyer: Mrs. Jean McLaughlin
 V. P.-Sales: John W. Winkler M

COAXIAL CONNECTOR CO. INC.

37 N. 2nd Ave., Mt. Vernon, N. Y. (Tel. MOunt Vernon 8-6416)
 Purch. Agent: William R. Cloyton
 Dir.-Sales: Don Reede

COBEHN, INC.

226 Passaic Ave., Caldwell, N. J. (Tel. CAPitol 6-6675)
 Purch. Agent: William E. Bellars
 V. P.-Sales: David F. Cook G

COBRA METAL HOSE DIV., OK MFG. CO.

5059 S. Kedzie Ave., Chicago 32, Ill. (Tel. REPublic 7-3311)
 Purch. Agent: T. Kwasnik
 Asst. Purch. Agent: Rudy Mochudo
 Buyer: Darrel Horter
 Sales Mgr.: Clyde O. Greeno

COFFING HOIST DIV., DUFF-NORTON CO.

800 Walter St., Danville, Ill. (Tel. HI 6-3800)

COHAN EPNER CO. INC.

142 W. 14th St., New York 11, N. Y. (Tel. CHelsea 3-3411)
 Purch. Agent: William Epner
 Dir.-Sales: Gerald Epner

SIGMUND COHN CORP.

121 S. Columbus Ave., Mt. Vernon, N. Y. (Tel. MO 4-5300)
 V. P.-Sales: Richard Cohn M

COIL CO. OF AMERICA

215 Washington St., Northvale, N. J. (Tel. CLoster 5-3434)
 Treas.: H. Goy M

COIL WINDING EQUIPMENT CO.

19 Maxwell Ave., Oyster Bay, N. Y. (Tel. OYster Bay 6-1285)
 Purch. Agent: Blanche A. George
 Sales Engr.: James H. George
 Sales: Howard A. George G, RO

COLE ELECTRIC CO.

8439 Steller Dr., Culver City, Calif. (Tel. UPton 6-4701)
 Purch.: M. Arment & J. Tomasic
 Sales Mgr.: H. P. Sparkes MS, CT, RD

COLEMAN ELECTRONICS, INC.

133 E. 162nd St., Gardena, Calif. (Tel. FACulty 1-4775)
 Purch. Agent: Burt Gonoe
 V. P. & Gen. Mgr.: Tom Coolson
 Asst. to Gen. Mgr.: Loren Hill
 Sales Mgr.: Rich Winkler CT

COLEMAN INSTRUMENTS, INC.

42 Madison St., Maywood, Ill. (Tel. FILLmore 5-9400) CT

COLLECTRON CORP.
304 E. 45th St., New York, N. Y. (Tel. MU 9-7120)
Purch. Agent & Sales Mgr.: R. B. Coombs M

G. L. COLLINS CORP.
2820 E. Hullett St., Long Beach 5, Calif. (Tel. METcolf 0-3121)
V. P.-Purch.: G. O. Collins
V. P.-Sales: L. A. Bondy MS, G, RO

COLLINS MFG. CORP.
9041 Lindblade St., Culver City, Calif. (Tel. UPRon 0-4811)
Gen. Mgr.: Joe Collins
Purch. Agent: Ado Kadores
Asst. Purch. Agent: Odinger Meyer
Sales Mgr.: John J. Collins PS, MS

COLLINS MICROFLAT CO.
3249 W. El Segundo Blvd., Hawthorne, Calif. (Tel. OREGon 8-7694)
V. P.-Purch.: E. Mike Bruhwiler
Pres.: Lee Collins

COLLINS RADIO CO.
855 35th St., N. E., Cedar Rapids, Iowa (Tel. Empire 5-8481)
Dir.-Purch.: John H. Wagner, 411 First Ave., S. E., Cedar Rapids, Iowa (Tel. Empire 5-8481)
Purch. Agent: Wendell Paxton
V. P.-Sales: J. G. Flynn, Jr., Dallas, Tex. (Tel. AOoms 5-4511) CT, TT, RO

COLLYER INSULATE WIRE CO.
249 Roosevelt Ave., Powtucket, R. I. (Tel. PA 3-7800)
Dir.-Purch.: R. O. Moeller
Dir.-Sales: J. Marshall Taylor MS

COLONIAL AIRCRAFT CORP.
Box 20 Sanford, Me. (Tel. SAnford 80)
Purch. Agent: Richard Otter
Pres.: Oavid B. Thurston S, MS, CT

COLONIAL ALLOYS CO.
Ridge Ave. & Crawford Sts., Philadelphia 29, Pa. (Tel. GE 8-2272)
Purch. Agent: C. Foy
Dir.-Sales: S. L. Cohn

COLONIAL RUBBER CO.
706 Oakwood St., Rovenna, O. (Tel. AXminister 6-9611)
Sales Mgr.: D. E. Moson M

COLORADO FUEL & IRON CORP., THE
575 Madison Ave., New York 22, N. Y. (Tel. MU 8-5400)

COLORADO RESEARCH CORP.
Broomfield, Colo. (Tel. INgersol 6-2331)
Purch. Agent: A. R. Holden, Jr., Denver, (Tel. HARRison 9-3501) TT, RO

COLSON CORP., THE
440 Somerville Ave., Somerville 43, Mass.
Purch. Agent: C. Lockwood
Sales Mgr.: L. B. Blum M

COLUMBIA ELECTRIC MFG. CO.
4519 Hamilton Ave., Cleveland 14, O. (Tel. ENdicott 1-8060)
Purch. Agent: John Sygielski
Sales Mgr.: H. W. Sussman

COLUMBIA NUT & BOLT CO., INC.
945 Main St., Bridgeport 3, Conn. (Tel. EDison 3-4956)
Pres.: Howard P. Cook

COLUMBIA PRODUCTS CO.
R.F.O. #3, Columbo, South Carolino (Tel. SUNset 7-8710)
Asst. Purch. Agent: Frank Cox
Sales Mgr.: S. W. Trewhello M, TT

COLUMBIA RESEARCH & DEVELOPMENT CORP.
4608 Indianole Ave., Columbus 14, O. (Tel. AMherst 7-1277)
Purch. Agent: O. E. Lehman
Gen. Mgr.: H. O. Kempton RO

COLUMBIA TECHNICAL CORP.
61-02 31st Ave., Woodside 77, N. Y. (Tel. AStoria 8-7401)
Dir.-Purch.: Victor Leibmann
Sales Mgr.: O. R. Stein M

COLUMBIAN CARBON CO., MAPICO IRON OXIDES UNIT
380 Madison Ave., New York 17, N. Y. (Tel. MURroy Hill 7-2300)
Sales Mgr.: C. O. Oovindon M

COLUMBIAN ROPE CO.
309 Genesee St., Auburn, N. Y. (Tel. 3-3221)

Purch. Agent: C. A. Fowler
V. P.-Sales: L. R. Hole M

COLUMBUS ELECTRONICS CORP.
1010 Saw Mill River Rd., Yonkers, N. Y. (Tel. YOnkers 8-1221)
Purch. Agent: Souk Peck
Sales Mgr.: Gustov Bord MS, G, CT, TT

COLUMBUS McKINNON CHAIN CORP.
Fremont St., Tonawanda, N. Y. (Tel. JA 2230)
Dir.-Purch.: Walter Wolf
Sales Mgr.: G. L. Groce
V. P.-Sales: D. S. Brisbin

COLVIN LABS., INC.
364 Glenwood Ave., East Orange, N. J. (Tel. ORange 7-1221)
Purch. Agent: R. Post
Sales Mgr.: Earl Hall CT, TT

COMAR ELECTRIC CO.
3349 Addison St., Chicago 18, Ill. (Tel. JUUniper 8-2410)
Purch. Agent: Chos. Kirchenbauer
Asst. Purch. Agent: R. Podlesak
Sales Mgr.: L. E. Noelck MS, M, G

COMBINED ELECTRONICS INC.
6045 W. Ogden, Chicago, Ill. (Tel. OL 6-3450)
V. P.-Purch.: George F. Johnson
V. P.-Sales: R. C. Ooiley M

COMCO PLASTICS INC.
98-34 Jamaica Ave., Richmond Hill 18, N. Y. (Tel. Virginia 9-9000)
Purch. Agent: A. Schutzman
Sales Mgr.: J. C. Steel

***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.**
100 River St., Waltham, Mass. (Tel. TWInbrook 9-8400)
Mktg. Mgr.: F. H. O'Kelley
Purch. Agent: Swift Gibson (Tel. Blgelow 4-7500)
*(See advertisement this issue)

COMMERCIAL FILTERS CORP.
2 Main St., Melrose 76, Mass. (Tel. OAvenport 4-7000)
Purch. Agent: Alan F. Riley
Sales Mgr.: J. R. Chisholm

COMMERCIAL SERVICES CO., INC.
1217 First St., P. O. Box 234, Alexandria, Va. (Tel. OVerlook 3-5700)
Pres.: R. M. Jackson, Jr.
V. P.-Sales: J. A. Jackson

COMMERCIAL SHEARING & STAMPING CO.
1775 Logan Ave., Youngstown 1, Ohio (Tel. RIVERSide 6-8011)
Purch. Agent: O. A. Boop
Gen. Mgr.-Sales: H. B. Wallison

COMMONWEALTH FELT CO.
76 Summer St., Boston 10, Mass. (Tel. LIberty 2-6590)
Treas.: I. Goldberg
Mgr.-Cut Parts Div.: N. M. Benson
Sales: J. S. Patterson

***COMMONWEALTH OF PENNSYLVANIA, DEPT. OF COMMERCE**
South Office Bldg., State St., Harrisburg, Pa.
*(See advertisement this issue)

COMMUNICATION ACCESSORIES CO.
Lee's Summit, Mo. (Tel. Kansas City, Mo., BRoadway 1-1700)
Purch. Agent: Cliff Block
Asst. Purch. Agent: Earl Kopke
Chief Engr.: Wolter Kunde
Sales Mgr.: Carl Rollert G, TT

COMMUNICATION MEASUREMENTS LAB., INC.
350 Leland Ave., Plainfield, N. J. (Tel. PL 4-5502)
Purch. Agent: E. Talisse
Chief Engr.: C. J. Bonini

COMMUNICATIONS CO.
300 Greco Ave., Coral Gables 34, Fla. (Tel. HI 6-0846)
Purch. Agent: W. K. Whitmire
Asst. Gen. Mgr.-Sales: Frederick R. Mocklin

COMMUNICATIONS RESEARCH CO.
P. O. Box 778, Richmond 6, Va. (Tel. MILton 4-3255)
Pres.: Paul K. Heim
Dir.-Research & Dev.: A. H. Child
Purch. Agent & Bus. Mgr.: George Harris RO

COMMUNITY ENGRG. CORP.
Box 824, Stote College, Pa. (Tel. AOoms 8-2461)
Pres.: James R. Palmer

Prod. Supvr.: W. Clair King
Sales Mgr.: John E. Hines, Jr. MS, TT, RO

COMPONENTS CORP.
35 N. Arroyo Pkwy., Posodeno, Calif. (MURroy 1-7448)
Dir.-Sales: Robert L. Henry MS, CT

COMPUOYNE CORP.
400 S. Worminster Rd., Hotboro, Pa.
Dir.-Purch.: Al Kreig
Dir.-Sales: Nat Wilson MS, CT

COMPUTER CONTROL CO., INC., EASTERN DIV.
983 Concord St., Framingham, Mass. (Tel. Boston, CEdor 5-6220)
Purch. Agent: Bradford P. Daniels
V. P.-Mktg.: William Wolfson
Mktg.-Mgr.: James I. Leobman G, CT, RO

COMPUTER CONTROL CO., INC., WESTERN DIV.
2251 Barry Ave., Los Angeles 64, Calif. (Tel. GRanite 8-0481)
Purch. Agent: Peter Prouty
V. P. & Gen. Mgr.: Alfred L. Fenaughty
Mgr., Mktg.: R. O. Chamorro G, CT, RO

COMPUTER ENGRG. ASSOCIATES, INC.
350 N. Halstead St., Posodeno 8, Calif. (Tel. ELgin 5-7121)
Dir.-Purch.: Al Ispos, Jr.
Customer Service Mgr.: Richard T. Campbell MS, CT, TT, RO

COMPUTER INSTRUMENTS CORP.
92 Madison Ave., Hempstead, L. I., N. Y. (Tel. IVonhoe 3-8200)
Dir.-Purch.: H. Adise
Purch. Agent: I. Clinton
Sales Mgr.: J. Hermon PS, MS, M, G, CT, TT, RO

COMPUTER SYSTEMS, INC.
611 Broadway, New York 12, N. Y. (Tel. SPring 7-4016)
Purch. Agent: E. Nowrocki
V. P.: Charles B. Husick
Indst. Sales Mgr.: Jack M. Andrews MS, G, CT, TT, RO

CONANT LABS.
Box 3997, Bethany Station, Lincoln 5, Nebr. (Tel. IVonhoe 8-0432)
Gen. Mgr.: G. Conant M

CONAX CORP.
2300 Walden Ave., Buffalo 25, N. Y. (Tel. REgent 0600)
Purch. Agent: Edgar Kowolski
Sales Mgr., Indst. Prod.: Warren L. Jones
Asst. Sales Mgr., Expl. Prod.: Raymond Rohlman M

CONCO ENGRG. WORKS, INC.
Mendota, Ill. (Tel. 2121)
Purch. Agent: P. J. Oonohue
V. P.-Sales: R. A. Hossinger

CONMAR PRODUCTS CORP.
140 Thomas St., Newark 1, N. J. (Tel. Blgelow 8-2211)
Asst. Gen. Sales Mgr.: A. L. Moss

CONNECTICUT HARO RUBBER CO., THE
70 East St., New Haven 9, Conn. (Tel. SPruce 7-3631)
Purch. Agent: T. E. Grandshaw
Sales Mgr.: J. A. Moffitt, Jr. PS, M, RO

CONNECTICUT INSTRUMENT CORP.
80 Oonbury Rd., Wilton, Conn. (Tel. POrter 2-5545)
V. P.-Purch. & Sales: P. A. Wilks, Jr. M

CONNECTICUT PLASTIC PRODUCTS CO., INC., THE
70 W. Liberty St., Waterbury 20, Conn. (Tel. PL 4-4134)
V. P.-Purch.: C. J. Sullivan
Pres.: M. F. Sullivan S

CONNECTOR CORP. OF AMERICA
12959 Sherman Way, N. Hollywood, Calif. (Tel. TRIangle 7-9653)
Pres.-Sales: Ralph R. Thomas

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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CONOFLOW CORP.
2100 Arch St., Philadelphia 3, Pa. (Tel. LOcust 7-7560)
Purch. Agent: H. Bonekot
Sales Mgr.: J. Robert Simpson PS, MS, RD

CONRAD, INC.
Conrad Sq., Holland, Mich. (Tel. EXport 2-3161)
Purch. Agent: Merle Pointer, 141 Jefferson St., Holland, Mich.
V. P.-Sales: Charles Conrad, 141 Jefferson St., Holland, Mich. CT, RO

CONRAD & MOSER
2-23 Borden Ave., Long Island City 1, N. Y. (Tel. STillwell 4-3616)
Dir.-Purch.: Leo Rovere
Dir.-Sales: Fred R. Conrad S

CONSOLIDATED AIRBORNE SYSTEMS, INC.
321 Willis Ave., Mineola, N. Y. (Tel. PLioneer 6-7224)
V. P.-Gen. Mgr.: John I. Nestel
V. P.-Chief Engr.: Leo Stomler
Proj. Engr.: Hugo Doffara
Sales Mgr.: John Nestel

CONSOLIDATED CONTROLS CORP.
13 Durant Ave., Bethel, Conn. (Tel. PLioneer 3-6721)
Purch. Agent: C. S. Joyce
Sales Mgr.: C. M. Colt PS, MS, G, RD

CONSOLIDATED DIESEL ELECTRIC CORP.
880 Canal St., Stamford, Conn. (Tel. DAVis 5-2261)
Purch. Agent: John Adams
Sales Mgr., Power Equipment Div.: Frank Cesario
Gen. Sales Mgr., Aircraft Equip. Div.: John Rymon MS, CT, RO

CONSOLIDATED DIESEL ELECTRIC CORP., TEST EQUIP. DIV.
1 John St., Stamford, Conn. (Tel. DAVis 5-2261)
Purch. Agent: John Buchik
Sales Mgr.: Kenneth C. Gerhardt

CONSOLIDATED DIESEL ELECTRIC CORP., WESTERN DIV.
15519 Lonok St., Van Nuys, Calif. (Tel. STote 2-4060)
Purch. Agent: T. C. McKinney

***CONSOLIDATED ELECTRODYNAMICS CORP.**
360 Siero Madre Villa, Posadero, Calif. (Tel. MURray 1-8421)
Dir.-Purch.: Mario Gordon CT, TT, RD
V. P.-Mktg.: R. L. Smallman
*(See advertisement in this issue)

CONSOLIDATED FILM INDUSTRIES
959 N. Seward St., Hollywood 38, Calif. (Tel. HOLlywood 2-0881)
Dir.-Public Relations: Jack M. Goetz
Sales Mgr.: Richard S. Rodgers
Sales Mgr.: Burton Stone, 521 W. 57th St., New York 19, N. Y. (Tel. CI 6-0210)

CONSOLIDATED INDUSTRIES, INC.
Mixville Rd., West Cheshire, Conn. (Tel. CHeshire-BRowning 2-5371)
Sales Engr.: E. A. Fentzloff M

CONSOLIDATED VACUUM CORP.
1775 Mt. Read Blvd., Rochester 3, N. Y. (Tel. GR 3-7972)
Purch. Agent: Warren Borton
Asst. Purch. Agents: Word Kelley & Charles Baldwin
Dir.-Mktg.: Mox Garber M

CONSOLIDATED WIRE & ASSOCIATED COMPANIES
1635 S. Clinton St., Chicago 16, Ill. (Tel. HA 1-4441)
Sales Mgr.: J. J. Mann M

L. L. CONSTANTIN & CO.
Rt. 46, Lodi, N. J. (Tel. GRegory 1-0100)
Purch. Agent: C. Brandt
Asst. Purch. Agent: J. Vierczhalek
Sales Mgr.: S. C. Tober M

CONTAINER LABS., INC.
6210 Kansas Ave., Washington, D. C. (Tel. RANDolph 6-7501)
Purch. Mgr.: William E. Hughes
Sr. Engineers: Jackson B. Weaver & Paul J. Zerr RD

CONTINENTAL AVIATION & ENGRG. CORP.
12700 Kercheval, Detroit, Mich. (Tel. VALley 2-1500)
Dir.-Purch.: Carl L. Schiller
Purch. Agent, Toledo Div.: John Watson (Tel. GR 5-4641)
Mgr.-Sales & Service: Kenneth C. Smith PS, MS, RO

CONTINENTAL CONNECTOR CORP.
34-63 56th St., Woodside 77, N. Y. (Tel. TWining 9-4422)
Purch. Agent: A. Jacob
Exec. V. P.: Leon Gilbert
Chief Engr.: Martin Lesser
Dir.-Sales: N. J. Goldman M

CONTINENTAL DIAMOND FIBRE CORP.
Newark, Del. (Tel. ENdicott 8-8531)
Dir.-Purch.: W. H. Walker
Asst. Purch. Mgr.: F. A. Cain V. P.-Sales: A. J. Briggs S, PS, MS, M, G, RO

CONTINENTAL ELECTRIC CO.
715 Hamilton St., Geneva, Ill. (Tel. CENter 2-4140)
Purch. Agent: E. A. DeVel
Sales Asst.: T. Pontellierio M

CONTINENTAL ELECTRONICS MFG. CO., SUB-LING-ALTEC ELECTRONICS, INC.
4212 S. Buckner Blvd., Dollos 27, Tex. (Tel. EVergreen 1-1137)
Dir.-Procurement Dept.: A. W. Schmidt, Jr.
Asst.-Procurement Dept.: Robert Keith
Dir.-Sales & Contract Negotiations: Thomas B. Moseley
Washington Rep. V. P.: G. Emerson Proy, 1511 K St., N. W., Washington, D. C. RD

CONTINENTAL ENGRG. CORP.
Formington, Conn. (Tel. OR 7-2387)
Dir.-Purch. & Sales: Leland D. Cobb RO

CONTINENTAL FELT CO.
22 W. 15th St., New York 11, N. Y. (Tel. WATkins 9-5262)
Treas.: W. J. Newbold M

CONTINENTAL MOTORS CORP.
205 Market St., Muskegon Mich. (Tel. 2-7631)
Dir.-Purch.: M. R. Ramsey
V. P.-Sales & Service: D. H. Hollowell MS

CONTINENTAL RUBBER WORKS
1963 Liberty St., Erie 6, Pa. (Tel. 2-5261)
Purch. Agent: Robert A. Bailey
Asst. Purch. Agent: R. C. Metz
Sales Mgr.: Charles C. Shenk M

CONTINENTAL SCREW CO.
459 Mt. Pleasant St., New Bedford, Mass. (Tel. WYmon 3-2621)
Purch. Agent: Edward Pettengill
Gen. Sales Mgr.: Victor Lodetto

CONTINENTAL SENSING, INC.
1950 N. Ruby St., Melrose Park, Ill. (Tel. COLUMbus 1-0295)
Purch. Agent: Gene Ostrom
Sales Mgr.: Ray Ellefson M, CT, RO

CONTINENTAL TECHNICAL SERVICE, INC.
19 W. 4th St., Dayton 2, O. (Tel. BA 2-8626)
Purch. Agent: John R. Folkert
Sales Coordinator: George Thomas

CONTINENTAL WIRE SALES CORP.
322 N. Cherry St., Ext. P. O. Box 366 Wallingford, Conn. (Tel. COlony 9-1421)
Purch. Agent: C. C. Christensen
Sales Mgr.: E. T. Horrigan

CONTINENTAL-EMSCO CO., DIV.-THE YOUNGSTOWN SHEET & TUBE CO.
P. O. Box 359, Dollos 21, Texas (Tel. RI 7-9261)
Dir.-Purch.: C. N. Swanson
Assistants to V. P.: J. R. Bechtold & Lee A. Droke
V. P.-Sales: Croig Smyser S, MS

CONTINENTAL-WIRT ELECTRONICS CORP.
5221 Greene St., Philadelphia 44, Pa. (Tel. GEMmon-town 8-9334)
Treas.: Kolman B. Lifson
V. P.-Sales: Burton S. Lifson M

CONTROL CIRCUITS INC.
66 Marlborough St., Portland, Conn. (Tel. DI 7-4634)
Purch. Agent: H. L. Voelker
V. P.-Sales: C. G. Bonks

CONTROL DATA CORP.
501 Park Ave., Minneapolis 15, Minn. (Tel. FEderal 9-0947)
Pres.: William C. Norris
V. P.-Research & Engrg.: William R. Keye
V. P.-Mktg.: James G. Miles G, CT, TT, RO

CONTROL OATA CORP., COMPUTER DIV.
501 Park Ave., Minneapolis 15, Minn. (Tel. FEderal 9-0411)
Purch. Mgr.: Robert E. Anderson

Dir.-Sales & Contracts: George S. Hanson
Mgr.-Sales Prom.: Gordon V. Wise RD

CONTROL ELECTRONICS CO., INC.
Ten Stepor Pl., Huntington Sto., L. I., N. Y. (Tel. HAmilton 7-7961)
Dir.-Purch.: John Hockett
V. P.-Sales: Eugene S. Wendolowski MS, CT, TT, RD

CONTROL ENGRG. CO., DIV.-JERVIS B. WEBB CO.
8900 Roselawn, Detroit 4, Mich. (Tel. WE 3-9311)
Purch. Agent: John K. Goge
Asst. Sales Mgr.: Thomas J. Lindsoy
Gen. Mgr.: Marvin S. Blemly MS, CT

CONTROL PRODUCTS, INC.
306 Sussex St., Harrison, N. J. (Tel. HUMBolt 2-0213)
Purch. Agent: H. R. Brewster
Sales Mgr.: J. R. Nile

CONTROL SW. DIV., CONTROLS CO. OF AMERICA
4218 W. Lake St., Chicago 24, Ill. (Tel. VA 6-3100)
Purch. Agent: Edw. Hull
Dir.-Sales: Harold F. Ames MS

CONTROL TECHNOLOGY CO.
1186 Broadway, New York 1, N. Y. (Tel. OR 9-2770)
Mgr., Purch. & Sales: Frank Phillips MS, G, CT, RD

CONTROLS CO. OF AMERICA
9555 Soreng Ave., Schiller Park, Ill. (Tel. NAtional 5-9000)
Purch. Agents: L. Monfre & H. Keller
V. P.-Sales: D. Strathearn & A. Topp

CONVAIR-ASTRONAUTICS DIV.-GENERAL DYNAMICS CORP.
5001 Kearny Villo Rd., Son Diego 12, Calif. (Tel. BRowning 7-8900)
Mgr.-Material: C. F. Uhden
Gen. Purch. Agents: E. Fellows, Jr. & C. G. Keoch
Purch. Agents: W. S. Tucker, Const. Res. & Outside Prod.; W. J. Hill, Louch Control & Ground Support Equip.; B. W. Gruber, Space Projects, (Buying Suprv.); C. C. Fornsworth, Raw Materials, Hardware, Supplies & Equip.; C. T. Tolbait, Electronics & Electrical Components; D. D. Knopp, Propulsion Pneumatics & Hydraulics S, MS, G, CT, TT, RO, HSE

CONVAIR INSTRUMENTS, CONVAIR DIV.-GENERAL DYNAMICS CORP.
3595 Frontier St., Son Diego 10, Calif. (Tel. AC 3-1614)
Prod. Suprv.: George Shoen
Chief Proj. Engr.: Dr. Egon Muehlnher

CONVAIR-POMONA, CONVAIR DIV.-GENERAL DYNAMICS CORP.
1675 W. Fifth St., P. O. Box 1011, Pomona, Calif. (Tel. NAtional 9-5111)
Mgr.-Material: R. D. Webster
Purch. Agent-Standard Parts, Raw Materials, Facilities & Commercial: R. J. Hartmoyer
Purch. Agent-Subcontracts, Special Components, Castings & Forgings: J. D. Currier S, MS, G, CT, TT, RD

CONVAIR-SAN DIEGO DIV.-GENERAL DYNAMICS CORP.
3165 Pacific Hwy., Son Diego 12, Calif. (Tel. CYpress 6-6611)
Mgr.-Materials: W. R. Bruce
Gen. Purch. Agents: W. G. Evons & R. L. Donoghue
Subcontracting Chief: L. A. Wood
Purch. Agents: E. F. Monsses, Electronics & Advance Systems; V. M. Burns, Raw Materials & Purchased Parts; L. F. Tubbs, Systems; R. C. Fildes, Facilities & Supplies; H. L. Henry, Machining, Tool Control & Furnishings; M. Fomonek, Sheet Metal, Ducts & Assemblies; M. F. Moseley, Power Packages & Major Assemblies G, CT, TT, RO, HSE

COOK BATTERIES, SUB-TELECOMPUTING CORP.
3850 Olive St., Denver 7, Colo. (Tel. DUdley 8-4836)
Purch. Agent: Eugene Mortine
Field Engrg. Mgr.: W. Burch Winder

C. LEE COOK CO., AIRTOMIC PRODUCTS DIV.
916 S. Eighth St., Louisville 18, Ky. (Tel. JUniper 7-6783)
Asst. to Pres.: R. W. Hoyt
Proj. Engr.: B. L. Curron
Sales Engr.: W. E. Gossage PS, RD

COOK ELECTRIC CO.
2700 N. Southport Ave., Chicago 14, Ill. (Tel. DIversity 8-6700)
Dir.-Purch.: Henry Bolger S, MS, CT, TT, RD, HSE

COOPER ALLOY CORP.
Hillside, N. J. (Tel. MU 8-4120)
Mgr.-Adv. & Sales Prom.: Stuart F. Cooper

COOPER DEVELOPMENT CORP., DIV.-THE MARQUARDT CORP.
2626 South Peck Rd. Monrovia, Calif. (Tel. Hillcrest 6-3138)
Purch. Agent: Eugene Binford
Mgr., Indsl. Relations: B. O. Hedding

CO-OPERATIVE INDUSTRIES, INC.
100 Oakdale Rd., Chester, N. J. (Tel. 255)
Purch. Agent: Ed Youngquist
V. P.-Sales: V. C. Bonardel
Materials Planning Dir.: Peter Hogeboom

COORS PORCELAIN CO.
600 9th St., Golden, Colo. (Tel. CRestview 9-4533)
Purch. Agent: John Hilf
Buyer: P. J. O'Brien
Gen. Sales Mgr.: Ben Landes M, RD

COPPERWELD STEEL CO., WIRE & CABLE DIV.
Glassport, Pa. (Tel. NOrth 4-7131)
Purch. Agent: M. M. Siegel
Sales Mgr.: George Hamburger S, M

COPPUS ENGRG. CORP.
344 Park Ave., Worcester 10, Mass. (Tel. PLeasant 2-5638)
Purch. Agent: H. C. Hult
Sales Mgr.: E. Kundig PS, CT

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5650 N. Western Ave., Chicago 45, Ill. (Tel. EOGewater 4-2200)
Purch. Agent: Ray Thierry
Dir.-Sales: Warren E. Frandsen RD

CORD PRODUCTS CO.
1 W. Main St., South Hadley Falls, Mass. (Tel. JE 4-3577)
Pres.: Francis J. Renkawicz
Treas.: Edwin R. Podgorski M

CORDO CHEMICAL CORP.
34 Smith St., Norwalk, Conn. (Tel. VOlunteer 6-4438)
Buyer: Richard Gilbert
Exec. V. P. & Gen. Mgr.: George H. Sherrard
Sales Mgr.: F. M. Hall M

CORNELIUS CO., THE, AERO DIV.
550 39th Ave., N. E., Minneapolis 21, Minn. (Tel. SUnset 8-8613)
Purch. Agent: Fred A. Anderson
Mgr.-Sales: J. W. Mahanay MS, G, CT, RD

CORNELL AERONAUTICAL LAB.
Buffalo, N. Y.

CORNELL DEEP DRAWING CO., DIV.-LANES INDUSTRIES CORP.
612-200 Colorado Ave., Santa Monica, Calif. (Tel. EXbrook 3-1810)
Purch. Agent: Norman Joe
Dir.-Sales: Jim Azbill MS

CORNELL-DUBILIER ELECTRIC CORP.
Hamilton Blvd., South Plainfield, N. J. (Tel. PLainfield 6-9000)
Dir.-Purch.: Poul H. Burbage
Sales Mgr. Com'l. Products Div.: Arthur Williams
Dir.-Sales: Raymond T. Leary M

CORNING GLASS WORKS
Corning, N. Y. (Tel. 2-5011)
Dir.-Purch.: T. S. Wood
Purch. Agent: Ralph Baker
Sales Mgr., Aircraft, Missiles: Raymond A. Wosson
Sales Mgr., Optical Sales: C. F. Henkel, Jr.
Sales Mgr., Electronic Components: C. C. Harwood M, G

CORNISH WIRE CO. INC.
50 Church St., New York 7, N. Y. (Tel. BArcley 7-5140)
Purch. Agent: N. A. Brennan, 101 Water St., Williamstown, Mass. (Tel. GLenview 8-4111) M

CORRUGATED PAPER PRODUCTS, INC.
2233 Union Ave., Brooklyn, N. Y. (Tel. ESplamide 7-6112)
Pres.: J. Kopor

CORSON ELECTRIC MFG. CORP.
540 39th St., Union City, N. J. (Tel. UNion 6-4227)
Purch. Agent: R. Buss
Sales: D. Corson

COSA CORP.
Chrysler Bldg., 405 Lexington Ave., New York 17, N. Y. (Tel. YUkon 6-9696)
Mgr., Order Dept.: F. Warthmann
Sales Mgr.: S. Von Wattenwyl S, CT

COSMIC INSTRUMENTS INC.
10-28 Connecticut Ave., Washington 6, D. C. (Tel. ME 8-2620)
Pres.: Pamine Gignoux

V. P.: Alain Varon PS, RD

COUCH ORDNANCE, INC.
3 Arlington St., North Quincy 71, Mass. (Tel. Boston, BL 5-4147)
Purch. Agent: S. O. Bellis
Sales Mgr.: B. W. Gray G

COURT PRODUCTS, DIV.-MODEL ENGRG. & MFG., INC.
375 N. Lake St., Boyne City, Mich. (Tel. UJunction 2-6526)
Dir.-Purch.: Lyle Ouncan
Purch. Dept.: Joseph Kobus & William Ryder
Dir.-Sales: O. G. Russ MS, G, RD

COVEL MFG. CO.
P. O. Box 116, Graham Ave. at North Shore Or., Benton Harbor, Mich. (Tel. WALnut 6-6157)
Purch. Agent: J. E. Schadler
Sales Mgr.: Elmer A. Hopf M

COWLES CHEMICAL CO.
7016 Euclid Ave., Cleveland 3, Ohio (Tel. HE 1-3400)
Purch. Mgr.: M. A. Small
V. P.-Sales: C. C. Bassett M

COX & CO., INC.
115 E. 23rd St., New York 10, N. Y. (Tel. ORegon 4-4727)
Purch. & Prod. Mgr.: Edward Kraft
Dir.-Sales: Herbert M. Brusman M

COX INSTRUMENTS DIV., GEORGE L. NANKERVIS CO.
15300 Fullerton, Detroit 27, Mich. (Tel. VERmont 8-5780)
Purch. Agent: O. Lindh
Sales Mgr.: Robert Yung

CRAIG SYSTEMS, INC.
360 Merrimack St., Lawrence, Mass. (Tel. MURdock 8-6961)
Dir.-Purch.: Joseph L. Frost
Buyers: Miss Mildred Kaczor & Barry Barker
Dir.-Sales Engrs.: Michael J. MacDonald MS

CRAMER CONTROLS CORP.
Centerbrook, Conn. (Tel. SOuth 7-8255)
Purch. Agent: R. W. Williams
V. P. & Dir.-Sales: W. H. Armstrong

CRANE CARRIER CORP.
1150 N. Peoria, Tulsa, Okla. (Tel. LUther 3-5133)
Purch. Agents: Al Vogel, Robert Armstrong, William Riley
V. P.-Sales: W. T. Barber S

CRANE CO.
836 S. Michigan Ave., Chicago 5, Ill. (Tel. WA 2-3123)
Mgr., Chem. Sales: R. E. Catlett MS

CRANE CO., INDUSTRIAL PRODUCTS GROUP
4100 S. Kedzie Ave., Chicago 32, Ill. (Tel. LA 3-9200) MS

CRANE CO., SPECIAL PRODUCTS DIV.
221 Central Ave., Johnstown, Pa. (Tel. 7-4491)
Purch. Agent: Robert A. Hoy
Dir.-Sales: C. M. Baumgardner S, MS

CRANE PACKING CO.
6400 Oakton St., Morton Grove, Ill. (Tel. ORchard 4-0100)
Purch.: Victor Gargleth
Buyers: William Parlette & Harry Schnur
V. P.-Sales: V. E. Vorhees

CRATEX MFG. CO., INC.
1600 Rollins Rd., Burlingame, Calif. (Tel. OXFord 7-1600) M

CRAWFORD FITTING CO.
884 E. 140th St., Cleveland 10, Ohio (Tel. LIBerty 1-5533)
Purch. Agent: Bill Lorkman
Sales Mgr.: Durrell P. Haag RD

CRESCENT ENGRG. & RESEARCH CO.
5440 N. Peck Rd., El Monte, Calif. (Tel. Gilbert 4-0528)
Purch. Agent: J. Wackeman
V. P.-Mktg.: Scott B. Linn
Sales Mgr.: L. L. Noble MS, G, CT, TT, RD

CREST TRANSFORMER CORP.
1834 W. North Ave., Chicago 22, Ill. (Tel. EVerglode 4-1600)
Purch. Agent: A. W. Swanson
Sales Mgr.: R. Rinehart RD

CROMER MFG. & ENGRG., INC.
2138 E. 88th St., Los Angeles 2, Calif. (Tel. LUdlow 2-5383)
Purch. Agent: Joseph E. Haverfield

Plt. Supt.: Oarrel L. Sewart
Sales Mgr.: W. O. Dockendorf S, PS, MS, M

CRDMPPTON & KNOWLES CORP.
93 Grand, Worcester, Mass. (Tel. PL 3-5431)
Purch. Agent: Joseph J. Benoit
Mgr.-Special Mfg. Dept.: R. J. McGivney

CRONAME INC.
6281 Howard, Chicago 48 (Niles), Ill. (Tel. SPRing 4-2100)
Dir.-Purch.: Arthur J. Oahlgren
V. P.-Sales: Anthony F. Nosek M

CRDSBY-TELETRONICS CORP.
54 Kinkel St., Westbury, N. Y. (Tel. EDgewood 3-1027)
Purch. Agent: Arthur H. Zink
Buyer: Pete Maragos
Exec. V. P.-Sales: Robert S. Marston MS, TT, RD

CROUSE-HINDS CO.
Wolf & 7th North Sts., Syracuse, N. Y. (Tel. GR 4-8411)
Purch. Agents: John Link, Paul Billy
Asst. Purch. Agents: Robert Gardner, Floyd Spaulding
Mgr.-Prac.: M. O. Low
Asst. Purch. Mgr.: Frank M. Egan
V. P.-Sales: E. R. Monesmith

CROWN INTERNATIONAL DIV., INTERNATIONAL RADIO & ELECTRONICS CORP.
Box 261, Elkhart, Ind. (Tel. JAckson 2-8583)
Purch. Mgr.: Jason Bemis
Sales Mgr.: Edwin C. Moore G, CT, TT

CROWN MFG. CORP.
33 Pequot Ave., New London, Conn. (GI 2-4325)
Office Mgr.: Harry Ali
Treas.: T. Kelly Parker

CROWNCOVER AIRCRAFT CO.
P. O. Box 48-1263, Miami 48, Fla. (Tel. TU 5-1741)
Pres.: John A. Crownover S

CRUCIBLE STEEL CO. OF AMERICA
P. O. Box 2518, Oliver Bldg., Pittsburgh 30, Pa. (Tel. ATLantic 1-3800)
Dir. Purch.: R. O. Bridge
V. P.-Comm. Sales: M. J. Oay MS, M

CRYOGENERATORS, INC.
750 S. Fulton Ave., Mount Vernon, N. Y. (Tel. MO 4-4500)
Dir.-Purch.: Allen Johnson
Dir.-Sales: James Hourilcan, Jr. MS, RD, HSE

CRYOGENIC ENGRG. CO.
200 W. 48th Ave., Denver 16, Colo. (Tel. CH 4-8691)
Purch. Agent: E. M. Geigle
Pres.: G. E. McIntosh PS, MS, RD

CRYSTALONICS INC.
249 Fifth St., Cambridge 42, Mass. (Tel. KIRkland 7-2750)
V. P.-Purch. & Sales: B. B. Frusztaver MS, G, CT

CRYSTAL-X CORP.
112 W. Lenni Rd., Lenni Mills, Pa. (Tel. GLOBE 9-1000)
Sales Mgr.: W. H. Seiler

CUBIC CORP.
5575 Kearny Villa Rd., San Diego 11, Calif. (Tel. BRowning 7-6780)
Dir.-Purch.: John C. Buchan
Buyers: E. A. Manfredi, A. C. Seeley, William Freres
Sales Mgr.: William Boyd CT, TT, RD

CUMMINS ENGINE CO., INC.
1000 Fifth St., Columbus, Ind. (Tel. DR 2-7211)
Dir.-Purch.: R. A. Sebastian
Purch. Mgrs.: J. A. Beoman & L. J. Miller
V. P.-Sales: C. R. Boll PS, MS, CT

JAMES CUNNINGHAM SON & CD., INC.
33 Litchfield, Rochester 8, N. Y. (Tel. BAKER 5-7240)
Purch. Agent: James Elliott
Sales: Peter F. Cunningham
Chief Engr.: A. W. Vincent MS, CT, TT

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	Missile Support MS
	Materials M
	Guidance G
	Checkout & Testing CT
	Tracking & Telemetering TT
	Research & Development RD
	Human Space Engineering HSE

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CUNO ENGRG. CORP., THE
S. Vine St., Meriden, Conn. (Tel. BEverly 7-5541)
Purch. Agent: Fred Gagnier
V. P.-Mktg.: Carleton H. Winslow PS, MS, G

CURTIS AUTOMOTIVE DEVICES, INC.
P. D. Box 297, Westfield, Ind. (Tel. 3-2415)
Purch.: Dole Stevens
V. P.-Sales: E. H. Hostettler

CURTIS COMPANIES INC.
New London, Wis. (Tel. 38)
Purch. Agent: R. C. Motiko
Mgr.: Alex Luft
Quality Control Dept.: H. H. Heinrich M

CURTIS UNIVERSAL JOINT CO., INC.
5A Birnie Ave., Springfield 7, Moss. (Tel. RE 7-0281)
Sales: T. B. Covonough
Purch.: R. E. Curtis PS

CURTISS-WRIGHT CORP.
Volley Blvd., Wood-Ridge, N. J. (Tel. WEbster 3-0800)
Chm. & Pres.: Roy T. Hurley

CURTISS-WRIGHT CORP., ELECTRONICS DIV.
631 Central Ave., Carlstadt, N. J. (Tel. GEneco 8-4000)
Purch. Mgr.: F. L. Nicholls
Dir.-Sales: Charles D. Cory
Mgr., Air Force Sales: J. P. Phelps
Mgr., Army & Navy Sales: P. A. Ferrandino
Mgr., I&M Instruments Br.: V. V. Myers, (Tel. AMherst 8-8791)
Mgr., Elec. Instr. Sales: J. H. Ruiter, (Tel. CApitol 6-9500) MS, CT, TT, RD, HSE

CURTISS-WRIGHT CORP., ELECTRONICS DIV., I&M BRANCH
5400 Acoma Rd., S. E., Box 8324, Albuquerque, N. M. (Tel. AMherst 8-2474)
Purch. Agent: F. L. Johnson
Br. Mgr.: J. F. Quirk
Br. Sales Mgr.: V. V. Myers M, RD

CURTISS-WRIGHT CORP., MARQUETTE DIV.
1145 Golewood Dr., Cleveland 10, D. (Tel. GLenville 1-4800)

CURTISS-WRIGHT CORP., METALS PROCESSING DIV.
P. D. Box 13, 760 Northland Ave., Buffalo 15, N. Y. (Tel. BAiley 7770)
Purch. Agent: Walter Greopentrog
Chief Buyer: Joseph Schwolboch
Gen. Sales Mgr.: Paul J. Choney S, M

CURTISS-WRIGHT CORP., PRINCETON DIV.
P. O. Box 110, Princeton, N. J. (Tel. SWinburne 9-0500)
Purch. Agent: Victor Crool
Mgr., Nondestructive Testing: Bruce Smith
Mgr., Electronic Instrumentation: Gerold Schoonwold
Mgr., Ultrasonic Cleaning: Irving S. Geer
Mgr., Indsl. Controls: J. F. Drr
Gen. Mgr.: W. H. Hoppe, Jr.
Gen. Sales Mgr.: Robert E. Johnson M, G, CT, RD

CURTISS-WRIGHT CORP., PROPELLER DIV.
Coldwell, N. J. (Tel. CApitol 6-2540)
Mgr.-Purch.: W. B. Thompson
Purch. Agent: C. V. Cross
Sales Mgr.: H. S. Robbins PS

CURTISS-WRIGHT CORP., SANTA BARBARA DIV.
6767 Hollister Ave., Goleta, Calif. (Tel. WO 7-3411)
Mgr.-Purch.: R. W. Doumiller
Dir.-Sales: D. E. Trumbull S, MS, M, CT, TT, RD

CURTISS-WRIGHT CORP., SOUTH BEND DIV.
701 W. Chippewa Ave., South Bend, Ind. (Tel. ATLantic 9-7192)
Mgr.-Purch.: G. R. Quilhot
Chief Buyer: J. L. LoVine
Gen. Sales Mgr.: Robert Compello

CURTISS-WRIGHT CORP., UTICA DIV.
50500 Mound Rd., Utica, Mich. (Tel. REpublic 2-2111)
Purch. Mgr.: A. T. Holland
Asst. Sales Dir.: G. S. Moule

CURTISS-WRIGHT CORP., WRIGHT AERONAUTICAL DIV.
Wood-Ridge, N. J. (Tel. PRescott 7-2900)
Dir.-Purch.: James R. Donahue
V. P. & Gen. Mgr.: J. V. Miccio
Dir.-Sales: H. Honink

CUSHING & NEVELL
101 Park Ave., New York 17, N. Y. (Tel. DR 9-3810)
Dir.-Engrg. Writing: Frank Petro

Acct. Exec.: Donald A. Steams
Acct. Exec. Dir.: Gordon Hole

CUSHMAN PRECISION INDUSTRIES
262 Alexander St., Princeton, N. J. (Tel. WAInut 1-7008)
Dir.-Purch.: Thomas Le Prevost
Pres.: Robert H. Cushman MS, G, CT, TT, RD

CUSTOM COMPONENT SWITCHES INC.
3137 Kenwood St., Burbank, Calif. (Tel. VI 9-5951)
Purch. Agent: Warren Davis
Traffic Dept.: John Perry
Pres.: R. P. Ketelseninc PS, MS, M, RD

CUSTOM MAGNETICS INC.
2901 Winona Ave., Burbank, Calif. (Tel. VICTorio 9-1981)
Dir.-Sales: J. M. Schroeder M

CUSTOM PRODUCTS CORP.
606 Lindley St., Bridgeport 6, Conn. (Tel. ED 4-7329)
Purch. Agent: J. M. Dockendorff
Sales Mgr.: W. H. Bacon G

CUSTOM TOOL & MFG. CO.
2201 N. Second St., Minneapolis 11, Minn. (Tel. JACkson 1-3591)
Plant Supt.: Raymond C. Williams
Purch. Agent: R. W. Senn
Dir.-Sales: R. L. Sotterlee M

CUTLER METAL PRODUCTS CO.
1025 Line St., Comden 3, N. J. (Tel. WDodown 3-1060)
V. P.-Purch.: Irving Shipkin
Pres.: Harry H. Cutler MS

CUTLER-HAMMER INC.
212 N. 12th St., Milwaukee 1, Wisc. (Tel. BRoodway 1-7800)
Dir.-Purch.: B. M. Harter, Sr.
Purch. Analyst: C. N. Horwood
Buyers: J. A. Twet, J. R. Leedom
V. P.-Mktg.: J. M. Cook M, CT, RD

CYCLE TRANSFORMER CORP.
356 Glenwood Ave., East Orange, N. J. (Tel. DRange 4-0731)
Purch. Agent: J. U. Dion
Chief Engr.: H. Edgor Snow
Sales Engr.: Paul M. Brubaker M

OBM RESEARCH CORP.
Stoddard Bldg., Atlantic Ave., Cocoa Beach, Fla. (Tel. SUNset 3-2438)
Purch. Agent: A. J. Mottox
Sales Mgr.: Cliff E. Mottox M, RD

O K MFG. CO.
5059 S. Kedzie, Chicago 32, Ill. (Tel. RE 7-3311)
Purch. Agent: Ted Kwosnik
Sales Mgr.: John Ferdinonsen

O & R PILOT PLANTS INC.
Water St., Hazordville, Conn. (Tel. RIVERview 9-8301)
Dir.-Purch.: G. Potterson
Dir.-Sales: M. Meod M

D. S. O. MFG. CO., THE
2964 Whitney Ave., Hamden, Conn. (Tel. ATwater 1-81678)
Wks. Mgr. & Secy.: William J. Devin
Dir.-Sales: Douglas Smith

DAGE ELECTRIC CO., INC.
67 N. 2nd St., Beach Grove, Ind. (Tel. STote 6-0458)
Purch. Agent: Edgor Zehr
Sales Mgr.: Albert N. Strickland
Gen. Mgr.: Colvin J. Zehr M

DAGE TELEVISION DIV., THOMPSON RAMO WOOLDRIDGE, INC.
West 10th St., Michigan City, Ind. (Tel. TR 4-3251)
Purch. Agent: W. E. Dillon
Buyers: J. L. Fisk & Miss Jean Meeks MS, CT, RD

GEORGE W. OAHL CO., INC.
86 Tupelo St., Bristol, R. I.
Asst. to Pres.: T. F. Motheson

OAHLSTROM METALLIC DOOR CO.
443 Buffalo St., Jamestown, N. Y. (Tel. 7991)
Dir.-Purch.: Henry N. Ericson
V. P.-Sales: R. Quintus Anderson

DALE PRODUCTS, INC.
P. O. Box 136, Columbus, Nebr. (Tel. LOcust 4-3131)
Purch. Agent: Wolloce Brunken
V. P.-Sales: Don Geeding RD

DALLONS SEMICONDUCTORS, DIV.-DALLONS LABS.
5066 Sonto Monica Blvd., Los Angeles 29, Calif. (Tel. NO 4-1951)

DALMO VICTOR CO., DIV.-TEXTRON, INC.
1515 Industrial Way, Belmont, Calif. (Tel. LYtell 1-1414)
Purch. Agent: R. M. Brown
Gen. Mgr.: J. A. Chortz MS, TT, RD

DALTON FOUNDRIES INC., THE
Lincoln and Jefferson St., Worsow, Ind. (Tel. AM 7-8111)
Dir.-Purch.: A. L. Witmer
Dir.-Sales: J. V. Shellborger M

DALWELD CO., INC.
15 Bertel Ave., Mr. Vernon, N. Y. (Tel. MOunt Vernon 4-8698)
Pres.: Jerry Robinson

DAMASCUS TUBE CO.
P. D. Box 71, Greenville, Po. (Tel. TRansfer, Po., Mitchell 6-1500)
Purch. Agent: J. M. Thompson
Sales Mgr.: F. A. Gubo

DAMPP-CHASER, INC.
1440 Ridgewood Blvd., Hendersonville, N. C. (Tel. DXford 3-8271)
Purch.: B. Dolton
Sales Mgr.: D. Jack Buckley M

DANA CORP.
4100 Bennett Rd., Toledo 1, Ohio (Tel. GRGreenwood 9-8241)
Purch. Agent: A. Diono
Buyers: H. Foster & C. Corlson
V. P.: C. C. Dybvig MS

DANBURY CENTERLESS GRINDING CO.
Rt. 7, Sugar Hollow Rd., Danbury, Conn. (Tel. PI 3-5525)
Gen. Mgr.: George P. Volluzzo
Office Mgr.: Anthony F. Asmor M

C. R. DANIELS, INC.
Daniels, Md. (Tel. ELlicott City 1200)
Purch. Agent: D. H. Kelley
Buyers: W. L. Young, F. J. Trumbour & J. Russell
V. P.-Sales: W. E. Corson

DANLY MACHINE SPECIALTIES, INC.
2100 S. Loramie Ave., Chicago 50, Ill. (Tel. Blishop 2-1800)
Purch. Agent: Paul R. Fields
Buyer: William Gardner
V. P.-Press Sales: O. R. Donly
V. P.-Sales, Die Makers Supp.: R. E. Oonly

OANTE ELECTRIC MFG. CO.
Moine Park, Bantom, Conn. (Tel. Litchfield, JORDon 7-5307)
Gen. Mgr.: Joseph J. Donte

OARCOID CO. INC., THE
145 6th Ave., New York 13, N. Y. (Tel. ALgonquin 5-1393)
Gen. Mgr.: Peter J. Digilio

R. E. OARLING CO., INC.
4858 Cordell Ave., Bethesda 14, Md. (Tel. OLiver 4-6900)
Purch. Agent: George M. Burge, Jr.
Prod. Control: Charles F. Fairfax
V. P.-Sales: R. E. Dorling, Jr. M, HSE

DARLING VALVE & MFG. CO.
Foot of Wolnut, Williamsport, Po. (Tel. 3-6121)
Purch. Agent: S. Reese
Dir.-Sales: D. F. Soble S, M

OARNELL CORP. LTO.
37-28 61st St., Woodside 77, N. Y. (Tel. HAvemeyer 4-3717)
Sales Mgr.: A. L. Foster
Div. Sales Mgr.: R. J. Geberth S, MS, M, RD

DATA INSTRUMENTS DIV.-TELECOMPUTING CORP.
12838 Saticoy St., North Hollywood, Calif. (Tel. TRiangle 7-8181)
Purch. Agent: Jim Newton
Dir.-Sales: Robert E. Poole, Jr. CT

OATA-CONTROL SYSTEMS, INC.
39 Rose St., Oonbury, Conn. (Tel. PLioneer 3-9241)
Mgr., Materiel Dept.: David Forshaw
V. P.-Operations: Weems E. Estelle
V. P.-Research & Development: R. A. Runyon
Mgr., Mktg.: Rosel H. Hyde TT

OATASCAN INC.
324 Colfax Ave., Clifton, N. J. (Tel. PRescott 3-8803)

Purch. Dept.: William Rothman
Sales Engr.: Morton S. Levin CT, RD

DATX CORP.
1307 S. Myrtle Ave., Monrovia, Calif. (Tel. EL10t 9-5381)
Chief Buyer: Richard V. Ireland
Gen. Sales Mgr.: Michael J. Joncich MS, CT, TT, RD

DAUBERT CHEMICAL CO.
4700 S. Central Ave., Chicago 38, Ill. (Tel. LUDlow 2-1000)
Purch. Agent: J. W. Taylor
Sales Mgr., Sealants Div.: E. B. Jared
Sales Mgr., Packaging Div.: W. A. Spencer M

DAVEN CO., THE
Rt. 10, Livingston, N. J. (Tel. WYman 2-4300)
Dir.-Purch.: John Harbidge
Buyers: A. M. Watkins, I. Valentine
Sales Mgr.: E. L. Grayson G, CT, TT, RD

DAVENPORT MFG. CO.
2530-32 N. Elston Ave., Chicago 47, Ill. (Tel. Dickens 2-5620)
Treas.: A. W. Davenport CT, RD

JOE DAVIDSON & ASSOCIATES
2803 Los Flores Blvd., Lynwood, Calif. (Tel. NEvado 6-2245)
Sales Mgr.: Fred Simpson MS, M, CT, RD

DAVIDSON OPTRONICS, INC.
2223 Ramona Blvd., West Covina, Calif. (Tel. EDgewood 7-7281)
Purch. Agent: D. A. Kidwell
Asst. Purch. Agent: Eva Jeffries
Sales Mgr.: James McBride MS

DAVIS INSTRUMENTS
47 Halleck St., Newark 4, N. J. (Tel. HUmboldt 2-3660)
Purch. Agent: C. Freeman

J. H. DAY CO., THE, DIV.-THE CLEVELAND AUTOMATIC MACHINE CO.
4932 Beech St., Cincinnati 12, Ohio (Tel. REdwood 1-5300)
Purch. Agent: A. W. Niederhelman
Asst. Purch. Agent: Bert Bien
Sales Mgr.: Robert A. Miller M

DAYSTROM, INC., CONTROL SYSTEMS DIV.
4455 Miramar Rd., La Jolla, Calif. (Tel. GL 4-0421)
Purch. Agent: Conrad Stipp
Asst. Buyer/Expediter: Elizabeth Horn
Purch. Clerk: Alice Hill
Mktg. Mgr.: John A. Palmer CT, RD

DAYSTROM, INC., MILITARY ELECTRONICS DIV.
Archbold, Pa. (Tel. JErmy 1100)
Materials Mgr.: Fred M. Seitz
Supvr., Proc.: David G. Brady
Prod. Control: G. B. Carroll
Sales Prom. Mgr.: Leslie Daniels S, PS, MS, M, G, CT, RD

DAYSTROM INC., PACIFIC DIV.
9320 Lincoln Blvd., Los Angeles 45, Calif. (Tel. DRchard 4-7100)
Purch. Agent: Bernard A. Thompson
Asst. Sales Mgr., Instruments & Systems Sales: Joseph W. D'Callaghan
Sales Mgr., Potentiometer Sales: Robert Wolin G, HSE

DAYSTROM INC., TRANSCOIL DIV.
Worcester, Montgomery County, Pa. (Tel. JUho 4-2421)
Purch. Agent: Pete Toscano
Dir.-Sales: John J. Gattoline MS, RD

DAYSTROM INC., WESTON INSTRUMENTS DIV.
614 Frelinghuysen Ave., Newark 12, N. J. (Tel. FUlton 1-4446)
Purch. Agent: N. A. Dinnsen
Gen. Sales Mgr.: K. C. Moulton

DAYTON AIRCRAFT PRODUCTS, INC.
P. O. Box 8007, 812 N. W. First St., Ft. Lauderdale, Fla. (Tel. JACKson 3-5451)
Dir.-Purch.: H. A. Cline
Dir.-Engrg.: A. J. Benkoczy
Dir.-Operations: F. C. Betcher S, MS, G, RD

DAYTON RUBBER CO., THE
2345 Riverview Ave., Dayton 1, Ohio (Tel. CRestview 8-2666)
V. P.-Purch.: L. J. Keyes
Buyers: R. P. Heist, R. A. Greenwald, J. B. Cochenour & B. Rhines
Dir.-Sales, Urethane: Allan W. Cox S, RD

DAYTRONIC CORP.
223-227 S. Jefferson St., Dayton 2, Ohio (Tel. BALdwin 4-1621)

Prod. Mgr.: W. R. Winger
Chief Engr.-Purch.: R. M. Kinkead
Dir.-Sales: M. M. Moorhead, Jr. CT, RD

DEAN & BENSON RESEARCH, DIV.-BENSON MFG. CO.
1811 Agnes Ave., Kansas City 27, Mo. (Tel. BEnton 1-8300)
Purch. Agent: Ralph Bure
Buyers: James Mitchell & Earl Miller
Mgr.-Sales: George A. Dean M, RD

DEAN PRODUCTS, INC.
616 Franklin Ave., Brooklyn 38, N. Y. (Tel. ST 9-5400)
V. P.-Sales: Rubin Raskin MS, CT

DEARBORN ELECTRONIC LABS., INC.
1421 N. Wells St., Chicago 10, Ill. (Tel. WH 3-2412)
Purch. Agent: George Economos
Gen. Mgr.: Ray Simpson
Sales Mgr.: Bill Cox M

DeBELL & RICHARDSON INC.
Water St., Hazardville, Conn. (Tel. Rlview 9-8301)
Pres.: John M. DeBell
Sr. Group Leader: Fred E. Wiley M, CT, RD

DECATUR CASTING CO., THE
822 Dayton Ave., Decatur, Ind. (Tel. 3-2700)
Resident Mgr.: Clarence E. Fishbaugh
Supt.: Glenn A. Mauller
Asst. Resident Mgr.: Lynn D. McDougall M

DECISION/INC.
4602 Red Bank Rd., Cincinnati 27, D. (Tel. BRamble 1-3200)
Pres.: Oliver P. Bardes G, RD

DECKER CORP., THE
45 Monument Rd., Bala-Cynwyd, Pa. (Tel. MDhawk 4-6700)
Dir.-Purch.: A. Richard Newhouse, Jr.
Asst. Dir.-Purch.: Peter Burn
Dir.-Sales: Robert L. Gross M, G, CT, TT, RD, HSE

DEE ELECTRIC CO.
1101 N. Paulina St., Chicago 22, Ill. (Tel. BELmont 5-5151)
Pres.: W. DeVertter
Purch. Agent: J. Lamberty

De HAVILLAND AIRCRAFT OF CANADA, LTD., SPECIAL PRODUCTS DIV.
Downsview, Ontario, Canada (Tel. MELrose 3-5230)
Purch. Agent: S. M. Gilbert
Contracts Admin.: L. D. Clarke
Sales Mgr.: E. Wall MS, G, CT, RD

DeJUR-AMSCO CORP., ELECTRONIC SALES DIV.
45-01 Northern Blvd., Long Island City 1, N. Y. (Tel. RAVenswood 1-4009)
Purch. Dir.: Peter Heaney
Buyers: Sol Frankel
Dir.-Sales, Electronics Div.: N. J. Geldman M, CT, RD

DEL ELECTRONICS CORP.
521 Homestead Ave., Mt. Vernon, N. Y. (Tel. DWens 9-3232)
V. P.-Engrg.: H. J. DiGiovanni
V. P.-Research: R. Kaufman M, RD

***DEL MAR ENGRG. LABS.**
6901 Imperial Hwy., Los Angeles 45, Calif. (Tel. DRegon 8-4371)
Purch. Agent: Oavid Hume
V. P.-Sales, Service, & Contracts: Neil Lomont S, MS, RD

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DELAVAN ELECTRONICS CORP.
77 Dean Rd., East Aurora, N. Y. (Tel. CYpress 3600)
Pres.: K. L. Richard
Sales Engr.: F. E. Riehle
Plant Mgr.: E. T. Drake RD

DELAVAN MFG. CO.
811 4th St., West Des Moines, Iowa (Tel. CR 4-1561)
Purch. Agent: W. E. Stroeber
Buyers: Robert Heles & Charles O'Brien
Sales Mgr.: Ray J. Slzak
Gen. Sales Mgr.: J. D. Hopkins PS

DELCO PRODUCTS DIV., GENERAL MOTORS CORP.
329 E. 1st St., Dayton 1, Ohio (Tel. BALdwin 2-0411)
Mgr.: G. J. Lowe
Defense Sales Mgr.: W. K. West MS

DELCO RADIO DIV.-GENERAL MOTORS CORP.
700 E. Firmin, Kokomo, Ind. (Tel. GLadstone 2-8211)
Purch. Agent: R. Hill, Jr.
Dir.-Sales & Engrg.: H. M. Stelzl
Gen. Sales Mgr.: D. A. Sandberg

Mil. Sales Mgr.: J. C. Crawford MS, G, CT, RD

DELCO-REMY DIV., GENERAL MOTORS CORP.
2401 Columbus Ave., Anderson, Ind. (Tel. 5581)
Gen. Mgr.: D. L. Boyes
Dir.-Purch.: F. E. Boze
Dir.-Sales & Engrg.: H. G. Riggs

DELL OPTICS CO., LIMITED
327 55th St., West New York, N. J. (Tel. UNion 7-1599)
Dir.-Purch. & Sales: Peter F. Tralongo
Sales Dept.: Frank J. Gervolino M, RD

DELTRON CO., INC., THE
5224 Southern Ave., South Gate, Calif. (Tel. Lorain 7-2477)
V. P.: Bruce M. Wadsworth
Treas.: Iona Mouron
Sales Mgr.: Roy J. Schwab

DEL'S TUMBLING SERVICE
232 N. Rosemary St., Dearborn 6, Mich. (Tel. LDgan 2-5537)
Pres.: O. W. Dyer

DELSEN CORP.
719 W. Broadway, Glendale 4, Calif. (Tel. CHapman 5-8517)
Purch. Agent: Herbert A. Hansen
Gen. Mgr.: Leland E. McCrory RD

DELTA CHEMICAL WORKS, INC.
23 W. 60th St., New York 23, N. Y. (Tel. PLaza 7-6317)
Asst. Dir.-Purch.: P. K. Massey
Comptroller: Max Lendner

DELTA CORP.
1249 Main St., Hartford 5, Conn. (Tel. JA 7-8205)
Dir. Purch.: Joseph J. Morrone
Buyers: N. Barber & J. Hiesel
Purch. Agent: A. Mozzafferro S, PS, MS

DELTA-DESCO COMPANIES
539 Aero Dr., Box 1403, Shreveport, La. (Tel. 5-2416-17-18)
Sales Mgr.-Buyer: T. O. Chontler
Chief Clerk, Sales Dept.: Mrs. Helen Dudley M

DELTA DESIGN, INC.
3163 Adams Ave., San Diego 16, Calif. (Tel. AT 3-3193)
Pres.: Trigg Stewart
V. P.: David P. Comey
Sales Mgr.: D. H. Evans, Jr. CT

DELTRON INC.
4th & Cambria St., Philadelphia 33, Pa. (Tel. Regent 9-1101)
Purch. Agent: R. McGarvey
Purch. Clerk: C. Hohner
Dir.-Sales: A. Anton MS, CT

DELUXE COILS INC.
P. D. Box 454, Wobash, Ind. (Tel. 1720); Luxolene Div., Huntington, Ind. (Tel. 3600)
Purch. Agent: Arnold Yentes
Sales Mgr.: R. W. Keipper
Buyer, Luxolene Div.: R. Fickle
Material Mgr., Luxalene Div.: Herman Stegen MS, G

DELUXE METAL PRODUCTS CO.
Warren, Pa. (Tel. RANDolph 3-3900)
Purch. Agent: L. Hutchins
Gen. Sales Mgr.: R. H. Hauser

DEMING CO., THE
South Broadway, Salem, Ohio (Tel. ED 7-8741)
V. P.-Sales: R. F. Webber
Dir.-Purch.: Fred J. Limestahl
Sales Mgr.: R. L. Davis

DEMORNAY-BONARDI
780 S. Arroyo Pkwy., Pasadena, Calif. (Tel. SYcamore 2-4142)
Dir.-Purch.: Herbert J. McCann, Jr.
Sales: M. G. Ekstrom MS, G, CT, TT, RD

DEMPSTER BROTHERS INC.
Springdale Ave., Knoxville 17, Tenn. (Tel. 4-1671)

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	Structures S
	Propulsion System PS
	Missile Support MS
	Materials M
	Guidance G
	Checkout & Testing CT
	Tracking & Telemetry TT
	Research & Development RD
	Human Space Engineering HSE

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- Purch. Agent: John L. McFall
Asst. Purch. Agent: Floyd Nichols
Sales Mgr.: Joseph M. Smallman M
- DENISON ENGRG. DIV., AMERICAN BRAKE SHOE CO.**
1160 Dublin Rd., Columbus 16, O. (Tel. HUDson 8-1191)
Dir.-Purch.: G. T. Hays
Gen. Sales Mgr.: W. J. Pelich
Dir.-Sales: Denison Neale
- DENNIS CHEMICAL CO.**
2701 Papin St., St. Louis 3, Mo. (Tel. PRAspect 6-1868)
Purch. Agent: L. R. Pope
Sales Mgr.: Milton Carlie M, RD
- DENVER RESEARCH INSTITUTE**
University of Denver, Denver 10, Colo. (Tel. SH 4-1811)
Oir.: Shirley A. Johnson, Jr.
Assoc. Dir.: James P. Blackledge
Business Mgr.: George M. Conetta RD
- DEPENDABLE PRINTED CIRCUIT CORP.**
827 Black Oak Ridge Rd., Wayne, N. J. (Tel. TE 5-2765)
Dir.-Sales: George Ogens
Pres.: R. K. Hansen M
- DERBY CASTINGS CO., THE**
591 N. Main St., P. O. Box 111, Seymour, Conn. (Tel. TUxeda 8-2581)
Pres.: C. H. Stakesbury, Jr. M
- F. W. DERBYSHIRE, INC.**
157 High St., Waltham 54, Mass. (Tel. TWInbrook 4-2900)
V. P.: Shaw B. Smith M
- DERINGER METALLURGICAL CORP.**
8131 Monticello Ave., Skokie, Ill. (Tel. ORchard 5-1030)
Pres.: Edwin F. Allison
Exec. V. P.: J. Parter Duell, Jr.
Purch. Agent: Quintin E. Wiersum
V. P.-Sales: Paul H. Laeffler M
- DESIGNERS FOR INDUSTRY, INC.**
4241 Fulton Pkwy., Cleveland 9, Ohio (Tel. SH 9-0700)
Purch. Agent: W. F. Morgan
V. P.-Sales: J. C. Standish MS, G, CT, RD
- DESOMATIC PRODUCT S, INC.-ANDERS-DRILLINE**
1109 W. Broad St., Falls Church, Va. (Tel. JEFFerson 3-9600)
Purch. Agent: M. W. Reed
Gen. Sales Mgr.: Gunnar C. F. Asker
Sales Mgr., Anders-Drilline: Edwin W. Anders MS
- DESPATCH OVEN CO.**
619 S. E. 8th St., Minneapolis 14, Minn. (Tel. FEderal 1-1873)
Purch. Agent: C. J. Flinn
Sales Mgr., Merch. Div.: E. M. Burud S, M, G, CT, RO
- DESTRON CO.**
25914 Cholmette, Rolling Hills, Calif. (Tel. FRIantier 8-3450)
Owner: D. E. St. John MS, CT, TT
- DETECTO SCALES, INC.**
540 Park Ave., Brooklyn 5, N. Y.
Dir.-Purch.: Maxwell Klein
V. P.: Mack Rapp M, CT
- DETREX CHEMICAL INDUSTRIES, INC.**
Box 501, Detroit 32, Mich. (Tel. TOWnsend 8-8600)
V. P.-Sales: W. F. Newbery MS, M
- DETROIT DIESEL ENGINE DIV.-GENERAL MOTORS CORP.**
13400 W. Outer Dr., Detroit 28, Mich. (Tel. KE 1-7100)
Purch. Agent: W. T. Fagarty
Mgr.-Purch. & Prod.: John E. McKenna
Gen. Sales Mgr.: Robert E. Hunter MS
- DETROIT HOIST & MACHINE CO.**
8201 Marrow St., Detroit 11, Mich. (Tel. TR 5-8344)
Sales Engr.: V. A. Fulton
- DETROIT STAMPING CO.**
350 Midland Ave., Detroit 3, Mich. (Tel. TD 8-5080)
Purch. Agent: John Thullen
V. P.-Sales: H. C. Robeson M
- DETROIT TESTING LAB, INC., THE**
554 Bagley Ave., Detroit 26, Mich. (Tel. WO 1-4870)
Pres.: Douglas Daw CT, RD
- DEUTSCH CO., ELECTRONIC COMPONENTS DIV., THE**
Municipal Airport, Banning, Calif. (Tel. VI 9-6701)
Purch. Agent: M. Brown
Sales Mgr.: H. E. Schwank M
- DEUTSCH FASTENER CORP.**
14504 S. Figueroa St., P. O. Box 61072, Los Angeles 61, Calif. (Tel. DAVis 3-6640)
Purch. Agent: G. M. Hays
V. P. & Sales Mgr.: B. S. Sauter
- DEVCO ENGRG. INC.**
Pier Lane West, Caldwell, N. J. (Tel. CA 6-0610)
Purch. Agent: G. Schmidt
Sales: C. Allen
- DEVELOPMENT ENGRG. CO., INC.**
9 Cross St., Norwalk, Conn. (Tel. VOLunteer 6-7720)
Chief Engr.: Richard L. Seidman CT, RD
- DEVICE DEVELOPMENT CORP.**
428 Boston Post Rd., Weston 93, Mass. (Tel. TW 3-0300)
Oir.-Purch.: H. Stacey
Dir.-Sales: R. B. Halt MS, RO
- DeVILBISS CO., THE**
300 Phillips Ave., Toledo, O. (Tel. GRenwood 4-5411)
V. P.-Purch.: E. J. Etzel
Mgr.-Adv. & Sales Prom.: H. A. Lange
- DeWALT DIV., AMERICAN MACHINE & FOUNDRY CO.**
Fountain Ave., Lancaster, Pa. (Tel. EXpress 3-5831)
Gen. Sales Mgr.: A. E. Richardson, Jr.
Purch. Agent: Frank Zecher
- DeWITT DEVELOPMENT CO.**
3008 W. 127th St., Blue Island, Ill. (Tel. FULTon 8-2480)
Pres.: B. G. DeWitt G
- DEZURIK CORP.**
Sartell, Minn. (Tel. BL 1-0221)
Purch. Agent: L. Dezurik
Sales Mgr.: David Oezurik M
- DIAL PRODUCTS CO.**
19 Cottage St., Bayonne, N. J. (Tel. HEMlock 7-0720)
Exec. V. P.-Purch.: H. Sama
Purch. Agent: Mrs. L. Starkey
Buyer: E. Kay
Works Mgr.: J. Wolfkind PS, G
- DIALIGHT CORP.**
60 Stewart Ave., Brooklyn 37, N. Y. (Tel. HYacinth 7-7600)
Purch. Agent: E. S. Farman
V. P.-Sales: R. E. Greene M
- DIAMONO ANTENNA & MICROWAVE CORP.**
35 River St., Winchester, Mass. (Tel. PArkview 9-5500)
Purch. Agent: William L. Page
Sales Engr.: William Rand MS, G, TT, RD
- DIAMOND CHAIN CO., INC.**
402 Kentucky Ave., Indianapolis 7, Ind. (Tel. MELrose 8-6431)
Dir. Purch.: E. W. Allen
Sales Mgr.: J. E. Cooper M
- DIAMOND DRILL CARBON CO., THE**
244 Madison Ave., New York 16, N. Y. (Tel. LEXington 2-3006)
Sales: Bernard Rhades M
- DIAMONO POWER SPECIALTY CORP.**
Lancaster, Ohio (Tel. OLive 3-6540)
Purch. Agent: W. W. Black
V. P.-Sales: W. H. Jackson PS, MS
- DIAMONITE PRODUCTS MFG. CO.**
Shreve, Ohio (Tel. JO 7-4211)
Dir.-Purch.: B. Steimel
Sales Engr.: R. C. Mulligan M
- J. W. OICE CO.**
16 Highwood Ave., Englewood, N. J. (Tel. LOWell 9-0471)
Chief Engr.: M. Strain
Purch. Agent: E. Franz
Sales: E. Van Ressel CT
- OIEHL MFG. CO.**
1224 Finnerde Ave., Samerville, N. J. (Tel. RAndolph 5-2200)
Purch. Agent: F. Bayne
Purch. Dept.: J. Rizzo & H. A. Conrad
V. P.-Sales: A. R. Booth M, G
- HENRY G. DIETZ CO., INC.**
12-16 Astoria Blvd., Long Island City 2, N. Y. (Tel. RAVenswood 6-3347)
Dir.-Purch.: M. Pheasey
Dir.-Sales: H. Dietz MS, CT, TT
- EUGENE DIETZGEN CO.**
2425 N. Sheffield Ave., Chicago 14, Ill. (Tel. LIncoln 9-3300)
Purch. Agent: G. Graefenstein
Chief Engr.: L. R. Halstead
V. P.: H. S. Sandler RD
- DIGITAL SENSORS INC.**
6443 N. Figueroa St., Los Angeles 42, Calif. (Tel. CLIntan 5-1529)
Dir.-Sales: Lee Griswold RD
- DIGITRAN CO., THE**
660 S. Arroya Pkwy., Pasadena, Calif. (Tel. MU 1-9667)
Purch. Agent: Oon Lange CT, TT
- DIGITRONICS CORP.**
Albertson Ave., Albertson, N. Y. (Tel. PI 7-5090)
Purch. Agent: Angela Targia
V. P.-Sales: Eugene Leonard G
- OILETRIX CORP.**
Allen Blvd., Formingdale, L. I., N. Y. (Tel. CHapel 9-7999)
Purch. Agent: M. Petriello
Sales Mgr.: M. Zangrillo PS, M
- DILL MFG. CO., THE**
700 E. 82nd St., Cleveland 3, Ohio (Tel. UTah 1-3200)
Oir.-Purch.: C. W. Banfield
Asst. Purch. Agent: Ernest Spacane
Sales Mgr.: B. S. Byall M
- W. C. DILLON & CO., INC.**
14620 Keswick St., Van Nuys, Calif. (Tel. STate 5-3168)
Purch. Agent: Earl D. Roberts
Sales Mgr.: George A. Dillon CT
- DMCO-GRAY CO.**
207 E. 6th St., Oayton 2, O. (Tel. BAldwin 2-6703)
Purch.: J. D. Gray
Sales Mgr.: C. F. Dearth M
- DINION COIL CO., INC.**
Narth St., Caledonia, N. Y. (Tel. KEystone 8-4412)
Purch. Agent: R. S. Eldridge
V. P. & Sales Mgr.: E. J. Holland M
- DIT-MCO, INC.**
911 Broadway, Kansas City 5, Mo. (Tel. HARRison 1-0011)
Purch. Agent: F. J. Peterschmidt
Natl. Sales Mgr.: W. C. Comer CT, RD
- DIVCO-WAYNE ELECTRONICS DIV., DIVCO-WAYNE CORP.**
9701 Reading Rd., Cincinnati 15, Ohio (Tel. POPlar 1-0010)
Purch. Agent: T. C. Grate
Oir.-Sales: Gene Rove
- DIVERSEY CORP., THE**
1820 W. Rascoe St., Chicago 13, Ill. (Tel. GRaceland 7-3000)
Purch. Agent: D. V. Hannibal
V. P.-Sales: B. B. Button
- DIVISION LEAD CO.**
7742 W. 61st Place, Summit, Ill. (Tel. CHicago-REliance 5-8600)
Purch. Agent: Mary J. Spack
Pres.: Jae A. Stone M
- DOXON CORP.**
19-21 Burnside St., Bristol, R. I. (Tel. CLifford 3-7500)
Purch. Agent: Gerald Almeida
V. P.-Sales: John M. Feeley
- DJECO, DIV.-OJORDJEVIC ENGRG. CO.**
1933 N. Damen, Chicago 47, Ill. (Tel. ARmitage 6-7308)
Purch. Agent: O. D. Petravic
Sales Mgr.: O. M. Djordjevic
Gen. Mgr.: G. Z. Djordjevic MS, RD
- DMETER MFG. CO.**
68 N. Broadway, P. O. Box 88, Yonkers, N. Y. (Tel. Yonkers 9-1770)
Dir.-Purch.: Frank D. Yablonsky
Dir.-Sales: William R. Foley
Pres.: D. Yablonsky M
- DOAK AIRCRAFT CO. INC.**
22309 South Western Ave., Tarrance, Calif. (Tel. SPurce 5-2596)
Purch. Agent: F. R. Miller

V. P.: E. E. Rosier .S. MS
Purch. Agent: Leonard G. Geier
Buyer: H. Gordon
Sales Mgr.: Herbert M. Hendlin G, TT, RD

DODCO, INC.
 Blownburg, N. J. (Tel. Tuxedo 2-1838)
 Pres.: Daniel O. Dommosch G. RD

DODGE MFG. CORP.
 S. Union St., Mishawaka, Ind. (Tel. BLockburn 9-2421)
 V. P.-Prod. & Purch.: Earl Wedlake
 Dir.-Prod. & Purch.: Donald Saunter
 Purch. Agent: Edwin Rhodes
 Asst. Purch. Agent: Clifford Miller
 Steel Buyer: Clifford Mechling
 V.P.-Sales: Harry A. Tarson

DOEHLER-JARVIS DIV., NATIONAL LEAD CO.
 1945 Smead Ave., Toledo 1, Ohio (Tel. CHery 4-9521)
 Purch. Agent: Miss N. DiPersio
 Mgr.-Sales: F. W. Burgie M

DOLGORUKOV MFG. CO.
 407 Fisher Bldg., Detroit 2, Mich. (Tel. TR 1-6383)
 Dir.-Sales: Gregory S. Dolgorukov

DOLIN METAL PRODUCTS, INC.
 315 Lexington Ave., Brooklyn 16, N. Y. (Tel. NE 8-9472)
 Purch. Agent: George Dolson
 Asst. Purch. Agent: Ted Picon
 Dir.-Sales: Albert Gorlin M

DOLINKO & WILKENS, INC.
 1907 Summit Ave., Union City, N. J. (Tel. UNION 7-6630)
 V. P.: Louis Dolinko M, CT, RD

DOLLIN CORP.
 600 S. 21st St., Irvington, N. J. (Tel. ESsex 4-3000)
 V. P.-Sales: Gordon C. Curry

DON-LAN ELECTRONICS INC.
 1101 Olympic Blvd., Santa Monica, Calif. (Tel. EX 3-0758)
 Gen. Mgr.: Harold W. Arlidge
 Prod. Mgr.: Edward B. Butler
 Buyer: Jack R. Yost MS, G, RD

DONNELLY MFG. CO.
 580 Winter St., Waltham 54, Mass. (Tel. TW 3-5700)
 Purch. Agent: John L. Lowlar
 Asst. Purch. Agent: James V. McDoid
 Pres.: Arthur T. McManmon

DONNER SCIENTIFIC CO.
 Concord, Calif. (Tel. MULberry 2-6161)
 Purch. Agent: W. H. Burr, Jr.
 Sales Mgr.: James Story G, CT, RD, HSE

DORAU-CALZA HAIRSPRING CO., INC.
 Yale Ave., Wallingford, Conn. (Tel. Colony 9-7630)
 Pres.: Walter Dorau
 Treas.: Roger Colzo
 V. P.: Ernest Colzo

JOHN L. DORE CO.
 P. O. Box 7772, Houston 7, Texas (Tel. UN 9-3401)
 Purch. Agent: Oscar Froley
 Sales Mgr.: Harry I. Thompson, Jr. M

DORNE & MARGOLIN, INC.
 29 New York Ave., Westbury, L. I., N. Y. (Tel. Edgewood 4-3200)
 Purch. Agent: J. Escolette
 Buyer: O. M. Portocarrero
 Sales Supvr.: David L. Word MS, G, CT, TT, RD

DORSETT ELECTRONIC LABS., INC.
 111 W. Boyd St., P. O. Box 862, Norman, Okla. (Tel. Jefferson 4-3750)
 Purch. Agent: Joseph Tackwell
 V. P.-Engrg.: J. D. Warren
 Dir.-Sales: D. G. Wantland TT, RD

DOUBLE "E" PRODUCTS CO.
 208 Standard St., El Segundo, Calif. (Tel. EAstgate 2-2501)
 Purch. Agent: B. A. Allan
 Gen. Mgr.: S. S. Trier
 Sales Mgr.: J. S. Trier MS, G, CT, RD

DOUGLAS AIRCRAFT CO.
 3000 Ocean Park Blvd., Santa Monica, Calif. (Tel. EX 9-9311)
 Chief Purch. Agent: W. E. Ferguson
 Purch. Agent, Equip. Group: H. C. Brackney
 Purch. Agent, Parts Group: R. L. Kone
 V. P.-Comm. Programs: J. R. McGowen
 V. P.-Defense Programs: C. R. Able S, MS, M, G, CT, TT, RD, HSE

DOUGLAS MICROWAVE CO., INC.
 252 E. Third St., Mt. Vernon, N. Y. (Tel. MDunt Vernon 8-6900)

DOW CHEMICAL CO.
 Midland, Mich. (Tel. MEIrose 6-1000)
 Dir.-Purch.: M. E. LeFevre (Tel. ME 6-4324)
 Dir.-Sales: D. K. Ballman M

DOW CORNING CORP.
 Midland, Mich. (TEmple 2-2371)
 Dir.-Purch.: D. R. Coultrip
 Purch. Dept.: P. C. Philbrick & R. E. Neal
 Dir.-Sales: O. D. Blessing M

DOW INDUSTRIAL SERVICE DIV.-DOW CHEMICAL CO.
 20575 Center Ridge Rd., Cleveland 16, Ohio (Tel. EDison 3-1544)
 Sales Mgr.: H. H. Wolther
 Gen. Purch. Agent: V. M. Lewis, P. O. Box 536, Tulsa, Okla. (Tel. LUther 2-0101) PS, M

DOW-ELCO, INC.
 1313 W. Olympic Blvd., Montebello, Calif. (Tel. RAYmond 3-1288)
 Pres.: J. W. Eldridge
 V. P.: E. F. Huffines

DOW-KEY CO.
 Hwy. 59 S. E., Thief River Falls, Minn. (Tel. MURdock 1-3075)
 Treas. & Gen. Mgr.: Lowell T. Swenson
 Pres.: Gordon M. Dow
 Engr.: Paul Schiebe M

DRAYER HANSON DIV., CRANE CO.
 P. O. Box 2215, Terminal Annex, Los Angeles 54, Calif. (Tel. ANGelus 9-0321)
 Purch. Agent: C. A. Hasenstab
 Buyer: L. Adams
 Chief, Defense Prod.: Don Murray S, MS, M, CT

DREMEL MFG. CO.
 2420 Olympic St., Racine, Wisc. (Tel. MEIrose 3-8267)
 E. A. Erdman

DRESSEN-BARNES CORP.
 250 N. Vinedo Ave., Posadero, Calif. (Tel. MJurray 1-8844)
 Purch. Agent: J. B. Thompson
 Customer Services Mgr.: S. A. Visconti MS, CT, RD

DRESSER ELECTRIC CO.
 2705 Wight St., Detroit 7, Mich. (Tel. LOrain 8-1855)
 Purch. Agent: A. J. Muyloert
 Sales Dir.: D. P. Friedt GS

DRESSER INDUSTRIES, INC.
 Republic Natl. Bank Bldg., Dallas, Tex. (Tel. RIVERSide 8-6411)
 Dir.-Purch: Robert D. Crone

DRESSER MFG. DIV., DRESSER INDUSTRIES, INC.
 41 Fisher Ave., Bradford, Pa. (Tel. BRodford 3131)
 Acting Purch. Mgr.: G. G. Thomas
 Supvr.-Purch.: W. L. Dowson
 Sales Mgr.: George R. Leonard

DRESSER-IDECO CO., DIV.-DRESSER INDUSTRIES, INC.
 875 Michigan Ave., Columbus 15, Ohio (Tel. AXminster 9-2123)
 Dir.-Purch.: Leo Wildermuth
 Asst. Purch. Agent: E. L. Frey
 Product Mgr.: Twr. Div.: J. M. Hogan G, TT

DRIARE, INC.
 26 Fitch St., East Norwalk, Conn. (Tel. TEMple 8-0686)
 Mgr.-Purch.: M. S. Miller
 Mgr.-Prod.: R. W. Hoines
 Mgr.-Sales: J. H. Donovan MS, M, CT

DRICO INDUSTRIAL CORP.
 100 Eighth St., Passaic, N. J. (Tel. Gregory 3-4221)
 Pres.: Felix Doyton
 Purch. Agent: Werner Koburger
 Sales Mgr.: Louis Putter

DRILL MFG. CO.
 546 S. Meridian St., Indianapolis 25, Ind. (Tel. MEIrose 4-2434)
 Gen. Mgr.: P. L. Thatcher
 Dir.-Sales: R. A. Thatcher M

DRILUBE CO.
 723 W. Broadway, Glendale, Calif. (Tel. CH 5-1806)
 V. P.: Roy W. Young, Jr.

WILBUR B. DRIVER CO.
 1875 McCarter Hwy., Newark 4, N. J. (Tel.

HUMBoldt 2-5550)
 Purch. Agent: Edwin J. Looges
 Asst. Purch. Agent: Arthur Knittel
 V. P.-Sales: Norman P. Norlie M

DRIVER-HARRIS CO.
 205 Middlesex St., Harrison 14, N. J. (Tel. HU 3-4800)
 Purch. Agent: J. H. Green
 Sales Mgr.: K. H. Hobbie
 Asst. Sales Mgr.: W. P. Smith M

DRYOMATIC CORP.
 806 N. Fairfax St., Alexandria, Va. (Tel. King 9-3060)
 Purch. Agent: C. E. Wells
 Sales Mgr.: Anthony Hoss MS

DU-CO CERAMICS CO.
 Box 278, Saxonburg, Pa. (Tel. FL 2-1511)
 Secy-Treas.: Reldon W. Cooper
 Pres.: John J. Duke M

M. DUCOMMUN CO.
 580 Fifth Ave., New York 36, N. Y. (Tel. PLozo 7-2540)
 Mgr.: A. G. Stepchuk

R. C. DUDEK & CO.
 407 N. Maple Dr., Beverly Hills, Calif., (Tel. BRodshaw 2-8097)
 Richard C. Dudek

DUDWALLEN MFG. CO., INC., THE
 71 George St., E. Hartford 8, Conn. (Tel. BU 9-4391)
 Pres.: Dave L. Weinbaum
 Dir.-Purch.: Norman W. Burke S, MS

DU KANE CORP.
 St. Charles, Ill. (Tel. JU 4-2300)
 Purch. Mgr.: E. E. Swick
 Purch. Agent: R. H. Mogden
 Mgr.-Govt. & Contract Div.: R. W. Robbins

DUKES CO., INC.
 3999 N. 25th Ave., Schiller Park, Ill. (Tel. GLodstone 5-5795)
 Purch. Agent: G. Tidd
 Sales Mgr.: J. C. Wetter

DULOCK, INC.
 1306 E. 55th St. S., Wichita 16, Kans. (Tel. JA 4-4865)
 Pres.: Oscar N. Davis
 Mgr.: Laurence A. Davis
 Sales Rep.: Homer E. Evans S

ALLEN B. DU MONT LABS., INC.
 750 Bloomfield Ave., Clifton, N. J. (Tel. PRescott 3-2000)
 Dir.-Purch.: Michael Mecco
 Dir.-Sales: John W. Bjorkmon CT, TT, RD

DUMONT ENGRG. CO.
 1401 Freeman Ave., Long Beach 4, Calif. (Tel. GENEvo 3-4931)
 Dir.-Purch.: Ed French
 Buyers: Helen Hoffman & Shirley Wedekind
 Sales Mgr.: Edith Lowery M

DUNBAR-KAPPLER INC.-AIRCRAFT COMPONENTS DIV.
 Island Ave., Botovio, Ill. (Tel. TRemont 9-5400)
 Mgr.-Procurement: E. Ricker
 Buyer: J. VonLeirsburg
 Sales Mgr., Aircraft Div.: H. M. Lockhart PS, MS, RD

DUNHAM-BUSH INC.
 179 South St., West Hartford, Conn. (Tel. CHapel 9-8671)
 V. P.-Purch.: Frank Corney
 Purch. Agent: T. Logon
 V. P.-Sales: J. A. Mulcahey MS, G

DUNLAP & ASSOCIATES, INC.
 429 Atlantic St., Stamford, Conn. (Tel. FReside 8-9271)
 V. P.: H. E. Blank, Jr.
 Asst. V. P.: J. T. Fucigna
 Indsl. Designer: R. Collow RD, HSE

	CODING
	Structures S
	Propulsion System PS
	Missile Support MS
	Materials M
	Guidance G
	Checkout & Testing CT
	Tracking & Telemetry TT
	Research & Development RD
	Human Space Exploration HSE

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- DUNN ENGRG. ASSOCIATES INC.**
225 D'Brien Hwy., Combridge 41, Mass. (UNiversity 4-6700)
Purch. Agent: Kenneth A. Smith
Mgr., Govt. & Indsl. Rel.: John V. Rauseo
G, CT, RD
- M. W. DUNTON CO. INC., THE**
350 Kinsley Ave., Providence, R. I. (Tel. DEXter 1-3600)
V. P. & Gen. Mgr.: Raymond T. Wilber
M
- DUOTONE CO., INC.**
Locust St., Keyport, N. J. (Tel. CDifax 4-2200)
Pres.: Stephen Nester
V. P.-Purch.: B. Rosenberg
- E. I. DU PONT DE NEMOURS & CO., INC.**
Wilmington 98, Del. (Tel. PP 4-1000)
- DURA PLASTICS OF N. Y., INC.**
303 Fifth Ave., New York 16, N. Y. (Tel. Murray Hill 6-5645)
Purch. Agent: D. Wexler
Pres.: Joseph Layman
Sales Mgr.: S. Baliner
- DURACOTE CORP.**
350 N. Diamond St., Ravenna, D. (Tel. AXminster 6-3487)
V. P.-Purch.: W. Randle Truog
Pres.: John B. Schneller
M, RD
- DURAKOOL, INC.**
1010 N. Main St., Elkhart, Ind. (Tel. CD 4-1116)
Purch. Agent: J. B. Witcher
Sales Mgr.: V. H. Hoehn
CT
- DURALAB EQUIPMENT CORP.**
979-995 Linwood St., Brooklyn 8, N. Y. (Nightingale 9-0581)
Eng. Purch.: Dominick Rannucci
Office Mgr.: Louis P. Liano
RD
- DURALITH CORP.**
1025 Race St., Philadelphia 7, Pa. (Tel. WALnut 3-1900)
Gen. Sales Mgr.: Jack M. Smith
M
- DURAMARK, INC.**
2 Secatoga Ave., P. O. Box 231, Port Washington, N. Y. (Tel. Port Washington 7-3232)
Purch. Agent: Mrs. Ada P. Schweder
Plant Mgr.: I. D. Wallach
V. P.-Sales: Andrew T. Callan
M
- DURAMIC PRODUCTS, INC.**
426 Commercial Ave., Palisades Park, N. J. (Tel. WIndsor 7-0310)
Dir.-Purch. & Sales: H. Schwartz
Plant Mgr.: C. Saso
M
- DURANT MFG. CO.**
1900 N. Buffum, Milwaukee 1, Wisc. (Tel. LOCust 2-5035)
Purch. Agent: A. M. Jones
Exec. V. P.: Robert B. Winkler
- DUREZ PLASTICS DIV., HOOKER CHEMICAL CORP.**
1980 Walck Rd., North Tonawanda, N. Y. (Tel. LUDlow 1860)
Gen. Mgr.: J. C. Searer
Gen. Sales Mgr.: J. W. Ferguson
Purch. Mgr.: C. W. Selover, Buffalo Ave. & 47th Sts., Niagara Falls, N. Y. (Tel. BUtler 5-6655)
M
- DURO SPECIALTY CO., INC.**
811 Boston St., Lynn, Mass. (Tel. LYnn 3-3585)
Purch. Agent: William I. Frankel
Sales Dir.: S. Joseph Hoffman
M
- DUVAL MARINE CO.**
333 Riverside Ave., Jacksonville 2, Fla. (Tel. EL 3-0977)
Gen. Mgr.: S. J. Gefen
CT, RD
- DYNACOR, INC.**
1010 Westmore Ave., Rockville, Md. (Tel. GARden 4-6900)
Purch. Agent: H. R. Veazey
Sales Mgr.: John Cook
M
- DYNAMETRICS CORP.**
N. W. Industrial Park, Burlington, Mass. (Tel. BRowning 2-1600)
Mfg. Mgr.: Fred Hugel
Buyer & Sub-Contract: Malcolm Winsor
Sales Mgr.: Andrew S. Kariotis
MS, CT, RD
- DYNAMIC AIR ENGRG., INC.**
7412 Maie Ave., Los Angeles 1, Calif. (Tel. LUDlow 8-3292)
Purch. Agent: A. M. Brown
- Sales Mgr.: H. E. Lever**
MS, HSE
- DYNAMIC CONTROLS CO.**
2225 Massachusetts Ave., Cambridge, Mass. (Tel. ELiot 4-3633)
Dir.-Purch.: S. M. Smith
Dir.-Sales: J. J. Gano
CT
- DYNAMIC CONTROLS CORP.**
30 Thomas St., E. Hartford, Conn. (Tel. BU 9-6808)
Purch. Mgr.: H. Piotrowski
Gen. Mgr.: T. P. Farkas
PS, MS, CT, RD
- DYNAMIC FILTERS INC.**
1565 Dakman Blvd., Detroit 38, Mich. (Tel. TDwnsend 9-2600)
Purch. Agent: A. L. Pomaville
Dir.-Sales: Ray Dkanski
PS, RD
- DYNAMIC GEAR CO., INC.**
175 Dixon Ave., Amityville, L. I., N. Y. (Tel. AM 4-4788)
Purch. Agent: Jaques Edeline
Asst. to Purch. Agent: Ed Bain
Sales Mgr.: Thomas J. Smith
RD
- DYNAMIC INSTRUMENT CORP.**
59 New York Ave., Westbury, L. I., N. Y. (Tel. EDgewood 3-1600)
Purch. Agent: Robert J. Messina
Buyer: Miss J. Loomis
Gen. Mgr.: Harold E. Sulger
PS, MS
- DYNAMICS INSTRUMENTATION CO.**
1118 Mission St., South Pasadena, Calif. (Tel. MUrray 2-3318)
Pres.: Nathan Brownstone
Buyer: Richard Getty
Sales Mgr.: O. E. Strickland
CT
- DYNA-THERM CHEMICAL CORP.**
3813 Hoke Ave., Culver City, Calif. (Tel. UPRion 0-4751)
Purch. Agent: J. M. Maddock
Sales Mgr.: Robert Dowson
V. P.-Research: Elbert Davis
S, MS, M, RD
- DYNATRONICS, INC.**
P. D. Box 2566, Orlando, Fla. (Tel. Midway 7-5200)
Dir.-Purch.: William M. Reed
Mgr.-Subcontracts: H. Van Allen
Dir.-Contracts: Edward A. Hughes
MS, CT, TT, RD
- DYNISCO, INC.**
42 Carleton St., Cambridge 42, Mass. (Tel. UN 4-7260)
Purch. Mgr.: Dan Shea
Chief Engr.: Harvey L. Pastan
Sales Mgr.: Ralph Bruce
CT
- DYTRONICS CO.**
P. D. Box 3676, Columbus 14, Ohio (Tel. AM 3-0890)
Dir.-Purch.: P. Ryan
Sales Mgr.: K. Gregersen
CT, TT, RD
- DZUS FASTENER CO., INC.**
125 Union St., West Islip, N. Y. (Tel. Mohawk 9-0494)
Purch. Agent: H. A. Kerr
Sales Mgr.: L. F. Acker
- ESC CORP.**
534 Bergen Blvd., Palisades Park, N. J. (Tel. WIndsor 7-0400)
Purch. Agent: S. Kuno
V. P.-Sales: Stanley S. Packer
M
- E-Z-HOOK TEST PRODUCTS**
1536 Woodburn Ave., Covington, Ky. (Tel. COlonial 1-1495)
Sales Mgr.: Robert N. Youger
CT, RD
- E-Z WAY TOWERS, INC.**
5901 E. Broadway, Tampa, Fla. (Tel. 4-2171)
Asst. Treas.: N. Leo Dubois
Pres. & Sales Mgr.: Clarence Jax
S
- EAGLE ELECTRIC MFG. CO. INC.**
23-10 Bridge Plaza S., Long Island City 1, N. Y. (Tel. ST 4-9200)
Purch. Agent: I. Sobol
Asst. Purch. Agent: A. Feiner
Sales Mgr.: S. Jay Atkin
- EAGLE OTTAWA LEATHER CO.**
P. O. Box 308, Beachtree St., Grand Haven, Michigan (Tel. 8)
Purch. Agent: E. D. Horbeck
V. P.-Sales: Donald H. McCree
M
- EAGLE SIGNAL CO.**
202-20th St., Moline, Ill. (Tel. Moline 2-5571)
Purch. Agent: C. A. Boardman
- Asst. Purch. Agent: Eimer Lorenz**
Sales Mgr.: V. C. Blecker
MS, M, TT
- EAGLE-PICHER CO., THE**
American Bldg., Cincinnati 1, Ohio (Tel. PArkway 1-7010)
V. P. & Gen. Mgr., Chemicals & Metals Div.: Miles M. Zoller
Asst. Gen. Mgr., Chem. & Metals Div.: Don R. Carter
V. P. & Gen. Mgr., Insulation Div.: G. J. Christner
Sales Mgr., Indsl. Insulation Dept.: W. D. Myers
M, G, CT, TT, RD
- EASTERN CHEMICAL DIV., HOOKER CHEMICAL CORP.**
Buffalo Ave. at 47 St., Niagara Falls, N. Y. (Tel. BUtler 5-6655)
Purch. Mgr.: Charles W. Selover
Purch. Agent: Robert J. Baker
- EASTERN INDUSTRIES INC.**
100 Skiff St., Hamden 14, Conn. (Tel. CHEstnut 8-3841)
Purch. Agent: C. Phillips
Asst. Purch. Agent: R. Jerzyk
Sales Mgr.: H. W. Whitaker
PS, MS, G, CT, TT, RD
- EASTERN ROTORCRAFT CORP.**
Swamp Rd., P. D. Box 110, Doylestown, Pa. (Tel. Fillmore 8-3518)
Purch. Agent: C. P. Montague
Sales Mgr.: Marshall Lewis
S, MS
- EASTERN SMELTING & REFINING CORP.**
109 W. Brookline St., Boston 18, Mass. (Tel. COmmonwealth 6-7504)
Treas.: Maurice G. Alperin
Comptroller: Frank E. Wandrey
M
- EASTERN SPECIALTY CO., THE**
3617 N. Eighth, Philadelphia 40, Pa. (Tel. Baldwin 8-0500)
Dir.-Purch.: H. F. McGinley
Dir.-Sales: Edward P. Conely
- EASTERN STAINLESS STEEL CORP.**
P. O. Box 1975, Baltimore 3, Md. (Tel. ATwater 8-2000)
Buyer: E. J. Than
V. P.-Sales: R. C. Cunningham
- EASTMAN KODAK CO.**
343 State St., Rochester, N. Y. (Tel. LOCust 2-6000)
Dir.-Purch., Kodak Park Works: Jerome E. Doyle
Dir.-Purch., Apparatus & Optical Div.: John T. Harbison
V. P.-Sales: J. E. McGhee
- EATON MFG. CO.**
739 E. 140th St., Cleveland 10, D. (Tel. GLEnville 1-5600)
Dir.-Purch.: H. A. Williams
V. P.-Sales: E. M. de Windt
- EATON MFG. CO., RELIANCE DIV.**
25 Charles Ave., S. E., Massillon, Ohio (Tel. TE 2-1511)
Div. Purch. Agent: J. W. Morton
Buyer: W. Matthey
Gen. Sales Mgr.: R. B. Little
M
- EATON MFG. CO., VALVE DIV.**
Ave. C at 20th St., Battle Creek, Mich. (Tel. WDOward 2-7571)
Purch. Agent: J. B. Smith
Sales Mgr.: D. D. Roberts
S
- EBERLINE INSTRUMENT CORP.**
805 Early St., Santa Fe, N. M. (Tel. YUcca 2-1881)
Chief Purch. Agent: John C. Harvey
Asst. Purch. Agent: Frank Slown
Acting Mktg. Dir.: Don E. Mitchell
- EBERT ELECTRONICS CORP.**
212-26 Jamaica Ave., Queens Village 28, N. Y. (Tel. SPRuce 6-1800)
Purch. Agent: L. Mitchell
Sales Mgr.: V. Horowitz
G
- HUGH H. EBY CO.**
4701 Germantown Ave., Philadelphia 44, Pa. (Tel. DAV. 4-7000)
Dir. Purch.: Arthur Hankinson
Sales Mgr.: W. A. Telmoss
M
- ECKEL VALVE CO.**
1425 First St., San Fernando, Calif. (Tel. EMpire 1-6251)
Purch. Agent: Edward Beinfest
Gen. Mgr.: J. R. Bly
PS, G, CT
- ECLIPSE FUEL ENGRG. CO.**
1100 Buchanan, Rockford, Ill. (Tel. Woodland 8-3751)
Purch. Agent: W. T. Whitcomb
V. P.-Plant Operations: E. A. Stoner

Exec. V. P.: J. H. Sonds

ECLIPSE-PIONEER DIV., BENDIX AVIATION CORP.
Teterboro, N. J. (Tel. Atlas 8-2000)
Dir.-Purch.: J. Quinn
Dir.-Sales & Service: J. P. Buckley MS, G, CT, RD

ECO ENGRG. CO.
12 New York Ave., Newark 1, N. J. (Tel. Market 4-6565)
Purch. Agent: Vernon Davis
Sales Mgr.: James Eisenberg MS, M, CT

ECONOWELO CORP.
519 Hunter Ave., Dayton, O. (Tel. Baldwin 3-7295)
V. P.-Purch.: Bart Wilgus
Engr. Sales: C. A. Thomas

ED-BERL PRODUCTS, INC.
96 S. Grand Ave., Baldwin, L. I., N. Y. (Tel. Baldwin 3-1636)
Dir.-Purch.: Fred W. Will
V. P.-Sales: Howard Kaufman RD

EDCLIFF INSTRUMENTS
1711 S. Mountain Ave., Monrovia, Calif. (Tel. ELiot 8-4571)
Purch. Agent: John Smith
Mgr., Tech. Serv.: D. W. Marks MS, G, CT, TT, RD

EDDINGTON METAL SPECIALTY CO.
3088 Bristol Pike, Eddington, Pa. (Tel. MEcury 9-3600; ORchard 3-8383)
Purch. Agent: Walter V. Czamecki, Jr.
Asst. Purch. Agent: Kenneth Leatherman
Gen. Mgr.: George S. Vavra
Sales Mgr.: Stanley Czamecki, Jr. RD

EOER INSTRUMENT CO. INC.
2293 N. Clybourn Ave., Chicago 14, Ill. (Tel. EAstgate 7-2131)
Sales: L. Streifeneder

EDGERTON, GERMESHAUSEN & GRIER, INC.
160 Brookline Ave., Boston 15, Mass. (Tel. COpley 7-9700)
Dir.-Product Sales: R. L. Purrington CT, TT, RD

EOGEWATER STEEL CO.
Box 478, Pittsburgh 30, Pa. (Tel. OAKmont 280)
Purch. Agent: L. W. Engel
Asst. Purch. Agent: W. Schano
V. P.-Sales: W. M. Cree
Mgr., Indsl. Sales: W. O. Fleming M

**THOMAS A. EDISON IND. INSTRUMENT DIV.-
MCGRAW-EDISON CO.**
85 Lakeside Ave., W. Orange, N. J. (Tel. ORange 3-6800)
Purch. Agent: Harry Keiman
Gen. Sales Mgr.: George J. Bindewald G, CT, TT

EOMUNO SCIENTIFIC CO.
101 E. Gloucester Pike, Barrington, N. J. (Tel. LIncoln 7-3488)
Pres.: Norman W. Edmund
Purch. Div.: Carl Gabriel

EDO CORP.
13-10 - 111th St., College Point 56, N. Y. (Tel. Hickory 5-6000)
Dir.-Purch.: W. F. Konrad
V. P.: A. M. Brown RD

EDWARDS ENGRG. CO.
21 Yennicoak Ave., Port Washington, N. Y. (Tel. PQ 7-6700)
Gen. Mgr.: John E. Kane TT, RD

EDWARDS HIGH VACUUM LTD.
P. O. Box 515, Cumberland Ave., Burlington, Ont., Canada (Tel. NE 4-7757)
Purch. Agent: J. R. Morgan
Asst. Purch. Agent: P. Stone
Sales Mgr.: R. G. Webster
Purch. Agent, Niagara Falls, N. Y., (Tel. BU 3-2363): F. R. Barnes RD

EFCON, INC.
Potterson Pl., Roosevelt Field, Garden City, L. I., N. Y. (Tel. Pioneer 1-4200)
Purch. Agent: A. J. Cucco
Chief Exec.: Paul D. Alley
Pres.: Alfred B. Rossip M

EICOR DIV.-SCRANTON
4059 W. North Ave., Chicago, Ill. (Tel. HUmbolt 6-2060)
Purch. Agent: R. Farneti, 517 W. Walnut St., Oglesby, Ill. (Tel. 3-8453)

EIDAL MFG. CO., INC.
250 Woodward Rd., S. E., Albuquerque, N. M. (Tel. CHapel 2-5223)
Purch. Agent: W. A. Muff
V. P.-Sales: S. J. Woodin MS

EIDSON ELECTRONIC CO.
1902 N. 3rd, Temple, Texas (Tel. PR 3-3901)
Owner & Chief Engr.: Merrill Eidson M, CT

EIMCO CORP., THE
P. O. Box 300, Salt Lake City 10, Utah (Tel. DAVIS 8-8831)

EISLER ENGRG. CO., INC.
769 S. 13th St., Newark 3, N. J. (Tel. Blgelow 3-5310)
Purch.: Herman Goldstein
Prod.: Otto J. Thaler
Pres.: Charles Eisler, Jr.

EITEL-McCULLOUGH, INC.
301 Industrial Way, San Carlos, Calif. (Tel. LYtell 1-1451)
Purch. Agent: Donald Rogers
Mgr.-Prac.: John Stenson
Dir.-Mktg.: O. H. Brown M, RD

ELASTIC STOP NUT CORP. OF AMERICA
2330 Vauxhall Rd., Union, N. J. (Tel. MURdock 6-6000)
Purch. Agent: Everett F. Howell
Gen. Sales Mgr.: D. E. Lally

ELCO CORP.
"M" St. Below Erie Ave., Philadelphia 24, Pa. (Tel. CUMberland 9-5500)
Purch. Agent: Henry Marks
V. P.-Sales: Leo Kagan

ELCOR, INC.
1225 W. Broad St., Falls Church, Va. (Tel. JEFferson 2-7718)
Purch. Agent: John F. Walton
Pres.: John H. Reeves RD

ELDEMA CORP.
1805 Belcroft Ave., El Monte, Calif. (Tel. CUMberland 3-3498)
Dir.-Purch.: W. C. Whiffen
V. P.-Sales: J. A. Moore G, CT

ELDORADO ELECTRONICS
2821 10th St., Berkeley, Calif. (Tel. THornwall 1-4613)
Purch. Agent: A. E. Cummins
Sales Mgr.: H. J. Lewenstein

ELECTRA MFG. CO.
4051 Broadway, Kansas City, Mo. (Tel. WEsport 1-6864)
Purch. Agent: D. E. Aitken
V. P.-Electronic Sales: R. R. Burton
Sales Mgr., Resistor Dept.: R. T. Means MS

ELECTRALAB PRINTED ELECTRONICS CORP.
175 "A" St., Needham Hgts. 94, Mass. (Tel. HILLcrest 4-3912)
Purch. Agent: K. B. Lorey
V. P.-Sales: R. G. Zens

ELECTRIC AUTO LITE CO., THE
1201 Chomplain St., Toledo 1, O. (Tel. CHerry 3-3131)
V. P.-Purch.: J. H. Lambrix
V. P.-Sales: Edwin Strah RD

ELECTRIC AUTO LITE CO., THE, WIRE & CABLE DIV.
3529 24th St., Port Huron, Mich. (Tel. YUkon 5-6131)
Purch. Agent: A. L. Bailey
Gen. Sales Mgr.: S. T. Rose

ELECTRIC CORDS & SUPPLY CORP.
413 E. Third St., Los Angeles 13, Calif. (Tel. MA 8-2278)
Purch. Agent: Alfreda Chandler
Sales Engr.: J. W. Hemphill MS

ELECTRIC DESIGN & MFG. CO.
722 Jefferson St., Burlington, Iowa (Tel. PLaza 2-7685)
Pres.: Fred Bulmahn

ELECTRIC HOSE & RUBBER CO.
Wilmington, Del. (Tel. OLYmpia 5-6261)
Purch. Agent: S. M. Howard
Sales Mgr.: V. W. Wells

ELECTRIC INDICATOR CO. INC.
Camp Ave., Stamford, Conn. (Tel. DAVIS 2-1671)
Purch. Agent: Alfred Green, Jr.
V. P.: J. L. Knight MS, G, CT, TT

ELECTRIC MACHINERY MFG. CO.
800 Central Ave., Minneapolis 13, Minn. (Tel. EDeRral 9-6751)
Dir.-Purch.: J. Murnane
Purch. Agent: W. Fisher
Asst. Purch. Agents: Duane Larson, H. Roeger
V. P.-Sales: C. E. Buchan MS, CT

ELECTRIC MOTORS & SPECIALTIES, INC.
King & Hamsher Sts., Garrett, Ind. (Tel. FL 7-4141)
Purch. Agent: Keith W. Murray
Sales: J. A. Fuhrman

ELECTRIC REGULATOR CORP.
Pearl St., Norwalk, Conn. (Tel. VI 7-2401)
Purch. Agent: M. Gelfand
Sales Mgr.: W. H. Walter

ELECTRIC STEEL FOUNDRY CO.
2141 N. W. 25th St., Portland 10, Ore. (Tel. CApital 8-2141)
Purch. Agent: Marvin E. Price
Gen. Sales Mgr.: Joe McQuaid M

ELECTRIC TERMINAL CORP.
3 Bellows St., Warwick Industrial Park, Warwick, R. I. (Tel. STuart 1-2189)
Supt.: William Massie, Jr.
Pres.: Joseph P. Dunn M

ELECTRICAL INSULATION CO., INC.
1245 Marconi Blvd., Copiague, L. I., N. Y. (Tel. AM 4-6190)
V. P.-Purch.: Robert S. Goldstein
Dir.-Sales: H. W. Halm M

ELECTRICAL & MECHANICAL DESIGN CO.
P. O. Box 706, Clark, N. J. (Tel. FULTon 8-3381)
Purch. & Sales: Raymond E. Hall PS

ELECTRICAL & PHYSICAL INSTRUMENT CORP.
42-19 27th St., Long Island City 1, N. Y. (Tel. STIllwell 4-6387)
Dir. Sales: U. E. Hovemeyer CT

ELECTRICAL REFRACTORIES CO., THE
East End, East Clark St., East Palestine, O. (Tel. GArden 6-9433)
Plant Supt.: Hector B. Moore
Gen. Mgr.: L. J. Turner RD

ELECTRICAL WINDINGS, INC.
2015 N. Kolmar Ave., Chicago, Ill. (Tel. BElmont 5-3360)
Purch. Agent: Arnold M. Topper
Sales Mgr.: L. C. Kammerer

ELECTRO ARC MFG. CO.
P. O. Box 448, Ann Arbor, Mich. (Tel. HU 3-4233)
Engr.: J. V. Wood
V. P.: H. W. Stark, Jr.
Sales Mgr.: T. J. O'Connor

ELECTRO ENGRG. WORKS
401 Predo St., San Leandro, Calif. (Tel. LO 9-3326)
Purch. Agent: Marvin C. Phillips
Sr. Buyer: Miss Lois C. Crigler
Sales Mgr.: Rex E. Brooks M

ELECTRO IMPULSE LAB., INC.
208 River St., Red Bank, N. J. (Tel. SHadyside 1-0404)
Pres.: Irving Rubin

ELECTRO INSTRUMENTS, INC.
3540 Aero Ct., San Diego 11, Calif. (Tel. BRowning 7-6590)
Purch. Agent: Wade C. Gilliland, Jr.
Buyer: James Greenfield
V. P.-Sales: R. H. Applin MS, CT, RD

ELECTRO POWERPACS, INC.
5 Hadley St., Cambridge 40, Mass. (Tel. TRowbridge 6-9220)
V. P. & Gen. Mgr.: Henry Dormitzer
Purch. Agent: Gerald Sullivan
Dir.-Sales: David J. Sanders

ELECTRO PRECISION CORP.
P. O. Box 669, Arkadelphia, Ark. (Tel. CHapel 6-4564)
Pres.: John H. Hosemann
Chief Engr.: Gary L. Sandlin
Purch. Agent: Mary B. Agar
Sales Mgr.: A. James Edwards RD

ELECTRO PRODUCTS LABS., INC.
4501 N. Ravenswood Ave., Chicago 40, Ill. (Tel. LOngbeach 1-1707)

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Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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- Purch. Agent: E. V. Tetzner
Sales Mgr.: Lloyd A. Thatcher M
- ELECTRO SCIENTIFIC INDUSTRIES**
7524 S. W. Macadam, Portland 19, Ore. (Tel. CH 6-3331)
Purch. Agent: Lloyd Smith
Mktg. Mgr.: J. G. Kirwan MS, M, CT
- ELECTRO SWITCH CORP.**
King Ave., Weymouth 88, Mass. (Tel. EDgewater 5-5200)
Purch. Agent: J. P. Salters
Buyer: S. Sylvester
V. P.-Sales: T. K. Brydson MS
- ELECTRO TEC CORP.**
10 Romanelli Ave., South Hackensack, N. J. (Tel. HUBbard 7-4940)
Purch. Agent: George Parigoris
Sales Mgr.: Eugene Parks MS, G, TT, RD
- ELECTRO TEC CORP., VIRGINIA DIV.**
P. O. Box 219, Blacksburg, Va. (Tel. PRescott 2-8208)
Purch. Agent: Thomas F. Mantz
Sales Mgr.: Gene Parks, South Hackensack, N. J. (Tel. HUBbard 7-4940)
- ELECTRO TECHNICAL PRODUCTS DIV., SUN CHEMICAL CORP.**
113 E. Centre St., Nurtley 10, N. J. (Tel. NURtley 2-7070)
Gen. Sales Mgr.: W. F. Hugger M
- ELECTRO-CAPACITORS CO.**
10132 Edes Ave., Oakland 3, Calif. (Tel. LOckhaven 8-7910)
Sales Mgr.: H. Marquess M
- ELECTROFILM, INC.**
7116 Laurel Canyon Blvd., N. Hollywood, Calif. (Tel. POplar 5-4420)
Purch. Agent: R. R. Schweger, Jr.
Sales Mgr.: R. E. Crump PS, MS, RD
- ELECTRO-FLEX HEAT, INC.**
83 Woodbine St., Hartford 6, Conn. (Tel. CHapel 6-5413)
Purch. Agent: John Bulluss
Sales: Ronald J. Borrup MS
- ELECTROID CORP.**
95 Progress St., Union, N. J. (Tel. MURdock 6-8290)
Dir.-Purch.: F. Alvarez
Dir.-Sales: Paul E. Plante PS, MS, G, RD
- ELECTROL INC.**
85 Grand St., Kingston, N. Y. (Tel. FEderal 1-1980)
Purch. Agent: J. Tyrrell
Sales Mgr.: D. C. Pierson MS
- ELECTROMARK CORP., THE**
2083 E. 19th St., Cleveland 15, Ohio (Tel. SU 1-7377)
V. P. & Purch. Agent: R. Hennie
Gen. Mgr.: B. W. Mayer PS, MS, M, G, CT, TT, RD
- ELECTROMATH CORP.**
115 Pleasant Ave., Roosevelt, L. I., N. Y. (Tel. MAYfair 3-3500)
Purch. Agent: Anthony T. Canova
Asst. Purch. Agent: George T. Parisi
V. P.-Sales: Thomas A. D. Canova M, CT, RD
- ELECTROMATION CO., DIV.-DEL MAR ENGRG. LABS.**
1646 18th St., Santa Monica, Calif. (Tel. EX 5-9975)
Purch. Agent: John Sheppard
Sales Mgr.: Bill Williams MS, G, CT, TT, RD
- ELECTRO-MEC LAB. INC.**
47-51 33rd St., Long Island City 1, N. Y. (Tel. STIllwell 6-3402)
Purch. Agent: Leo F. Ostar
Sales Mgr.: Forbes Morse RD
- ELECTRO-MECHANICAL RESEARCH, INC.**
Box 3041, Sarasota, Fla. (Tel. RIngling 6-1148)
Purch. Agent: John Moore
V. P.-Sales: T. E. Stewart
- ELECTRO-MECHANICAL SPECIALTIES CO., INC.**
743 W. 39th St., Banning, Calif. (Tel. VICTor 9-6033)
Purch. Agent: R. L. Kritser
Gen. Mgr.: James Goodman
- ELECTRO-MEDICAL LAB., INC.**
South Woodstock 25, Vt. (Tel. WOODstock 144M4)
Pres.: Lovett Garceau
Treas.: D. S. Garceau HSE
- ELECTRO-MINIATURES CORP.**
630 Huyler St., South Hackensack, N. J. (Tel. HUBbard 9-7770)
- Purch. Agent: L. A. Lopez
Asst. Purch. Agent: D. Dunn
Dir.-Sales: L. R. Sonders MS, G, TT
- ELECTROMODE DIV.-COMMERCIAL CONTROLS CORP.**
P. O. Box 1052, 570 Culver Road, Rochester 3, N. Y. (Tel. BUtler 8-1880)
Dir. Purch.: Joseph A. Ehrstein
Gen. Sales Mgr.: Paul D. Hawkins M
- ELECTRON PRODUCTS DIV., MARSHALL INDUSTRIES**
430 N. Halstead, Pasadena, Calif. (Tel. MURray 1-0666)
Purch. Agent: F. S. Pirrie
Sales Mgr.: R. M. Green
- ELECTRONIC APPLICATIONS, INC.**
194 Richmond Hill Ave., Stamford, Conn. (Tel. DAVIS 5-1574)
Secy.-Treas.: T. M. Skee
Pres.: Vincent J. Skee CT, TT, RD
- ELECTRONIC ASSOCIATES, INC.**
Long Beach, N. J. (Tel. Capital 9-1100)
Purch. Agent: E. F. Van Pelt
Sr. Buyers: L. W. Cavalieri, J. H. Schochter & J. W. Thompson
Buyers: R. A. Grammer & E. Valente
- ELECTRONIC BRAZING CO.**
140 Glenridge Ave., Montclair, N. J. (Tel. PILgrim 4-2160)
Dir.-Purch.: Walter J. Lambert CT
- ELECTRONIC CIRCUITS**
641 N. LaPeer Dr., Los Angeles 46, Calif. (Tel. BR 2-4535)
Dir.-Purch.: James M. Devitt, Jr.
Dir.-Sales: Robert V. Schubach M
- ELECTRONIC COILS, INC.**
33 Lyman St., Springfield, Mass. (Tel. REpublic 6-6339)
Purch. Agent: Miss F. Joworek
Chief Engr.: E. Bassett
Sales Mgr.: G. Lindstrom
- ELECTRONIC COMMUNICATIONS, INC. (ECI)**
1501 72nd St., N. St. Petersburg 10, Fla. (Tel. DICKens 5-9301), Maritime Base, St. Petersburg, Fla. (Tel. 5-7111)
V. P.-Mktg.: E. F. Coy (Tel. DI 5-3800)
Purch. Mgr.: Russell Walworth (Tel. 5-7111)
Purch. Agents: George Doescher & Wesley Magwood (Tel. 5-7111) MS, G, TT, RD
- ELECTRONIC COMPUTER CO., INC.**
618 Maple St., Conshohocken, Pa. (Tel. TAYlor 8-3967)
Purch. Agent: Kenneth Webb
Asst. Purch. Agent: James Hausman
Sales Mgr.: Frank Hause CT, TT
- ELECTRONIC CONTROL CORP.**
1573 E. Forest Ave., Detroit 7, Mich. (Tel. TEMple 2-6625)
Dir.-Purch.: S. C. Lawrence
- ELECTRONIC DEVICES INC.**
429 12th St., Brooklyn 15, N. Y. (Tel. SOuth 8-3530)
Purch. Agent: Peter Buenahora
Gen. Mgr.: Harold B. Rosenberg
Chief Engr.: Jack D. Weiner
Sales Admin.: Francis J. Brooks M
- ELECTRONIC ENGRG. CO. OF CALIFORNIA**
1601 E. Chestnut Ave., Santa Ana, Calif. (Tel. KIMberly 7-5501)
Purch. Agent: A. R. Harman
Buyers: Gene Frake & Steve Gandolfo
Sales Mgr.: W. R. McQuiston CT, RD
- ELECTRONIC MEASUREMENTS CO., INC.**
Lewis St. & Maple Ave., Eatontown, N. J. (Tel. LIBerty 2-0300)
Purch. Agent: B. DeBlasio
Sales Mgr.: Douglas Stevens MS
- ELECTRONIC MEASUREMENTS CORP.**
625 Broadway, New York 12, N. Y. (Tel. GRameray 5-0610)
Purch. Agent: L. Stans
Sales Mgr.: M. Lieblitch
- ELECTRONIC MECHANICS, INC.**
101 Clifton Blvd., Clifton, N. J. (Tel. GREgory 3-4108)
Purch. Agent: D. Carlson
Dir.-Sales: F. M. Grafton S, M
- ELECTRONIC PARTS MFG. CO., INC.**
508 25th St., Union City, N. J. (Tel. UNion 5-4028) M, RD
- ELECTRONIC PROCESSES CORP. OF CALIFORNIA**
436 Bryant, San Francisco 7, Calif. (Tel. EXbrook 7-3881)
Pres.: E. H. Stewart
V. P. & Sales Mgr.: A. F. Hogland PS
- ELECTRONIC SPECIALTY CO.**
5121 San Fernando Rd., Los Angeles 39, Calif. (Tel. CHapman 5-3771)
Purch. Agent: H. A. Venturino
Sales Mgr.: Ted M. Duay
- ELECTRONIC SPECIALTY CO., EEMCO DIV.**
4612 W. Jefferson Blvd., Los Angeles 16, Calif. (Tel. REpublic 3-0151)
Purch. Agent: H. W. Freese
Sales Mgr.: T. Perry
Dir.-Mktg.: Tom Cataldo
- ELECTRONIC TRANSFORMER CO., INC.**
70 Washington St., Brooklyn 1, N. Y. (Tel. MAin 5-6123)
Purch. Mgr.: Herman Leighton
Sales Mgr.: Treslian Park M
- ELECTRONIC TUBE CORP.**
1200 E. Mermaid Lane, Philadelphia 18, Pa. (Tel. CHEstnut Hill 7-6800)
V. P.-Purch.: Kenneth C. Meinken, Jr.
Pres.: Kenneth C. Meinken MS, CT, RD
- ELECTRONICS OF CLEARFIELD, INC.**
P. O. Box 792, Clearfield, Pa. (Tel. POplar 5-5597)
Purch. Agent: Katherine Patterson
Exec. V. P.: James C. Boyd MS
- ELECTRONICS CORP. OF AMERICA**
One Memorial Dr., Cambridge, Mass. (Tel. UNiversity 4-8000)
Dir.-Purch.: Herbert Preble
Dir.-Sales, Military Div.: B. H. Dean MS, G, CT, RD
- ELECTRONICS DEPT., HAMILTON STANDARD DIV., UNITED AIRCRAFT CORP.**
Broad Brook, Conn. (Tel. NATIONAL 3-1621)
Purch. Agent: K. Williams
Sales Mgr.: Boone T. Guyton
- ELECTRONICS DIV.-THE NATIONAL CASH REGISTER CO.**
1401 E. El Segundo Blvd., Hawthorne, Calif. (Tel. PLYmouth 7-1811)
Purch. Agent: A. G. Krumm
Buyers: Arthur Lloyd & J. C. Krause
Mgr., Mktg. Dept.: L. J. Hines MS, CT, RD
- ELECTRON-RADAR PRODUCTS**
4806 W. Chicago Ave., Chicago 51, Ill. (Tel. ESTerbrook 9-1232)
Laboratory: Rt. 30, P. O. Box 50, North Aurora, Ill.
Purch. Agent: W. A. Bailey
Proprietor: J. J. Bailey
- ELECTRONS, INC.**
127 Sussex Ave., Newark 3, N. J. (Tel. HUmboldt 2-5977)
Dir.-Purch.: W. I. Relyeo
Purch. Dept.: F. Fodor
Sales Mgr.: R. F. Roberts
- ELECTRO-PULSE, INC.**
11861 Teale St., Culver City, Calif. (Tel. UPton 0-9193)
Gen. Mgr.: J. E. Niebuhr
Purch. Agent: S. Green CT, TT
- ELECTRO-SEAL CORP.**
946 North Ave., DesPlaines, Ill. (Tel. VA 4-6173)
Dir.-Engrg.: Paul E. Labus
- ELECTROSOLIDIS CORP.**
13745 Saticoy, Panorama City, Calif. (Tel. TR 3-3172)
Mtl. Mgr.: N. Karchem
Sales Mgr.: John F. Lohr G, CT, TT
- ELECTRO-SWITCH & CONTROLS, INC.**
5755 Camille Ave., Culver City, Calif. (Tel. TEXas 0-4643)
Gen. Sales Mgr.: J. K. Brose
Buyer: R. E. Preston
- ELECTRO-VOICE, INC.**
Cecil & Carroll Sts., Buchanan, Mich. (Tel. OXBow 5-6831)
Purch. Agent: J. N. Grieveson
Buyers: Frank Strompelt & Tom Fitzpatrick
V. P.-Sales: Lawrence LeKoshman
- ELECTRO-WINDERS CO. INC.**
854 W. Front St., Covina, Calif. (Tel. EDGewood 2-6207)

Plt. Mgr.-Purch. Agent: George Payne
Sales Mgr.: Jack Ratner M

ELEKTRO-SERV CO.
480 Johnson Ave., Brooklyn 37, N. Y. (Tel. HY 7-0053)
Purch. Agent: B. Jeffries
Asst. Purch. Agent: D. Stephens

ELGEET OPTICAL CO., INC.
838 Smith St., Rochester 6, N. Y. (Tel. BEveryly 5-8080)
Purch. Agent: S. J. Rayburn
Pres.: David Goldstein RD

ELGENCO, INC.
1555 14th St., Sonto Manico, Calif. (Tel. EXbrook 3-3023)
V. P.-Purch.: D. E. Beecher
Pres.: Henry Low MS, CT, RD

ELGIN MICRONICS DIV.-ELGIN NATIONAL WATCH CO.
366 Bluff City Blvd., Elgin, Ill. (Tel. SHERwood 2-5700)
Purch. Mgr.: E. F. Antanson

ELGIN MICRONICS, WEST COAST DIV.-ELGIN NATIONAL WATCH CO.
21001 Nardhoff St., Chatsworth, Calif. (Tel. Diamond 0-7220)
Purch. Agent: Jae Huff
Gen. Mgr.: W. M. Wachas MS, CT, RD

ELGIN NATIONAL WATCH CO.
107 National St., Elgin, Ill. (Tel. SHERwood 2-3300)
Dir.-Purch., Watch Div.: W. H. Miller
Gen. Sales Mgr., Watch Div.: Harold Rich

ELIN DIV., INTERNATIONAL ELECTRONIC RESEARCH CORP.
145 W. Magnolia Blvd., Burbank, Calif. (Tel. Victoria 9-2481)
Purch. Agent: Philip T. Salaman
V. P.: John E. Markley, Jr.
Sales Mgr.: John R. Foster

ELJAY CORP.
2900 Herbert St., Baltimore 16, Md. (Tel. Wilkens 5-2902)
Purch. Mgr.: Stanley A. Sladek
Shop Prod. Mgr.: J. Earl Jacobs

B. W. ELLIOTT MFG. CO., INC.
221 Prospect Ave., Binghamton, N. Y. (Tel. RA 4-2512)
Purch.: E. M. Twining PS

GEORGE O. ELLIS & SONS, INC.
American & Luzerne Sts., Philadelphia 40, Pa. (Tel. Baldwin 3-3405)
Purch. Agent: G. M. Hansen
Purch. Dept.: T. T. Toyler
V. P.: L. C. Sossoman M

ELLIS & WATTS PRODUCTS, INC.
8407 Monroe Ave., Cincinnati 36, Ohio (Tel. TWeed 1-8000)
Admin. Supvr.: Robert J. Lammert
Purch. Agent: James Macke
V. P.-Sales: Arnold Dunkelmann MS, RD

ELLISON ORAFT GAGE CO., INC.
548 W. Monroe St., Chicago 6, Ill. (Tel. RA 6-2296)
Treas. & Purch. Agent: Richard L. Cacy
Dir.-Sales: Martin Coco

ELLWOOD IVINS STEEL TUBE WORKS INC.
Valley Rd. & Coventry Ave., Daks Lane, Philadelphia 26, Pa.
Prod. Mgr.: G. I. Bartlesan, Jr.

ELMET DIV.-NORTH AMERICAN PHILIPS CO., INC.
Lisbon Rd., Lewiston, Me. (Tel. STote 4-5478)
V. P., Elmet Div.: R. Lawit
Purch. Agent: C. Eriksen
Sales, Elmet Div.: D. R. Donovan

ELWELL-PARKER ELECTRIC CO., THE
4205 St. Clair Ave., Cleveland 3, Ohio (Tel. UT 1-6200)
Purch. Agent: P. F. Mitchell
Sales Mgr.: J. A. Ackermann

ELZEE METAL PRODUCTS CO., INC.
775 39th St., Brooklyn 32, N. Y. (Tel. GEdney 5-5000)
Gen. Mgr.: Milton M. Lynn
Dir.-Sales: Mel Leipzig

EMELOID CO., INC., THE
1239 Central Ave., Hillside 5, N. J. (Tel. ELizabeth 2-1944)
V. P.-Purch.: J. S. Freundlich
Purch. Agent: Mrs. Florence Headley
Sales Mgr.: George W. Emerson S

EMERSON & CUMING, INC.
869 Washington St., Canton, Mass. (Tel. CAnton 6-1066)
Purch. Agent: C. B. McSarlly
Buyer: J. Healey
Sales Mgr.: C. L. Emerson, Jr. M

EMERSON ELECTRIC MFG. CO., THE, ELECTRONICS & AVIONICS DIV.
8100 Florissant Ave., St. Louis 36, Mo. (Tel. CDifax 1-800)
Dir.-Purch.: John A. Alles, 59th & Industrial Aves., Washington Park, Ill. (Tel. Bridge 1-6060, Sta. 850)
Purch. Agent: M. Randall, Washington Park (Tel. Bridge 1-6060, Sta. 852)
Mgr., Sales Dept.-E & A Div.: C. F. Pizac
S, PS, MS, M, G, CT, TT, RD, HSE

EMERSON PLASTICS CORP.
1383 Seabury Ave., Branx 61, N. Y. (Tel. SYcamore 2-4400)
Purch. Agent: Al Schoenberger
Gen. Mgr.: Gene Greck
Dir.-Sales: W. Elsfelder S, M

EMERTON, SUB.-EMERSON RADIO & PHONOGRAPH CORP.
14th & Cales Sts., Jersey City 2, N. J. (Tel. SWarthmore 5-3500; 1140 East-West Hwy., Silver Spring, Md. (Tel. JUniper 8-7273)
Mgr., Mfg.: William O. Hoyward (Tel. SWarthmore 5-3500)
V. P.-Mktg.: George Roppaport (Tel. JUniper 8-7273)
Dir.-Purch., Research Labs.: Walter M. Prichard (Tel. JUniper 8-7273) MS, G, CT, TT, RD, HSE

EMHART MFG. CO., MAXIM DIV.
85 Hamestead Ave., Hartford 1, Conn. (Tel. JA 7-9285)
Purch. Mgr.: F. N. Dull
Dir.-Sales: T. S. Willets PS, MS, RD

EMHART MFG. CO., SKYWORKER DIV.
766 Windsor St., Hartford 1, Conn. (Tel. CHapel 9-0671)
Gen. Sales Mgr.: Stephen B. Doss MS

EMMCO PLASTIC FABRICATORS
68 Vine St., Everett 49, Mass. (Tel. DUnkirk 9-1660)
Dir.-Purch.: John Oljey
Dir.-Sales: David McAuliffe

EMMERT MFG. CO.
1051 E. Main St., Waynesboro, Pa. (Tel. 848)
Pres.: A. B. Sallenberger

EMPIRE ELECTRONICS CO., INC.
60 Spruce St., Paterson 1, N. J. (Tel. ARmary 4-8282)
V. P.: George Surasky
Pres.: Milton Surasky MS, G, CT, TT

EMPIRE PRODUCTS SALES CORP.
37 Prospect St., Amsterdam, N. Y. (Tel. Vlcotr 2-8400)
Purch. Agent: Allen Cohen
Buyer: James Behlen
Pres.: Joseph Lorch MS, G, CT, TT, RD

ENOEVCO CORP.
161 E. California Blvd., Pasadena, Calif. (Tel. SYcamore 5-0271)
Purch. Agent: Alex Zielinski
Prod. Mgr.: John Daly
Sales Mgr.: Warren D. Hancock CT

ENDICOTT FORGING & MFG. CO., INC.
1901 North St., Endicott, N. Y. (Tel. 5-3331)
Gen. Sales Mgr.: A. L. Coleman S, G

ENFAB INC.
312 E. Brook Rd., San Jose, Calif. (Tel. CY 5-1801)
V. P.-Purch.: Mac C. Cutler
Plant Mgr.: R. B. Taylor
Oir.-Sales: H. Paul Sherlack M, RD

ENGELHARD INDUSTRIES, INC.
133 Astar St., Newark, N. J. (Tel. Blgelow 2-2700)
Purch. Agent: W. Marks
Sr. V. P. & Sales Mgr.: D. L. Alexandre

ENGELHARD INDUSTRIES INC., D. E. MAKEPEACE DIV.
Pine & Dunham Sts., Attleboro, Mass. (Tel. 2-0089)
Purch. Agent-Main Div. & Slip Ring Assm. Div.: George Aucain
V. P.-Sales: W. F. Mittendorf

ENGELHARD INDUSTRIES, INC., NATIONAL ELECTRIC INSTRUMENT DIV.
92-21 Carana Ave., Elmhurst 73, N. Y. (Tel. HA 9-2890)
Optical Engr.: F. Kelly CT

ENGINEERED PLASTICS, INC.
Chase St., Gibsonville, N. C. (Tel. 2411)
Purch. Agent: C. V. Long, Jr.
Sales Mgr.: Dan Davidson, Jr.

ENGINEERED PRECISION CASTING CO.
Box 68, Hwy. 79, Matawan, N. J. (Tel. LDwell 6-2204)
Dir.-Purch.: W. A. Dubavick

ENGRG. DEVELOPMENTS, INC.
P. D. Box 149, Newport, R. I. (Tel. Viking 6-9100)
Purch. Mgr.: Dana J. Mulholland
Sales Dept.: P. Panaggia, Jr.
V. P.: L. F. Gill

ENGRG. SPECIALTIES
8115 Camargo Rd., Madeira, Cincinnati 43, Ohio (Tel. Lacust 1-6803)
Purch. Agent: V. J. Berlage
Dir.-Sales: C. A. Schneider MS, CT

***ENGIS EQUIPMENT CO.**
431 S. Dearborn St., Chicago 5, Ill. (Tel. HARRison 7-3223)
Treas.: Mrs. C. L. Martan
V. P.: E. J. Schneider G
*(See advertisement this issue)

ENSCO, INC.
3100 Eldredge St., Salt Lake, Utah (Tel. HUnter 5-9162)
Gen. Mgr.: Frank W. Langson CT

ENSGN-BICKFORD CO., THE
660 Hapmeadow St., P. D. Box 308, Simsbury, Conn. (Tel. DLDfield 8-4411)
Purch. Mgr.: P. W. Nielsen
Dir.-Mktg.: William S. Sherman M, RD

ENTHONE, INC.
442 Elm St., New Haven 8, Conn. (Spruce 7-5581)
Purch. Agent: Carl Schaefer
Sales Mgr.: C. C. Helmle M

ENTRON, INC.
P. D. Box 287, Blodensburg, Md. (Tel. APpleton 7-9585)
Purch. Agent: Carl D. Jones
V. P.-Sales: Robert J. McGeehon RD

EPCO PRODUCTS INC.
Foot of Cottage St., Box 298, Walkkil, N. Y. (Tel. Twinbrook 5-3300)
Pres.: E. Mullin M

EPIC, INC.
150 Nassou St., New York 38, N. Y. (Tel. Digby 9-2470)
Purch. Dept.: B. Wagner
Head-Sales: Peter Letico CT

EPOXY PRODUCTS, INC., DIV.-JOSEPH WALOMAN & SONS
137 Calt St., Irvington 11, N. J. (Tel. ESsex 5-6000)
Purch. Agent: Edward Sagerman
Sales Mgr.: Sam Ringel M

EPSCO INC.
275 Massachusetts Ave., Cambridge, Mass. (Tel. UNIVERSITY 4-4950)
Dir.-Materials: John J. Kelly
Buyers: Robert R. Doucette & Sal Pantano
V. P.-Mktg.: Eugene Cabel MS, G, CT, TT, RD

***EQUIPMENT DIV., RAYTHEON CO.**
Waltham, Mass. (Tel. Twinbrook 9-8040)
Mktg. Mgr.: L. G. Walker
Purch. Agent: P. L. Gatchell, 225 Crescent St., Waltham, Mass. G, TT, RO
*(See advertisement this issue)

ERA ENGRG. INC.
1009 Montana Ave., Santa Manica, Calif. (Tel. EX 5-9995)
Pres.: H. Hutchinsan
Oir.-Sales & Contracts: M. Cramer

ERDCO ENGRG. CDRP.
Addison, Ill. (Tel. Kingswood 3-6733)

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- Purch. Agent: William E. Huntsha
Dir.-Sales: John T. Shartle MS, CT
- ERIE INSTRUMENTATION, DIV.-ERIE RESISTOR CORP.**
12922 S. Weber Way, Hawthorne, Calif. (Tel. DRegion 8-5418)
Mktg. Mgr.: R. J. Miller
Mgr.-Purch.: Joseph Simmans
Gen. Mgr.: Ross E. Hupp
- ERIE RESISTOR CORP.**
644 W. 12th St., Erie 6, Pa. (Tel. GLendale 6-8592)
Purch. Agent: George T. Griswold
Buyer: Roger Lusk
Buyer, Electronics Div.: A. G. Hall
V. P.-Mktg.: Allen J. Shenk M, TT
- ERIEZ MFG. CO.**
1945 Grove Dr., Erie, Pa. (Tel. GL 6-2041)
Purch. Agent: G. A. Amidon
Asst. Purch. Agent: Walter Nesgoda
Office Sales Mgr.: M. L. Cramer M
- ERWIN-NEWMAN CO., THE**
P. O. Box 1308, Houston 1, Tex. (Tel. JACKson 4-8186)
Partners: R. J. Newman, C. P. Erwin
Chief Engr.: J. F. Irvine S
- ESSEX MFG. CO., INC.**
8213 Gravais, St. Louis 23, Mo. (Tel. VEron 2-4500)
Purch. Agent & Dir.-Sales: Harald Gutter PS, MS, RD
- ESSEX WIRE CORP.**
1601 Wall St., Ft. Wayne, Ind. (Tel. E-0311)
Purch.: G. Brown
V. P.-Sales: J. W. Stewart MS, M, G
- ESSEX WIRE CORP., MAGNET WIRE DIV.**
1601 Wall St., Ft. Wayne, Ind. (Tel. EAstbrook 0311)
Dir.-Purch.: G. Kohlmeier
V. P.-Sales: J. W. Stewart M
- ESSO STANDARD, DIV.-HUMBLE OIL & REFINING CO.**
15 W. 51st St., New York 19, N. Y. (Tel. PL 7-1200)
Mgr.-Purch.: A. J. Kelly
Gen. Mgr.-Mktg.: R. O. Goodykoantz
- ESTERLINE-ANGUS CO., THE**
P. O. Box 596, Indianapolis, Ind. (Tel. CHapel 4-3318)
Purch. Agent: J. T. Casebourne
Sales Operation Mgr.: James Goll
Sales Promotion: Lewis Meier, Jr. MS
- ETS-HOKIN & GALVIN**
551 Mission St., San Francisco, Calif. (Tel. E-Brack 7-2722); 218 N. Avalon Blvd., Wilmington, Calif. (Tel. TErmin 5-5601); 2295 E. Belt St., San Diego, Calif. (Tel. BElmont 4-6301)
Chief Purch. Agent: Fred Oakey
Sales, San Francisco: Jack Frost, Louis Bruni, Jack Pehrson
Sales, Wilmington: Milton Schug, Anthony Corbane, William Brown
Sales, San Diego: A. C. Eddy, Fred Byrum, Don Burgar
- EUBANKS ENGRG. CO.**
260 N. Allen Ave., Pasadena, Calif. (Tel. Murray 1-5905)
Purch. Agent: Ben Bentley
Gen. Mgr.: E. F. Eubanks
- EUBANKS INDUSTRIES, INC.**
2855 E. 11th Ave., Hialeah, Fla. (Tel. OXFord 1-7552)
V. P.: E. B. Cohen
Pres.: W. S. Eubanks, Jr. S, MS, M, TT
- EUCLID ELECTRIC & MFG. CO., THE**
50 Edwards St., Madison, Ohio (Tel. HAZel 8-3511)
Purch. Agent: C. A. Bauer
Asst. Purch. Agent: E. Jacobson
Exec. V. P.: C. J. Rawles M
- EUREKA WILLIAMS CORP.**
1201 E. Bell St., Bloomington, Ill. (Tel. 76041)
Dir.-Purch.: Lloyd Haaver
Mgr., Contract Div.: G. W. Phister RD
- EUTECTIC WELDING ALLOYS CORP.**
40-40 172nd St., Flushing 58, N. Y. (Tel. FLushing 8-4000)
National Sales Mgr.: R. F. Fax M
- EVANS RESEARCH & DEVELOPMENT CORP.**
250 E. 43rd St., New York 17, N. Y.
Dir.-Sales: Dr. William F. Holland RD
- EWALD INSTRUMENTS**
Rt. 7-G, Kent, Conn. (Tel. WAiker 7-3278)
Gen. Mgr.: L. H. Ewald CT
- EXACT ENGRG. & MFG. INC.**
2375 Canyon Dr., Oceanside, Calif. (Tel. SARatoga 2-2144)
Purch. Agent: D. D. Padgett
Dir.-Sales: George A. Brusch MS, G, RD
- *EXCELCO DEVELOPMENTS INC.**
Mill St., Silver Creek, N. Y. (Tel. YE 4-2651)
Pres.: L. A. Brooks PS, MS, RD
*(See advertisement in this issue)
- EXCELLEX ELECTRONICS INC.**
39-51 60th St., Woodside 77, N. Y. (Tel. OL 1-3370)
Dir.-Purch.: Murray Weinstein
Dir.-Sales & Engrg.: Hermon W. Tackel M, RD
- EX-CELL-O CORP.**
1200 Dakman Blvd., Detroit 32, Mich. (Tel. TDwnsend 8-3900)
Dir.-Purch.: F. D. Sicklesteiel
Purch. Agent: F. Grimm
V. P.-Insl. Sales: D. H. McIver PS, MS, G
- EXCELSIOR LEATHER WASHER MFG. CO. INC.**
720-730 Chestnut St., Rockford, Ill. (Tel. WDodland 8-2203)
Pres.: C. E. Duclan
Treas.: W. E. Duclan
- EXECUTONE, INC.**
415 Lexington Ave., New York 17, N. Y. (Tel. MUrroy Hill 7-7440)
Purch. Agent: Bernard Loew, 47-37 Austell Place, Lang Island City 1, N. Y. (Tel. RAvenswood 9-7031)
Gen. Sales Mgr.: Ed Brady
- EXIDE INDUSTRIAL DIV.-THE ELECTRIC STORAGE BATTERY CO.**
Rising Sun & Adams Ave., Philadelphia 20, Pa. (Tel. Fidelity 2-8000)
Purch. Agent: H. S. Stevenson
Sales: C. J. Moore PS
- EYELET TOOL CO. INC.**
31 Corleton St., Cambridge 42, Mass. (Tel. UN 4-8170)
- FMC CHLOR-ALKALI DIV.**
161 E. 42nd St., New York 17, N. Y. (Tel. MU 7-7400)
Mgr. Dinazino Sales: Beverly Rose M
- FWD CORP.**
Clintonville, Wisc. (Tel. VALley 3-2141)
Dir.-Purch.: Lloyd Pinkawsky
Dir.-Purch.: Leray Hughes
Buyer: C. Pederson
Dir., Defense & Special Products: Wesley H. Peters MS
- FXR, INC.**
26-12 Barough Pl., Woodside 77, N. Y. (Tel. RAvenswood 1-9000)
Chief Purch. Agent: Lou Eskanozy
Asst. Purch. Agent: Jim Terlizzi
Buyer: Al Stiusa
Dir.-Sales Engr. Dept.: Neal Deaul MS, CT, RD
- FABER PEN & PENCIL CO. INC., EBERHARD**
Crestwood-Wilkes-Barre, Pa. (Tel. GRAnite 4-6711)
Dir.-Purch.: A. H. Dietze
V. P. & Sales Mgr.: C. P. Molloux M
- A. W. FABER-CASTELL PENCIL CO., INC.**
41-47 Dickerson St., Newark 3, N. J. (Tel. HU 3-1997)
Supt.-Purch.: Otto Miller
Pres. & Gen. Mgr.: H. G. Bittman
Sales Mgr.: Charles Wyr M
- FABRICON CORP.**
19 Mill St., Unionville, Conn. (Tel. ORchard 3-2571)
Dir.-Purch. & Sales: M. V. Fields
Purch. Dept.: John McPhee & Harry Fitzgearld
- FABRI-FORM CO., THE**
258 W. Main Ave., Byesville, O. (Tel. 5416)
Buyer: E. E. Wray
Dir.-Sales: K. F. Kirkland S, HSE
- FAE INSTRUMENT CORP.**
42-61 Hunter St., L. I., N. Y. (Tel. STillwell 6-4959)
V. P.-Purch.: A. Monkes
Pres.: A. Dnyskin
Sales Mgr.: A. Blake PS, MS, G, CT, TT, RD
- FANFIR BEARING CO., THE**
37 Booth St., New Britain, Conn. (Tel. BALdwin 5-5151)
Purch. Agent: F. H. Hetzler
V. P.-Sales: R. W. Powell PS, G, TT, RD
- FAIRBANKS CO., THE**
393 Lafayette St., New York 3, N. Y. (Tel. SPring 7-8800)
V. P.-Sales: E. T. Flonogon
- FAIRCHILD AIRCRAFT & MISSILES DIV., FAIRCHILD ENGINE & AIRPLANE CORP.**
Hagerstown 10, Md. (Tel. REgent 3-3600)
Mgr.-Materials: S. T. Mulroney
Dir.-Sales: Lea W. Killen S, MS, CT, RD
- FAIRCHILD ASTRONICS DIV., FAIRCHILD ENGINE & AIRPLANE CORP.**
Straight Path Rd., Wyandanch, L. I., N. Y. (Tel. Midland 3-7171)
Materials Mgr.: B. B. Kimball
Asst. Purch. Agents: C. F. Boggett & R. Stacker
Customer Relations Dir.: E. C. Leeson MS, MS, G, CT, RD
- FAIRCHILD CAMERA & INSTRUMENT CORP.**
580 Midland Ave., Yonkers, N. Y. (Tel. GREENleaf 6-0201)
Purch. Agent: William B. Croaker
Purch. Dept.: Redmond Scott
Chief Engr.: Kenneth LiDonnici
- FAIRCHILD CAMERA & INSTRUMENT CORP., INDUSTRIAL PRODUCTS DIV.**
580 Midland Ave., Yonkers, N. Y. (Tel. GREENleaf 6-0201)
Purch. Agent: William B. Croaker
Asst. Purch. Agent: Redmond Scott
Mktg. Mgr.: H. M. Oshan
- FAIRCHILD CONTROLS CORP.**
225 Park Ave., Hicksville, L. I., N. Y. (Tel. WElls 8-5600)
Purch. Mgr.: R. Crockett
Gen. Sales Mgr.: T. F. D'Andrade
Sales Mgr., East Coast: A. A. Budde G
- FAIRCHILD CONTROLS CORP., COMPONENTS DIV.**
255 Park Ave., Hicksville, L. I., N. Y. (Tel. WElls 8-5600); 6111 E. Washington Blvd., Los Angeles, Calif. (Tel. RAYmond 3-5191)
Purch. Agent: Robert Crockett
Natl. Contracts Admin.: T. F. D'Andrade G, CT, TT
- FAIRCHILD SEMICONDUCTOR CORP.**
545 Whisman Rd., Mountain View, Calif. (Tel. YOrkshire 8-8161)
Purch. Agent: Lee Swosey
Sr. Buyer: Don Chaney
Mktg. Mgr.: Thomas Bay
- FAIRFIELD ALUMINUM CASTINGS CO.**
Fairfield, Iowa (Tel. 194)
Pres.: August Van Lantschoot
V. P.-Sales: Tom B. Hunt
Purch.: Merle Haney M
- FAIRFIELD ENGRG. CORP.**
114 Manhattan St., Stamford, Conn. (Tel. DAvis 5-1561)
V. P.-Mfg.: H. B. Frankel
Buyer: Mrs. E. Stelmach
Sales Mgr.: Kenneth L. Kline G, RD
- FALCON MACHINE & TOOL CO.**
211 Concord Tpke., Cambridge 40, Mass. (Tel. TRobridge 6-3269)
Treas.: Sal Leto
Pres.: Joseph Leto
Sales Mgr.: Stephen Kniffen M, RD
- FALGE ENGRG. DIV., PEN MAC NYE CO.**
4933 Elm St., Bethesda 14, Md. (Tel. DL 4-3020)
Purch. Agent: A. T. Medkeff
Pres.: J. A. Bares
Dir.-Sales: C. T. Smith M
- FALSTROM CO.**
75 Folstrom Ct., Passaic, N. J. (Tel. PRescott 7-0013)
Purch. Agent: P. W. Kievit
Purch. Agent: R. L. Chapman
Sales Mgr.: R. E. Hill S, MS, G, CT, RD
- FANSTEL METALLURGICAL CORP.**
North Chicago, Ill. (Tel. DExter 6-4900)
Dir.-Purch.: J. A. Teece
Purch. Agent: G. E. Powell
Buyers: L. W. Carter, W. Laser, E. A. Weidman, H. Nelson, K. Garrity, H. Chase M
- FARLEY & LOETSCHER MFG. CO., PLASTICS DIV.**
7th & White St., Dubuque, Iowa (Tel. 2-5451)
Purch. Agent: L. J. Streinz
Div. Mgr.-Purch.: F. R. Loetscher
Asst. Div. Mgr.: C. E. Walz M
- FARMER ELECTRIC PRODUCTS CO., INC.**
2300 Wash. St., Newton Lower Falls 62, Mass. (Tel. DEcatur 2-8383)
Purch. Agent: T. L. Parker

V. P.-Sales: J. M. Former

FARWELL METAL FABRICATING
75 W. Fairfield Ave., St. Paul 7, Minn. (Tel. Capitol 4-5318)
Purch. Agent: Arnold Portugal
Asst. Purch. Agent: Mike Doddorio
Sales Mgr.: W. J. Morzoff S, MS

FARWEST MFG. DIV., INC.
209 1st Ave., S. Seattle 4, Wash. (Tel. MA 4-5656)
Pres.: Ron K. Bustad
Sales Mgr.: Bob Birdseye MS, M, CT, RD

FASCD INDUSTRIES INC.
255 N. Union St., Rochester, N. Y. (Tel. HAmilton 6-1800)
Dir.-Purch.: C. Weiland
Asst. Purch. Agent: E. Bulloch
Sales Mgr.: S. Deon

FAULTLESS CASTER CDRP.
1427 N. Garvin St., Evansville 7, Ind. (Tel. HARRISON 5-9041)
V. P.-Purch.: Elmer H. Noelting
Purch. Agent, Parts: Robert Morris
Purch. Agent, Raw Materials: George L. Wood
Gen. Sales Mgr.: C. Bernard Noelting

J. W. FECKER DIV., AMERICAN OPTICAL CO.
6592 Hamilton Ave., Pittsburgh 6, Pa. (Tel. EMerson 1-7617)
Purch. Agent: Bert DeMarco
Dir.-Sales: Joseph Kello MS, CT, TT

FEDERAL BEARINGS CD. INC., THE
Fairview Ave., Poughkeepsie, N. Y. (Tel. GL 2-6000)
Dir.-Purch.: E. Wollin
Dir.-Sales: E. Sweeney

FEDERAL ELECTRIC CDRP.
621-671 Industrial Ave., Paramus, N. J. (Tel. CDlfox 1-7200)
Purch. Mgr.: J. L. McBride
Dir.-Mktg.: R. A. Marshall

FEDERAL ELECTRONIC PRODUCTS INC.
1380 Pompton Ave., Cedar Grove, N. J. (Tel. CLlford 6-1600)
V. P.-Purch.: A. R. Dutcher
Chief Engr.: Eric Pohle
Plant Mgr.: A. R. Johnson M

FEDERAL MACHINE CO. INC.
841 Gorfield Ave., Jersey City 5, N. J. (Tel. HEnderson 5-1500)
Purch. Agent: H. Shapiro
Pres.: Harold H. Butler S

FEDERAL METAL HDSE CDRP.
277 Military Rd., Buffalo 7, N. Y. (Tel. DE 4893)
Pres.: Harry C. Neff
Purch.: K. E. Lehr

FEDERAL PRODUCTS CDRP.
1144 Eddy St., Providence 1, R. I. (Tel. STuart 1-9300)
Purch. Agent: H. E. Gilson
V. P.-Sales: L. B. Colt M

FEDERAL SCIENTIFIC CDRP.
615 W. 131st St., N. Y., N. Y. (Tel. AU 6-4400)
Purch. Agent: Murray Wiener
Asst. Purch. Agent: Donald Mintz TT, RD

FEDERAL SCREW PRODUCTS INC.
3917 N. Kedzie Ave., Chicago 18, Ill. (Tel. IRving 8-5744)
Pres.: Joseph M. Levine
Purch. Agent: Ted Eisman
Sales Mgr.: L. L. Horris M

FEDERAL TOOL & MFG. CO.
3600 Alaboma Ave., Minneapolis 16, Minn. (Tel. WEst 9-7843)
Purch. Agent: W. A. Bergmon
Pres.: E. J. Skromstad RD

FEEDBACK CONTROLS, INC.
8 Erie Dr., Natick, Mass. (Tel. OL 3-3441)
Purch. Agent: S. W. Black
Regional Sales Mgr.: F. C. Thompson G, TT

FELTERS CO., THE
210 South St., Boston 11, Mass. (Tel. Liberty 2-7021)
V. P.-Purch.: J. G. Bowden, 22 W. St., Millbury, Mass. (Tel. UNION 5-4404)
V. P.-Sales: G. C. Howe
Asst. Sales Mgr.: G. J. Harrington M

FELTDN-SIBLEY & CO., INC.
136 N. 4th St., Philadelphia 6, Pa. (Tel. Market 7-3860)
Secy.: J. F. McMenamin
Asst. Purch. Agent: Herbert Kutz
Sales Mgr.: Ben Smith M

FENN MFG. CD., THE
Fenn Rd., Newington, Conn. (Tel. MOhawk 6-2471)
Purch. Agent: D. F. Potemostro
V. P., Aircraft Sales: R. T. Holt S, PS

FENSKE, FEDRICK & MILLER INC.
12820 Panama St., Los Angeles 66, Calif. (Tel. UPTon 0-6041)
Dir.-Material: Charles Lichten
Buyer: Arnold Colman
Sr. Buyer: Milt Mitsingas
Mktg. Mgr.: R. L. LaCroix MS, CT, TT, RD

FENWAL ELECTRONICS, INC.
Mellen St., Framingham, Mass. (Tel. TRinity 3-7455)
Pres.-Purch.: R. S. Goodyear
Sales Mgr.: H. J. Andrews M

FENWAL INC.
Pleasant St., Ashland, Mass. (Tel. TRinity 5-6111)
Purch. Agent: F. Stockwell
Buyers: J. Mahoney & R. Thorne
Gen. Sales Mgr.: S. Edgerly CT, RD

L. W. FERDINAND & CD. INC.
2300 Washington St., Newton 62, Mass. (Tel. DECatur 2-5307)
Pres.: Paul B. Herrick M, RD

FERRDTRAN ELECTRONICS CD., INC.
693 Broadway, New York 12, N. Y. (Tel. ALgonquin 4-5810)
Gen. Mgr.: Edward A. Abbot RD

FERRXCUBE CORP. OF AMERICA
50 E. Bridge St., Sougerties, N. Y. (Tel. CHerry 6-2811)
Purch. Agent: J. P. O'Reilly
Sales Mgr.: W. J. Crosby M

FIBERCRAFT, INC.
328 East Ave. N., Lyons, Kans. (Tel. CLlford 7-2376)
Dir.-Purch.: Arlon G. Potwin
Pres. & Gen. Mgr.: John B. Sobine S, M

FIBERFIL, INC.
Fox Form Rd., Warsaw, Ind. (Tel. AMherst 7-7176)
Plant Mgr.: R. G. Duncan
Purch.: Allen Young
Development Mgr.: T. P. Murphy
Dir.-Sales: W. H. Chodbourne M

FIDELITONE, INC.
6415 N. Ravenswood St., Chicago 26, Ill. (Tel. BR 4-0075)
Purch. Agent: H. C. Rutherford
V. P. & Gen. Mgr.: William R. Anton M

FIDELITY CHEMICAL PRODUCTS CORP.
470 Frelinghuysen Ave., Newark 12, N. J. (Tel. BI 2-4110)
Gen. Mgr.-Purch.: Maurice Bick
Head-Sales: S. B. Lonyoi M

FIDELITY INSTRUMENT CORP.
1000 E. Boundary Ave., York, Pa. (Tel. 7675)
Purch. Agent: George Dietz
Pres.: A. A. Wolf
V. P.: L. E. Witmyer M

FIELD EMISSION CORP.
210 N. Ford St., McMinville, Ore. (Tel. 12951)
Bus. Mgr.: Carter Stanton
Proj. Leader: Frank Grundhauser
Engr.: Norman Stunkard
V. P.-Sales: Stanton D. Bennett CT, RD

FILM CAPACITORS, INC.
3400 Park Ave., New York 56, N. Y. (Tel. CY 2-5180)
Dir.-Purch.: Sydel Nebel
Pres.: Sam Lipman M

FILMDHM CDRP.
48 W. 25th St., New York 10, N. Y. (Tel. WAtkins 4-6605)
Purch. Agent: Bob Latin
Buyer: M. Rosten
V. P.-Sales: J. N. Papper M

FILTERS INC.
51 Coloveros Rd., Milpitas, Calif. (Tel. AM 2-2440)
Pres.: James Dsterman M, RD

FILTDRS, INC.
30 Sagamore Hill Dr., Port Washington, N. Y. (Tel. 7-8220)
Purch. Agent: D. Bochicchio
V. P.-Sales: C. G. Barker MS, G, CT, TT, RD

FILTRON CD., INC.
131-15 Fowler Ave., Flushing 55, N. Y. (Tel. Hlckory 5-7000)
Dir.-Purch.: Lou Kerestury
V. P.-Sales: Sam Perry M, CT, RD

FINN AERD NAUTICAL DIV., T. R. FINN & CD. INC.
275 Goffle Rd., Howthome, N. J. (Tel. HA 7-7123)
Purch. Engr.: T. B. Malloy
Sales: William Grimm

FINNELL SYSTEM, INC.
500 East St., Elkhart, Ind. (Tel. JA 2-0586)
V. P.-Purch.: W. S. Finnell, Jr.
V. P.-Sales: James E. Bates M

FINNEY CD., THE
34 W. Interstate St., Bedford, Ohio (Tel. Bedford 2-6161)
Pres.-Purch.: L. H. Finneburgh
V. P.-Purch.: M. L. Finneburgh, Sr.
Gen. Sales Mgr.: M. L. Finney, Jr. M, TT

FIRESTDNE INDUSTRIAL PRDDCTS CO., DIV.- THE FIRESTDNE TIRE & RUBBER CD.
Noblesville 2, Ind. (Tel. PR 3-0650)
Purch. Agent: L. W. Irving
Buyer, Metals & Tools: H. T. Parson
Buyer, Machinery: C. Wyman
V. P.-Sales: R. J. Mitchell

FIRTH STERLING INC.
3113 Forbes, Pittsburgh 30, Pa. (Tel. MUseum 2-4600)
Purch. Agent: Harry K. Stern
Asst. Purch. Agent: George L. Miller
Gen. Sales Mgr., Carbine Div.: E. William Kolb
Gen. Sales Mgr., Steel Div.: Carl C. Krogh M

FISCHER & PORTER CO.
6 Warminster Rd., Warminster, Pa. (Tel. OSborne 5-6000)
Dir.-Purch.: Daniel Steelman
Sales Mgr.: Harold Russell

FISHER & CROME
109 N. Comac St., Philadelphia 70, Pa. (Tel. LOcust 4-5054)
Buyer: John C. Bucher
Sales Mgr.: Albert Crome M, G, CT

FISHER ENGRG. INC.
2060 U. S. 24 East, P. O. Box 327, Huntington, Ind. (Tel. 315)
Pres.: C. C. Fisher
Purch. Agent: W. S. Fisher MS

FISHER GOVERNDR CO.
Box 307, Marshalltown, Iowa (Tel. 5561)
Purch. Agent: A. M. Chord
Asst. Sales Mgr.: Bruce Price PS, MS

FISHER SCIENTIFIC CO.
711 Forbes Ave., Pittsburgh 22, Pa. (Tel. EXpress 1-1330)
Asst. to V. P.-Merchandising: D. A. Adams
Purch. Agent: E. A. Eyermon
Sales Mgr.: J. Cramer M, RD

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FISHER SCIENTIFIC CO., MARYLAND

7722 Woodbury Dr., Silver Spring, Md. (Tel. JUniper 7-7000)
 Purch. Agent: John P. Collohon

FISH-SCHURMAN CORP.

70 Portman Rd., New Rochelle, N. Y. (Tel. New Rochelle 6-1300)
 Purch. Agent: N. Roptoulis
 Pres.-Sales: Murray Fowitz M

FIVE STAR CO., THE

W. Main St., Plattsburgh, Conn. (Tel. Southington, Market 8-5561)
 Purch. Mgr.: J. E. Carlson
 Purch. Dept.: S. Nyberg & H. de Poivo
 V. P.-Sales: R. Pomignoni MS, G, CT

FLA. AIRCRAFT RADIO & MARINE

5365 N. W. 36th St., Miami Springs, Fla. (Tel. TU 8-4614)
 Pres.: Wm. C. Rogers
 Gen. Mgr.: H. A. Thomas
 Sales & Export Mgr.: Wayne Jeffries CT

FLEETWOOD LABS., INC.

300 Victory Blvd., New Rochelle, N. Y. (Tel. BEverly 5-0831)
 Pres.: W. B. Lurie CT

FLEXAUST CO., THE

100 Pork Ave., New York 17, N. Y. (Tel. DRegon 9-1300)
 Supt.-Purch.: J. H. Burbonk, Chestnut St., Amesbury, Mass. (Tel. 1396)
 Gen. Sales Mgr.: H. J. Johnson M

FLEXIBLE METAL HOSE MFG. CO.

777 W. 16th St., Costa Mesa, Calif. (Tel. Midway 6-4851)
 Pres.: Elton Hollett

FLEXIBLE TUBING CORP.

New Whitfield St., Guilford, Conn. (Tel. GLendale 3-2777)
 Purch. Agent: Robert F. Moran
 Asst. to Pres.: G. William Loveday MS, G, CT

FLEXONICS CORP.

1414 S. Third Ave., Maywood, Ill. (Tel. FIlmore 3-8000)
 Dir.-Purch.: R. Ferguson
 Mgr., Aeronautical Prod.: D. Ankeny
 V. P.-Mktg.: E. A. Molling

FLIGHT REFUELING, INC.

P. O. Box 1701, Baltimore 3, Md. (Tel. SOuthfield 6-5000)
 Treas.-Purch.: Albert Roeper
 Buyer: Lloyd Lilly, Jr.
 Asst. to Pres. & Dir.-Customer Rel.: Richard C. Dickinson PS, MS, CT, RD, HSE

FLIGHT RESEARCH, INC.

P. O. Box 1-F, Richmond 1, Va. (Tel. REpublic 7-4163)
 Purch. Agent: William J. Wymock, Jr.
 V. P.-Sales: John C. Pennock MS, CT, TT, RD

FLIGHT SUPPORT, INC.

159 Forrest St., Metuchen, N. J. (Tel. LIberty 9-3500)
 Purch. Agent: Herbert Hugo
 Sr. Buyer: Peter Rogers
 Sales Mgr.: Howard Kelly MS, CT, RD

FLIGHTEX FABRICS INC.

93 Worth St., New York 13, N. Y. (Tel. WOrth 6-3630)
 Exec. V. P.-Purch.: George P. Young
 V. P.-Sales: Arlene M. Pinkhom M

FLITE-TRONICS, INC.

3312 Burton Ave., Burbank, Calif. (Tel. VI 9-3376)
 Dir.-Purch.: Horry Shulman
 V. P.-Mktg.: J. Trevor Downer MS, CT

FLORIDA GEARS & SYSTEMS, INC.

16550 N. W. 10th Ave., Miami 64, Fla. (Tel. NAtional 4-3626)
 Purch. Agent: M. B. Woolf
 Pres.: Horry Frohman
 Chief Engr.: O. A. Johnson RD

FLOCK PROCESS CO. INC.

371 Main Ave., Norwalk, Conn. (Tel. VIctor 7-4586)
 Head-Purch. Dept.: R. J. Leff
 Head-Sales: H. A. Leff M

FLOW CORP.

85 Mystic St., Arlington 74, Mass. (Tel. MIssion 8-6740)
 Purch. Agent: Richard Mycko
 Sales Mgr.: Robert T. Pritchord CT

FLOW MEASUREMENTS CORP.

10506 Wheatley St., Kensington, Md. (Tel. LDckwood 4-0122)
 Purch. Agent: Robert L. Wotts
 Sales Mgr.: Don Purdue

FLOWLINE CORP.

P. D. Box 860, New Castle, Pa. (Tel. OLiver 4-5541)
 Mgr.-Purch.: A. F. Giesecke
 Purch. Agent: N. J. Simpson
 Sales Mgr.: Roger S. Brown, Jr. MS

FLUID POWER INC.

P. D. Box 162MR, Mecedonio, Ohio (Tel. IMperial 7-7141)
 Purch. Agent: E. R. Fenger
 Dir.-Sales: N. Fenger

FLUID REGULATORS CORP.

313 Gillette St., Painesville, Ohio (Tel. ELmwood 2-3319)
 Purch. Agent: Roy W. Honeywell
 Sales Mgr.: Ralph W. Barnes

FLUIDWICK CO.

5319 E. Outer Dr., Detroit 34, Mich. (Tel. DR 1-2920)
 Sales Mgr.: Edward Tonn M

JOHN FLUKE MFG. CO., INC.

P. D. Box 7161, Seattle 33, Wash. (Tel. PR 6-1171)
 Purch. Agent: Dusty Rhodes
 Sales Mgr.: John Zevenbergen CT

FLUOROCARBON CO., THE

1206 E. Ash Ave., Fullerton, Calif. (Tel. MA 6-9369)
 Purch. Agent: Frank Willey
 Sales Mgr.: Sandy Poteet
 Plant Supt.: Frank Highfield M, RD

FLUORO-CHEM CORP.

82 Burlews Ct., Hockensock, N. J. (Tel. DIamond 3-8703)
 V. P.-Purch.: Rex C. Connor
 Sales Mgr.: William Cossonos

FLUDRULON LABS., INC.

Box 305, Coldwell, N. J. (Tel. CA 6-8228)
 Pres.-Purch.: F. B. DuVoll
 Sales Mgr.: Max B. Dibeter PS, M

FLUSH WALL RADIO CO.

1012 Cleveland St., Clearwater, Fla. (Tel. 34-6061)
 Pres.: L. R. Schenck

FONDA GAGE CO., INC.

Box 1050, 200 Henry St., Stamford, Conn. (Tel. DA 4-5787)
 Office Mgr.: D. A. Romoniello
 Gen. Mgr.-Purch.: H. Wunsch
 Sales Mgr.: A. J. Erickson CT

FOOD MACHINERY & CHEMICAL CORP., CHEMICAL DIVISIONS

161 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-7400)
 Purch. Dir.-Chemical Divs.: J. A. Mooney PS, MS, M, RD

FOOD MACHINERY & CHEMICAL CORP., CHEMICAL & PLASTICS DIV.

161 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-7400)
 Mgr., Mktg. & Purch.: Bert S. Taylor M

FOOD MACHINERY & CHEMICAL CORP., DAPON DEPT.

161 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-7400)
 Dir.-Purch.: Bert S. Taylor
 Sales Mgr., Dapon Resin Dept.: J. L. Shofer
 Purch. Agent: C. W. Scully, Ohio-Apex Plant, Nitro, W. Va. (Tel. PLeasant 5-3351) M

FOOD MACHINERY & CHEMICAL CORP., EPOXY DEPT.

161 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-7400)
 Dir.-Purch.: J. A. Mooney
 Purch. Agent: R. E. Fillmore, Baltimore Plant (Tel. ELgin 5-6400)
 Tech. Dir.: F. P. Greenspan S, PS, M

FOOD MACHINERY & CHEMICAL CORP., MINERAL PRODUCTS DIV.

161 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-7400)
 Sales Mgr.: Raymond C. Tower
 Purch.: John E. Tomko, Corteret, N. J. Plant (Tel. Kimble 1-4171)
 Purch.: Kenneth Collicott, Lawrence, Kans. Plant (Tel. Viking 3-3880)
 Purch.: F. E. Couhops, Newark, N. J. Plant (Tel. Sycamore 3-1230) M

FOOD MACHINERY & CHEMICAL CORP., DRDNANCE DIV.

P. O. Box 367, 1105 Coleman Ave., San Jose, Calif. (Tel. CYpress 4-8124)
 Procurement Mgr.: H. L. Holl
 Purch. Agent: H. V. Rogers
 Asst. Purch. Agent: F. P. Gorenz
 Sales: J. J. MacRostie S, PS, MS, RD

FOOTE BROS. GEAR & MACHINE CORP.

4545 So. Western Blvd., Chicago 9, Ill. (Tel. Virginia 7-4200)
 V. P.: R. W. Johnson

FOOTE MINERAL CO.

18 W. Chelton Ave., Philadelphia 44, Pa. (Tel. VIctor 8-4000)
 Dir.-Purch.: W. M. Roynor
 Asst. Dir.-Purch.: W. J. Brooking
 Gen. Sales Mgr.: John Gotes M

FORBES, GEORGE F., INDUSTRIAL MATHEMATICIAN

13745 Eldridge Ave., Sylmar (San Fernando), Calif. (Tel. EMpire 7-1219) G, RD

FORBES & WAGNER, INC.

345 Central Ave., Silver Creek, N. Y. (Tel. YELlowstone 4-2691)
 Purch. Agent: R. L. Hollowood
 V. P.-Sales & Engrg.: John C. Pontius G, TT

M. A. FORD MFG. CO., INC.

1545 Rockingham St., Davenport, Iowa (Tel. 7-3251)
 Secy.: Stanley Hill
 Sales Mgr.: L. E. Schumann M

FORD INSTRUMENT CO., DIV.-SPERRY RAND CORP.

31-10 Thomson Ave., Long Island City 1, N. Y. (Tel. STILwell 4-9000)
 Purch. Agent: J. A. Prince
 Sr. Buyer, Subcontracts: R. Burkitt
 Sr. Buyer, General: E. Doffer
 Gen. Sales Mgr.: W. V. Worner MS, G, CT, TT, RD

FORD RADIO & MICA CORP.

536 63rd St., Brooklyn 20, N. Y. (Tel. GEdney 9-8300)
 Purch. Agent: Alon J. Long
 Sales Mgr.: Delos Moynard M

FOREDOM ELECTRIC CO., INC.

Bethel, Conn. (Tel. PLeazer 8-3521)
 Purch. Agent: Henry Holmes
 Sales Mgr.: Douglas E. Kellogg

FOREST ELECTRIC CO., THE

1001 N. 25th St., Melrose Park, Ill. (Tel. MUrray 1-0180)
 Dir.-Purch.: Louis Picchiatti
 Dir.-Sales: Charles F. King M

FORMICA CORP.

4614 Spring Grove Ave., Cincinnati 32, Ohio (Tel. KIrby 1-3670)
 Purch. Agent: L. Baumgartner
 Prod. Mgr.: F. H. Hamilton M

FORM-IT PRODUCTS, INC.

1619 W. Wolnut St., Chicago 12, Ill. (Tel. HAymarket 1-7337)
 V. P.-Purch.: E. S. Jimison

FORMSPRAG CO.

23601 Hoover Rd., Warren, Mich. (Tel. JEFFerson 6-9000)
 Purch. Agent: E. D. Mockie
 Buyer: R. F. Agnelly
 V. P.-Sales: Charles F. Tropp, Jr. M

FORSBERG MFG. CO., THE

125 Seaview Ave., Bridgeport 1, Conn. (Tel. EDison 4-9469)
 Purch. Agent: C. M. Toomey
 Plant Mgr.: John W. Nyström
 Sales Mgr.: H. S. Forsberg MS, RD, HSE

FORT WAYNE METALS, INC.

3211 MacArthur Dr., Ft. Wayne 6, Ind. (Tel. SHERwood 3181)
 V. P.-Purch.: Frank B. Didier
 Pres.: Ardelle Gloze

FOSTER WHEELER CORP.

666 Fifth Ave., New York 19, N. Y. (Tel. JUdson 2-6600) MS

FOSTORIA CORP., INFRA-RED DIV.

1200 N. Main St., Fostoria, Ohio (Tel. HEMlock 5-7721)
 Purch. Agent: R. L. Hill
 Sales Mgr.: D. E. Krolovec

FOTO-VIDEO LABS., INC.

36 Commerce Rd., Cedar Grove, N. J. (Tel. CENter 9-6100)
 Purch. Agent: W. Hums

Controller: John Saldovini	RD	Hadden S. Pierce		GALLAND-HENNING MFG. CO., NOPAK DIV.	
FUUCH ELECTRIC MFG. CO., INC.		Div. Mgr., Tooling, Coatings, Structures: William S. Whyte	M	2753 S. 31st St., Milwaukee 46, Wisc. (Tel. Mitchell 5-6000)	
900 N. Stanton St., P. O. Box 3978, Portland 8, Ore. (Tel. AT 8-5566)		FURNAS ELECTRIC CO.		Sales Mgr.: R. W. Peterman	
Purch. Agent: W. E. Reynolds		1000 McKee St., Batavia, Ill. (Tel. TR 9-3410)		Purch. Agent: R. B. Gruetmer	MS
Plant Engr.: O. E. Holcomb		Purch. Agent: C. R. Mead		Dir.-Purch.: Ray F. Gruetmer	
Pres.: E. M. Fouch, Jr.		V. P.-Sales & Engrg.: W. F. Lisman	M		
Sales Mgr.: H. M. Sidwell	M	FUSIDN ENGRG.		GAMEWELL CO., THE	
FOURSDOME MFG. CO., INC.		17921 Roseland, Cleveland 12, Ohio (Tel. IVanhoe 6-2333)		1238 Chestnut St., Newton Upper Falls, Mass. (Tel. Blgelow 4-1240)	
79 Farmington Ave., Bristol, Conn. (Tel. LU 2-7461)		Purch. Agent: W. R. Johns		Purch. Agent: E. O'Halloran	
Pres.: Charles G. Monroe, Jr.		Sales Mgr.: B. R. Williams	M	Sales Mgr., Potentiometer Div.: C. J. Manning	M, CT, TT, RD
FOXBORO CO., THE		FUSITE CORP.		GAP INSTRUMENT CORP.	
38 Neponset Ave., Foxboro, Mass. (Tel. Kingswood 3-5311)		6000 Fernview Ave., Cincinnati 13, O. (Tel. REDwood 1-2020)		116 E. Merrick Rd., Freeport, N. Y. (Tel. FR 8-1040)	
Purch. Agent: Ralph Hayden		Purch. Agent: J. Fax		V. P.-Purch.: G. M. Tracy	
Gen. Sales Mgr.: H. O. Ehrisman	CT	Asst. Purch. Agent: Oon Makin		Pres.: A. S. Gaadrich	MS, CT, RD
FRAM CORP.		V. P.-Sales: J. H. Marsh, Jr.		GARDE MFG. CO.	
105 Pawtucket Ave., Providence 16, R. I. (Tel. GENEva 4-7000)		FUTURECRAFT CORP.		53 John St., Cumberland, R. I. (Tel. PAwrucket 6-4200)	
Dir.-Purch.: H. Keough		1717 N. Chica Ave., El Monte, Calif. (Tel. CUMberland 3-2113)		Purch. Agent: Charles H. O'Kaamian	
V. P.-Sales: H. R. Robinson		Purch. Agent: Wesley Janes		Pres.: A. C. Oemurjian	
Mgr., Aviation Div.: John J. McKee	PS, MS, RD	Buyer: Claude Knight		GARDEN CITY FAN & BLDWER CO.	
FRANKE GEAR WORKS, INC.		Prod. Control: Roy Curtis		801 N. Eighth St., Niles, Mich. (MUtual 3-1150)	
4401 Ravenswood Ave., Chicago 40, Ill. (Tel. LOngbeach 1-0950)		Supt.: Aage Hansen		Purch. Agent: W. T. Sims	
Dir.-Purch.: Robert H. Bayer		Chief Test Engr.: Richard Fewell		V. P.-Engrg.: R. H. Freeval	
Gen. Mgr.: Arthur Mackmann		Sales Mgr.: Robert Burke		Sales Engr.: E. E. Folkers	
Pres.: Carl T. Franke	MS, G, CT, TT	FYR-FYTER CO., THE		Pres.: G. E. Bauer	
FRANKLIN ELECTRONICS INC.		221 Crane St., Dayton 1, Ohio (Tel. BALdwin 2-3751)		GARDNER ELECTRONICS	
East Fourth St., Bridgeport, Pa. (Tel. BRoadway 2-4800)		Purch. Agent: T. T. Coble		2545 E. Indian Schaal, Phoenix, Ariz. (Tel. CR 4-9681)	
Purch. Agent: H. H. OUVinage		Dir.-Mktg.: A. C. Troutwein	S, MS, CT	R. F. Gardiner	
Gen. Mgr.: William C. Quonce	CT	GAR PRECISION PARTS, INC.		GARDNER-DENVER CO.	
Pres.: Philip Sharples		190 Henry St., Stamford, Conn. (Tel. FI 8-2671)		Front St., Quincy, Ill. (Tel. BALdwin 2-5400)	
FRANKLIN FIBRE-LAMITEX CORP.		Purch. Agent: J. Bemhard		Dir.-Purch.: E. E. Groves	
E. 18th St.-on P.R.R. Siding, Wilmington, Oel. (Tel. OL 8-5269)		GAR PRODUCTS CORP.		Gen. Sales Mgr.: G. W. Gutekunst	M
Purch.: A. R. Campbell		71 Park St., Beverly, Mass. (Tel. WA 2-1626)		GARDNER LABORATORY, INC.	
FREBANK CO.		Purch. Agent: Jerome B. Bates		P. O. Box 5728, Bethesda 14, Md. (Tel. OL 6-3600)	
711 W. Broadway, Glendale 4, Calif. (Tel. CHapman 5-6558)		Asst. Purch. Agent: Charles K. Brawn		Purch. Agent: W. J. Fumage	
Purch. Agent: R. L. Harris		Dir.-Sales: Arthur O. Srone	M	V. P.-Sales: Henry A. Gardner	RD
Sales Mgr.: J. G. Tillery	PS, MS, CT, RD	G-C ELECTRONICS CO., DIV.-TEXTRON INC.		GARLOCK PACKING CO.	
FREED TRANSFORMER CO., INC.		400 S. Wymon St., Rockford, Ill. (Tel. WOadland 8-9661)		402 Main St., Palmyra, N. Y. (Tel. LYric 7-4811)	
1718 Weirfield St., Brooklyn 27, N. Y. (Tel. EVergreen 6-1300)		Purch. Agent: George Kampmeier		Mgr., Purch. Div.: A. O. Troutman	
Purch. Agent: G. Lesser		Buyers: Stanley Anderson & Oenald Bogdanos		Vr. Buyer: L. B. Black	
Sales Mgr.: M. Salzberg	G, TT	Dir.-Sales: Edward J. Noretta	M, RD	V. P.-Mktg.: J. B. Sewell	PS, M
FREEMAN CO., THE		G-L ELECTRDNCS CO., INC.		GARLOCK PACKING CO., THE, ELECTRDNIC PRODUCTS	
8th & Walnut Sts., Yankton, S. Oak. (Tel. NArth 5-2829)		2921 Admiral Wilson Blvd., Comden 5, N. J. (Tel. WOODlawn 6-2780)		600 N. 10th St., Camden 1, N. J. (Tel. WO 4-2212)	
Purch.: E. W. Freeman	M	Purch. Agent: Frank E. Meller		Purch. Agent: W. Cowan	
FRENCHTOWN PORCELAIN CO.		Dir.-Sales: Stephen G. Lox		Asst. Purch. Agent: M. Lickfield	
Harrison & 8th Sts., Frenchtown, N. J. (Tel. 480)		G-M LABS. INC.		Mgr., Elec. Prods. Sales: F. O. Outton	M, RD
Purch. Agent: Wilson Anderson		4300 N. Knox Ave., Chicago 34, Ill. (Tel. PEnsocola 6-1800)		GEORGE K. GARRETT CO., INC.	
Sales Mgr.: William E. Glosby	M, G, TT, RD	Purch. Agent: Irving M. Temen		Torresdale Ave. at Tolbut St., Philadelphia 36, Pa. (Tel. OEvanshire 2-6000)	
FRIEZ INSTRUMENT DIV., BENDIX AVIATION CGRP.		Sales Mgr., Components Div.: A. G. Bradt		Purch. Agent: Joseph Armstrong	
1400 Taylor Ave., Baltimore 4, Md. (Tel. VAIlley 3-4040)		GPL DIV., GENERAL PRECISION, INC.		Sales Mgr.: Walter G. Johnson	
Purch. Agent: H. J. Grady		63 Bedford Rd., Pleasantville, N. Y. (Tel. ROgers 9-5000)		Govt. Sales Mgr.: Jules Freedman	S
Gen. Sales Mgr.: R. B. Stevenson	MS, RD	Dir.-Purch.: A. C. Schreiber		GARRETT CORP., THE, AIR CRUISERS DIV.	
FRICK CO.		Asst. Dir.-Purch.: C. Adler		Rt. 34, Wall Township, N. J.; P. O. Box 180, Belmor, N. J. (Tel. MUHal 1-3527)	
W. Main St., Waynesboro, Pa. (Tel. 1245)		Gen. Purch.: C. Goodwin		Purch. Agent: W. Howard Trowbridge	
Purch. Agent: John H. Reeve, Jr.		V. P.-Sales & Engrg.: W. J. Tull	G, RD	Div. Mgr.: Walter L. Clark	
Asst. Purch. Agent: Paul E. Oeavor		G-V CONTROLS INC.		Mgr., Contract Admin.: Earl E. Dix	
Sales Mgr., Air Cond. & Refrig. Div.: John T. Sanders, III	RD	Okner Pkwy., Livingston, N. J. (Tel. WYman 2-6200)		GARWIN, INC.	
FRUEHAUF TRAILER CO., MILITARY EQUIPMENT DIV.		Buyer: Richard Maloney		1326 S. Walnut St., Wichita 13, Kans. (Tel. HO 4-4621)	
10940 Harper Ave., Oestroit 32, Mich. (Tel. WA 1-2410)		Production Mgr.: Roy Weckstein		Purch. Agent: R. E. Eberle	
Dir.-Purch.: Bruce M. Kirsten		GABRIEL CO., THE, GABRIEL ELECTRONICS DIV.		Buyer: S. Janes	
Purch. Agent: H. E. Vermillion		Main & Pleasant Sts., Millis, Mass. (Tel. FRantier 6-2953)		Sales Mgr.: Roy Thompson	MS, G, CT
Purch.: Robert Liggert, Oelphas, O. (Tel. 2-6015)		Purch. Agent: Charles Nolan		GARWOOD INDUSTRIES INC.	
Dir.-Military Equip.: E. R. Neumann	S, MS, RD	Dir.-Sales: John B. Hamre		Wayne, Mich. (Tel. PA 1-6300)	
FUGLE-MILLER LABS. INC.		Pres. & Gen. Mgr.: Stanton L. Yarbrough	MS, TT, RD	Dir.-Purch.: W. A. Glimm	
301 Central Ave., Clark, N. J. (Tel. FUlton 1-2727)		GABRIEL CO., ROCKET POWER/TALCO		Purch. Agents: W. S. Kaphart & W. H. Little	
Purch. Agent: F. L. Fugle, Jr.		Box 847, Falcon Field, Mesa, Ariz. (Tel. WOODland 4-1711)		Dir.-Sales: O. J. Oavis	MS
Sales Mgr.: Conrad Miller	TT	Purch. Agent: John Burger		GAS ATMOSPHERES INC.	
FULLER CO.		V. P.-Planning & Mktg.: A. L. Pittinger	PS, MS, RD	20011 Lake Rd., Cleveland 16, Ohio (Tel. EOison 1-7070)	
124 Bridge St., Catasauqua, Pa. (Tel. COngress 4-2841)		GAERTNER SCIENTIFIC CGRP., THE			
Purch. Agent: J. A. Nork		1262 Wrightwood Ave., Chicago 14, Ill. (Tel. BUckingham 1-5335)			
Sales Mgr.: C. C. Kaesemeyer	MS	Purch. Agent: L. V. Masbarger			
FURANE PLASTICS INC.		Sales Mgr.: Lyman W. Higgins	CT		
4516 Brazil St., Los Angeles 39, Calif. (Tel. CHapman 5-1151)		GAHAGAN INC.			
Purch. Agent: J. Allan		Waterson Ave., Esmond 17, R. I. (Tel. CEnterdale 1-4000)			
Div. Mgr., Electrical, Adhesives, Bldg. Trades:		Purch. Agent: E. Johnson			
		Sales: E. S. Holland	M, RD		

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- Purch. Agent:** L. E. Highley
Chief Engr.: W. A. Marquardt
Sales Mgr.: Max H. Priddy
- GASKET MFG. CO. INC.**
319 W. 17th St., Los Angeles 15, Calif. (Tel. Richmond 9-4063)
Purch.: C. Lane
Sales: D. W. Goodin
- GATES ELECTRONIC CO.**
1705 Taylor Ave., Bronx 60, N. Y. (Tel. TYrone 2-6490)
Chief Engr.: Stanley Lander
Purch.: J. Phillips
Sales Engr.: E. R. Regen
- GATES RADIO CO.**
123 Hampshire St., Quincy, Ill. (Tel. BALdwin 2-8202)
Purch. Agent: John Bowers
Sales Mgr.: L. J. Cervone
- GATES RUBBER CO., THE**
999 S. Broadway, Denver 17, Colo. (Tel. SHERman 4-9111)
Purch. Dir.: Thomas Paterson
Exec. V. P.-Mktg.: C. H. Mingle
Indsl. Sales Mgr.: Mark Gilkison
- GATEWOOD PRODUCTS, INC.**
P. O. Box 1095, 420 East St., Parkersburg, W. Va. (Tel. HU 5-4406)
Secy.-Treas.: Eric Lehman
Purch. Dept.: James T. Metheny & Betty James
V. P.-Sales: E. R. Gateman
- GEAR SPECIALTIES, INC.**
2635 W. Medill Ave., Chicago 47, Ill. (Tel. DICKens 2-3200)
Purch. Agent: F. E. Wampach
V. P.-Sales: W. C. Kozak
- GEMEX CORP., THE INDUSTRIAL DIV.**
1200 Commerce Ave., Union, N. J. (Tel. MURdock 6-4100)
Dir.-Operations: E. L. Ackley
- GENERAL ALLOYS CO.**
367-405 W. First St., Boston, Mass. (Tel. ANDrew 8-1710)
Purch. Agent: John Barnes
Asst. Sales Mgr.: Allyn S. Crawford
V. P.-Sales Mgr.: Thomas E. Franks
- GENERAL AMERICAN TRANSPORTATION CORP.**
135 S. LaSalle St., Chicago 3, Ill. (Tel. FINancial 6-4100)
Dir.-Purch.: C. Ingraham
Asst. Dir.-Purch.: W. Graham
- GENERAL ANILINE & FILM CORP., ANSCO DIV.**
Vestal Pkwy., E., Binghamton, N. Y. (Tel. RAYmond 9-6555)
Purch. Agent: W. J. Thomas
Mechanical Buyer: J. D. Taylor
Mgr., Special Contracts: T. R. Griffith
- GENERAL ASTRONAUTICS CORP.**
P. O. Box 6285, Washington 15, D. C. (Tel. STerling 3-3453)
Pres.: Frederick I. Ordway, III
V. P.: Ronald C. Wakeford
Treas.: Roswell B. Wing
- GENERAL AUTOMATIC CORP.**
111 33rd St., Union City, N. J. (Tel. UNion 4-1867)
Dir.-Sales: Mort D. Barron
- GENERAL BOX CO.**
1825 Miner St., Des Plaines, Ill. (Tel. VANDerbilt 4-4181)
- GENERAL BRDNZE ELECTRONICS CORP.**
Hook Creek Blvd., Valley Stream, N. Y. (Tel. LD 1-8300)
Purch. Agent: Warren Cook
Buyers: W. Kennedy & R. Potter
Dir.-Sales: M. Jungman
- GENERAL CABLE CORP.**
730 Third Ave., New York 17, N. Y. (Tel. YUKon 6-3800)
V. P.-Purch.: E. B. McGrew
V. P.-Sales: H. G. Richardson
- GENERAL CERAMICS DIV., INDIANA GENERAL CORP.**
Keasbey, N. J. (Tel. VALley 6-5100)
Purch. Agent: E. R. Parsells
V. P.-Sales: John P. Manley
- GENERAL COIL PRODUCTS CORP.**
147-12 Liberty Ave., Jamaica 35, N. Y. (Tel. AXtel 1-8390)
Pres.: J. F. Siegel
- GENERAL COMMUNICATION CO.**
677 Beacon St., Boston 15, Mass. (Tel. COpley 7-6030)
Purch. Agent: J. M. Orsillo
Buyers: B. E. Johnston & D. A. Colignon
Sales Mgr.: Clinton E. Roche
- GENERAL COMPONENTS INC.**
225 E. 144th St., New York 51, N. Y. (Tel. MDthaven 5-0740)
Purch.: Michael Meola
Chief Engr.: Sal De Ianni
Sales Mgr.: Henry Meola
- GENERAL CONTROLS CO.**
801 Allen Ave., Glendale 1, Calif. (Victoria 9-2181)
Mgr., Purch.: M. J. Kouf
V. P.-Sales: John F. Ray
- GENERAL DEVICES, INC.**
P. O. Box 253, Princeton, N. J. (Tel. DAVIS 9-2323)
Purch. Agent: J. B. Schmidt
Asst. Purch. Agent: V. Sawyer
Buyer: R. Torgeson
Sales Mgr.: J. L. Malony
- GENERAL ELECTRIC CO.**
6901 Elmwood Ave., Philadelphia 42, Pa. (Tel. SARatoga 9-4200)
Purch. Agent: R. D. Bowman
Buyer, Mech. Components: E. F. Finley
Buyer, Elec. Components: J. J. Donoghue
Sales Mgr., C.A.M.P.S.: J. R. Topper
- GENERAL ELECTRIC CO., APPARATUS SALES DIV.**
1 River Rd., Schenectady 5, N. Y. (Tel. FRanklin 4-2211)
- GENERAL ELECTRIC CO., ARMAMENT & CONTROL SECTION, LIGHT MIL. ELECTRONICS DEPT.**
600 Main St., Johnson City, N. Y. (Tel. RA 9-2511)
Mgr., Materials: W. H. Bobear
Mgr., A & C Sections: M. R. Johnson
Mgr., Engrg.: D. E. Gorr
Mgr., Mktg.: G. R. Harris
Mgr., Mfg.: F. B. Law
- GENERAL ELECTRIC CO., CATHODE RAY TUBE DEPT.**
Electronics Park, Syracuse, N. Y. (Tel. GR 6-4411)
Purch. Agent: D. R. Coffman
Sales Mgr.: R. E. McBride
- GENERAL ELECTRIC CO., COMPUTER DEPT.**
13430 N. Black Canyon Hwy., Box 270, Phoenix, Ariz. (Tel. WI 3-2351)
Purch. Agent: G. H. Gurler
Purch. Specialists: S. P. Brown, L. L. Kelly & J. D. Durtz
Mgr., Mktg.: G. A. Hagerly
Mgr., Sales: L. R. Sheeley
- GENERAL ELECTRIC CO., DEFENSE SYSTEMS DEPT.**
300 S. Geddes St., Syracuse, N. Y. (Tel. GRANite 6-4411)
Purch. Agent: J. M. Parmelee
Sr. Buyer: C. F. Moore
Subcontracts Admin.: G. P. Dittmar
Subcontracts Admin.: J. E. Gaitley
Mgr., Mktg. Operations: Warner R. Sinback
- GENERAL ELECTRIC CO., HEAVY MILITARY ELECTRONICS DEPT.**
Court St., Syracuse, N. Y. (Tel. GRANite 6-4411)
Purch. Agent: R. H. Pickett
Mgr., Mktg.: R. J. Brown
- GENERAL ELECTRIC CO., INSTRUMENT DEPT.**
40 Federal St., Lynn, Mass. (Tel. LY 3-3400)
Purch. Mgr.: H. A. Hamilton
Mgr., Aircraft Instr. Sales: H. E. Brown
- GENERAL ELECTRIC CO., INSULATOR DEPT.**
S. Charles & Cromwell Sts., Baltimore, Md. (Tel. PLaza 2-8020)
Mgr.-Materials: K. W. Ashman
Buyers: R. J. Mytke & E. H. Rickels
Mgr., Mktg.: C. B. Vaughn
- GENERAL ELECTRIC CO., LAMP GLASS DEPT.**
Nela Park, Cleveland, Ohio (Tel. IVanhoe 6-3000)
Mktg. Mgr.: W. R. Becker
- GENERAL ELECTRIC CO., LAMP METALS & COMPONENTS DEPT.**
21800 Tungsten Rd., Cleveland 17, Ohio (Tel. KEnmore 1-5050)
Purch. Mgr.: F. P. Nemeck, Nela Park 12, O. (Tel. GLenville 1-6600)
Mktg. Mgr.: A. MacKenzie
- GENERAL ELECTRIC CO., LIGHT MILITARY ELECTRONICS DEPT.**
French Rd., Utica, N. Y. (Tel. SW 7-1000)
Mgr., Materials: E. P. Heinemann
Purch. Agent: I. C. Andrews
Mgr., Mktg.: C. D. Brown
Mgr., Sales: W. A. Kinnaman
- GENERAL ELECTRIC CO. LTD. OF ENGLAND**
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Sales Mgr.: Sy Bosworth
- GENERAL ELECTRIC CO., METALLURGICAL PRODUCTS DEPT.**
11177 E. 8 Mile Rd., Detroit 32, Mich. (Tel. JEFFerson 6-9100)
Purch. Mgr.: H. Miller
Purch.-Specialty Alloy Mfg.: G. Hemmeter
Mgr.-Sales, Specialty Alloys: J. Stevenson
- GENERAL ELECTRIC CO., MISSILE & SPACE VEHICLE DEPT.**
Lakeside Ave., Burlington, Vt. (Tel. UNiversity 3-3411)
Mgr.-Materials: G. W. Curry
Purch. Agent: J. H. Drury
Mktg. Mgr.: R. G. Loecher
- GENERAL ELECTRIC CO., MISSILE & SPACE VEHICLE DEPT. (PA.)**
3198 Chestnut St., Philadelphia 4, Pa. (Tel. EVERgreen 2-7800)
Purch. Mgr.: J. P. Benzie
Mgr., Sub-contracting: K. N. Thompson
Mgr.-Mktg.: D. T. Atkinson
- GENERAL ELECTRIC CO., ORDNANCE DEPT.**
100 Plostatic Ave., Pittsfield, Mass. (Tel. HI 3-3561)
Mgr., Materials: J. V. Terhune
Purch. Mgr., Palaris Guidance: R. J. Michaud
Purch. Mgr., Palaris Program: E. R. Lee
Mgr., Advance Projects & Mktg.: R. C. Berendsen
- GENERAL ELECTRIC CO., ROCKET ENGINE SECTION**
Lockland Hwy., Evendale Plant, Cincinnati 15, Ohio (Tel. PO 1-4100)
Mgr., Mfg.: R. H. Wettsch
Mgr., Materials: L. A. Wuenschel
Mgr., Mktg.: G. G. Cudhea
- GENERAL ELECTRIC CO., TECHNICAL PRODUCTS OPERATION**
Communication Products Dept., Electronics Park, Bldg. #7, Syracuse, N. Y. (Tel. GRANite 6-4411)
Purch. Agent: F. M. Brown
Mgr., Market Dev.: C. J. Simon
- GENERAL ELECTRIC CO., WIRE & CABLE DEPT.**
1285 Boston Ave., Bridgeport 2, Conn. (Tel. EDISON 4-1012)
Purch. Agent: J. A. Hevern
Buyers: D. F. Cummings & W. F. Major
Mgr., Mktg.: J. S. Overstreet
Mgr., Mfg.: E. A. Reiss
- GENERAL ELECTRIC CO., X-RAY DEPT.**
4855 Electric Ave., Milwaukee 1, Wisc. (Tel. EVERgreen 3-3211)
Mgr.-Materials: S. D. Hayward
Mgr.-Indsl. Sales: J. W. Webster
- GENERAL ELECTRODYNAMICS CORP.**
4430 Forest Lane, Garland, Texas (Tel. BRoadway 6-1161)
Purch. Agent: William Lawson
Exec. V. P.: Francis J. Salgo
Mgr., Electronic Equip. Div.: B. W. Griffith, Jr.
Mgr., Electronic Tube Div.: Heman Alberferne, Jr.
- GENERAL ELECTRO-MECHANICAL CORP.**
785 Hertel Ave., Buffalo 7, N. Y. (Tel. BE 9685)
Purch. Agent: E. Kurtz
Sales Mgr.: J. A. Randolph
- GENERAL FILTERS, INC.**
43800 Grand River Ave., Novi, Mich. (Tel. Fieldbrook 9-2481)
V. P.-Purch.: Roland A. Redner
Pres.: Mrs. Grace Redner
V. P.-Res. Engrg.: Robert P. Redner
- GENERAL FINDINGS & SUPPLY CO., INDUSTRIAL DIV.**
School St., Attleboro, Mass. (Tel. ATT 1-1155)

Purch. Agent: Thomas Ireland
Gen. Mgr.: G. F. Tucci

GENERAL FIRE EXTINGUISHER CORP., THE
8740 Washington Blvd., Culver City, Calif. (Tel. Upton 0-6644)
Purch. Agent: T. L. Windsor
V. P.-Sales: E. K. Paine
Asst. Sales Mgr.: J. J. Ray

GENERAL GASKET INC.
Middletown, Conn. (Tel. Diamond 6-6203)
V. P.-Purch.: E. London
V. P.-Sales: D. London M

GENERAL INDUSTRIES CO., THE
Olive & Taylor Sts., Elyria, Ohio (Tel. FAirfax 3-3136)
Purch. Agent: C. W. Heidrich
Asst. Purch. Agents: L. D. Acheson & Del Roig
Sales Mgr.: AC Motors: F. N. McGlynn CT, RD

GENERAL INSTRUMENT CORP., DEFENSE & ENGRG. PRODUCTS GROUP
Field Office: 81 N. 4th St., Brooklyn 11, N. Y. (Tel. EVergreen 8-6000); 65 Gouverneur St., Newark 4, N. J. (Tel. HUmboldt 5-2100)
Purch. Agents: Robert Dalzell & Maurice Markowitz
Asst. to Corporate V. P.-Mktg.: S. D. Gurian
Dir.-Purch. & Subcontracting: J. A. Heimbruch (Tel. HUmboldt 5-2100) G, CT, TT, RD

GENERAL INSTRUMENT CORP., SEMICONDUCTOR DIV.
65 Gouverneur St., Newark 4, N. J. (Tel. HUmboldt 5-2100)
Purch. Agent: M. Dstoszewski
Sales Mgr.: J. Tucker M

GENERAL INSULATED WIRE WORKS, DIV.-GENERAL CABLE
Box F1746, Providence 5, R. I. (Tel. HDpkins 1-2100)
Purch. Agent: M. Fargnoli
Sales Mgr.: C. J. Craig, Jr. M

GENERAL KINETICS, INC.
555 23rd St., S., Arlington 2, Va. (Tel. DTis 4-7555)
Purch. Agent: S. P. Vanderslice
V. P.-Sales: W. L. Anderson RD

GENERAL LABORATORY ASSOCIATES, INC.
17 E. Railroad St., Norwich, N. Y. (Tel. 4-3264)
Purch. Agent: Harold H. Horton
Dir.-Sales & Service: L. A. DeMellier
Sales Mgr.: Dgden M. Hamilton S, PS, MS, RD

GENERAL MAGNETIC CORP.
10001 Erwin Ave., Detroit 34, Mich. (Tel. WA 1-7558)
Purch. Agent: Clarence Hardoin
Chief Engr.: J. R. Hoven
Application Engr.: R. H. Campbell
V. P.-Sales: W. E. Gilman M

GENERAL MAGNETICS, INC.
135 Bloomfield Ave., Bloomfield, N. J. (Tel. PIlgrim 8-2400)
V. P.-Sales: M. G. Tekosky
Secy.-Treas.: Ralph W. Froese MS, G

GENERAL METAL PRODUCTS CO.
Centre & Glendale Sts., Easton, Pa. (Tel. BLackburn 8-9122)
Purch. Agent: R. Schwartz
Sales Mgr.: G. J. Hepp CT, TT

GENERAL MILLS, INC.
1620 Central Ave., N. E., Minneapolis 13, Minn. (Tel. STerling 9-8811)
Mgr., Purch.: A. E. Wickman
Purch. Agents: E. F. Wojciak & W. Thurston
Dir.-Mktg.: R. J. Wright MS, G, CT, RD

GENERAL PLASTICS CORP.
165 3rd Ave., Paterson, N. J. (Tel. ARmory 4-4710)
Purch. Agent: H. Borto
Sales: E. W. Davidson M, RD

GENERAL PRECISION, INC.
92 Gold St., New York 38, N. Y. (Tel. BEekman 3-4170)
Sales Coordinator: Andrew Georgia MS, G, CT, RD, HSE

GENERAL PRECISION, INC., LINK DIV.
Binghamton, N. Y. (Tel. RAYmond 3-9311)
Purch. Agent: Marshall B. Bird

GENERAL PRECISION LAB. INC.
63 Bedford Rd., Pleasantville, N. Y. (Tel. ROgers 9-5000)
Dir.-Purch.: A. C. Schreiber
V. P.-Avionic Sales: W. J. Tull
V. P.-Ind. Sales: B. Foulds

GENERAL PRODUCTS CORP.
Salem St., Union Springs, N. Y. (Tel. 7-7367)
Purch. Agent: D. L. Webb
Sales Mgr.: C. Howard Leaf G, CT

GENERAL RADIO CO.
22 Baker Ave., West Concord, Mass. (Tel. EMerson 9-4400)
Purch. Mgr.: Colby E. Kelly
Sales Mgr.: William R. Saylor MS, CT

GENERAL REGULATOR CORP.
666 Fifth Ave., New York 19, N. Y. (Tel. JUdson 2-6600) CT

GENERAL R-F FITTINGS, INC.
702 Beacon St., Boston, Mass. (Tel. KENmore 6-2290)
Purch. Agent: George James
Office Sales Mgr.: Bryno Cohen

GENERAL SCIENTIFIC EQUIPMENT CO.
Limekiln Pike & Williams Ave., Philadelphia 50, Pa. (Tel. HANcock 4-1550)
Purch. Agent: J. Q. Kline
Head-Sales: M. Kline

GENERAL TESTING LABS., INC.
58 Washington Ave., Carlstadt, N. J. (WEbster 9-6933)
Dir.-Purch.: D. A. Hill
Sales Engr.: A. N. Purdy CT

GENERAL TIRE & RUBBER CO., THE, INDUSTRIAL PRODUCTS DIV.
1218 Garfield, Wabash, Ind. (Tel. 1440)
Purch. Agent: R. W. Flack
Dir.-Sales: Howard C. Sommer M

GENERAL TRANSISTOR CORP.
91-27 138th Pl., Jamaica 35, N. Y. (Tel. Hlckory 1-1000)
Purch. Agent: John Grillo M

GENERAL VACUUM CORP.
400 Border St., E. Boston 28, Mass. (Tel. LDgan 7-8800)
Purch. Agent: D. J. Tobin
Dir.-Sales: W. G. Dveracker M, RD, HSE

GENISCO, INC.
2233 Federal Ave., Los Angeles 64, Calif. (Tel. BRadshaw 2-2706)
Purch. Agent: G. F. Coyle
Mktg. Mgr.: J. Kimble MS, G, CT, RD

GENISCO INC., INSTRUMENT DIV.
2233 Federal Ave., Los Angeles 64, Calif. (Tel. BRadshaw 2-2706)
Purch. Agent: Gerry Coyle
Sales Mgr.: W. J. Barmore MS, G, CT

GENISTRON, INC.
6320 W. Arizona Circle, Los Angeles 45, Calif. (Tel. DRegon 8-9094)
Purch. Agent: John Brunskill
Pres.: Fred J. Nichols
V. P.'s: Paul M. Kueffler & John F. Harrison MS, M, CT

GENTAPE CORP., DIV.-GENERAL PLASTICS CORP.
165 Third Ave., Paterson 4, N. J. (Tel. ARmory 4-4710)
Sales Mgr.: Paul R. Farley MS, G, CT

GENTEX CORP.
450 Seventh Ave., New York 1, N. Y. (Tel. CHickering 4-6400)
Purch. Agent: Robert McLaughlin, Corbondale, Pa. (Tel. CARbondale 1840) M, RD

GEORATOR CORP.
315 Tudor St., Manassas, Va. (Tel. EMpire 8-2101)
Pres.: Shelley Krasnow
Purch. Agent: Worth Hotch MS, M, CT

GERBET HAIRSPRING CO.
Bridge St., Thomaston, Conn. (Tel. ATlas 3-4857)
Partner: Jack Weiss

PAUL E. GERST & CO.
4868 N. Clark St., Chicago 40, Ill. (Tel. LD 1-5897)
V. P.-Purch.: Robert D. Grah
Purch. Dept.: Daniel T. Ballard & Casimer Wiecek
V. P.-Engrg.: Paul R. Gerst MS, RD

***GIANNINI CONTROLS CORP.**
1600 S. Mountain Ave., Duarte, Calif. (Tel. ELIott 9-9141)
Pres.: Donald H. Putnam
V. P. & Sales Mgr.: D. R. Gero
V. P. & Dir.-Engrg.: T. J. Harriman
(See advertisement this issue)

GIANNINI PLASMADYNE CORP.
3639 S. Main St., Santa Ana, Calif. (Tel. KImberly 5-7171)
Head Buyer: Murray Sturmer
Dir.-Sales: R. D. Webb

GIBSON ELECTRIC CO.
Box 559, Delmont, Pa. (Tel. HDward 8-7701)
Purch. Agent: Raymond C. Hennegan
Buyer & Asst. Purch. Agent: Miss Addie Glaub
Sales Mgr.: Frederick R. Famham M

FRED S. GICHNER IRON WORKS, INC.
1214 24th St., N. W., Washington 7, D. C. (Tel. FE 3-6500)
Dir.-Purch.: Albert V. Wade
Purch. Agent: Wayne M. Edge
Pres.: Henry Gichner MS

GIDDINGS & LEWIS MACHINE TOOL CO.
142 Doty St., Fond du Lac, Wis. (Tel. WA 1-9400)
Purch. Agent: Harry A. Stangby
Gen. Sales Mgr.: George K. Cassidy S, PS

GIDEON & RAMEY MFG. CO.
585 Venice Blvd., Venice, Calif. (Tel. UP 0-4659)
V. P.-Purch.: J. McMurdo
Sales Mgr.: W. F. Downs

GIFFELS & ROSSETTI
1000 Marquette Bldg., Detroit 26, Mich. (Tel. WO 1-2084)
Pres.: R. F. Giffels
Proj. Dir.: N. K. Van Dsdal, Jr.
Chief, Contracts Dept.: R. H. Steketee
Dir.-Development: M. M. Bush S, MS, RD

GILFILLAN BROS. INC.
1815 Venice Blvd., Los Angeles, Calif. (Tel. DUmkirk 1-3441)
Purch. Agent: John L. Forrest
Asst. Purch. Agent, Electrical Parts: George Steil
Asst. Purch. Agent, Outside Production-Machined Parts: William Chew
Asst. Purch. Agent, Outside Production-Sheet Metal: Joseph Copeland
V. P.-Sales: A. Jennings Brown MS, G, CT, TT, RD

DUNCAN M. GILLIES CO. INC.
66 Central, West Boylston, Mass. (Tel. TEmple 5-4445)
Pres.: Duncan M. Gillies G, TT

MARTY GILMAN, INC.
Gilman, Conn. (Tel. TUrner 9-7334)
Pres.: Martin J. Gilman M, RD

GILMORE INDUSTRIES, INC.
13015 Woodland Ave., Cleveland 20, D. (Tel. RA 1-6400)
Purch. Agent: M. Nager
V. P.-Sales: L. S. Winstan S, PS, MS

GIRARD-HOPKINS
1000 40th Ave., Oakland 1, Calif. (Tel. KElogg 2-8477)
Dir.-Purch.: A. R. Stock
Dir.-Sales: J. C. Hopkins M

GITS BROTHERS MFG. CO.
1846 S. Kitboom Ave., Chicago 23, Ill. (Tel. LAwnside 1-3554)
Purch. Agent: R. Sherman
Gen. Sales Mgr.: E. Wahl M

GLADDING, McBEAN & CO.
2901 Los Feliz Blvd., Los Angeles 39, Calif. (Tel. NDrmandy 3-3361)
Purch. Agent: Boyd Moon
Gen. Mgr., Tech. Ceramic Div.: F. C. Arrance
Prod. Supvr., Tech. Ceramic Div.: J. D. Welterlen RD

GLAR-BAN CORP.
3807 Harlem Rd., Buffalo 15, N. Y.

GLASSCO INSTRUMENT CO.
777 S. Arroyo Pkwy., Pasadena 2, Calif. (Tel. SYcamore 5-3278)
Factory Supt.: George Northrop
V. P.-Sales: C. W. Froude

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Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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- GLEASON WORKS**
1000 University Ave., Rochester, N. Y. (Tel. Greenfield 3-1000)
Purch. Agent: M. D. Barker
Gen. Sales Mgr.: R. W. Doell PS, G
- GLOBAR PLANT, REFRACTORIES DIV.-THE CARBORUNDUM CO.**
Niagara Falls, N. Y. (Tel. 5715)
Sales Mgr.: D. S. Bowman M, RD
- GLOBE AUTOMATIC SPRINKLER DIV., THE FYR-FYTER CO.**
Rt. 1, Box 750, Newark 1, N. J. (Tel. Belgelaw 8-2200)
V. P.: C. T. Mallory S
- GLOBE ELECTRICAL MFG. CO.**
1729 W. 134th St., Gardena, Calif. (Tel. Faculty 1-3311)
Purch. Agent: William Ostendorf
V. P.-Sales: R. D. Hitchiner G, CT, TT
- GLOBE ELECTRONICS, DIV.-TEXTRON ELECTRONICS, INC.**
22-30 S. 34th St., Council Bluffs, Iowa (Tel. 32-8-1414)
Purch. Agent: George Thomas
Gen. Mgr.: Owen L. Meyersan CT
- GLOBE INDUSTRIES, INC.**
1784 Stanley Ave., Dayton, O. (Tel. Baldwin 2-3741)
Purch. Agent: John Trastle
Purch.: Lester Zartman & Robert McRae
Sales Mgr.: Yale J. Holt
- GLOBE INDUSTRIES, INC., SUPERMET DIV.**
1468 Cincinnati St., Dayton 8, Ohio (Tel. BA 3-4253)
Gen. Mgr.: John R. Powers M
- FRED GOAT CO. INC., THE**
314 Dean St., Braaklyn 17, N. Y. (Tel. TRiangle 5-0940)
Purch. Agent: E. Maggio
Sales Mgr.: John T. McMahon, Jr. M
- GOE ENGRG. CO.**
219 S. Mednik Ave., Las Angeles 22, Calif. (Tel. ANgeles 1-2183)
Pres.: Bob Reilly
Gen. Sales Mgr.: Milton Terkla M
- GOLDSMAN**
1328-34 N. 4th St., Philadelphia 22, Pa. (Tel. POplar 5-4468)
Gen. Mgr.: Ronald Goldsman
Purch. Dept.: Al Goldsman
Engr.: Robert Blasi
Sales Dept.: Chester A. Milewski & Richard H. Sager M, RD
- GOLDSMITH BROS. DIV., NATIONAL LEAD CO.**
900 W. 18th St., Chicago 6, Ill. (Tel. CAnal 6-3700)
Dir.-Purch.: Elmer Luedtke
Sales Mgr.: A. G. Wahlen
- JOHN GOMBOS CO., INC.**
Webra Rd., Clifton, N. J. (Tel. PRescott 3-6633)
Buyer: J. M. Fuller
Sales Mgr.: Harold J. Schatz MS, G, RD
- CONSET DIV., YOUNG SPRING & WIRE CORP.**
801 S. Main St., Burbank, Calif. (Tel. THomwall 5-8711)
Purch. Agent: Paul Kilmer
Gen. Sales Mgr.: William Hunter M, TT, RD
- GOOD ELECTRONIC CORP.**
P. O. Box 2406, West Palm Beach, Fla. (Tel. VICTor 8-3241)
Pres.: Lewis F. Good, Sr. M, CT, RD
- GOOD-ALL ELECTRIC MFG. CO.**
112 W. First St., Ogallala, Nebr. (Tel. 28-4-3611)
Purch. Agent: Frank Pincheon
Sales Mgr.: E. M. Sheridan
- B. F. GOODRICH AVIATION PRODUCTS**
500 S. Main St., Akron, O. (Tel. BLockstone 3-1171)
Gen. Mgr.-Sales: E. H. Fitch S, PS, MS, RD, HSE
- B. F. GOODRICH CHEMICAL CO.**
3135 Euclid Ave., Cleveland 15, Ohio (Tel. UToh 1-8200)
Chemical Purch.: H. L. Coulter
Engrg. Purch.: H. C. Katzenmeyer
Mgr., Propellant Materials: M. W. Osborne PS, M, RD
- B. F. GOODRICH CO., THE**
Shelton, Conn. (Tel. REgent 5-4661)
Purch. Agent: Robert Niccol
Asst. Purch. Agent: Edward Grant
- Buyers: Alfred Fisher & Samuel Goodman
Sales Mgr.: J. I. Gillis M
- B. F. GOODRICH INDUSTRIAL PRODUCTS CO.**
500 S. Main St., Akron 18, O. (Tel. BLockstone 3-1171)
Dir.-Purch.: H. C. Catt
Purch. Agents: E. A. Hughes & L. H. Finley
V. P.-Sales: J. C. Richards M
- B. F. GOODRICH SPONGE PRODUCTS**
Shelton, Conn. (Tel. REgent 5-4661)
Purch. Agent: R. G. Nical
Buyer: Samuel E. Goodman
Asst. Purch. Agent: Edward C. Grant
Sales Mgr.: J. I. Gillis
- GOODRICH-HIGH VOLTAGE ASTRONAUTICS, INC.**
Box 98, Burlington, Mass. (Tel. BRowing 2-1313)
Purch. Agent: Richard W. Chase PS, RD
- GOODYEAR AIRCRAFT CORP.**
1210 Mossillon Rd., Akron 15, O. (Tel. REpublic 3-6361)
Purch. Agent: H. A. Delaney
Mgr.-Material Purch.: A. L. Gravesmuehl
Mgr.-Subcontract Purch.: W. R. Reed
V. P.-Sales: R. W. Richardson S, MS, G, CT, RD
- GOODYEAR TIRE & RUBBER CO., THE AVIATION PRODUCTS DIV.**
1144 E. Market St., Akron 16, Ohio (Tel. 6-1411)
Dir.-Purch.: I. S. Gharky
Buyer: A. J. Bartel
Gen. Mgr., Aviation Products Div.: E. M. Eickmann MS, M, G, RD
- CLAUD S. GORDON CO.**
3000 S. Wallace St., Chicago 16, Ill. (Tel. VICTory 2-6525)
Purch. Agent: M. J. McDonagh
Sales Mgr.: F. C. Collins M, CT
- GORDON ENTERPRISES**
5362 N. Cahuena Blvd., N. Hollywood, Calif. (Tel. POplar 6-3725)
Dir.-Purch.: Ralph Cahn
Sales Mgr.: Kenneth Knipe MS, G, CT, TT, RD
- GORDON RUBBER & PACKING CO. INC.**
126 Oak Ave., Shelton, Conn. (Tel. REgent 5-7441)
Pres.: S. R. Nichols
Secy. & Treas.: Alexander Mazur M
- GORHAM ELECTRONICS, DIV.-GORHAM MFG. CO.**
333 Adelaide Ave., Providence 7, R. I. (Tel. WIlhams 1-1000)
Purch. Agent: William G. Pearce
Sales Mgr.: Robert S. Gordan MS, RD
- GORMAN-RUPP CO., THE**
305 Bowman St., Mansfield, O. (Tel. LAfoyette 4-4211)
Dir.-Purch.: C. R. Rupp
Purch. Agent: George York
Sales Mgr.: James C. Gorman MS
- GORN ELECTRIC CO., INC., AIRCRAFT CONTROLS DIV.**
845 Main St., Stamford, Conn. (Tel. FIlreside 8-7591)
Purch. Agent: A. J. Saraceno
Assoc. Sales Mgr., West. Div.: Scott L. Whipple
Assoc. Sales Mgr., East. Div.: H. H. Merritt, Jr. MS, M
- GORN ELECTRIC CO., INC., CONNECTOR DIV.**
845 Main St., Stamford, Conn. (Tel. FIlreside 8-7591)
Purch. Agent: A. J. Saraceno
Div. Mgr.: L. Rumely MS
- GORN ELECTRIC CO., INC., GORN ELECTRONICS DIV.**
845 Main St., Stamford, Conn. (Tel. FIlreside 8-7591)
Div. Mgr.: L. M. Rumely, Jr. M
- GEORGE GORTON MACHINE CO.**
1321 Racine St., Racine, Wisc. (Tel. MELrose 4-6644)
V. P.-Proc.: Charles Gorton
Purch. Agent: P. C. Paulsan
Sales Mgr.: K. E. Christopherson MS, RD
- GOSHEN RUBBER CO., INC.**
641 E. Iowa St., Goshen, Ind. (Tel. KEystone 3-1111)
Purch. Agent: C. N. Everingham
Sales Mgr.: Joseph L. Lontz M
- GOSLIN ELECTRIC & MFG. CO.**
2921 W. Olive Ave., Burbank, Calif. (Tel. VICToria 9-3025)
Purch. Agent: A. M. Galbraith
Sales Mgr.: W. S. Williams G, TT, RD
- J. D. GOULD CO.**
4707 Massachusetts Ave., Indianapolis 18, Ind. (Tel. Liberty 7-5289)
Dir.-Sales: John D. Gould, Jr.
- GOULDS PUMPS INC.**
300 Fall St., Seneca Falls, N. Y. (Tel. LOGan 8-5811)
Purch. Agent: C. H. Kissel
V. P. & Sales Mgr.: E. E. Backlund S
- GOW-MAC INSTRUMENT CO.**
100 Kings Rd., Madison, N. J. (Tel. FRontier 7-3450)
Pres.: James L. McFadden
- W. R. GRACE CO., DAVISON CHEMICAL DIV., NUCLEAR REACTOR MATERIALS PLANT**
P. O. Box 218, Erwin, Tenn. (Tel. Pioneer 2-1721)
Gen. Mgr.: T. C. Runion
Asst. Gen. Mgr.: E. R. Johnson M
- GRAFLEX, INC.**
3750 Monroe Ave., Rochester 3, N. Y. (Tel. LUDlow 6-2020)
Purch. Agent: C. S. Krembel
Asst. Purch. Agent: H. W. Griffith
Buyer-Expediter: A. M. McGovern
Contract Sales Mgr.: G. W. Lehman MS, G
- GRAFO COLLOIDS CORP.**
310 Wilkes Place, Sharon, Pa. (Tel. DI 6-5023)
Purch. Agent: Edw. A. Willson
Sales Mgr.: Ronald R. States M
- GRAMM TRAILER CORP.**
425 E. O'Connor Ave., Lima, Ohio (Tel. CA 9-7015)
Purch. Agent: V. D. Buchanan
Sales Mgr., Military Products: William J. Saelzler MS
- GRAND CENTRAL ROCKET CO.**
Box 111, Redlands, Calif. (Tel. PYramid 3-2211)
Dir.-Material: Jack Edwards
V. P.-Mfg., Test.: Jerome Belsky
Dir.-Mktg.: James T. Harker
V. P. & Gen. Mgr.: Cleo Brunetti PS, RD
- GRANT GEAR WORKS, INC.**
154 W. 2nd St., Boston, Mass. (Tel. AN 8-4408)
Purch. Agent: J. F. Cramwell
Sales & Adv. Mgr.: F. E. Emery
Plant Supt.: W. J. MacDonald
- GRANT MFG. & MACHINE CO., THE**
90 Missile Ave., Bridgeport 5, Conn. (Tel. FOrest 6-4557) S
- GRANT PULLEY & HARDWARE CORP.**
High St., West Nyack, N. Y. (Tel. ELmwood 8-4400)
Purch. Agent: Mrs. Kay Saller
Gen. Sales Mgr.: William M. Linden M
- GRANT-LEHR CORP.**
1911 N. 4th St., Baton Rouge, La. (Tel. DI 2-7638)
Dir.-Purch.: Edward D. Grant
Dir.-Sales: R. A. Lehr M
- GRAPHIK CIRCUITS DIV., CINCH MFG. CO.**
200 S. Tumbull Canyon Rd., City of Industry, Calif. (Tel. EDgewood 3-1201)
Purch. Agent: H. A. Clinch
V. P. & Gen. Mgr.: George J. Hart
Chief Engr.: R. A. Ibel
Gen. Sales Mgr.: S. L. Glasdell M
- GRAPHITE METALLIZING CORP.**
1050 Nepperhan Ave., Yankers, N. Y. (Tel. YONkers 8-8400)
- GRAVER TANK & MFG. CO., DIV.-UNION TANK CAR CO.**
4811 Tad Ave., E. Chicago, Ind. (Tel. EXport 7-204)
Dir.-Purch. & Proc.: T. Harle
Purch. Agent: M. L. Graves
Gen. Sales Mgr.: Clark Root PS
- GRAY CO., INC.**
60 11th Ave., N. E., Minneapolis 13, Minn. (Tel. FEderal 6-9331)
Purch. Agent: W. F. Bloedow
Asst. Purch. Agent: L. Wandel
Ind. Sales Mgr.: H. A. Murphy, Jr.
- GRAY INSTRUMENT CO.**
448 Mill Rd., Andalusia, Pa. (Tel. HObart 4-2100)
Prod. Engr.: C. Schorle
Treas.: Tom Mother
V. P.-Sales: A. R. Bechtel CT
- GRAY MFG. CO., THE**
16 Arbor St., Hartford 1, Conn. (Tel. ADams 3-1271)
Purch. Agent: R. Wahotala
Electronic Buyers: W. Allyn & R. Roy
Indsl. Sales Mgr.: J. T. Kane MS, M, G, RD

GRAYHILL, INC.
561 Hillgrove Ave., La Grange, Ill. (Tel. FLeetwood 4-1040)
Dir.-Purch.: Phil Tyllin
Dir.-Sales: R. M. Thill

GREAT EASTERN METAL PRODUCTS CO.
22 Woodworth Ave., Yonkers, N. Y. (Tel. GReenleaf 6-7300)
Pres.: Lester Weinberg M

GREAT LAKES CARBON CORP., ELECTRODE DIV.
18 E. 48th St., New York 17, N. Y. (Tel. ELdorado 5-6200)
Gen. Sales Mgr.: Samuel H. Reynolds
Purch. Dept.: P. O. Box 637, Pine Ave. at 58th St., Niagara Falls, N. Y. (Tel. BUtter 3-7611)
Purch.-Dir.: George H. Camey M

GREAT LAKES MFG. CORP.
4223 Monticello Blvd., Cleveland 21, Ohio (Tel. EVERgreen 2-5500)
Purch. Agent: R. A. Swanson
Buyer: S. E. Boginski
Pres.: J. A. Kanuch PS, MS, G

GREEN INSTRUMENT CO.
385 Putnam Ave., Cambridge 39, Mass. (Tel. ELiot 4-2989)
Purch. Agent: Lynd F. Tillyer
Sales Mgr.: W. Franklin Fullerton

ARNOLD GREENE TESTING LABS., INC.
E. Natick Industrial Park, Dak St., Natick, Mass. (Tel. CE 5-7330)
Pres.: Arnold Greene
V. P.: Robert Halliday
Sales Mgr.: Ted Mongeau

GREENE, TWEED & CO.
340 Elm Ave., North Wales, Pa. (Tel. DXbow 9-4821)
Purch. Agent: M. Dorothy Segall M

GREENFIELD TAP & DIE, DIV.-UNITED-GREEN-FIELD CORP.
Sanderson St., Greenfield, Mass. (Tel. PR 3-3611)
Purch. Agent: Avery Bates
Sales: W. J. Eberlein RD

GREENLEAF MFG. DIV., THE MANDREL IND. INC.
7814 Maplewood Ind. Ct., St. Louis 17, Mo. (Tel. STeering 1-9889)
Purch. Agent: P. J. Mahony
Sales Mgr.: Paul B. Bruns G, CT

GREER HYDRAULICS, INC.
5930 W. Jefferson Blvd., Los Angeles 16, Calif. (Tel. UP 0-9161)
Purch. Mgr.: Richard Gmernickl
Sales Mgr.: Donald K. Marsh
Eastern Sales-Service Offices: 496 Grand Blvd., Westbury, L. I. (Tel. ED 4-8666)
Sales Mgr.: Leonard Seaman PS, RD

GREIBACH INSTRUMENTS CORP.
315 North Ave., New Rochelle, N. Y. (Tel. New Rochelle 3-7900)
Dir.-Purch.: Lester Kanarfogel
Dir.-Sales: J. M. Leopold CT, RD

GREMCO, INC.
P. D. Box 7115, 3535 N. Sylvania, Ft. Worth, Tex. (Tel. TErminat 4-2836)
Purch. Agent: A. Krsak
Sales Mgr.: J. D. Taliaferro MS, RD

GRIES REPRODUCER CORP.
125 Beechwood Ave., New Rochelle, N. Y. (Tel. NEw Rochelle 3-8600)
Purch. Agent: Robert Barlow
Asst. Purch. Agent: Thomas Veldron
Sales Mgr.: Carl L. Chase
Dir.-Sales: Joseph Saks

JOHN GRIFFIN CO.
2117 Grand Ave., St. Paul 5, Minn. (Tel. MIdway 8-2810)
Purch. Agent: Art Carlson
Dir.-Sales: Jim Conway M

GRIGSBY CO., INC., THE
407 N. Salem Ave., Arlington Heights, Ill. (Tel. NEwcastle 1-8700)
Purch. Agent: A. Lassen
V. P.-Sales: W. S. Patterson
Sales Mgr.: L. J. Osberg M, RD

GRIMES MFG. CO.
515 N. Russell St., Urbana, D. (Tel. 3-5221)
Purch. Agent: John Davis
Asst. Purch. Agent: Paul Roles
V. P.-Sales: L. B. Moore MS, TT, RD

GRINNELL CO.
277 W. Exchange St., Providence 1, R. I. (Tel. TEmple 1-7000)

Purch. Agent: W. J. Duggan
Mgr., Saunders Valves Div.: A. G. Smith
Mgr., Fire Protection Div.: D. L. Swats

GRIP NUT CO.
Broad & Maple, South Whitley, Ind. (Tel. S. W. 112)
Purch. Agent: M. H. Rudd
V. P.-Sales: G. A. Bovenkerk M

GRISCOM-RUSSELL CO., THE
Massillon, Ohio (Tel. TE 2-8751)
Purch. Agent: H. A. D'Neil
Sales Engr.: L. H. Bradley
Gen. Sales Mgr.: N. T. Griffiths
Contract Engr.: F. V. Huber PS

GROOV-PIN CORP.
1125 Hendricks Causeway, Ridgefield, N. J. (Tel. WHitney 5-6780)
Purch. Agent: H. Bernlohr
Sales Mgr.: R. G. Cummings M

GROTNES MACHINE WORKS, INC.
5454 N. Wolcott Ave., Chicago 40, Ill. (Tel. LDngbeach 1-7693)
Sales Mgr.: J. F. Coleman S, PS

GROVE VALVE & REGULATOR CO.
6529 Hollis St., Oakland 8, Calif. (Tel. OLympic 5-7700)
Purch. Agent: L. D. West
V. P.-Gen. Sales Mgr.: George Doty MS

GRUMMAN AIRCRAFT ENGINEERING CORP.
Bethpage, L. I., N. Y. (Tel. WElls 1-1500)
Mgr.-Proc.: William N. Robertson, Jr.
Purch. Agent: Norman J. Eglhoff
Chief Buyer, R&D: Charles Nauss
V. P.-Contracts: George F. Titterton S, PS, RD, HSE

GUARANTEE SPECIALTY MFG. CO.
E. 96th St. & N. Y. C. R.R., Cleveland 8, Ohio (Tel. GLenville 1-9744)
Pres.: R. H. Wright
V. P.-Purch.: E. M. Rogert
Sales Mgr.: Stan Wygonik

GUARDITE CO., DIV.-AMERICAN-MARIETTA CO.
Box 188, Wheeling, Ill. (Tel. LEhigh 7-1000)
Purch. Agent: D. L. Corter
Sales Mgr., Environmental Equip.: S. P. Vook CT, HSE

GUDEBROD BROS. SILK CO., INC.
225 W. 34th St., New York 1, N. Y. (Tel. LAckawanna 4-5858)
Purch. Dept.: 12 S. 12th St., Philadelphia 7, Pa. (Tel. WAlnut 2-1212)
Dir.-Purch.: Fred Hooven
Dir.-Sales: F. W. Krupp M

GUDEMAN CO., THE
340 W. Huron St., Chicago 10, Ill. (Tel. DELaware 7-7400)
Purch. Agent: Robert Eggersted
V. P.-Sales: Thomas Klein
Sales Prom. Mgr.: Philip LoVecchio M

GUIDANCE CONTROLS CORP.
110 Duffy Ave., Hicksville, L. I., Nassau, N. Y. (Tel. WElls 8-9500)
Purch. Agent: Charles Biasi
Exec. V. P.: Walter H. Niles MS, G, CT, TT, RD

GUIDED MISSILE DIV., THE FIRESTONE TIRE & RUBBER CO.
2525 Firestone Blvd., Los Angeles 54, Calif. (Tel. LUdlow 3-4411)
Purch. Agent, Coast Div.: J. D. Esterley
Mgr., Purch. Dept., Guided Missile Div.: N. H. Petersen
Gen. Mgr.: H. I. Gibson S, PS, MS, M, G, CT, TT, RD

GULF OIL CORP., DEPT. DM
P. D. Box 1166, Pittsburgh 30, Pa. (Tel. EXpress 1-2400)
Coordinator Dir. Sales: E. W. Campbell

GULTON INDUSTRIES, INC.
212 Durham Ave., Metuchen, N. J. (Tel. LIBerty 8-2800)
Purch. Agent: Julius Furchheimer
Sales Coordinator: Edward Cohen MS, G, CT, TT, RD, HSE

W. & L. E. GURLEY
514 Fulton St., Troy, N. Y. (Tel. AShley 2-6300)
Purch. Agent: R. E. Kapps
V. P.-Sales: M. S. Dickson G, CT

GUSTIN-BACON MFG. CO.
210 W. 10th St., Kansas City 5, Mo. (Tel. HARRison 1-7788)
V. P. & Dir.-Purch.: M. Shields
Purch. Dept.: T. L. Fairfax, George Crowl, Ken Klann

V. P.-Sales: F. W. Muller

WILLIAM CO., THE
370 Furman St., Brooklyn 1, N. Y. (Tel. MAIn 4-2644)
Purch. Agent: Johannes E. Hokay
Dir.-Sales: Mark R. M. Gwilliam S, PS, MS, M, G, CT, TT, RD, HSE

GYREX CORP., THE
3003 Pennsylvania Ave., Santa Monica, Calif. (Tel. EXbrook 3-0462)
Purch. Agent: W. J. Underwood, Jr.
Dir.-Sales: W. A. Barton MS, G, CT, TT, RD

H & H MFG. CO. INC.
Sycamore & Mill Rd., Clifton Heights, Pa. (Tel. MADison 3-8900)
Purch. Agent: R. Schmid
Sales Mgr.: J. Farley PS

HPL MFG. CO.
15210 Miles Ave., Cleveland 28, Ohio (Tel. 216 Wyoming 1-5000)
Purch. Agent: J. Yasenka
Sales Mgr.: M. Lorentz M

HRB-SINGER, INC., SUB.-SINGER MFG. CO.
Science Park, State College, Pa. (Tel. AD 7-7611)
Purch. Agent: James H. Smith
Dir.-Mktg.: L. D. Rexroat RD, HSE

HABERSTROH STUDIOS, INC.
9 W. 19th St., New York 11, N. Y. (Tel. AL 5-1827)
Dir.-Purch.: Alex Haberstroh

HACKENSACK CABLE CORP.
110 Orchard St., Hackensack, N. J. (Tel. HUBbard 7-1100)
Pres.: R. W. Alexander
V. P.-Sales: A. F. Brady, Jr.

B. H. HADLEY, INC.
1427 S. Garey Ave., Pomona, Calif. (Tel. NAtional 9-5075)
Purch. Agent: T. R. McCoun
Dir.-Mkt.: J. W. Salassi PS, MS, M, CT, RD

HAGAN CHEMICALS & CONTRLDS, INC.
Hagan Cir., Pittsburgh 30, Pa. (Tel. WA 2-3737)
Head-Purch.: C. E. Kaufman
Sales Mgr.: T. M. Norman RD

HAGEN MFG. CO.
104 Walnut St., Baraboo, Wis. (Tel. 1195)
Purch. Agent: C. A. Boardman, 202 20th St., Moline, Ill. (Tel. Moline 2-5571)
Sales Mgr.: A. W. Rummery MS, M

HAHN & CLAY
5100 Clinton Dr., Houston 20, Tex. (Tel. DRchard 2-1671)
Mgr.-Purch.: Billie Sommers
V. P.-Purch.: Walter Clay
Gen. Mgr.-Fab. Steel: Lawrence F. Megow
V. P.-Sales: Gene Clay S, PS, MS, M, RD

HALEDY ELECTRONICS CO.
57 William St., New York 5, N. Y. (Tel. WHirehall 3-3140)
Dir.-Purch.: V. Spierer
Dir.-Sales: T. Careri

HALLAM DRE ELECTRONICS CO., DIV.-SIEGLER CORP.
714 N. Brookhurst St., Anaheim, Calif. (Tel. PRospect 4-1010)
Dir.-Material: Fred Consiglio
Exec. Mgr., Customer Relations: Homer F. Stames, Jr. MS, G, CT, TT, RD

HALLETT MFG. CO.
5910 Bowcraft St., Los Angeles 16, Calif. (Tel. UPTon 0-7094)
Mgr.-Prac.: Robert D. Leeseman
V. P.-Sales: Stanley E. Estes MS, RD

HALLIBURTON, INC., MFG. DIV.
4724 S. Boyle Ave., Los Angeles 58, Calif. (Tel. LUdlow 8-3181)

CODING

Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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- Purch. Agent:** E. V. Kopschmidt
Sales Mgr.: J. W. Murphy MS, G, CT, TT, RD
- HALLICRAFTERS CO., THE**
4401 W. Fifth Ave., Chicago 24, Ill. (Tel. VA 6-6300)
Dir.-Purch.: Cliff Matthews
Asst. Dir.-Purch.: Ed Corcoran
Dir.-Mktg.: William Peugh G, TT, RD
- HALLIKAINEN INSTRUMENTS**
1341 7th St., Berkeley 10, Calif. (Tel. LAndscape 4-1757)
Purch. Agent: W. C. Bogat
V. P. & Sales Mgr.: E. F. Schimbor
- HALOCARBON PRODUCTS CORP.**
28 Berwen Ct., Hackensack, N. J. (Tel. DIamond 3-8703)
V. P.-Purch.: Rex C. Canner
Sales Mgr.: William Cossanos
- HALOGEN INSULATOR & SEAL CORP.**
9960 Pacific Ave., Franklin Park, Ill. (Tel. GLadstone 5-9000)
Purch. Agent: Walter Lucos
Head-Sales: H. L. Asp
- HALOID XEROX INC.**
P. D. Box 1540, Rochester 3, N. Y. (Tel. GLenwood 3-9460)
Dir.-Purch.: F. W. Curtis, 175 Narman St., Rochester, N. Y. (Tel. GLenwood 3-9550)
V. P.-Sales: H. T. Hirst M
- HAMILTON FOUNDRY INC.**
1551 Lincoln Ave., Hamilton, Ohio M
- HAMILTON KENT MFG. CO.**
427 W. Grant St., Kent, D. (Tel. DRchard 3-9555)
Dir.-Purch.: D. E. Greene
Dir.-Sales: V. R. Mazer
- HAMILTON STANDARD, DIV.-UNITED AIRCRAFT CORP.**
Windsor Locks, Conn. (Tel. NAtional 3-1621)
Purch. Mgr.: John Spade
Sales Mgr.: John Burrige MS, M, G, CT, RD
- HAMILTON WATCH CO.**
Columbia Ave., Lancaster, Pa. (Tel. EXpress 4-7161)
Purch. Agent: Harold H. Quickel
Mgr., Proc. Dept.: William A. Dinges
Mgr., Contract Admin.: George F. Roberts
Dir.-Sales: Henry S. Tholen RD
- HAMILTON WATCH CO.-INDUSTRIAL DIV.**
Columbia Ave., Lancaster, Pa. (Tel. EXpress 4-7161)
Purch. Agent: H. H. Quickel
Sales Coordinator: G. W. Vatter M, RD
- HAMILTON WATCH CO. MILITARY PRODUCTS DIV.**
Lancaster, Pa. (Tel. EXpress 4-7161)
Purch. Agent: Harold H. Quickel
Mgr., Mil. Prod. Div.: Calvin F. Brown CT, RD
- HAMLIN, INC.**
Lake & Grove Sts., Lake Mills, Wis. (Tel. 208)
Dir.-Purch.: Ronald Ferguson G
- HAMMARLUND MFG., CO., THE**
460 W. 34th, New York 1, N. Y. (Tel. LDngacre 5-1300)
Head-Purch.: Wm. Griffin
Exec. V. P.: H. A. McCloskey MS, CT
- HAMMEL-DAHL DIV.-GENERAL CONTROLS CO.**
Warwick Industrial Park, Warwick, R. I. (Tel. STuart 1-6200)
Purch. & Prod. Coordinator: Forrest G. Brown
Div. Sales Mgr.: John E. Charsha, Jr.
Buyer: Eugene E. Collins PS
- HAMMETT-MERCURY-REX DIV.**
2311 Taoumeau Ave., Kansas City 2, Kans. (Tel. ATwater 1-6501)
Dir.-Purch. & Sales: A. H. St. Clair MS, M, CT, TT, RD
- HAMPDEN MFG. CO., INC.**
Bridge St., Three Rivers, Mass. (Tel. ATlas 3-3451)
Pres.: Castle Oay
Purch. Agent: T. H. Losares
- HANDICRAFT TOOLS, INC., DIV.-X-ACTO, INC.**
48-41 Van Dam St., Lang Island City 1, N. Y. (Tel. EXeter 2-3333)
Purch. Agent: Mrs. Agnes Tinkler M
- HANDY & HARMAN**
82 Fulton St., New York 38, N. Y. (Tel. BEekman 3-2460)
Dir.-Sales: Paul G. Feld M
- HANLON & WILSON CO., THE**
321 Penwood Ave., Pittsburgh 21, Pa. (Tel. CHurchill 2-8200)
Purch. Agent: H. Cleevely
Chief Engr.: S. J. Hannon
V. P. Sales: E. D. Gerhardt PS, MS
- HANNIFIN CO., DIV.-PARKER-HANNIFIN CORP.**
498-D S. Wolf Rd., Des Plaines, Ill. (Tel. VAnderbilt 7-1171)
Div. Secy.: M. R. Gault
Purch. Agent: Chester A. Miller
Buyer: W. W. Herrmann
Dir.-Sales: D. J. Moha
- HANSEN ELECTRONICS CO.**
Box 1302, Hollywood 28, Calif.
Pres.: H. R. Hansen
Gen. Mgr.: E. K. Stokes M
- HANSEN MFG. CO. INC.**
1004 S. Hart St., Princeton, Ind. (Tel. FUlton 5-3415)
Plant Supt.: J. E. Johnson
Pres.: Robert P. Hansman
Chief Engr.: H. G. Manson G, TT, RD
- HANSON-VAN WINKLE-MUNNING CO.**
Church St., Matawan, N. J. (Tel. LOWell 6-1000)
Asst. to Pres.: Edwin M. Close
V. P.-Sales: Robert M. Nartan M, RD
- HARBISON-WALKER REFRACTORIES CO.**
307 Fifth Ave., Pittsburgh 22, Pa. (Tel. ATLantic 1-0942)
Mgr., Purch. & Engr.: Richard P. Snyder
Gen. Sales Mgr.: R. S. Moore
V. P.-Sales: C. A. Broshares M
- HARCO CONTAINERS DIV.-HARBOR BOAT BUILDING CO.**
258 Cannery St., Terminal Island, Calif. (Tel. TErminAl 2-5381)
Purch. Mgr.: Ray Rinderknecht, Sr.
Sales Mgr.: A. W. Wall
- HARCO LABS., INC.**
77 Olive St., P. D. Box 1792, New Haven 7, Conn. (Tel. STate 7-6701)
Purch. Agent: J. E. Guetens
Asst. Sales Mgr.: A. A. Anderson S, PS, MS, M, RO
- HAR-CONN CHROME CO.**
603 New Park Ave., West Hartford 10, Conn. (Tel. AD 3-6225)
Gen. Mgr. & Purch. Agent: V. C. Hickey
Secy. & Sales Mgr.: T. J. D'Brien S, PS, MS, G, RD
- PAUL HARDEMAN, INC.**
10579 Dale St., Stanton, Calif. (Tel. TAYlor 8-0230)
Purch. Dept. Mgr.: E. J. Lull
Admin. V. P.: H. J. Cail RD, HSE
- DONALD C. HARDER CO.**
2580 K St., San Diego 4, Calif. (Tel. BELmont 9-8021)
Dir.-Purch. & Sales: Donald C. Harder
Contract Admin.: L. L. La Zelle M
- HARDINGE MFG. CO.**
240 Arch St., York, Pa. (Tel. 33821)
Purch. Agent: R. E. Trout
Sales Dept.: J. R. Kraut M
- HARDMAN TOOL & ENGRG. CO.**
1845 S. Bundy Or., Los Angeles 25, Calif. (Tel. BRadshaw 2-0266)
Purch. Agents: W. T. Ferrand, Bryce Hampton, Ed Borr
V. P.-Sales: Stanley J. Hordman MS, HSE
- HAROWICK, HINOLE, INC.**
40 Herman St., Newark 5, N. J. (Tel. MArket 2-8200)
Plant Mgr.: F. J. Phillips
Purch. Agent: H. Lehner
V. P.-Sales: Thomas B. Ure
- HARMAN EQUIPMENT CO.**
3605 E. Dlyptic Blvd., Los Angeles 23, Calif. (Tel. ANgels 1-4113)
Purch. Agent: F. Van Zant
Sales Mgr., Filter Div.: G. J. Harmon, Jr. MS
- HARMON, LICHTENSTEIN & CO.**
26 Broadway, New York 4, N. Y. (Tel. HANover 2-8395)
Dir.-Sales: R. B. Harman M
- HARNISCHFEGER CORP., P & H DIESEL ENGINE DIV.**
Main St., Crystal Lake, Ill. (Tel. CL 1700)
Purch. Mgr.: Gole Evenson
V. P.-Purch.: F. C. Edwards
Sales Mgr.: Fred Keller
- H. M. HARPER CO.**
8200 Lehigh Ave., Morton Grove, Ill. (Tel. DR 4-3000)
V. P.-Purch.: Theodore Wickman
V. P.-Sales: E. A. Channer
Purch. Agent: James Fairbairn M
- HARPER-LEADER, INC.**
1046 S. Main St., Waterbury 20, Conn. (Tel. PLazo 6-8164)
Pres.: P. J. Sloane
Secy.-Treas.: I. Cross
- HARRELSON MFG. CO.**
Colhoun City, Miss. (Tel. MAn 8-6417)
Purch. Agent: W. A. Young
Sales Mgr.: L. Fard Harrelson S, MS, M
- GEORGE E. HARRIS & CO., INC.**
3241 E. Douglas, Wichita, Kans. (Tel. MUrray 2-2731)
V. P.-Purch.: V. L. Harris
Gen. Mgr.: T. O. Wallace MS, M
- HARRIS REFRIGERATION CO.**
308 River St., Cambridge 39, Mass. (Tel. UNiversity 4-4000)
Chief Engr.: Charles W. J. Harris
Sales Mgr.: Roland S. Jamison
- HARRISON LABS., INC.**
45 Industrial Rd., Berkeley Hts., N. J. (Tel. CR 3-9123)
Purch. Agent: M. Borbour
Sales & Adv. Mgr.: A. M. Dorbie MS, G, CT, TT, RD
- HART MFG. CO., THE**
147 Bartholomew Ave., Hartford, Conn. (Tel. JACKson 5-3491)
Purch. Agent: R. W. James
Sales Mgr.: R. E. McIntosh
- HARTFORD MACHINE SCREW CO., DIV.-STANOARO SCREW CO.**
Box 1440, Hartford 2, Conn. (Tel. JACKson 5-0821)
Purch. Agent: D. T. Bacon
Asst. Purch. Agent: M. R. Derrick
Buyer: J. Braine
Gen. Sales Mgr.: J. F. Miller S, PS, MS
- HARTMAN ELECTRICAL MFG. CO., THE**
175 N. Diamond St., Mansfield, D. (Tel. LAFayette 4-1411)
Purch. Agent: W. M. Locke
Buyer: T. Roehm
Sales Mgr.: M. Trbovich
- HARTWELL AVIATION SUPPLY CO.**
9035 Venice Blvd., Los Angeles 34, Calif. (Tel. UPtan 0-3781)
Purch. Agent: Grover Trophagen
Sales Mgr.: Al Pugh MS
- HARVEY ALUMINUM**
19200 S. Western Ave., Tarrance, Calif. (Tel. SPruce 5-2181)
Dir.-Purch.: John Cherrie
Dir.-Sales: William De War M, RD
- HASKEL ENGRG. & SUPPLY CO.**
1236 S. Central Ave., Glendale 4, Calif. (Tel. CHopmon 5-6811)
Mgr., Material: Carter Pierce (Tel. EDgemont 8-5573)
Exec. V. P.: Donald Driscoll
Sales Mgr.: Ralph Moss MS
- HASKELITE MFG. DIV., EVANS PRODUCTS CO.**
701 Ann St., Grand Rapids 2, Mich. (Tel. GL 8-1331)
Dir.-Purch.: F. W. Mitchell
Asst. Dir.-Purch.: R. J. Williamsen
Sales Mgr.: D. G. Slowsan, Jr. M
- HASS INSTRUMENT CORP., THE**
6173 Branch Ave., S. E., Washington 23, D. C. (Tel. HICKory 9-5454)
Pres.: Edward C. Hass
V. P.: Charles J. W. Hass
Shop Admin. Supt.: Theodore N. Stoppel MS
- JOHN HASSALL, INC.**
Box 2179, Westbury, L. I., N. Y. (Tel. EDgewood 4-6200)
V. P.-Purch.: W. W. Smith
Sales Mgr.: E. F. Karnes M
- HASTINGS PLASTICS, INC.**
1551 12th St., Sonto Manica, Calif. (Tel. EXbrook 3-7702)

Gen. Mgr.: Norry M. Hostings
Purch. Agent: Frank Lundstrom S, PS, MS, M, RD

HATHAWAY INSTRUMENTS, INC.
5800 E. Jewell Ave., Denver 22, Colo. (Tel. Skyline 6-8301)
Purch. Agent: Frank J. Knofel
Asst. Purch. Agent: Alon T. Wilner
Asst. Sales Mgr.: James E. Corson MS, G, CT

HAVEG INDUSTRIES, INC.
900 Greenbank Rd., Wilmington 8, Oel. (Tel. WYmon 8-2271)
Purch. Agent: P. L. Reynier
Asst. Purch. Agent: C. Wolf
Mkt. Mgr.: John B. Mackenzie

***HAWS DRINKING FAUCET CO.**
Fourth & Page Sts., Berkeley, Calif. (Tel. LAndscape 5-5801)
Gen. Mgr.: J. E. Troynor
Asst. Mgr.: T. R. Hows
(See advertisement this issue)

A. W. HAYDON CO., THE
231-0 N. Elm St., Waterbury, Conn. (Tel. PLozo 6-4481)
Purch. Agent: Roy E. Ahlberg
Buyers: Fred Lawton, D. Roberts, J. Thompson
Sales Mgr.: F. Hoffmann M, G, CT, TT

HAYDON SWITCH, INC.
536 S. Leonard St., Waterbury, Conn. (Tel. PLozo 6-7441)
Purch. Agent: John J. Leugminos
Sales Mgr.: Arthur N. Milliken PS

C. I. HAYES, INC.
800 Wellington Ave., Cronston 10, R. I. (Tel. HOpkins 1-3400)
Purch. Agent: Roy C. Arnold
Gen. Sales Mgr.: James R. Elliott RD

HAYNES STELLITE CO., DIV.-UNION CARBIDE CORP.
1020 W. Park Ave., Kokomo, Ind. (Tel. GLodstone 2-5421)
Purch. Agent: J. H. Wollmuth
Buyers: R. S. Rees, R. M. Tudor, H. M. Wolf, J. R. Clawson
V. P.-Sales: R. L. Lerch
Gen. Sales Mgr.: C. G. Chisholm M

HAYS CORP., THE
743 E. 8th St., Michigan City, Ind. (Tel. TRiangle 2-5561)
Purch. Agent: William Wagner
Mgr.-Sales: H. M. Twible
Asst. to Sales Mgr.: O. W. Meyer CT, RD, HSE

HAYS MFG. CO.
803 W. 12th St., Erie, Pa. (Tel. GLendale 2-3221)
Purch. Agent: P. N. Christensen
Sales Mgr.: H. H. Clemens

HAYWARD SCIENTIFIC GLASS CORP.
217 Magnolia Ave., Whittier, Calif. (Tel. OX 5-8213)
Secy.: Henry O. Shaw
V. P.-Sales: James L. Wood

HAZELTINE ELECTRONICS DIV.-HAZELTINE CORP.
59-25 Little Neck Pkwy., Little Neck 62, N. Y. (Tel. FAculty 1-2300)
Dir.-Proc.: B. H. Rogers
Asst. Dir.-Proc.: E. L. Roseberry
Dir.-Sales: S. M. Thomas MS, G, TT, RD

HEIL PROCESS EQUIPMENT CORP.
12901 Elmwood Ave., Cleveland 11, Ohio (Tel. CLeorwater 2-4141)
Purch. Agent: George King
V. P.-Purch.: H. P. Heil
Mgr., Natl. Branch Sales: R. E. Scheel S, M

HEILAND DIV.-MINNEAPOLIS-HONEYWELL
5200 E. Evans Ave., Denver 22, Colo. (Tel. SKYline 6-3681)
Purch. Agent: R. V. Bertram
Asst. Purch. Agents: Warren Lindross & Robert Steele
Mgr.-Instrument Sales: Lloyd J. Moyer MS, CT, TT, RD

HEINEMANN ELECTRIC CO.
Pennsylvania Ave. & Plum St., Trenton 2, N. J. (Tel. EXport 4-1191)
Purch. Agent: James E. Shugors
Sales Mgr.: Edgor Bromberg MS, CT

HEIN-WERNER CORP.
1200 Notional Ave., Waukesha, Wisc. (Tel. LLberry 2-6611)
Purch. Agent: M. L. Lumb
Sales Mgr.: H. J. Scullin

HELDOR MFG. CO., INC.
238 Lewis St., Paterson, N. J. (Tel. ARmory 1-0900)
Purch. Agent: E. Jobses
Sales Mgr.: Roy Walker

HELICOID GAGE DIV., AMERICAN CHAIN & CABLE CO., INC.
929 Connecticut Ave., Bridgeport 2, Conn.

HELI-COIL CORP.
Shelter Rock Lane, Oonbury, Conn. (Tel. Pioneer 3-7651)
Purch. Agent: Ted C. Gorman
Dir.-Sales: John E. Fosano

HELIO AIRCRAFT CORP.
Box 238, Norwood, Mass. (Tel. CA 6-0823)
Acting Purch. Agents: W. Conrod & R. Feeney
V. P.-Sales: R. Kimnoch

HELIPOT DIV.-BECKMAN INSTRUMENTS, INC.
2500 Fullerton Rd., Fullerton, Calif. (Tel. OWen 7-1771)
Purch. Agent: Ed Schreiber
Mktg. Mgr.: Karl Heller MS, G, CT

HELWIG CARBON PRODUCTS, INC.
2550 N. 30th St., Milwaukee 10, Wisc. (Tel. Hilltop 2-7755)
Purch. Agent: C. E. Wendelburg
V. P.-Sales: J. E. Koenitzer

HEMINWAY & BARTLETT MFG. CO., THE
500 Fifth Ave., New York 36, N. Y. (Tel. LOngoacre 4-0880)
Sales Mgr.: C. Ouanou Houk
Purch. Agent: Theodore Shove, Watertown, Conn. (Tel. CRestwood 4-2541)

HENDRICKSON MFG. CO.
8001 W. 47th St., Lyons, Ill. (Tel. Hickory 7-4600)
Purch. Agent: Miles Curdo
Exec. V. P.-Sales: Edw. D. Hendrickson MS

HENLOPEN MFG. CO., INC.
178 Cook St., Brooklyn 6, N. Y. (Tel. GL 6-4461)
Purch. Agent: Allion Costo

HENRY & MILLER INDUSTRIES, INC.
675 Garfield Ave., Jersey 5, N. J. (Tel. HEnderson 4-4200)
Purch. Agent: Sol Ader
Sales Mgr.: Edmund B. Schnur PS, G, RD

HEPPENSTALL CO.
4620 Hatfield St., Pittsburgh 1, Pa. (Tel. MA 1-2000)
Purch. Agent: V. H. Lonohan

HERCULES POWDER CO., CHEMICAL PROPULSION DIV.
900 Market St., Wilmington 99, Del. (Tel. OLYmpio 8-7211)
Dir.-Purch.: Edwin S. Ladley
Dir.-Sales: Alexander F. Giacco
Dir.-Purch.: Robert Sawyer, Bocchus, Utah (Tel. MAgno 6321)
Dir.-Purch.: Thomas Brown, ABL, Pinto, W. Va. (Tel. REDwood 8-900) PS, M, RD

HERLO ENGRG. CORP.
549 N. Prairie Ave., Howthome, Calif. (Tel. OS 5-4435)
Pres. & Gen. Mgr.: R. E. Cole PS, CT, RD

HERMETIC SEAL CORP.
37 S. 6th St., Newark 7, N. J. (Tel. MArket 3-9400)
Purch. Agent: Roy Chopman
Sales Mgr.: Al Neumann M

HERMETIC SEAL CORP. & THERMAL CONTROLS, INC.
4143 River Rd., North Arlington, N. J. (Tel. WY 8-8080)
Prod. Mgr.: Frank A. Restoino
Sales Exec.: Charles Word MS

HERMETIC SEAL TRANSFORMER CO., DIV. DRESSER INDUSTRIES
555 N. 5th St., Garland, Texas (Tel. BR 6-5141)
Purch. Agent: R. Teer
Mktg. Mgr.: G. Guidi MS

HERTNER ELECTRIC CO., THE
12690 Elmwood Ave., Cleveland 11, O. (Tel. CLeorwater 2-4242)
Purch. Agent: A. G. Lindrose
Buyer: R. E. Goriepy
Sales Mgr.: R. C. Neiswonder MS, G, CT, TT

HESS, GOLDSMITH & CO., INC.
1400 Broadway, New York 18, N. Y. (Tel. Wisconsin 7-8900)
Exec. V. P.: R. F. Clark M

HEVI-DUTY ELECTRIC CO., DIV.-BASIC PRODUCTS CORP.
3002 W. Burleigh St., Milwaukee, Wis. (Tel. UPtown 1-9100)
Purch. Agent: G. J. Bethke
V. P.-Sales: A. W. Frank RD

HEWLETT-PACKARD CO.
275 Page Mill Rd., Palo Alto, Calif. (Tel. Davenport 5-4451)
Purch. Mgr.: O. B. Sundberg
Purch. Agents: D. W. Anderson & Shell Trosk
Sales Mgr.: Curt Von Rensselaer CT, RD

HEXACON ELECTRIC CO.
627 W. Cloy Ave., Roselle Park, N. J. (Tel. CHestnut 5-6200)
Purch. Agent: L. J. Wenzel
Sales Mgr.: J. L. Grindrod

HEXCEL PRODUCTS INC.
2332 Fourth St., Berkeley 10, Calif. (Tel. THornwall 3-4664)
Purch. Agent: R. J. Wedemyer
Buyer: M. V. Hess
Gen. Sales Mgr., Engineered Prod.: A. C. Marshall S, M

HEYMAN MFG. CO.
Kenilworth, N. J. (Tel. CHestnut 5-2345)
Purch. Agent: K. E. Fohnestock
Sales Mgr.: J. L. Halder M

HICKOK ELECTRICAL INSTRUMENT CO., THE
10544 Ou Pont Ave., Cleveland 8, Ohio (Tel. LI 1-8060)
Purch. Agent: Donald Cross
Buyers: James Ononov & James Sheil
Dir.-Mktg.: Oavid Hughes CT, TT

HICKS CORP., THE
872 Riverside Or., Asheville, N. C. (Tel. ALpine 3-5355)
Purch. Agents: John B. Sullivan & James Lipe
Exec. V. P.: Maurice Porter PS, RD

HI-G, INC.
Brodley Field, Windsor Locks, Conn. (Tel. NAtional 3-2481)
V. P.-Purch.: A. Mulova
Asst. Purch. Mgr.: S. Ptosznick
V. P.-Sales: R. H. Wood

HIGH SPEED HAMMER CO., INC., THE
313 Norton St., Rochester 21, N. Y. (Tel. COngress 6-6740)
Purch. Agent: G. W. Texter

HIGH VACUUM EQUIPMENT CORP., SUB.-ROBINSON TECHNICAL PRODUCTS, INC.
2 Churchill Rd., Hingham, Mass. (Tel. Rlview 9-2430)
Purch. Agent: Neil Reynougout
Sales Admin.: William B. White M

HIGH VOLTAGE ENGRG. CORP.
S. Bedford St., Burlington, Mass. (Tel. BR 2-1313)
Purch. Agent: Richard Chose
V. P. & Sales Mgr.: E. Alfred Burrill PS, RD

HIGHLAND ENGRG. CO.
1736 Berkeley St., Santo Monica, Calif. (Tel. UP 0-2541)
Asst. Gen. Mgr.: B. E. Alvey
Mgr., Purch.: W. Van Benschoten
Sales Mgr.: William Stratton MS, CT

HIGHWAY TRAILER CO.
250 Park Ave., New York 17, N. Y. (Tel. YUkon 6-9570); Edgerton, Wis. (Tel. EOGerton 194)
Purch. Agent: J. W. Shellnut
V. P.-Sales: C. A. Venske

E. VERNON HILL & CO.
P. O. Box 189, Lake Geneva, Wisc. (Tel. CHestnut 8-3729)
Pres.: N. Peterson M, CT

HILL ELECTRONICS, INC.
300 N. Chestnut St., Mechanicsburg, Pa. (Tel. POpplar 6-7611)

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- Purch. Agent: Donald Gross
Sales Mgr.: James A. Nickerson
G, TT
- HILLBURN ELECTRONIC PRODS. CO.**
55 Nossou Ave., Brooklyn 22, N. Y. (Tel. STagg 2-3875)
Purch.: B. S. Gilman
Sales: S. A. Shaw
- HILLIARD CORP., THE**
100 W. 4th St., Elmira, N. Y. (Tel. REgent 3-7121)
Purch. Agent: Carl Bauer
V. P.-Sales, Purifier Div.: T. A. Labrecque
V. P.-Sales, Clutch Div.: J. H. Fossett
- HILLS-McCANN CO.**
4600 W. Touhy Ave., Chicago 40, Ill. (Tel. DRchord 4-7080)
Purch. Agent: R. Schmidt
V. P.-Sales: R. I. Allen
PS, MS, M, G, RD
- HI-LO MANUFACTURING CORP.**
1122-26 W. Newport Ave., Chicago 13, Ill. (Tel. GRaceland 1-1890)
Pres.: F. J. Klancnik
Gen. Mgr.-Sales: E. A. Goncoe
- HINDE & DAUCH DIV.-WEST VIRGINIA PULP & PAPER**
407 Decatur St., Sandusky, Ohio (Tel. MA 5-6610)
Purch. Agent: Jay M. McGooker
Asst. Purch. Agent: Harold Sartorius
Regional Sales Mgrs.: Paul Roberts, Sandusky;
Ralph Joret, New York; Joseph Piemonte, Richmond, Va.; Calvin Race, Chicago
M
- HI Q DIV., AEROVOX CORP.**
Myrtle Beach, S. C. (Tel. HI 8-3191)
Purch. Agent: O. L. Gilbert
Asst. Purch. Agent: John French
Sales Mgr.: James Krumpf
M
- CARL HIRSCHMANN CO., INC.**
30 Park Ave., Manhasset, L. I., N. Y. (Tel. MA 7-5300)
Purch. Agent: Fred Johnson
Purch. & Sales: M. H. Koefler
- HI-SHEAR RIVET TOOL CO.**
2600 W. 247th St., Torrance, Calif. (Tel. SPruce 5-3181)
Purch. Agent: Stirling Sauder
V. P.-Sales: Guy Nash
S
- HI-SPEC ELECTRONICS CORP.**
7328 Ethel Ave., North Hollywood, Calif. (Tel. POplar 5-5075)
Pres.: John H. Mattson
Acting Purch. Agent: W. F. Ziegler (Tel. TRiangle 7-6519)
MS, G, CT, TT
- HI-SPEED EQUIPMENT, INC.**
63 Pond St., Waltham, Mass. (Tel. TWinbrook 3-6800)
Dir.-Sales: H. J. Cedrone
- HITCHINER MFG. CO. INC.**
P. O. Box 320, Milford, N. H. (Tel. MIlford 635)
Purch. Agent: Ralph Bodwell
Plant Engr.: L. Guertin
Gen. Mgr.: David Hoodley
Sales Mgr.: Edwin G. Chapman
S
- HITEMP WIRES, INC.**
1200 Shames Dr., Westbury, L. I., N. Y. (Tel. EDgewood 3-4600)
Purch. Agent: Patrick Hoade
Buyer: Robert Straus
V. P.-Sales: Christopher F. Wyer
MS, M
- HOBART BROTHERS CO.**
Habart Sq., Troy, Ohio (Tel. FEderal 2-1223)
Dir.-Purch.: B. A. Lutz
Sales Mgr.: E. C. Golbreath
PS, MS
- JOHN W. HOBBS CORP., DIV.-STEWART-WARNER CORP.**
P. O. Box 358, Springfield, Ill. (Tel. 8-7533)
Purch. Agent: P. W. Redieske
Gen. Sales Mgr.: B. D. Booth
- HOBBS MFG. CO.**
26 Salisbury St., Worcester 5, Mass. (Tel. PLessant 6-8361)
Purch. Agent: F. J. Woodberry
V. P. & Gen. Mgr.: Stewart F. Dakes
Gen. Sales Mgr.: H. K. Lambert
M, RD
- HOBSON BROTHERS, INC.**
4940 W. Lawrence Ave., Chicago 30, Ill. (Tel. Avenue 3-3600)
- Purch. Agent: H. L. Behm
Sales: Ray L. Hobson
M
- HOCKS LABS.**
935 N. E. Couch St., Portland 14, Ore. (Tel. BE 4-1388)
Dir.-Purch.: Art Austin
Sales Mgr.: W. G. Hacks
CT
- HOEFNER CORP.**
9720 Rush St., El Monte, Calif. (Tel. CUmberland 3-4138)
Purch. Agent: Arnold E. Tapie
V. P.-Sales: Grant W. Fredericks
PS, MS, G, RD
- P. R. HOFFMAN CO.**
321 Cherry St., Carlisle, Pa. (Tel. CHapel 3-2011)
Purch. Agent: Ralph J. Laury
Chemist: Warren J. Hunt
V. P.-Sales: Lean W. McGinnes
G
- HOFFMAN ELECTRONICS CO.**
1001 Arden Dr., El Monte, Calif. (Tel. CUmberland 3-7191)
Purch. Agent: Earl Schultz
Dir.-Sales: William De Sousa
G, TT
- HOFFMAN ELECTRONICS CORP., MILITARY PRODUCTS DIV.**
3761 S. Hill St., Los Angeles 7, Calif. (Tel. Richmond 7-4488)
Dir.-Material: R. A. Gingrich
Purch. Agent: Keith Douglas
Buying Supvr.: Burl Strong
MS, G, RD
- HOFFMAN ELECTRONICS CORP., SEMICONDUCTOR DIV.**
Solar & Transistor Products; 1001 N. Arden Dr., El Monte, Calif. (Tel. CUmberland 3-7191)
Diode & Rectifier Products; 930 Pitter Ave., Evanston, Ill. (Tel. UNiversity 9-2400)
Dir.-Purch.: Mrs. Dorothy Perkins
V. P.-Mktg.: G. W. DeSousa
G, CT, TT
- HOFFMAN ENGRG. CORP.**
9th & Tyler, Anoka, Minn. (Tel. HA 1-2240)
Supt.: Philip DeJarlais
Sales Mgr.: L. Bell
MS
- HOFMAN LABS., INC.**
5 Evans Terminal, Hillside, N. J. (Tel. ELizabeth 4-4016)
Pres.: G. F. Sulfron
Purch. Agent: Kay Krausse
MS, RD
- C. G. HOKANSON CO., INC.**
1240 Pontius Ave., Los Angeles 25, Calif. (Tel. GRonite 7-4231)
Exec. V. P.: R. H. Hilmer
Purch. Agent: H. L. Cooper
MS, CT, RD
- HOKE INC.**
#1 Tenakill Park, Cresskill, N. J. (Tel. LDwell 8-9100)
Dir.-Purch.: R. MacLollen
Sales Mgr.: R. J. Maady
S, MS
- A. F. HOLDEN CO., THE**
14341 Schoefer Hwy., Detroit 27, Mich. (Tel. BRoadway 3-5405)
Purch. Dept.: L. P. Atkins
Pres.: A. F. Holden
- *HOLEX, INC.**
2751 San Juan Rd., Hallister, Calif. (Tel. MErcury 7-5306)
V. P.-Operations: George H. Anderson
Dir.-Sales: J. W. Jones
PS, RD
*(See advertisement in this issue)
- HOL-GAR MFG. CORP.**
Clifton Heights, Pa. (Tel. MADison 6-6300)
Dir.-Purch.: H. Kessler
Purch. Dept.: M. Mandzick
Dir.-Sales: K. H. Hartz
MS
- HOLLEY CARBURETOR CO.**
11955 E. Nine Mile Rd., Warren, Mich. (Tel. JEffers 6-1900)
Dir.-Purch.: Robert W. Carbery
Sr. Buyer: E. J. Masar
V. P. & Dir.-Sales: J. C. Holley
PS, RD
- R. M. HOLLINGSHEAD CORP.**
840 Cooper St., Camden 2, N. J. (Tel. WDodlawn 4-7000)
Purch. Agent: Drville Timms
Mgr., Govt.-Aviation Div.: Charles W. Griffiths
M, RD
- HOLLINGSWORTH CO., SOLDERLESS TERMINAL DIV.**
Nutt & French Creek Rds., Phoenixville, Pa. (Tel. WEllington 3-8947)
- Purch. Agent: John J. Gress
Sales Mgr.: J. C. Ludwick
M
- HOLOPHANE CO., INC.**
342 Madison Ave., New York 17, N. Y. (Tel. MUrray Hill 2-5320)
Mgr., Customer Service: W. E. Horton
Sales Mgr.: Gene G. Rae
S
- HOLTZER-CABOT DIV., NATIONAL PNEUMATIC CO., INC.**
125 Amory St., Boston 19, Mass. (Tel. JAMaica 4-7000)
Purch. Agent: S. Coven
Sales Mgr.: E. B. Selig
MS, M
- HOLUB INDUSTRIES, INC.**
413 DeKalb Ave., Sycamore, Ill. (Tel. 2161)
Secy.-Treas.: A. R. Linden
V. P. & Sales Mgr.: Gordon W. Wetzel
- HOLYOKE WIRE & CABLE CORP.**
720 Main St., Holyoke, Mass. (Tel. JEfferson 3-3961)
Purch. Agent: Robert J. D'Cannor
Mgr.-Sales: G. T. Miles
- HOMALITE CORP., THE**
11-13 Brookside Dr., Wilmington, Del. (Tel. DL 2-6641)
Pres.: W. R. Hoover
Shop Foreman: Lawrence Rose
Dir.-Sales: Thomas J. Christeson
M
- HOMELITE, DIV.-TEXTRON INC.**
Riverdale Ave., Port Chester, N. Y. (Tel. WEstmore 9-3400)
Purch. Agent: John Clark
Sales Mgr.: R. P. Straetz
MS
- O. HOMMEL CO., THE**
P. O. Box 475, Pittsburgh 30, Pa. (Tel. WA 1-1194)
Purch. Agent: W. E. Stairs
Pres.: E. M. Hammel
M
- HONEYCOMB CO. OF AMERICA, INC.**
1225 Connecticut Ave., Bridgeport 7, Conn. (Tel. EDison 4-3155)
Purch. Agent: John Martin
V. P.-Sales: F. J. Quinlan
S, M
- LUDWIG HONOLD MFG. CO.**
Chester Pike & Falcroft Ave., Falcraft, Pa. (Tel. ULdow 3-6800)
Purch. Agent: Robert Stobb
Contract Adm.: Nicholas Melnjok
V. P.-Sales: William H. Kerchner
- HONTI ENGRG. & MFG. CO.**
1410 De Latorre Way, Los Angeles 23, Calif.
Purch. Agent: Walter Walker
Dir.-Sales: Joseph Honti
- HOOSIER TARPULLIN & CANVAS GOODS CO., INC.**
P. D. Box 574, Indianapolis 6, Ind. (Tel. MEtrase 2-9451)
V. P.-Sales: Robert T. Goldberg
S, M
- HOOVER ELECTRIC CO.**
2100 S. Stoner Ave., Los Angeles 25, Calif. (Tel. BRadshaw 2-3125)
Purch. Agent: L. Rinnie
Gen. Mgr.: Paul Cedwood
MS, G
- HOOVER ELECTRONICS CO.**
110 W. Timonium Rd., Timonium, Md. (Tel. CLearbrook 2-4000)
Purch. Agent: Charles Stigler, Sr.
V. P. & Gen. Mgr.: A. J. W. Navak
MS, G, CT, TT
- HOPKINS ENGRG. CO.**
12900 Foothill Blvd., San Fernando, Calif. (Tel. EMpire 1-8691)
Exec. V. P.-Purch.: Langdon Parrill
V. P.-Purch.: Roland Duquette
Pres.: Chorus Wieland
Sales Mgr.: John Schlenker
- HORIZONS INC.**
2905 E. 79th St., Cleveland 4, Ohio (Tel. BRoadway 1-1600)
Dir.-Sales: John Cameron
- *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.**
24660 S. Crenshaw Blvd., Torrance, Calif. (Tel. SP 5-1211)
Chief, Purch. Dept.: L. Henriksen
Purch. Agent: B. Brazel
V. P.-Develop. Planning: R. C. Chilton
S, MS, CT, RD
*(See advertisement in this issue)
- WILLIAM I. HORLICK CO., INC.**
266 Summer St., Boston 10, Mass. (Tel. HANcock 6-2480)

V. P.-Purch.: Paul H. Horlick
Gen. Mgr.: Robert C. Horlick M

HORSEY, ROBSON & CO. INC.
5511 5th Ave., New York 17, N. Y. (Tel. MU 7-1332)
Pres.: O. H. Harsey
Gen. Mgr.: R. K. Robson S, M

HOSKINS MFG. CO.
4445 Lawton Ave., Detroit 8, Mich. (Tel. TYler 5-2860)
Purch. Agent: R. J. Stefanac
V. P.-Mktg.: R. I. Crotch M

HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.
537 E. Oelovan Ave., Buffalo, N. Y. (Tel. Fillmore 8000)
Purch. Agent: V. E. Lasker
Buyer: W. E. Thompson
Gen. Mgr. & Dir.-Sales: E. L. Spencer

E. F. HOUGHTON & CO.
303 W. Lehigh Ave., Philadelphia 33, Pa. (Tel. RE 9-7100)
Dir.-Purch.: H. B. Fox
Purch. Agent: C. F. Kalmbach
V. P.-Sales: Frank Ross M

HOUSTON FEARLESS CORP.
11801 W. Olympic Blvd., Los Angeles 64, Calif. (Tel. BRadshow 2-4331)
Dir.-Prod. & Material: William Katana
Purch. Agent: F. J. Garcia
Sales Mgr.: A. J. Kjonvtedt MS, RD

HOUSTON INSTRUMENT CORP.
P. O. Box 22234, Houston 27, Texas (Tel. MOhawk 7-7405)
Purch. Agent & Sales Mgr.: George H. Mare
Pres.: E. V. Hardway, Jr.
V. P. & Chief Engr.: E. E. Crump CT

HOWE SCALE CO., THE
Rutland, Vt. (Tel. PR 5-5541)
Gen. Purch. Agent: R. L. Hendee
Gen. Sales Mgr.: F. E. Pringle, Jr.

HOYT ELECTRICAL INSTRUMENT WORKS, INC., BURTON ROGERS CO.
42 Carleton St., Cambridge 42, Mass. (Tel. ELliot 4-1643)
Mgr.-Purch.: O. A. Hoyt, Penacook, N. H. (Tel. PLaza 3-6321) M, RD

HUBBARD-ANTISDEL, INC.
155 E. Silver Spring Or., Milwaukee 17, Wis. (Tel. EO 2-7620)
Pres.: A. W. Hubbard
V. P.-Purch.: R. L. Antisdel
Sales Rep.: Art Beck

HUCK MFG. CO.
2480 Bellevue Ave., Detroit 7, Mich. (Tel. WAInut 3-4500)
Purch. Agent: Leland W. Fox
V. P.-Sales: George Q. Mathews

HUDSON TOOL & DIE CO., INC.
18 Malvern St., Newark 5, N. J. (Tel. MA 4-1802)
Purch. Agent: William Herbert
Sales Mgr.: Ernest Isler M

HUDSON WIRE CO.
62 Water St., Ossining, N. Y. (Tel. Willson 1-8500)
Plant Mgr.: J. T. Simmons
Gen. Sales Mgr.: W. H. Elliott
Plant Mgr.: H. V. Kovacs, Winsted, Conn. (Tel. FRontier 9-3341)
Plant Mgr.: K. McNagney, Cassopolis, Mich. (Tel. Hicky 5-2424) M

HUFFORD CORP., THE
1700 E. Grand Ave., El Segundo, Calif. (Tel. ORegon 8-6221)
Purch. Agent: A. H. Knight
Buyers: Frank Frazee & Maurice Hogberg

HUGGINS LABS., INC.
999 E. Arques Ave., Sunnyvale, Calif. (Tel. RE 6-9330)
Purch. Agent: H. O. Harting
Sales Mgr.: V. O. Varenhorst RD

HUGHES AIRCRAFT CO.
Culver City, Calif. (Tel. TEexas 0-7111)
Missile Mfg. Div.: P. O. Box 5555, Tucson, Ariz. (Tel. MAin 4-2711)

HUGHES ELECTRONICS CO.
5343 Crenshaw Blvd., Los Angeles 43, Calif. (Tel. AX 4-2422)
Dir.-Purch.: Nancy Ovoid
Pres.: E. E. Hughes MS, RD

HUGHES PRODUCTS GROUP, HUGHES AIRCRAFT CO., SEMICONDUCTOR DIV.
International Airport Sto., Los Angeles 45, Calif. (Tel. ORchard 2-5011)
Sales Mgr.: H. K. Mann

HUGHES SEMICONDUCTOR DIV., HUGHES AIRCRAFT CO.
500 Superior Ave., Newport Beach, Calif. (Tel. LI 8-0671)
Purch. Agent: Ralph Hoaver
Sales Mgr.: W. H. Gray

HUGHES TOOL CO., AIRCRAFT DIV.
Florence & Teale Sts., Culver City, Calif. (Tel. UPTon 0-7111); 260 W. Beach Ave., Inglewood 3, Calif. (Tel. ORegon 8-7181)
Dir.-Purch.: Milton E. Taylor
Asst. Dir.-Purch.: H. W. Oominisse
Sr. Buyer, Prod.: J. L. Tiltmus
Sr. Buyer, Non-Prod.: R. L. Jones
Dir.-Customer Relations & Contracts: A. W. Boyer (Tel. UPTon 0-7111) S, PS, MS, M, CT, RD

HUGHEY & PHILLIPS, INC.
3200 N. San Fernando Blvd., Burbank, Calif. (Tel. VICToria 9-1104)
Purch. Agent: Larry K. Croddack
V. P. & Gen. Mgr.: J. H. Ganzenhuber M

HUMAN SCIENCES RESEARCH, INC.
1408 N. Fillmore St., The Clarendon Bldg., Arlington 1, Va. (Tel. JACkson 4-3606)
Pres.: Or. M. Oeon Havron
Bus. Adminstr.: Mrs. Charlotte L. Brewer HSE

HUMIDAL CO.
465 Mt. Vernon Ave., Colton, Calif. (Tel. TALbat 5-1793)
Pres.: W. C. Blinn
V. P.: B. G. Blinn M

HUMMEL CHEMICAL CO., INC.
90 West St., New York 6, N. Y. (Tel. BARclay 7-6630)
Dir.-Purch.: Jos. B. Wiley, Jr.
Sales Mgr.: James M. Vreeland RD

HUMPHREY, INC., ELECTRO MECHANICAL INSTRUMENTS
2808 Canon St., San Oiega 6, Calif. (Tel. ACademy 3-1654)
Purch. Agent: O. C. DeVries
V. P.: R. J. Rutherford
Contracts Admin.: R. E. Traxel
Pres.: P. E. Humphrey G, TT, RD

PHILIP A HUNT CO.
Roosevelt Pl., Palisades Park, N. J. (Tel. WInsdor 4-4000)
Purch. Agent: T. L. Collins
Gen. Sales Mgr.: John R. Banniwell M

HUNT CORP., THE
453 Lincoln St., Carlisle, Pa. (Tel. CHapel 9-2232)
Gen. Mgr.: Samuel Rysky
Sales Mgr.: Ronald Keams G, TT

HUNTER MFG. CO.
30525 Aurora Rd., Cleveland 39, (Solon), Ohio (Tel. CHurchill 8-6111)
Purch. Agent: J. C. Wolfe
Sales Mgr.: Warren A. Miller MS, RD

HUNTER SPRING CO., DIV.-AMERICAN MACHINE & METALS, INC.
One Spring Ave., Lansdale, Pa. (Tel. Ulysses 5-6815)
Purch. Agent: Horace Machado
Sales Mgr.: G. O. Bennett M, CT

HUNTER TOOL CO.
9851 Alburts Ave., Santa Fe Springs, Calif. (Tel. OX 2-7231)
Purch. Agent: O. O. Melstrom
V. P.-Sales: R. N. Hunter, Jr. RD

HUNTER-DOUGLAS ALUMINUM CORP.
3017 Kansas Ave., Riverside, Calif.
Chief Purch. Agent: Mrs. Agnes Imler
Dir.-Sales: J. S. OuVol

HUNTINGTON ALLOY PRODUCTS DIV., THE INTERNATIONAL NICKEL CO., INC.
67 Wall St., New York 5, N. Y. (Tel. WHitehall 4-1000)
V. P.-Sales: J. A. Marsh M

HUNTINGTON RUBBER MILLS
7100 S. W. Macadam Ave., Portland, Ore. (Tel. CHerry 4-7535)
Chief Purch. Agent: Mrs. Agnes Imler
Dir.-Sales: J. S. OuVol

HUPP AVIATION DIV., HUPP CORP.
6633 W. 65th St., Chicago 38, Ill. (Tel. PO 7-2100)
Purch. Agent: James Bovis
Buyers: Charles Rydbert & Robert Zvitkovits
Sales Mgr.: Kenneth M. Spurgeon S, PS, MS

HUPPERT, K. H., CO.
6830-40 Cottage Grove Ave., Chicago 37, Ill. (Tel. Midway 3-4770)
Pres.: K. H. Huppert
V. P.: R. A. Hostings
Sales Mgr.: W. J. Pattersan
Plant Mgr.: James Matias

C. G. HUSSEY & CO., DIV.-COPPER RANGE CO.
2850 Second Ave., Pittsburgh 19, Pa. (Tel. GRant 1-3650)
V. P.-Purch.: R. W. Myers
Asst. Purch. Agent: J. F. Pierce
V. P.-Sales: J. G. McNeely M

HUTCHENS & SON METAL PRODUCTS, INC.
1355 S. S. S., Springfield, Ma. (Tel. UN 2-5012)
Purch. Agent: B. G. King
V. P.-Sales: Lewis G. Hutchens

HUYCK SYSTEMS CO.
360 Wolf Hill Rd., Huntington Station, N. Y. (Tel. HAmilton 7-7500)
Purch. Agent: Al Fritz
Subcontract Buyer: Jim Radin
Buyer: Edw. Stackus
Mktg. Mgr.: Louis C. Prisca MS, G, CT, TT, RD, HSE

WALTER J. HYATT CO., THE
P. O. Box 943, Beverly Hills, Calif. (Tel. BRadshow 2-2844)
Sales: Walter J. Hyatt MS, RD

HYATT BEARINGS DIV., GENERAL MOTORS CORP.
Harrison, N. J. (Tel. HUmboldt 4-4000)
Purch. Agent: L. V. Farrell
Sales Mgr.: J. R. Gilmartin

HYCON EASTERN INC.
75 Cambridge Pkwy., Cambridge 42, Mass. (Tel. UNiversity 4-7200)
Purch. Agent: W. Senior
V. P.-Operations-Sales: J. R. Martin

HYCON MFG. CO.
1030 S. Arroyo Pkwy., Pasadena, Calif. (Tel. SYcamore 9-4171)
Mgr.-Proc.: Al Curry
Mgr.-Customer Rel.: M. J. Leonard
Buyers: F. Sizinski, Chuck Schultz & Harold Held

HYDRA-POWER CORP.
10 Pine Court, New Rochelle, N. Y. (Tel. NE 2-2200)
Purch. Agent: J. Tranas
V. P.-Sales: E. O. Holland S, MS, G, CT, RD

HYDRAULIC PRESS MFG. CO., THE, DIV.-KOEHRING CO.
Marion Rd., Mt. Gilead, O. (Tel. 9351)
Dir.-Purch.: Carl A. Fisher
V. P.-Sales: E. L. Oehling

HYDRAULIC RESEARCH & MFG. CO.
2835 N. Naomi St., Burbank, Calif. (Tel. VICToria 9-6111)
Purch. Agent: F. T. Arthur
Sales Mgr.: H. H. Kappenhofer MS

HYDRAULICS, INC.
1831 S. Boulevard, Parsons, Kans. (Tel. 674)
Purch. Agent: H. P. Baner
V. P. & Gen. Mgr.: N. W. Brandeberry M

HYDRO MOLDING CO. INC.
100 Shoran Ave., Plattsburgh, N. Y. (Tel. 2598)
V. P.-Purch.: M. A. Robin S

HYDRO-AIRE CO., DIV.-CRANE CO.
3000 Winona Ave., Burbank, Calif. (Tel. VICToria 9-1331)
Purch. Agent: C. E. Lenox
V. P.-Sales: Frank Cooper

***HYDRODYNE CORP.**
7350 Coldwater Canyon Ave., North Hollywood, Calif. (Tel. POPlar 5-8001)
Purch. Agent: Oick Zabner
Dir.-Mktg.: G. L. Murphy PS, MS, RD
(See advertisement this issue)

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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HYDROMATICS, INC.

70 Okner Blvd., Livingston, N. J. (Tel. WYman 2-4900)
 Pres.: Bernard Moss
 V. P.: Hannison Britton
 Asst. Sales Mgr.: Austin Platt
 Purch. Agent: Don Moran, Naylon Ave., Livingston, N. J. (Tel. WYman 2-0556) PS, MS, CT, RD

HY-PRO TOOL CO.

461 Mt. Pleasant St., New Bedford, Mass. (Tel. WYman 6-5656)
 Dir.-Purch.: Philip J. Morgan
 Purch. Agent: Edward Pettengill
 V.P. & Sales Mgr.: Robert A. Smith M

HYSTER CO.

2902 N. E. Clackamas St., Portland 8, Ore. (Tel. ATlantic 8-5011)
 Purch. Agent: Paul Rhodes
 Gen. Sales Mgr.: Robert F. Moody MS

IERC DIV., INTERNATIONAL ELECTRONIC RESEARCH CORP.

145 W. Magnolia Blvd., Burbank, Calif. (Tel. Victoria 9-2481)
 Purch. Agent: Philip T. Solomon
 V. P.: John E. Markley, Jr.
 Admin., Tech. Sales: Walter R. England

ILG ELECTRIC VENTILATING CO.

2850 N. Puloski Rd., Chicago 41, Ill. (Tel. Kilbuck 5-1520)
 V. P. I/C Purch.: S. E. Heyerick
 Exec. V. P.: J. J. Friedler, Jr.

I-L-S INSTRUMENT DIV., THE MERIAM INSTRUMENT CO.

4525 W. 160th St., Cleveland 35, Ohio (Tel. Clearwater 2-3850)
 Purch. Agent: M. E. Saltsgover
 Sales Mgr.: P. W. McCraven CT

IMC MAGNETICS CORP.

570 Main St., Westbury, L. I., N. Y. (Tel. Edgewood 4-7070)
 Purch. Agent: M. Cuffari
 V. P.-Sales: G. Egan

I-T-E CIRCUIT BREAKER CO., SPECIAL PRODUCTS DIV.

601 E. Erie Ave., Philadelphia 34, Pa. (Tel. GARfield 6-5700)
 Purch. Agent: W. Manning
 Sales Mgr.: R. K. Johnson S, PS

ITI ELECTRONICS, INC.

369 Lexington Ave., Clifton, N. J. (Tel. GREgory 3-0900)
 Purch. Agent: Joseph Weinberg
 Sales Mgr.: R. J. Harrington CT, TT

ITT COMPONENTS DIV., INTERNATIONAL TELEPHONE & TELEGRAPH CORP.

100 Kingsland Rd., Clifton, N. J. (Tel. NOrth 7-3600)
 Sr. Buyer: R. A. Thomson
 Buyer: M. Donovan
 Sales Mgr.: R. W. Deutsch MS

ITT FEDERAL DIV., INTERNATIONAL TELEPHONE & TELEGRAPH CORP.

100 Kingsland Rd., Clifton, N. J. (Tel. NOrth 7-3600)
 Purch. Mgr.: H. E. Giese
 Mgrs., Material: A. A. Kinsey & J. E. Loveless
 V. P.-Sales: T. M. Douglas MS, G, CT, TT

ITT LABS.

500 Washington Ave., Nutley, N. J. (Tel. NOrth 1-1100)

ITT LABS.

3700 Pontiac St., Fort Wayne, Ind. (Tel. EAStbrook 7571)
 Mgr.-Purch.: Walter Pitts
 Purch. Agent: Monroe W. Brosius MS, G, CT, TT, RD

ICONIX INC.

945 Industrial Ave., Palo Alto, Calif. (Tel. DAVenport 3-1411)
 Pres.: Dr. N. L. Poppas CT, RD

IDEAL-AEROSMITH, INC., DIV.-ROYAL INDUSTRIES, INC.

3913 Evons Ave., Cheyenne, Wyo. (Tel. 7-7715)
 Purch. Agent: F. E. Wheelhouse
 Exec. V. P.-Sales: William Lush MS, G, CT, RD

IDEAL INDUSTRIES, INC.

1427 Pork Ave., Sycamore, Ill. (Tel. 2114)
 Purch. Agent: Robert D. Voss
 Gen. Sales Mgr.: Gordon B. Koch

IDEAL PRECISION METER CO., INC.

214-218 Franklin St., Brooklyn 22, N. Y. (Tel. EVergreen 3-6904)
 V. P.: Charles Bernstein
 Pres.: Harry Leiderman M, RD

ILLINOIS TESTING LABORATORIES, INC.

420 N. LaSalle St., Chicago 10, Ill. (Tel. WHitehall 3-1331)
 Purch. Agent: J. M. Lajko
 V. P.-Sales: M. J. Rauscher MS

ILLINOIS ZINC CO., DIV.-HYDROMETALS, INC.

2959 W. 47th St., Chicago 32, Ill. (Tel. LAfayette 3-1600)
 V. P.-Purch.: L. F. Johnson
 Chief Engr.: A. S. Wallin
 V. P.-Sales: W. F. Synnott

ILLUMITRONIC ENGRG. CO.

680 E. Taylor, Sunnyvale, Calif. (Tel. REgent 9-2395)
 Purch.: Wm. W. Smith
 Sales Mgr.: Joe D. Giulie M

IMAGE INSTRUMENTS, INC.

2300 Washington St., Newton Lower Fells 62, Mass. (Tel. BI 4-2256)
 V. P.-Operations: W. W. Bemis
 Dir.-Sales: Lester C. Smith CT

IMPACT-O-GRAPH CORP., THE

1900 Euclid Ave., Cleveland, Ohio (Tel. CHerry 1-5838)
 Pres.: W. S. Mielziner MS, CT, RD

IMPERIAL BRASS MFG. CO., THE

6300 W. Howard St., Chicago 31, Ill. (Tel. SPRing 4-1700)
 Purch. Agent: W. B. Burnet
 V. P. & Dir.-Mkts.: G. J. Duerr M

IMPERIAL OIL & GREASE CO., INC.

6505 Wilshire Blvd., Los Angeles 48, Calif. (Tel. OLive 3-2250)
 Secy.-Treas.: A. C. Parkinson M

IMTRA CORP.

11 University Rd., Cambridge 38, Mass. (Tel. UN 4-4350)
 Pres.-Sales: William H. Farnham M

INDIANA GEAR WORKS, INC.

1458 E. 19th St., Indianapolis 7, Ind. (Tel. MEIrose 8-2331)
 Proc. Mgr.: Paul M. Dirks
 Mkts. Mgr.: G. R. Shields PS, MS, CT

INDIANA STEEL PRODUCTS, DIV.-INDIANA GENERAL CORP.

405 Elm St., Valparaiso, Ind. (Tel. HOward 2-3131)
 Purch. Agent: W. F. Eckert
 V. P.-Sales: P. M. Wheeler M

INDIANA STEEL & WIRE CO., INC.

2200 E. Jackson St., Muncie, Ind. (Tel. AT 8-3601)
 Purch. Agent: S. W. Holmes
 Mgr.-Sales: James L. Galbraith M

INDUM CORP. OF AMERICA, THE

1676 Lincoln Ave., Utica, N. Y. (Tel. SWift 7-1630)
 V. P.-Purch. & Sales: J. R. Dyer, Jr. M

INDUCTION HEATING CORP.

181 Wythe Ave., Brooklyn 11, N. Y. (Tel. EVergreen 4-3110)
 Dir.-Purch.: Arthur J. Slobin
 Sales: Thomas J. Stanton RD

INDUSTRIAL ACOUSTICS CO., INC.

341 Jackson Ave., New York, N. Y. (Tel. CYpress 2-0180)
 Purch. Agent: Les Braverman
 V. P.-Sales: A. C. Hawthorne PS, CT, RD

INDUSTRIAL CONTROL CO.

Central Ave. at Pinelawn, Farmingdale, L. I., N. Y. (Tel. MYrtle 4-3000)
 Dir.-Purch.: F. Seymour
 Chief Engr.: G. M. Attura
 Dir.-Sales: E. Vigliotti MS, G, CT, TT, RD

INDUSTRIAL DEVICES, INC.

Edgewater, N. J. (Tel. WHitney 3-4084)
 Purch. Agent: G. E. Mesnick
 Sales Mgr.: N. J. Seiden M

INDUSTRIAL ELECTRONIC ENGINEERS, INC.

5528 Vineland Ave., North Hollywood, Calif. (Tel. TRiangle 7-1444)
 Purch. Agent: Paul F. Kelly
 Gen. Mgr.: John Hendricks
 Sales Mgr.: John J. Bylo CT, RD

INDUSTRIAL ENGRG. CORP.

525 East Woodbine, Louisville 8, Ky. (Tel. MEIrose 4-3601)
 Project Engr.: Floyd B. Simpson
 V. P.-Purch.: Clyde Walker
 Coordinator: Tom Hutson CT

INDUSTRIAL ENGRAVERS INC.

2212 McDonald Ave., Brooklyn 23, N. Y. (Tel. HIckory 9-3200)
 Pres.: J. Zatzkin G, TT

INDUSTRIAL EQUIPMENT DIV., BALDWIN LIMA HAMILTON CORP.

Philadelphia 42, Pa. (Tel. SARatoga 6-9300)
 Dir.-Purch.: J. G. Swanberg
 Gen. Sales Mgr.: G. H. Lynn S, MS, RD

INDUSTRIAL FILTER & PUMP MFG. CO.

5900 Ogden Ave., Cicero 50, Ill. (Tel. OL 2-8700)
 Purch. Agent: Charles Prusaitis
 Gen. Sales Mgr.: James F. Zieveks CT

INDUSTRIAL INSTRUMENTS INC.

89 Commerce Rd., Cedar Grove, N. J. (Tel. CEnter 9-6200)
 Purch. Agent: P. Frazza
 Sales Mgr., Elec. Test: R. Mac Auley
 Sales Mgr., Electro Chemical: J. Williamson MS, CT

INDUSTRIAL METAL PROTECTIVES, INC.

401 Homestead Ave., Dayton 8, Ohio (Tel. BALdwin 2-6747)
 Dir.-Purch.: Mrs. Nancy Sheets
 V. P.-Engrs.: J. R. Fisher, Jr.
 Dir.-Sales: J. E. Berman S, MS, M

INDUSTRIAL MICA CORP.

223 S. Van Brunt St., Englewood, N. J. (Tel. L OWell 8-7200)
 Gen. Mgr.: Norman J. Bottie
 Sales Mgr.: Arthur A. Bottie

INDSL. PROD.-DANBURY KNUDSEN DIV.-AMPHENOL-BORG ELECTRONICS CORP.

Danbury, Conn. (Tel. PLioneer 3-9271)
 Mgr.-Prod. Control: Albert A. Marvin
 Buyers: Walter Loesch, Theodore Davis
 Sales Mgr.: Norman Cresci

INDUSTRIAL RETAINING RING CO.

57 Cordier St., Irvington, N. J. (Tel. WAverly 6-5000)
 Purch. Agent: V. A. Stabile

INDUSTRIAL SYSTEMS CO.

32 Main St., Matawan, N. J. (Tel. LO 6-4660)
 Purch. Agent: J. B. Freeman
 Dir.-Sales: H. M. Sawdith

INDUSTRIAL TEST EQUIPMENT CO.

55 E. 11th St., New York, N. Y. (Tel. GR 3-4684)
 Purch. Agent: Walter Meyer
 Sales Mgr.: Melvin Schreibman MS, RD

INDUSTRIAL TIMER CORP.

1407 McCarter Hwy., Newark, N. J. (Tel. HUmbolt 4-5600)
 Purch. Agent: J. M. Ravelle
 Sales Mgr.: Kenneth Kraemer M

INDUSTRIAL TOOLS MFG. CORP., SUB.-PENDLETON TOOL INDUSTRIES, INC.

8150 Marbrisa Ave., Huntington Pk., Calif. (Tel. LUdlow 3-4301)
 Purch. Agent: H. O. Grass (Tel. LUdlow 3-5655)
 Sales Engr.: G. M. Fishering (Tel. LUdlow 3-5655)
 Sales Mgr.: H. D. Norton MS

INDUSTRIAL TRANSFORMER CORP.

Gouldsboro, Pa. (Tel. VI 2-2111); 1001 N. W. 163rd Dr., Miami 69, Fla.
 Purch. Agent: J. B. Smith
 Sales Mgr.: S. Lundy

INDUSTRO TRANSISTOR CORP.

35-10 36th Ave., Long Island City 6, N. Y. (Tel. EXeter 2-8000)
 Exec. V.P.-Prod. & Mfg.: Archie McDougall
 Purch. Agent: Vincent Rossano
 Gen. Mgr.: Ira R. Becker G, CT, RD

INDUSTRON CORP.

55 Needham St., Newton 61, Mass. (Tel. DE 2-1477)
 Purch. Agent: Frank Lanchantin
 Dir.-Sales: Harold Gerber S, MS, RD

INERTIA SWITCH, INC.

311 West 43rd St., New York 36, N. Y. (Tel. JUdson 6-5880)
 Purch. Agent: A. Kheredjian
 Sales Mgr.: J. Grill

INFERNO MFG. CORP.

Box 7067, 115 Ricou, Shreveport, La. (Tel. 2-7498)
 V.P.-Purch. & Sales: T. R. Webb

INFRARED INDUSTRIES, INC.
62 Fourth Ave., Waltham 54, Mass. (Tel. TWinbrook 3-5400)
Gen. Sales Mgr.: E. D. Reddan
Purch. Agent: George Howard MS, G, CT, RD

INGERSOLL KALAMAZOO DIV., BORG-WARNER CORP.
1810 N. Pitcher St., Kalamazoo, Mich. (Tel. Flreside 5-3501)
Dir.-Proc.: Harry E. Morse, 760 E. Vine St., Kalamazoo, Mich. (Tel. Flreside 2-0136)
Purch. Agent: E. M. Anderson, 760 E. Vine St.
Buyers: D. S. McQueen, E. J. Ries & L. D. Poyne, 760 E. Vine St.
V. P. & Dir.-Defense Sales: A. S. Mrozek

INGRAHAM CO., THE
392 North Main St., Bristol, Conn. (Tel. LUdlow 2-6321)
Purch. Agent: B. I. Downs
V.P.-Sales: Allen W. Rork

INSCO CO., DIV.-BARRY CONTROLS INC.
Hollis St., Groton, Mass. (Tel. Gilbert 8-6358)
Gen. Mgr.: David L. Ammen CT, TT, RD

INSO ELECTRONIC PRODUCTS, INC.
1200 Commerce Ave., Union, N. J. (Tel. MUrdock 6-4258) M

INSTRON ENGRG. CORP.
2500 Washington St., Canton, Mass. (Tel. CAnton 6-2500)
Purch. Agent: Torey Montesi
Buyer: Leo Quintiliani
Sales Mgr.: E. J. Tolle M, RD

INSTRULAB, INC.
1205 Lamar St., Dayton 4, Ohio (Tel. BA 3-2241)
V.P.: Stanley I. Tekamp CT

INSTRU-LEC CORP.
520 Homestead Ave., Mt. Vernon, N. Y. (Tel. MDunt Vernon 8-3754)
Pres.: Russell Hobert MS, G

INSTRUMENT CORP. OF FLA.
P. O. Box 1226, Melbourne, Fla. (Tel. PArkway 3-8112)
Buyer: E. M. Reley
Contract Adm.: Robert Walker

INSTRUMENT DEVELOPMENT LABS., INC.
67 Mechanic St., Attleboro, Mass. (Tel. ATtleboro 1-3880)
Purch. Agent: William Pendergast
Buyer: Robert Comstock
Gen. Sales Mgr.: George P. Bentley G, TT, RO

INSTRUMENT DIV., THE W. L. MAXSON CORP.
475 Tenth Ave., New York 18, N. Y. (Tel. LONagore 5-1900)
Purch. Agent: J. N. Tsagaris
Dir. Mgr.: J. R. Coleman G

INSTRUMENT ELECTRONICS CORP.
P. O. Box 830, Port Washington, N. Y. (Tel. PO 7-4242)
Pres.: E. Huckenbeck

INSTRUMENT LABS.
315 W. Walton Place, Chicago 10, Ill. (Tel. MIchigan 2-0123)
Dir.-Purch.: John R. Fouser
Dir.-Sales: H. Taylor CT, RO

INSTRUMENT RESISTORS CO.
1036 Commerce Ave., Union, N. J. (Tel. MUrdock 6-4363)
Office Mgr.: P. Bargerstock
Plant Mgr.: Howard G. Melick M

INSTRUMENTATION ASSOCIATES, INC.
17 W. 60th St., New York 23, N. Y. (Tel. Circle 5-5590)
Dir.-Purch.: Sol Bernstein
Dir.-Sales: William Gruen RO, HSE

INSTRUMENTS DIV., THE BUOO CO.
P. O. Box 245, Phoenixville, Pa. (Tel. WE 3-8965)
Plant Mgr.: George Pron
Purch. Agent: A. Abrams
Sales Mgrs.: Henry Cook & A. V. Kelley CT, RO

INSTRUMENTS FOR INDUSTRY, INC.
101 New South Rd., Hicksville, N. Y. (Tel. OVerbrook 1-7100)
Contracts Admin.: John T. Daley
V. P.-Sales: Robert C. Lockwood CT, TT, RO

INSULATION MFRS. CORP.
565 W. Washington Blvd., Chicago 6, Ill. (Tel. CEntrol 6-7320)
Exec. V. P.: A. S. Gray

Asst. V. P.: J. H. Martin
V. P.: B. F. McNamara M

INTEGRAL CORP.
100 Frank Road, Hicksville L. I., N. Y. (Tel. WElls 1-4099)
Purch. Agent: William Sheo
V. P.-Sales: J. Kendall PS, MS, M

INTEGRATED DYNAMICS DIV., GLOBE INDUSTRIES, INC.
711 San Mateo Blvd., S.E., Albuquerque, N.M. (Tel. AM 8-0324)
Purch. Agent: B. Juliette Tolman
Chief Engr.: Kenneth E. Pope
Prod. Control: Bill Maxwell G, TT

INTERCONTINENTAL DYNAMICS CORP.
170 Coolidge Ave., Englewood, N. J. (Tel. LOwell 7-3600)
Purch. Agent: Harold White
Sales Mgr.: F. M. Winnai CT, RD

INTERCONTINENTAL ELECTRONICS CORP.
1551 Franklin Ave., Mineola, N. Y. (Tel. Pioneer 6-5010)
Dir.-Mktg.: Leonard Goldman
Purch. Agents: John Lacci & William McBride, 100 Shames Dr., Westbury, N. Y. (Tel. EDgewood 4-2800) MS, G

INTERCONTINENTAL MFG. CO., INC.
Amundsen Road, P. D. Box 949, Gorland, Texas (Tel. BRoadway 6-5131)
Dir.-Purch.: L. D. Barnhill
Mgr., Contract Admin.: R. E. Tarpley S, MS, RD

***INTERELECTRONICS CORP.**
2432 Grand Concourse St., New York 58, N. Y. (Tel. LUdlow 4-6200)
Purch. Agent: M. L. Lewis
Sales Mgr.: M. H. Pintell
*(See advertisement this issue)

INTERFERENCE MEASUREMENT LABORATORY, INC.
907 E. 51st St., Brooklyn 3, N. Y. (Tel. INGersoll 9-1765)
Purch. Agent: E. N. Sonds CT, RD

INTERLAKE STAMPING CORP.
12415 Euclid Ave., Cleveland 6, Ohio (Tel. SWeetbriar 1-7101)
Pres.: Wayne Greenstein M

INTERNATIONAL Balsa CORP.
86 Boyd Ave., Jersey City 4, N. J. (Tel. HENDERSON 4-2044)
V. P.-Purch.: Samuel Greenhouse
Exec. V. P.-Sales: Prem Gary M

INTERNATIONAL BUSINESS MACHINES CORP., FEDERAL SYSTEMS DIV.
326 E. Montgomery Ave., Rockville, Md. (Tel. GARDner 4-6700)

INTERNATIONAL ELECTRIC INDUSTRIES, INC.
468 Grand Ave., Brooklyn 38, N. Y. (Tel. NEVins 8-0211)
Purch. Agent: William Auslander
Chief Engr.-Purch.: John H. Tonges, Jr.
Sales Mgr.: Leo Margold

INTERNATIONAL ELECTRONIC INDUSTRIES, INC.
Corner Berry & Fessey Roads, P. O. Box 9036, Nashville, Tennessee (Tel. CYpress 8-4411)
Purch. Agent: W. W. Dick
National Sales Mgr.: A. M. Rowley

INTERNATIONAL ELECTRONIC RESEARCH CORP.
145 W. Magnolia Blvd., Burbank, Calif. (Tel. VICTORIA 9-2481)
Purch. Agent: Phillip Solomon
Exec. V. P.: John E. Markley, Jr.
Sales Mgr.: John Foster MS, CT, TT

INTERNATIONAL ELECTRONICS CORP., MULLARO PRODUCTS
81 Spring St., New York 12, N. Y. (Tel. WD 6-0790)
Purch. Agent: I. Letztman
V. P.-Sales: E. J. Portzo TT, RO

INTERNATIONAL EQUIPMENT CO.
1284 Soldiers Field Rd., Boston, Mass. (Tel. STadium 2-7900)
Purch. Agent: Walter Morrison
V. P.-Sales: R. W. Schmadler CT

INTERNATIONAL FERROMONT MACHINERY CO., INC.
Romapo, N. Y. (Tel. SLOotsburg 3-2791)
V. P.-Purch.: D. Rohr
Dir.-Sales: C. Sugarman MS, CT

INTERNATIONAL INSTRUMENTS INC.
Box 2954, New Haven 15, Conn. (Tel. FUlton 7-2515)
Sales Mgr.: R. C. Livingston CT

INTERNATIONAL RADIO & ELECTRONICS
S. 17th St. & Mishowake Rd., Elkhart, Ind. (Tel. JA 2-8583)
Purch. Mgr.: Jason Bemus
Sales Mgr.: Edwin Moore M, RD

INTERNATIONAL RECTIFIER CORP.
233 Kansas St., El Segundo, Calif. (Tel. DRegon 8-6281)
Dir.-Purch.: Claire Behar
Purch. Agent: Larry Dudley
Mktg. Mgr.: W. H. Atkinson M

INTERNATIONAL RESISTANCE CO.
401 N. Broad St., Philadelphia 8, Pa. (Tel. WALnut 2-8900)
Mgr. Purch.: Henry Zaccaria
Buyers: Irene Smith & John H. Cummings
Dir.-Sales: George D. Butler

INTERNATIONAL STEEL CO.
1321 Edgar St., Evansville 7, Ind. (Tel. HARRison 5-3311)
Chief Purch. Agent: Elmer Will
V.P.-Sales: Frank W. Schroeder
Sales Mgr.-Metal Products: Robert Chapman
Sales Mgr.-Lindsay Structure: William Beastall S, MS

INTERNATIONAL TELEPHONE & TELEGRAPH CORP., INDUSTRIAL PRODUCTS DIV.
15191 Bledsoe St., San Fernando, Calif. (Tel. EMpire 7-6161)
Purch. Agent: Edward Rodley
Buyers: H. Reits & C. Jones
Dir.-Mktg.: Robert T. Diehl MS

INTERNATIONAL WAX REFINING CO.
99 E. Hawthorne Ave., Valley Stream, N. Y. (Tel. LDoust 1-2500)
Purch. Dept.: Frank W. Clarke & Frank J. Clarke

INTERSTATE ELECTRONICS CORP.
707 E. Vermont Ave., Anaheim, Calif. (Tel. PRospect 2-2222)
Purch. Dir.: Joseph Kacira
Sales Mgr.: Hugh M. Griffin CT, TT, RD

INTERSTATE ELECTRONICS INC.
227 Fulton St., New York 7, N. Y. (Tel. BEEkman 3-8780)
Purch. Agent: D. DiPadova
V.P.-Sales: Irving M. Robbins M

INTERSTATE ENGRG. CORP.
600 East Vermont Ave., Anaheim, Calif. (Tel. PRospect 2-2222)
Prod. Mgr.: G. McMaster
Buyers: M. Hodkin & P. Rutledge
Sales Mgr.: E. J. Norman MS, RO

INVESTMENT CASTING CO.
60 Brown Ave., Springfield, N. J. (Tel. DRexel 6-6260)
Purch. Agent: Edwin Schoffman
Sales Mgr.: E. H. Parris M

INVINCIBLE VACUUM CLEANER MFG. CO.
14th & Davis Streets, Dover, Ohio (Tel. 42191)
Purch. Agent: Charles Wenger
V.P.-Sales: L. M. Thomas

IRON FIREMAN MFG. CO., AIRCRAFT DIV.
4784 S. E. 17th Ave., Portland, Ore. (Tel. BE 2-2121)
Purch. Agent: R. Werth
Plant Mgr.: K. S. Wright S

IRON FIREMAN MFG. CO., ELECTRONICS DIV.
2838 S. E. 9th Ave., Portland 2, Ore. (Tel. BELmont 4-6551)
Purch. Agent: A. D. Rolfe
Asst. Purch. Agent: Harold Walker
Mil. Sales Coordinator: Henry Des Georges G, CT, TT

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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IRVING AIR CHUTE CO., INC.
1315 Versailles Rd., Lexington, Ky. (Tel. 4-6910)
Exec. V. P.: C. H. Pulley
Purch. Agent: B. F. Phares
MS, RD, HSE

ISOCYANATE PRODUCTS, INC.
900 Wilmington Rd., New Castle, Del. (Tel. EAst 8-5661)
Products Mgr.: John G. Keffer
Sales Mgr.: Jerald B. Smith
M

ISOLANTITE MFG. CORP.
337 Warren Ave., Stirling, N. J. (Tel. Millington 7-0385)
Pres. & Dir.-Sales: Frank J. Stevens
G

ISOTOPES SPECIALTIES CO., DIV.-NUCLEAR CORP. OF AMERICA
170 W. Pravidencia, Burbank, Calif. (Tel. Victoria 9-2273)
Purch. Agent: S. W. Lamb
Operations Mgr.: A. J. Moses
V.P.-Sales: A. A. Michaud
M, RD

ITEK CORP.
1566 Trapela Road, Waltham, Mass. (Tel. TWinbrook 3-8700)
Purch. Agent: J. J. Kistner
Prod. Sales Mgr.: B. J. Worren

***ITEMCO, INC.**
18 Beechwood Ave., Part Washington, N. Y. (Tel. POrt Washington 7-8330)
Purch. Agent: Julius Rasen
Chief Engr.: Raymond Dzelzkalns
Asst. Chief Engr.: Edward Migliare
Sales Mgr.: Albert J. Deeb
CT, RD
*(See advertisement this issue)

JEM ELECTRONICS CORP.
743 Circle Ave., Forest Park, Ill. (Tel. PResident 1-8242)
Purch. Agent: C. F. Amberg
CT, RD

J.F.D. ELECTRONICS CORP.
6101 16th Ave., Braaklyn 4, N. Y. (Tel. DEwey 1-1000)
Purch. Agent: Bob Kuttner
Sales Mgr.: Jack Gaadman
Sales Mgr., Western Div.: Bill Bellenkes, Von Nuys, Calif. (Tel. SState 1-3530)

J-V-M MICROWAVE CO.
9300 W. 47th St., Brookfield, Ill. (Tel. HUnter 5-2000)
Buyer: L. Rzeminski
Sales Mgr.: R. E. Morgan
MS, G, TT

JACK & HEINTZ, INC.
17600 Broadway, Cleveland 1, Ohio (Tel. MDntrose 2-1000)
Purch. Agent: Hugh W. Lloyd
V. P.-Sales: R. J. Eschborn
V. P.-Operations: C. F. Herbold
MS, CT, RD

JACOBSON NUT MFG. CORP.
Box 177, Mark Rd., Kenilworth, N. J. (Tel. MIdlack 6-0200)
Purch. Agent: J. C. Marrane
Sales Mgr.: C. W. Aoggaard
M

B. JADOW INC.
860 Broadway, New York 3, N. Y. (Tel. GR 5-4450)
Dir.-Purch.: Milton Berman
Dir.-Sales: Henry C. Jadow
M, RD

JALBERT AERولوجY LAB. INC.
40 N. W. 20th St., Boca Raton, Fla. (Tel. 9094)
Dir.-Purch.: Damino C. Jolbert
RD

JAMES ELECTRONICS INC.
4050 N. Rockwell St., Chicago 18, Ill. (Tel. CO 7-6333)
V. P.-Purch.: Robert C. Canning
Pres.: John A. Kennedy
G

JAMES, POND & CLARK, INC.
2181 E. Faathill Blvd., Pasadena, Calif. (Tel. SYcomore 3-9195)
Purch. Agent: William Olsen
Sales Mgr.: P. F. Shepherd

JAMESBURY CORP.
45 New St., Worcester, Mass. (Tel. SW 9-4166)
Purch. Agent: Darnic J. Bucca
Sales Mgr.: Julian S. Freeman
Asst. Sales Mgr.: Maxwell H. Reck
PS, MS

JAMISON COLD STORAGE DOOR CO.
Box 70, Hagerstown, Md. (Tel. RE 3-3100)
Gen. Sales Mgr.: P. J. Duffy
CT, RD

JAN HARDWARE MFG. CO., INC.
38-01 Queens Blvd., Long Island City 1, N. Y. (Tel. EMpire 1-0800)
Chief Purch. Agent: M. Weiss
Dir.-Sales & Gen. Mgr.: Arthur Z. Rowe

JANCO CORP.
3111 Winona Ave., Burbank, Calif. (Tel. THornwall 8-5792)
Purch. Agent: Lester Jones
V. P.-Sales: J. T. Peterson, Jr.
MS, G, CT, RD

JANITROL AIRCRAFT DIV., MIDLAND-ROSS CORP.
4200 Surface Rd., Columbus 4, Ohio (Tel. BRoadway 6-3561)
Dir.-Proc.: R. H. Rupp
Buyers: John Huntley, Jerry Roberts, William Higgins
Gen. Mgr.: J. W. Ashby
Sales Mgr.: F. H. Scott
MS, RD

JANKE & CO. INC.
38-44 Railroad Ave., Hackensack, N. J. (Tel. DIamond 3-4674)
Chief Engr.: W. C. Jackson
Chief Draftsman: N. E. Seche
MS, CT, RD

JARDUR AVIATION CO.
874 Broadway, New York 3, N. Y. (Tel. ALgonquin 4-2238)
Dir.-Purch.: Samuel Klepper
Dir.-Sales: Hermon H. Klepper

JARDUR IMPORT CO.
874 Broadway, New York 3, N. Y. (Tel. ALgonquin 4-2239)
Dir.-Purch.: Samuel Klepper
Dir.-Sales: Hermon H. Klepper

WALTER K. JAROS AIRCRAFTERS
48-00 Astoria Blvd., Astoria, L.I. 3, N. Y. (Tel. YEllowstone 2-1400)
Purch. Agent: Josephine K. Jaros
Sales Mgr.: Walter K. Jaros
M, RD

JARRELL-ASH CO.
26 Farwell St., Newtonville 60, Mass. (Tel. DEcatur 2-2130)
Purch. Agent: W. Jakinen
V. P.-Sales: John Schuch
M, RD

JARVIS CORP.
10 Glastonbury Tpke., Portland, Conn. (Tel. DIamond 7-3381)
Purch. Agent: John Harvey
Gen. Mgr.: Edward G. Sharp
Chief Engr.: R. Stewart
PS

JAVEX ELECTRONICS
P. D. Box 646, Redlands, Calif. (Tel. PYramid 3-5752)
V. P.-Purch. & Sales: C. J. Reimuller

JEFFERS ELECTRONICS DIV., SPEER CARBON CO.
Hoover Ave., DuBois, Pa. (Tel. 2100)
Purch. Agent: A. P. Kokoska
Sales Mgr.: J. S. Speer II
V. P.-Mktg.: E. W. Butler
M, G, TT

JEFFERSON ELECTRONIC PRODUCTS
322 State St., Santa Barbara, Calif. (Tel. WOODland 5-8505)
Purch. Agent: William Bedford
Sr. Buyer: Frank E. Brackett
Mgr., Customer Relations Div.: Donald F. Barr
MS

JEFFERSON WIRE & CABLE CORP.
Pleasant Valley Rd., Sutton, Mass. (Tel. UNION 5-4447)
V. P.-Purch.: Michael Friedman
Gen. Mgr.: Lea Baasahady
Plant Mgr.: Donald Faraday

JEFFREY MFG. CO., THE
843 N. 4th St., Columbus 16, Ohio (Tel. AX 4-3331)
Dir.-Purch.: H. J. Halliday
V. P.-Sales: J. E. M. Wilson

JENNINGS MACHINE CORP.
3452 Ludlow St., Philadelphia 4, Pa. (Tel. EV 6-2420)
Purch. Agent: J. P. McIntyre
Asst. Purch. Agent: M. A. Russo
Sales Engr.: J. Robert Peace
M, RD

JENNINGS RADIO MFG. CORP.
970 McLaughlin Ave., San Jose, Calif. (Tel. CYpress 2-4025)
Purch. Agent: Howard A. Coan
Asst. Purch. Agent: Oliver A. Weiss
Sales Mgr.: Roderick Neibaur
M, CT

JENSEN MFG. CO., DIV.-THE MUTER CO.
6601 S. Laramie Ave., Chicago 38, Ill. (Tel. PDrtsmouth 7-7600)
Purch. Agent: Edmund B. McGuckin
Indst. Sales Mgr.: Horace L. White
Asst. Sales Mgr., Distributor Div.: Frank D. Lintern

JERGUSON GATE & VALVE CO.
Adams St., Burlington, Mass. (Tel. BRowing 2-3600)
Purch. Agent: Alfred G. Muglard
Buyer: Lea Tripodi
V. P.-Sales: James A. Fard
PS, RD

JESSOP STEEL CO.
500 Green St., Washington, Pa. (Tel. BAIdwin 2-4000)
Dir.-Purch.: George W. Mawhinney
Purch. Agent: Ross Herron
V. P.-s-Commercial: Thomas W. Gabriel & Samuel J. Clokey
M

JET PULVERIZER CO., THE
Rte. #73 & D'Donnell's Lane, Polmyra, N. J. (Tel. NOrmandy 2-0703)
Dir.-Purch. & Sales: Edwin F. Fay
M

JET TOOL CORP.
7952 North Ave., Box 547, Leman Grove, Calif. (Tel. HDpkins 6-0471)
Pres.: Grant Hadley

JETA, INC.
957 Saw Mill River Rd., Yonkers 2, N. Y. (Tel. YOnkers 9-4400)
Mgr.: Howard C. Beyer
Sales Mgr., Metal Fabrication: Raymond E. Calhoun
Asst. Sales Mgr., Power Equip.: Frank P. Monaco
S, MS

JET-HEET, INC.
152 S. Van Brunt St., Englewood, N. J. (Tel. LDwell 9-0420)
Purch. Agent: Jack White
Sales Engr.: H. Appleton
Sales Mgr.: Robert Barr
RD

JETTRON PRODUCTS, INC.
56 Route 10, P. O. Box 274, Hanover, N. J. (Tel. TUCKer 7-0571)
Pres.: Kenneth Johnson
V. P.: Carlton P. Werner
Elec. Engr.: Frank J. Strossner
RD

JOCLIN MFG. CO. THE
Lutbery Ave., Wallingford, Conn. (Tel. CDlany 9-8708)
Purch. Agent: S. F. DiGiorgi
Sales Mgr.: R. M. Clarke
PS, M

JOHNS-MANVILLE SALES CORP.
22 E. 40th St., New York 16, N. Y. (Tel. LEXington 2-7600)
Mgr.-Purch. Dept.: D. H. Lyons
V. P.-Sales: J. A. D'Brien
M, RD

CORYDON M. JOHNSON CO., INC.
Bethpage, N. Y. (Tel. WElls 8-4600)
Purch. Agent: Thomas Cassino
V. P.-Sales: Wallace A. Haeberle
RD

E. F. JOHNSON CO.
206 2nd Ave., S. W., Waseco, Minn. (Tel. 990)
Purch. Agent: M. L. Johnson
Gen. Sales Mgr.: E. T. Herbig, Jr.
M

K. W. JOHNSON & CO., INC.
1825 Webster St., Dayton 4, Ohio (Tel. BA 4-1078)
Dir.-Purch.: Richard M. Wilcox
Sales Mgr.: R. D. Tobey
Pres.: K. W. Johnson
S, MS, G, CT, TT, RD

JOHNSON ELECTRONICS INC.
Hwy. 17-92, P. O. Box 1675, Casselberry, Fla. (Tel. Midway 4-3311)
Chief Purch. Agent: Merlin Baudino
Purch. Agent: Lana Whistler
V. P.-Sales: E. C. Johnson
G, RD

JOHNSON MFG. CO., INC.
616 First Ave., N. W., Mt. Vernon, Iowa (Tel. 3651)
Mgr.-Sales: R. H. Thompson
Asst. Mgr.-Sales: D. F. Jones
M

JOHNSON METAL HOSE, INC.
10 Sperry St., Waterbury 20, Conn. (Tel. PL 6-4612)
M
JOHNSON-WILLIAMS, INC.
2625 Pork Blvd., Palo Alto, Calif. (Tel. DAVenport 3-4131)
Mgr.: P. L. Williams
Chief Engr.: K. W. Johnson
MS

JOHNSON & FUNK METALLURGICAL CORP.
W. Decatur Hwy., Huntsville, Ala. (Tel. JE 6-3374)
Purch. Agent: Don Goad
Sales Coordinator: Ernie Thiemonge
M

JO-LINE TOOLS, INC.
8442 Otis St., South Gate, Calif. (Tel. LOrain 7-1489)
Purch. Agent: Ray Moore
V. P.-Purch.: William S. Woods MS

JOMA INC.
Town Line Rd., Walcott, Conn. (Tel. PLazo 7-0040)
Pres.: Joseph M. Macory

JONCO AIRCRAFT CORP., SUB-FAIRCHILD ENGINE & AIRPLANE CORP.
P. O. Box 549, Shownee, Okla. (Tel. 6230)
Mgr.-Materials: W. W. Drake
Mgr.-Purch.: P. F. Willis
Mgr.-Sales: H. A. Crouch S, MS

HOWARD B. JONES DIV.-CINCH MFG. CO.
1026 S. Haman Ave., Chicago 24, Ill. (Tel. NEvado 2-2000)
Purch. Agent: Tom Hopkins
Gen. Sales Mgr.: S. Pfonsstiehl

JONES & LAMSON MACHINE CO.
160 Rocket St., Springfield, Vt. (Tel. TUrner 5-2121)
Purch. Agent: E. F. St. Mary
Asst. Purch. Agent: Frank Borter
Mgr.-Marketing: H. A. Finch

JONES & LAUGHLIN STEEL CORP., STAINLESS AND STRIP DIV.
P. O. Box 4606, Detroit 34, Mich. (Tel. JEFFerson 6-7200)
Purch. Agent: H. W. Arnold
Asst. Purch. Agent: C. A. Kiesgen
Purch. Clerk: H. C. Geiger
V. P.-Sales: J. H. Abbott M

JONES MOTOROLA CORP.
432 Fairfield Ave., Stamford, Conn. (Tel. DAVIS 4-7381)
Mgr.-Purch. & Sales: C. E. Rees
Purch. Agent: S. E. Jacobs CT

JONESVILLE PAPER TUBE CORP.
474 Beck Rd., Jonesville, Mich. (Tel. VI 9-2951)
Dir.-Purch.: A. G. Schoerer
Dir.-Sales: W. W. Schroy M

JORDAN CONTROLS INC.
3235 W. Hampton Ave., Milwaukee 9, Wis. (Tel. UPtown 1-9240)
Dir.-Purch.: Arthur Scommell
Chief Engr.: Fred Gruner
Dir.-Sales: Charles Jordan MS

JORDAN ELECTRONICS, DIV.-VICTOREEN INSTRUMENT CO.
3025 W. Mission Rd., Alhambra, Calif. (Tel. CUMberland 3-6425)
Purch. Agent: Darrell Johnston
Sales Mgr.: George W. Egan

EARLE M. JORGENSEN CO.
10650 S. Alameda St., Los Angeles 54, Calif. (Tel. LDrain 7-1122)
Purch. Agent: James Nossir
Mdse. Mgr.: W. R. Lindman
Mgr.-Sales: Charles Scriber M

JOY MFG. CO.
Henry W. Diver Bldg., Pittsburgh 22, Pa. (Tel. GRoni 1-2140)
Dir.-Purch.: K. Wormbein
Purch. Agent, Elec. Prod. Div.: H. C. Brown
V. P.-Elec. Prod. Div.: W. C. Russell
V. P., Ind. Div.: J. P. Cortwright MS

JUALL GEAR CO., INC.
1108 Gaffie Rd., Howthorne, N. J. (Tel. HA 7-4220)
Pres.: C. Juall TT

K-W ENGRG. WORKS
N50 W16328 Pin Oak Ct., (P.O.) Butler, Wisc. (Tel. (Milwaukee) SUnset 1-8616)
Purch. Agent: H. Charles Koetel

GEO. E. KAERCHER CO.
4911 36th Ave., S., Minneapolis 17, Minn. (Tel. PArkway 4-4986)
Purch.: Don Kaercher & Geo. Koercher M

KAHN & CO., INC.
885 Wells Rd., Wethersfield, Hartford, Conn. (Tel. JACkson 9-8643)
Mail: P. D. Box 516, Hartford 1, Conn.
V. P.-Purch.: Kenneth D. Jacobs
Asst. Purch. Agent: James Melo
Expediter: Richard Metcalf
Sales Mgr.: Edward D. Kane MS, CT, RD

KAHN RESEARCH LABS. INC.
81 S. Bergen Pl., Freeport, N. Y. (Tel. FReeport 9-8800)

Purch. Agent: Ernest Howard
V. P.-Sales: Kenneth B. Boathe TT, RD

KAISER AIRCRAFT & ELECTRONICS, DIV.-KAISER INDUSTRIES CORP.
P. O. Box 1828, Oakland 4, Calif. (Tel. Son Leandra, Calif.—LOckhoven 2-2456)
Material Mgr.—Richmond Machining Plt.: James Tellmon (Tel. Richmond, Calif.—LAndscape 6-4688)
Purch. Agent—Richmond & Son Leandro Plts.: J. R. Anderson (Tel. Richmond, Calif.—LAndscape 6-4688)
Purch. Agent—Toledo Electronics Plt.: R. W. Gibson (Tel. Toledo, Ohio—RAndolph 6-1591)
Purch. Agent—Phoenix Electronics Plt.: Ralph Musbach (Tel. Phoenix, Ariz.—WIndsar 3-3431)
Sr. Sales & Contract Rep.—Phoenix Electronics Plt.: Robert N. O'Horo (Tel. Phoenix, Ariz.—WIndsar 3-3431)
Gen. Sales Mgr.—Weapons Systems Mktg. Dept.: A. L. Mopes (Tel. Son Leandra, Calif.—LOckhoven 2-2456)

KAISER ALUMINUM & CHEMICAL SALES, INC.
919 N. Michigan Ave., Chicago 11, Ill. (Tel. MOhawk 4-6900); 300 Lakeside Dr., Oakland 12, Calif. (Tel. CRestview 1-2211) S, MS, M, RD

KAISER FLEETWINGS, INC.
Bristol, Pa. (Tel. STillwell 8-8431)
Proc. Mgr.: W. C. Heilbrun
V. P. & Gen. Mgr.: S. D. Hackley
Div. Mgr.: W. K. Palmer
Contracts Mgr.: E. J. Raymond
Sales Mgr.: D. E. Egan S, PS, MS, M, RD

KAISER STEEL CORP., FABRICATING DIV.
7301 Telegraph Rd., Los Angeles 22, Calif. (Tel. RYamand 3-5411)
Purch. Agent: Frank E. Caaper
V. P.-Gen. Mgr.: Jack J. Carlson CT

KALART CO., INC., THE
Hulteneus St., Plainville, Conn. (Tel. SHerwood 7-1663)
Plant Mgr.: L. J. Quartin
Buyers: Harry Schwartz & Harry G. Seorles
Gen. Sales Mgr.: Hy Schwartz S, CT, RD

KANAAR CORP.
447 Market St., Kingston, Penna. (Tel. BUtler 7-2151)
Purch. Agent: Clinton D. Smith
Sales Mgr.: John H. Uhl S, MS

KANO LABS.
1000 S. Thompson Lane, Nashville, Tenn. (Tel. ALpine 4-3519)
Purch.: Thomas J. O'Kone
Sales Mgr.: C. G. Montgomery

KANTHAL CORP., THE
Amelio Place, Stamford, Conn. (Tel. DAVIS 5-2206)
Treas.: Lennort Haho
Sales Mgr.: G. W. Eisenbeis

A. LAWRENCE KARP
Sowmill Rd., Stamford, Conn. (Tel. DA 2-2280)
Pres.: A. L. Karp M

KATO ENGRG. CO.
1415 First Ave., Mankota, Minn. (Tel. 8-2941)
V. P.-Sales: William Cliff MS, CT

KATOLIGHT CORP.
First Ave. & Chestnut St., Mankota, Minn. (Tel. 7966)
Sales Engr.: Narval Biggs
Pres.: C. W. Pennington
Sales Mgr.: Stan F. Neubert

C. B. KAUPP & SONS, INC.
6-10 & 32 Newark Way, Maplewood, N. J. (Tel. 50uth Orange 3-2490)
Pres.: Carl B. Kaupp, Jr.
Secy.-Treas.: Clem N. Koupp
Sales Rep.: John M. Hagan

KAUSTINE FURNACE & TANK CORP.
1937 Thomas St., Perry, N. Y.

KAY ELECTRIC CO.
Maple Ave., Pine Brook, N. J. (Tel. CApiatal 6-4000)
Purch. Agent: Marsden Shaw
Gen. Sales Mgr.: John Gilmore CT, TT, RD

KAYDON ENGRG. CORP., THE
McCracken St., Muskegon, Mich. (Tel. PLoza 5-3741)
Dir.-Purch.: W. J. Pierre
Buyers: John Peterson & O. Lee Mitchell
Gen. Sales Mgr.: D. C. Maxwell RD

JOSEPH KAYE & CO., INC.
49 Homphshire St., Cambridge 39, Mass. (Tel. UNIversity 8-7080)
Joseph Kaye PS, RD

KAYNAR MFG. CO., INC., KAYLOCK DIV.
Box 2001, Terminal Annex, Los Angeles 54, Calif. (Tel. SPruce 3-3070)
Purch. Agent: George Magers
Gen. Mgr.: R. H. Rondall
Sales Mgr.: K. D. Davis

***KEARFOTT DIV., GENERAL PRECISION, INC.**
Little Falls, N. J. (Tel. CL 6-4000) MS, G, CT, RD
*(See advertisement this issue)

***KEARFOTT DIV., GENERAL PRECISION, INC., MICROWAVE PRODUCTS**
14844 Oxnard St., Van Nuys, Calif. (Tel. STate 6-1760)
Purch. Agent: J. E. Hochtcl
Sales Mgr.: W. K. Dou, Jr. G, CT, RD
*(See advertisement this issue)

KEIL ENGRG. PRODUCTS, INC.
4356 Duncan St., St. Louis 10, Mo. (Tel. OLive 2-7005)
Gen. Mgr.: J. S. Keil, 6833 Manchester (Tel. STerling 1-3209)
Sales Mgr.: Norman W. Kothrinus M

KEITHLEY INSTRUMENTS, INC.
12415 Euclid Ave., Cleveland 6, Ohio (Tel. SWeebriar 5-2666)
Works Mgr.: G. L. Pframm
V. P.-Engrg.: Dr. Julius Proglin CT, RD

KELITE CORP.
1250 N. Main St., Los Angeles 12, Calif. (Tel. CApiatal 2-0201)
V. P., and Tech. Dir.: Luis McDonald
V. P.-Sales: W. Sorenson M, RD

HUGO P. KELLER, JR.
50 East 42nd St., New York 17, N. Y. (Tel. MURrayhill 2-8450)
Pres.: Hugo P. Keller, Jr.
Sales Mgr.: R. M. Wolff M

KELLETT AIRCRAFT CORP.
P. O. Box 35, Willow Grove, Pa. (Tel. OS 5-2930)
Purch. Agent: H. A. Horner
Asst. Purch. Agent: R. Nevin
V. P.-Sales: I. Medgebaw S, MS, CT, RD

KELLOGG SWITCHBOARD & SUPPLY CO., COMMUNICATIONS DIV.-INTERNATIONAL TELEPHONE & TELEGRAPH CORP.
6650 S. Cicera Ave., Chicago 38, Ill. (Tel. POrtsmouth 7-6900)
Dir.-Purch.: H. O. Nordberg
V. P.-Mktg.: C. J. Trees
V. P.-Sales: R. Griebel

KELSEY HAYES CO.
3600 N. Military, Detroit 32, Mich. (Tel. TA 5-5500)
Purch. Mgr.: E. Kern
Gen. Mgr., Sales & Engrg.: L. G. Taylor MS, M, RD

KELSEY HAYES CO., UTICA DROP FORGE & TOOL DIV.
24½ Whitesboro, Utica 4, N. Y. (Tel. RE 5-6411)
Purch. Agent: Edward Kern
Sales Mgr.: Walter Hart MS, M, RD

KEMET CO., DIV.-UNION CARBIDE CORP.
11901 Madison Ave., P. D. Box 6087, Cleveland 1, Ohio (Tel. ACAdemy 6-3330)
Purch. Agent: P. R. Hostocky
Dir.-Sales: W. H. Fritz M

KEMLITE LABORATORIES, INC.
1819 W. Grand Ave., Chicago 22, Ill. (Tel. TAYlor 9-6050)
Purch. Agent: J. V. Daniels

KEMP AERO PRODUCTS
Marshall Hill Rd. West Milford, N. J. (Tel. PArkway 8-3149)

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- Dir.-Purch.: J. L. Bishop
Buyers: L. Cocks
Chief Engr.: N. Kling
V. P.-Sales: J. Harrington S, PS, MS, G, RD
- KENDALL CO., THE**
111 West 40th St., New York 18, N. Y. (Tel. LOnacre 3-7600) M
- KENDALL CO., THE, POLYKEN SALES DIV.**
309 W. Jackson Blvd., Chicago 6, Ill. (Tel. WEbster 9-7100)
Dir.-Purch.: J. F. Korl
Dir.-Sales: J. T. Ooyle
- KENNAMETAL INC.**
Lloyd Ave., Latrobe, Penno. (Tel. KEystone 7-3311)
Purch. Agent: Dale R. Versow
Sales Mgr.: Bennett Burgoon, Jr.
- D. S. KENNEDY & CO.**
Cohasset, Mass. (Tel. EVergreen 3-1200)
Purch. Agent: Robert Fisher
Buyer: E. W. Anderson
V. P.-Sales: R. J. Grenzeback TT, RD
- KENNEDY AIRCRAFT SUPPLY CO.**
43-10, 162 St., Flushing 58, N. Y. (Tel. Hlckory 5-3500)
Gen. Mgr.: Chris Kennedy
Supvr.-Sales: K. O. Shanley M, CT
- KENSICO TUBE CO., DIV.-ROBINSON TECHNICAL PRODUCTS, INC.**
Hubbell's Cr., Mount Kisco, N. Y. (Tel. Mount Kisco 6-9046)
Dir.-Purch.: Philip P. Genussa
Plant Engr.: Arthur L. Mortensen
Gen. Sales Mgr.: Frederic F. Moore, Jr. M, RD
- KENTUCKY METAL PRODUCTS CO.**
3104 S. Preston St., Louisville 13, Ky. (Tel. MEIrose 4-9421)
Dir.-Purch.: R. E. Morrison, Sr.
Dir.-Sales: J. L. Cavert
Sales Mgr.: S. S. Emison
- KEPCO, INC.**
131-38 Sanford Ave., Flushing 55, N. Y. (Tel. Independence 1-7000)
Purch. Agent: Jack Kupferberg
Dir.-Engrg.: Ken Kupferberg
Sales Mgr.: Max Kupferberg
- KERNS MFG. CORP.**
45-18 Court Sq., Long Island City 1, N. Y. (Tel. STIllwell 6-2550)
Purch. Agent: Amald Navak
Gen. Mgr.: R. J. Auman
Mgr.: L. M. Cirami S, PS, MS
- WAYNE KERR CORP.**
1633 Roca St., Philadelphia 3, Pa. (Tel. LOcust 8-6820)
Gen. Mgr.: Boyce M. Adams
Purch. Agent: Frank Scatt CT
- KERRCO**
Box 4178, 4335 N. 61st St., Lincoln 7, Nebr. (Tel. IV 6-5105)
Dir.-Sales: O. W. Hemphill
Prod. Mgr.: M. Kerr, Box 727, Hastings, Nebr. (Tel. 2-2812)
- KESTER SOLDER CO.**
4201 Wrightwood Ave., Chicago 39, Ill. (Tel. BELmont 5-1601)
Purch. Agent: G. E. Fischer
Gen. Sales Mgr.: J. H. Humble
- KETAY DEPT., NORDEN DIV., UNITED AIRCRAFT CORP.**
Jericho Turnpike, Commack, N. Y. (Tel. FOrest 8-5500)
Purch. Agent: S. Schiener
Buyers: M. Gibber, O. Harkins, S. Leto
Sales Mgr.: N. Pell RD
- KEYSTONE BOLT & NUT CORP.**
125 Church St., New York 7, N. Y. (Tel. WOrth 4-4600)
Sales Mgr.: Kenneth Fischer
- KEYSTONE CARBON CO.**
1935 State St., St. Marys, Penno. (Tel. TE 41-591)
Purch. Agent: L. H. Schaut
Thermistor Sales: F. A. Brennan M
- KEYSTONE ELECTRONICS CO., THE**
65 Seventh Ave., Newark 4, N. J. (Tel. HUmbolt 2-0630)
Purch. Agent: S. Spector
V. P.-Sales: A. B. III, Jr. CT, TT, RD
- KEYSTONE ELECTRONICS CORP.**
49 Bleecker St., New York 12, N. Y. (Tel. GRamercy 5-4600)
Purch.: I. Rosen M
- KEYSTONE PRODUCTS CO.**
904-6 23rd St., Union City, N. J. (Tel. UNION 6-5400)
Purch. Agent: F. W. Harth
Sales Coordinator: E. Holeswki
- KICKHAEFER MFG. CO.**
901 S. Second St., Milwaukee 4, Wisc. (Tel. MITchell 5-1630)
Pres.: Edward A. Kickhaefer
V. P.-Purch.: Ernest Oavis
- KIDCO INC.**
P. O. Box 583, Somerset, Ky. (Tel. 1440)
Purch. Agent: Oonald Carter
Plant Supt.: Caudie Redmond
Gen. Mgr.-Sales: Murray Rogers PS, MS
- KIDDE AERO-SPACE DIV., WALTER KIDDE & CO., INC.**
1320 Main St., Belleville 9, N. J. (Tel. PLymouth 9-5000)
Purch. Agent: J. P. Bloke
V. P. & Dir.-Sales: V. J. Hill S, PS, MS, M, G, CT, RD
- KIELEY & MUELLER, INC.**
64 Genung St., Middletown, N. Y. (Tel. OLamond 2-2526)
Dir.-Purch.: Rex Palmer
Dir.-Sales: Joseph P. O'Conner, Jr. MS
- KILGORE, INC., INTERNATIONAL FLARE-SIGNAL DIV.**
200 E. Broadway, Westerville, Ohio (Tel. TUxedo 2-2341)
Sales Mgr.: G. J. Bishop
Tech. Dir.: Hugh McManus
- KILO ENGRG. CO.**
2011 Third St., LaVerne, Calif. (Tel. LYcaming 3-4626)
Purch. Agent: J. B. Goch
Gen. Mgr.-Sales: R. L. Goch G, CT, TT, RD
- KIN TEL DIV.-COHU ELECTRONICS, INC.**
5725 Kearny Villa Rd., San Diego 12, Calif. (Tel. BRowning 7-6700)
Purch. Agent: Robert J. Just
Sales Mgr.: E. C. Titcomb
Pres.: L. T. Cohu CT
- ALFRED B. KING CO., THE**
Oevine St., North Haven, Conn. (Tel. CHEstnut 8-5561)
Purch. Agent: Frank P. Forte
Sales Mgr., Fabrication Div.: Louis A. Corlani S
- KING FIFTH WHEEL CO.**
P. O. Box 759, Wilkes-Barre, Pa. (Tel. GRANite 4-6371)
Purch. Agent: J. J. Gotti
V. P.-Sales: J. E. Gibbons S, PS
- KING LABS., INC.**
127 Solar St., Syracuse 3, N. Y. (Tel. GRanite 4-3359)
Exec. V. P.-Purch. & Sales: W. R. MacLead M
- KINGS ELECTRONICS CO., INC.**
40 Marbledale Rd., Tuckahoe, N. Y. (Tel. SWItwater 3-5000)
Purch. Agent: Jack Zinoman
Buyer: Claire Straus
Asst. Buyer: Alma Verrigni
Sales Mgr.: Willard Lovers MS, G, CT, TT
- KINGSTON ELECTRONICS, DIV.-KINGSTON INDUSTRIES INC.**
North St., Medfield, Mass. (Tel. FLEetwood 9-4347)
Purch. Agent: N. H. Peterson
Sales Mgr.: R. W. Moulton
- KINNEY VACUUM DIV., THE NEW YORK AIR BRAKE CO.**
3529 Washington St., Boston 30, Mass. (Tel. JAMOica 4-3220)
Purch. Agent: W. Batts
Sales Mgr.: W. B. Mills M
- KIP ELECTRONICS CORP.**
29 Holly Place, Stamford, Conn. (Tel. OAVIS 5-1551)
Purch. Agent: Vincent Engdall
V. P.-Sales: John N. Higgins RD
- M. KIRCHBERGER & CO., INC.**
250 Humphry St., Englewood, N. J. (Tel. LOwell 8-4555)
- Purch. Agent: A. Kent
Sales Mgr.: T. H. Church M
- MORRIS P. KIRK & SDN, INC.**
2700 S. Indiana, Los Angeles 23, Calif. (Tel. ANGelus 2-1101)
Purch. Agent: E. Gullette
Gen. Sales Mgr.: F. A. Eichan M
- KIRK & BLUM MFG. CO., THE**
3239 Forrer St., Cincinnati 9, Ohio (Tel. ELMhurst 1-1400)
Purch. Agent: F. G. Weber
Asst. Purch. Agent: Fred Herrle
Dir.-Sales: W. R. Meutmen S
- KIRKILL RUBBER CO.**
300 E. Cypress St., Brea, Calif. (Tel. JASper 9-2161)
Purch. Agent: Sterling Atkinson
V. P. & Sales Mgr.: Dan E. Budnick M
- H. R. KIRKLAND CO., THE**
10 King St., Marrison, N. J. (Tel. JE 8-2777)
Dept. Mgrs.: Bruce A. Kirkland & Harry P. Ansan
Dir.-Sales: H. R. Kirkland
- KISH INDUSTRIES, INC.**
1301 N. Turner St., Lansing, Mich. (Tel. IV 2-1181)
Secy. & Treas.: Oaniel I. Lessens
Purch. Agent: Ewald Schrader
Pres.: Charles A. Chambers M
- KISTLER INSTRUMENT CORP.**
15 Webster St., N. Tanawanda, N. Y. (Tel. JACKson 2099)
Dir.-Purch.: J. F. Lally
Prod. Mgr.: W. C. Woytena
Sales Mgr.: R. W. Lally G, CT
- KITTELL-LACY, INC.**
10816 E. Fowcett Ave., El Monte, Calif. (Tel. GILbert 4-9567)
Purch. Agent: W. Keith Clow
Mgr.-Sales: Walter S. Martin MS, RD
- LEO KLEIN ELECTRONICS CO.**
2404 S. LaBrea Ave., Los Angeles 16, Calif. (Tel. WEbster 5-3119)
Purch. & Prod. Expediter: A. Klein
Sales Mgr.: H. Novis CT
- KLINCHER LOCKNUT CORP.**
2153 Hillside Ave., Indianapolis 18, Ind. (Tel. WAInut 5-9284)
Pres.: E. W. Pummill
Quality Control: H. Henley
Sales Mgr.: I. J. Deinhart PS, MS, G
- KLING METAL SPINNING & STAMPING CO.**
247 Centre St., New York, N. Y. (Tel. CANal 6-5580)
Owner: Philip Kling
Engr.: Peter Miller
Metallurgist: Sol Gross S, M, RD
- JAMES KNIGHTS CO., THE**
Sandwich, Ill. (Tel. 2141)
Purch. Agent: Russell Walgren
Sales Mgr.: Glenn Munro MS, G, TT, RD
- KNOPP INC.**
1307 66th St., Oakland 8, Calif. (Tel. OLYmpic 3-1661)
Sales Mgr.: Henry N. Muller
- KOBE INC.**
3040 East Slouson Ave., Huntington Park, Calif. (Tel. LUDlow 8-1271)
Purch. Agent: R. W. Warfield
Aircraft Sales Mgr.: P. H. Jamison CT
- H. KOCH & SONS**
P. O. Box 125, Carte Madero, Calif. (Tel. WAbash 4-3510)
Purch. Agent: H. Salkin
Gen. Mgr.: M. P. Koch S, MS
- KDEHLER AIRCRAFT PRODUCTS CO., INC.**
409 Leo St., Oaytan 59, Ohio (Tel. BAIdwin 6-1821)
Purch. Agent: Jahn H. Riningar
Gen. Sales Mgr.: R. T. McCouley
- KOH-I-NOOR PENCIL CO., THE**
North St., Bloomsbury, N. J. (Tel. GRenwood 9-4124)
Purch. Agent: Orville Henderson
Sales Dept.: Richard LaBorre
- KOHLER CO.**
Kohler, Wisc. (Tel. GLencourt 7-4441)
V. P. & Sales Mgr.: A. G. Zibell
Sales Rep.: W. C. Voigt MS
- KOLCAST INDUSTRIES—DIV. THOMPSON RAMO WODLDRIDGE INC.**
P. O. Box 250, Minerva, Ohio (Tel. 725)
Purch. Agent: A. M. Pelley
Sales Mgr.: R. C. Kramer M, RD

KOLLMORGEN OPTICAL CORP.
347 King St., Northampton, Mass. (Tel. JUstice 4-0280)
Purch. Agent: Richard G. Walsh
Asst. Purch. Agent: George Dudley
V. P.-Sales: J. C. Milligan MS, CT, TT, RD

KOLLSHAN INSTRUMENT CORP., SUB-STANDARD COIL PRODUCTS CO. INC.
80-08 45th Ave., Elmhurst 73, N. Y. (Tel. TWining 9-5600)
Purch. Agent: J. Goodrich
Asst. Purch. Agent: W. Kelly
Dir.-Mktg.: H. Drage MS, G, RD

KOLTON ELECTRIC MFG. CO.
123 New Jersey Railroad Ave., Newark 5, N. J. (Tel. Mitchell 2-4622)
Purch. Agent: Charles Kalton
Chief Engr.: Barrett D. Kolton
Dir.-Sales: Heyman Kolton M

E. KONIGSLOW STAMPING & TOOL CO.
450-1-N, 9th St., Elwood, Indiana (Tel. FE 2-5342)

KOONTZ-WAGNER ELECTRIC CO., INC.
516 N. Michigan St., South Bend 1, Ind. (Tel. Central 3-8251)
Procurement Mgr.: A. W. Kaehnke
Gen. Mgr.: C. D. Hills
Production Mgr.: C. H. Bill
V. P.-Sales: B. Kumm PS, MS, G, CT

KOPP GLASS, INC.
Swissvale, Pittsburgh 18, Pa. (Tel. BRandywine 1-0190)
Purch. Agent: Charles Rudek
V. P.-Sales: J. L. Newton M

KOPPERS CO., INC., METAL PRODUCTS DIV.
200 Scott St., Baltimore 30, Md. (Tel. SARatoga 7-2500)
Dir.-Procurement: B. K. Shaner
Buyers: D. A. Koerin & E. C. Reid
Sales Mgr.: T. F. Naylor M, CT, RD

KRAMER FABRICATING CO., THE
920 Fisher Bldg., Detroit 2, Mich. (Tel. TRinity 1-1800)
Sales Mgr.: Charles R. Sterritt S, MS

HERB KRECKMAN CO.
Cresco, Pa. (Tel. LYndhurst 5-2212)
Herb Kreckman

KRYLON, INC.
Ford & Washington Sts., Narristown, Pa. (Tel. BRoadway 9-1950)
Dir.-Purch.: William Sansalone
V. P.-Sales: Richard C. Newbald

KULKA ELECTRIC CORP.
633-643 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. Mt. Verman 4-4024)
Treas.: William Kulka
Purch. Agent: Harry Meltzer
Sales Mgr.: Elliott Edelman M

KURMAN ELECTRIC CO., SUB-CRESCENT PETROLEUM CORP.
191 Newel St., Brooklyn 22, N. Y. (Tel. EVergreen 3-8000)
Purch. Agent: Jim Barry
Sales Mgr.: Wallace Green RD

KURZ-KASCH, INC.
1421 S. Broadway, Dayton, Ohio. (Tel. BALdwin 3-8161)
Purch. Agent: I. H. Naas
V. P.-Sales: R. L. Davidson M

KUTHE LABS, INC.
730 S. 13th St., Newark 3, N. J. (Tel. BIgelow 2-6000)
Works Mgr.: J. J. Myers
Staff Engr.: H. M. Brady G, TT

KWIKET POWDERED METAL PRODUCTS
516 E. Santa Ana St., Anaheim, Calif. (Tel. KEstone 5-8111)
Purch. Agent: E. M. Scott
Sales Mgr.: John Mikitka

L. A. B. CORP.
Skaneateles 1, N. Y. (Tel. OV 5-5781)
Purch. Agent: H. B. Montz
Sales Mgr.: J. T. Hubbard

L. O. F. GLASS FIBERS CO.
3116 Van Owen Blvd., Burbank, Calif. (Tel. VICTORIA 9-2331)
Purch. Agent: Robert O. Eiseled
Sales Mgr.: Wm. Worcester

L & R MFG. CO.
577 Elm St., Keamy, N. J. (Tel. WY 1-5330)
Purch. Agent: A. L. Henderl
V. P.-Purch.: Saul Goldfarb
V. P.-Sales: Jim Lazarus

L S M MFG. CO.
Waterville 14, Conn. (Tel. Plaza 4-4136)
Dir.-Purch. & Sales Mgr.: P. J. Ciorleglia

LABELON TAPE CO., INC.
450 Atlantic Ave., Rochester 9, N. Y. (Tel. HUBbard 2-3460)
Purch. Mgr.: Kurt Baum
Gen. Sales Mgr.: D. L. Allen M

LABLINE, INC.
3070-82 W. Grand Ave., Chicago 22, Ill. (Tel. SACramento 2-5151)
Purch. Agent: George A. Parsons
Asst. Sales Mgr.: Charles V. Kelly RD

LAB. FOR ELECTRONICS, INC.
1079 Commonwealth Ave., Boston 15, Mass. (Tel. ALgonquin 4-4235)
Dir.-Purch.: C. R. Skinner
Mgr., Purch.: H. H. Neilsan
Mgr., Subcontracting: M. R. Anderson
V. P.-Mktg.: J. V. Haldam G, CT, TT, RD

LAB-TRONICS, INC.
3656 N. Lincoln Ave., Chicago 13, Ill. (Tel. GRaceLand 7-7900)
Purch. Agent: J. McNurney
Sales Mgr.: G. I. Lovitt M

LADISH CO.
5481 S. Packard Ave., Cudahy, Wisc. (Tel. HUMBoldt 1-1500)
Purch. Agent: J. F. Wachs
Sales Mgr.-Farging Div.: R. F. Starz S, PS, MS, M, RD

LAMB ELECTRIC CO., THE., DIV.-AMERICAN MACHINE & METALS, INC.
Lake St., Kent, Ohio (Tel. ORchard 3-3451)
Purch. Agent: S. E. Campbell
Gen. Sales Mgr.: E. L. McIntyre M

LAMBDA ELECTRONICS CORP.
11-11 131st St., College Point, 56, N. Y. (Tel. Independence 1-8500)
Purch. Agent: E. Batuck
Sales Mgr.: Merrill Simon

LAMINATED SHIM CO., INC.
9304 Union St., Glenbrook, Conn. (Tel. DAVIS 5-2631)
Purch. Agent: Frederick J. Thomas
Sales Dept.: M. Errica
V. P.-Sales: M. L. Lockwood

LAMPKIN LABS., INC., MR DIV.
Bradenton, Fla. (Tel. 6-1906)
Purch. Agent & Sales Mgr.: George C. Craig PS, G, CT, TT

LAM-PLY, INC.
16 Railroad Sq., Nashua 10, N. H. (Tel. TUxedo 2-5871)
Purch. Agent: Donald Cummings
Pres.: Edwin W. Zetterberg
Sales Mgr.: Robert V. Weston M

LAMSON CORP., THE
500 Lamsan St., Syracuse, N. Y. (Tel. HOWard 3-0221)
Purch. Agent: C. S. Estabroak
V. P.-Sales: C. Hennessy S

LAMSON & SESSIONS CO., THE
5000 Tiedeman Rd., Cleveland 9, Ohio (Tel. CLEARwater 2-3700)
Dir.-Purch.: Frank J. DeCrane
Asst. Mgr.-Aircraft Sales: Don H. Kluth
V. P.-Sales: J. G. Sarburn

LAMTEX INDUSTRIES INC.
Motor Ave., Farmingdale, N. Y. (Tel. MYrtle 4-2000)
Buyer: Irving Griman
V. P.-Sales: Hsing Liu M, RD

LANCASTER GLASS CORP.
Lancaster, Ohio (Tel. OLive 3-0311)
Purch. Agent: Homer Echard
Sales Mgr.: M. R. Haaver M

LAND-AIR INC., SUB-CALIFORNIA EASTERN AVIATION, INC.
7444 W. Wilson Ave., Chicago 31, Ill. (Tel. UNderhill 7-7550)
Purch. Agent: C. D. Mitchell
Mgr.-Field Mktg.: Rodney A. Stevens
Dir.-Comm. Sales: A. W. Crampton MS, G, CT, TT, RD

LANDIS & GYR, INC.
45 W. 45th St., New York 36, N. Y. (Tel. JUdson 6-4644)
Exec. V. P.: M. Wiesendanger
Sales Mgr.: John J. McNiff

LANE ELECTRONICS MFG. CORP.
7254 Atall Ave., North Hollywood, Calif. (Tel. TR 7-3267)
Purch. Agent: Philip A. Mattala
Sales Mgr.: Arden J. Lane RD

LANGEVIN DIV.-THE W. L. MAXSON CORP.
475 Tenth Ave., New York 18, N. Y. (Tel. LONGacre 5-1900)
Purch. Agent: John Tsagaris
Sales Mgr.: Robert A. Lambard MS, M, TT

LANGLEY CORP.
310 Euclid Ave., San Diego 12, Calif. (Tel. CONgress 4-3181)
Purch. Agent: R. H. Keeeyes
Mgr., Aircraft Sales: C. L. Phelps S, PS, MS, RD

LANTZ MFG. CO., INC.
902 Calumet Ave., Valparaiso, Ind. (Tel. HOWard 2-1168)
Secy.: Wilford N. Ugland

LAPHAM HICKEY STEEL CORP.
3333 W. 47th Pl., Chicago 32, Ill. (Tel. VI 7-0822)
Dir.-Sales: J. W. Davis M

ARTHUR S. LA PINE & CO.
6001 S. Knox Ave., Chicago 29, Ill. (Tel. REliance 5-4700)
Purch. Agent: John Baras
Asst. Purch. Agents: Ernest Rodrigue & John Olenke
Sales Mgr.: Donald Miller

LA POINTE INDUSTRIES INC.
155 W. Main St., Rockville, Conn. (Tel. TREmant 5-3351)
Purch.: E. Evans
Pres.: Y. H. Stillbach MS, G, TT, RD

LA POINTE MACHINE TOOL CO., THE
34 Tower St., Hudson, Mass. (Tel. JORDan 2-3444)
Purch. Agent: Ira J. Habeshian
V. P.-Sales: Joseph P. Crosby M, RD

LAPP INSULATOR CO., INC., RADIO SPECIALTIES DIV.
42 Gilbert St., LeRay, N. Y. (Tel. 385)
Purch. Mgr.: Dean H. Lapp
Sales Mgr.: Sumner P. Lapp M

CHARLES E. LARSON & SONS, INC.
2645-65 N. Keeler Ave., Chicago 39, Ill. (Tel. SP 2-9700)
Purch. & Sales: Charles M. Larson M

***LAVELLE AIRCRAFT CORP.**
Sterling St., Newtown, Bucks County, Pa. (Tel. WORTH 8-3838)
V. P. & Purch. Agent: H. A. Liese
Contracts Mgr.: Frank V. Kiefer
Chief Engr.: Adolph Herzog S, PS, MS
*(See advertisement this issue)

LA VEZZI MACHINE WORKS
4635 W. Lake St., Chicago 44, Ill. (Tel. ESTerbrook 8-1636)
Purch. Agent: Jerome J. Kremer
Sales Mgr.: Worth Baird MS, CT, TT

LAVOIE LABS., INC.
Matowan-Freehold Rd., Marganville, N. J. (Tel. LLOWell 6-2600)
Purch. Agent: G. F. Croddick
Buyers: N. Robinson & J. Higgins
Sales Admin.: A. P. Buckley MS, CT, RD

LAWRENCE PUMPS INC.
371 Market St., Lawrence, Mass. (Tel. MURdock 2-5249)
V. J. Mill, Jr.

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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LEA MFG. CO., THE
16 Cherry Ave., Waterbury 20, Conn. (Tel. PLozo 3-5116)
Dir.-Purch.: William D. Starr
V. P.-Sales: Richard P. Crane

LEACH CORP.
18435 Susana, Compton, Calif. (Tel. NE 6-1061)
Purch. Agent, Spec. Prod. Div.: Robert Burns
Purch. Agent, Relay Div.: Al Rose
Purch. Agent, Inet Div.: Rudy Jantz
V. P.-Sales: James Dysart MS, CT, TT, RD

LEACH & GARNER CO., INDUSTRIAL DIV.
School St., Attleboro, Mass. (Tel. ATtleboro 1-1155)
Purch. Agent: Preston Stevenson, Jr.
Gen. Mgr.-Sales: Gerold F. Tucci M

LEAK DIV.-BRITISH INDUSTRIES CORP.
80 Shore Rd., Port Washington, N. Y. (Tel. PD 7-7700)
Sales Mgr.: Roger Daniel

LEAR, INC.
3171 S. Bundy Dr., Santa Monica, Calif. (Tel. EX 1-7211)
Chm.-Bd.: W. P. Lear, Sr.
Pres.: A. G. Handschumacher
Exec. V. P.: K. R. Hahn
Sr. V. P. & Secy: P. E. Golde
Group V. P.'s: A. F. Haiduck & Roy J. Becnetti
Astronics Div.: 3171 S. Bundy Dr., Santa Monica, Calif. (Tel. EX 1-7211)
V. P. & Div. Gen. Mgr.: J. P. Brown
Contracts: E. J. Petersen
Purch. Agents: R. H. Loomis

Electro-Mechanical Div.: 110 Ionia Ave., N. W., Grand Rapids, Mich. (Tel. GLendale 1-1542)
V. P. & Div. Gen. Mgr.: T. K. Greenlee
Contracts: J. B. Harmon
Purch. Agent: O. Werts
Instrument Div.: 110 Ionia Ave., N. W., Grand Rapids, Mich. (Tel. GLendale 1-1542)
V. P. & Div. Gen. Mgr.: J. M. Walsh
Contracts: R. W. Richardson
Purch. Agent: R. S. Thies

Learn-Romec Div.: Abbe Rd., Elyria, Ohio (Tel. FAirfox 3-3211)
V. P. & Div. Gen. Mgr.: H. C. Andrus
Contracts: J. E. McKeighon
Purch. Agent: W. W. Wilbur
Service Div.: 110 Ionia Ave., N. W., Grand Rapids, Mich. (Tel. GLendale 1-1542)
Div. Gen. Mgr.: R. W. Harbison
Asst. Div. Gen. Mgr.: C. J. Hafner
S, MS, M, G, CT, TT, RD, HSE

LEBANON STEEL FOUNDRY
1st Ave. & E. Lehman St., Lebanon, Pa. (Tel. CR 3-1611)
Dir.-Purch.: C. R. Mease
Gen. Sales Mgr.: W. H. Flynn M

LEBEC CHEMICAL CORP.
14066 S. Garfield Blvd., Paramount, Calif. (Tel. NEvado 6-3381)
Purch. Agent: George Wolf
Pres.: John C. Plummer M, RD

R. K. LEBLOND MACHINE TOOL CO.
Madison & Edwards Rds., Cincinnati, Ohio (Tel. JEFFerson 1-0910)
Purch. Agent: Wm. McK. Reis
V. P.-Sales: B. N. Brockman

LECTROMH, INC.
5560 Northwest Hwy., Chicago 30, Ill. (Tel. RDney 3-1700)
Head-Purch. Dept.: Mrs. E. Newman
Head-Sales: J. Rinaldi

LEDEEN INC.
3350 N. Gilman Rd., El Monte, Calif. (Tel. CUMberland 3-3163)
Purch. Agent: E. J. Hoy
Sales Mgr.: Harold Rosoff CT

LEE CO., THE
523 Boston Post Rd., Old Saybrook, Conn. (Tel. EVergreen 8-3564)
Dir.-Purch.: E. Shields
Sales Mgr.: Albert B. Stevens RD

LEE ELECTRIC & MFG. CO.
2806 Clearwater St., Los Angeles 39, Calif. (Tel. NO 3-1295)
MS

LEECE-NEVILLE CO., THE
1374 E. 51st St., Cleveland 14, Ohio (Tel. HEnderson 1-0740)
Gen. Purch. Agent: James D. Barlow
V. P.-Sales: Harold J. Zuske RD

LEECRAFT MFG. CO., INC.
58-60 Greene St., New York 12, N. Y. (Tel. WOrth 6-2855)
Dir.-Purch.: N. R. Sherwin
Dir.-Sales: R. S. Nelson

LEEDS & NORTHRUP CO.
4970 Stenton Ave., Philadelphia 44, Pa. (Tel. DAVenport 9-4900)
Mgr.-Purch. Dept.: J. E. Jennings
Chief Buyer: C. E. Totoritis
Sales Mgr.: H. L. Scutt CT

LEEMATH INC.
Dak Dr., Syosset, N. Y. (Tel. WAlnut 1-3080)
Purch. Agent: Jean Z. Lebkuecher
Mgr.-Customer Relations: M. G. Gosselink, Jr. G, CT

LEETRONICS, INC.
30 Main St., Brooklynn 1, N. Y. (Tel. ULster 5-7163)
Purch. Agent: T. Dalton
Gen. Mgr.-Sales: D. M. Lerz, Jr. M, RD

LEFFINGWELL CHEMICAL CO.
P. D. Box 1187, Perry Annex, Whittier, Calif. (Tel. DWen 7-1716)
Purch. Agent: J. W. Kinsman
Sales Mgr., Indsl. Div.: A. J. Frieling M

LE FIELL MFG. CO.
3359 Pockers Ave., Los Angeles 58, Calif. (Tel. LUDlow 8-8266)
Purch. Agent: Frank Brink
Sales Prom.: R. B. Whitfield S, PS, MS, M, RD

LEGRIS RESISTOR CORP.
391 Riverdale Ave., Yankers 5, N. Y. (Tel. YDNkers 9-600)
Dir.-Sales: George Soderman MS, RD

LEHIGH STRUCTURAL STEEL CO.
17 Battery Pl., New York 4, N. Y. (Tel. WHitehall 4-1424)
Gen. Sales Mgr.: E. A. Murphy
Purch. Agent: T. C. Neil, Foot of Allen St., Allentown, Pa. (Tel. HEMlock 4-5221) S

LEIHAN BROTHERS, INC.
P. D. Box 1339, 146-181 Christie St., Newark 1, N. J.
Purch. Agent: Frank Crista
Sales Mgr.: J. R. Whipp

L E L, INC.
380 Dak St., Copiague, L. I., N. Y. (Tel. AM 4-2200)
Purch. Agent: Charles Lupa
Sales: C. A. Nuebling G, TT, RD

LELAND AIRBORNE PRODUCTS, DIV.-AMERICAN MACHINE & FOUNDRY CO.
P. D. Box 128, 740 E. National Hwy., Vandalia, Ohio (Tel. TWin Oaks 8-5881)
Purch. Agent: Walter Stump
Buyers: D. Bechal & M. Booher
Sales Mgr.: E. C. Jahns MS

G. H. LELAND, INC.
123 Webster St., Dayton 2, Ohio (Tel. BALdwin 4-9891)
Purch. Agent: Marris M. Wright
Sales Mgr.: Hans G. Belitz
Mgr., Materials: K. Woolley
Buyer: Leo Watkins G, CT, RD

LEMERT ENGRG. CO., INC.
1313 Western Ave., Plymouth, Ind. (Tel. WEBster 6-3430)
Head-Purch. Dept.: E. R. Lemert
Head-Sales: J. F. Sherrill S, RD

LENKURT ELECTRIC CO., INC.
1105 County Rd., Son Carlos, Calif. (Tel. LYtell 1-8461)
Mgr., Purch. & Materials: David Steinberg
Buyers: William Palmer & Gordon R. Mead
Mgr., Govt. Relations: Joseph R. Sherman MS, TT, RD

LENNOX TOOL & MACHINE BUILDERS
651 N. Boxter St., Lima, Ohio (Tel. CApiatal 6-5015)
Purch. Agent: Louis Kundert
Gen. Mgr.: L. W. Nichols
Sales Mgr.: W. V. Trosk

LENOX INSTRUMENT CO.
2010 Chancellor St., Philadelphia 3, Pa. (Tel. LQcut 6-6653)
Dir.-Purch.: John W. Long CT, RD

LENZ ELECTRIC MFG. CO.
1751 N. Western Ave., Chicago 47, Ill. (Tel. ARmitage 6-4454)

Purch. Agent: Charles M. Wilkins
Exec. V. P.: R. G. Zender M

WALLACE O. LEONARD, INC.
373 S. Fair Oaks Ave., Pasadena 1, Calif. (Tel. MURroy 1-4446)
Purch. Agent: Robert L. Todd
Contract & Sales Admin.: Kenneth I. Stubbs
Sales Mgr.: Harry D. Dickinson
Chief Engr.: R. V. Henry
Chief Test Engr.: L. D. Lyon MS, G, CT
(See advertisement this issue)

LEPEL HIGH FREQUENCY LABS. INC.
54-18 37th Ave., Woodside 77, N. Y. (Tel. HAVemeyer 6-4580)
Purch. Agent: Samuel Noimon
Mgrs.-Sales & Services: H. H. Wotjen & C. L. Jennings

LERCO ELECTRONICS, INC.
501 S. Vorney St., Burbank, Calif. (Tel. VICTario 9-5536)
Purch. Agent: Sylvia Gormang
V. P.-Sales: Harold J. Wittmeyer MS, G, CT, TT

LESLIE CO.
321 Delofield Ave., Lyndhurst, N. J. (Tel. GENEvo 8-8000)
Purch. Agent: T. Warcholik
Dir.-Sales: R. W. Baettiger MS

R. G. LETOURNEAU, INC.
2399 S. MacArthur, Langview, Texas (Tel. PLozo 3-4411)
Dir.-Purch.: John Williamson
Defense Proj. Sections: H. V. Anderson
V. P.-Sales: R. L. LeTourneau MS

LOUIS LEVIN & SON, INC.
3610 S. Broadway, Los Angeles 7, Calif. (Tel. ADams 3-7169)
Mgr.-Purch. & Sales: Samuel Levin

LEVINTHAL ELECTRONIC PRODUCTS, INC.
3180 Hanover St., Palo Alto, Calif. (Tel. DAVenport 6-1640)
Purch. Agent: Robert H. Shimer
Mgr., Applications Engrg.: Robert V. Johnson

LEVITON MFG. CO., INC.
236 Greenpoint Ave., Brooklyn 22, N. Y. (Tel. EV 3-4500)
Purch. Mgr.: Joe Wolfson
Sales Mgr.: Jack Armstrong

***LEWIS ENGRG. CO., THE**
339 Church St., Naugatuck, Conn. (Tel. PArk 9-5253)
Purch. Agent: M. N. Forde
Chief Field Engr.: H. D. Alexander M
(See advertisement this issue)

WARNER LEWIS CO., DIV.-FRAM CORP.
817 N. Lewis Pl., Tulsa, Okla. (Tel. WEBster 9-6386)
Purch. Agent: R. P. Leedy
Asst. Purch. Agent: Jesse L. Bailey
V. P.-Sales: T. R. Bradley MS

LEWIS & KAUFMAN
Box 337, Las Gatas, Calif. (Tel. EL 4-3540)
Purch. Agent: C. W. Streeter
Gen. Mgr.: A. J. Thompson RD

LEWIS & SAUNDERS, INC.
20 Bayside St., Lakeport, N. H. (Tel. LAkeside 4-2064)
Gen. Mgr.-Purch.: W. W. Saunders PS

LIBBEY-OWENS-FORD GLASS CO.
811 Madison Ave., Toledo 3, Ohio (Tel. CHerry 2-5781)
Dir.-Purch.: J. C. Diehl
V. P.-Sales: Clinton F. Hegg

LIBERTY MIRROR DIV., LIBBEY-OWENS-FORD GLASS CO.
851 Third Ave., Brokenridge, Pa. (Tel. ACADEmy 4-1800)
Purch. Agent: C. R. MacDonald
Gen. Mgr.: J. C. Dgje, Jr.

LIBRASCOPE DIV., GENERAL PRECISION, INC.
808 Western Ave., Glendale, Calif. (Tel. CITrus 4-6541)
Mgr., Material Dept.: M. L. Cowan
Asst. Purch. Agent: C. M. Brown PS, MS, M, G, TT, RD

LICON SWITCH & CONTROL DIV., ILLINOIS TOOL WORKS
6606 W. Dokin St., Chicago 34, Ill. (Tel. AVenue 2-4040)
Buyer: R. J. Salners
Dir.-Sales & Engrg.: J. O. Raeser M

- LIECO, INC.**
Syasset Industrial Park, Syasset, L. I., N. Y. (Tel. WAInut 1-6300)
Dir.-Purch.: James Mackey
Dir.-Sales: William McHugh MS, G
- A. LIETZ CO., THE**
80 Post St., San Francisco 9, Calif. (Tel. PRspect 6-0740)
Merchandising Mgr.: C. W. Cracker
Asst. Merchandising Mgr.: R. E. Hartman
Gen. Sales Mgr.: Paul Princlau M
- LIGHT METALS, INC.**
1100 E. 24th St., Indianapolis 5, Ind. (Tel. WAInut 6-4591)
Purch. Agent: Kenneth R. Goodwin
V. P.-Sales: Thomas H. Hargitt S, PS, MS, M, G, CT, TT, RD
- LINCOLN ELECTRIC CO., THE**
22801 St. Clair Ave., Cleveland 17, Ohio (Tel. IVanhoe 1-8100)
Dir.-Purch.: H. A. Burnip
Exec. V. P.-Sales: J. S. Roscoe
- LINDBERG ENGRG. CO.**
2450 W. Hubbard St., Chicago 12, Ill. (Tel. MDnroe 6-3443)
Purch. Agent: E. A. Griebel
Sales Mgr.: C. F. Burling
- LINDE CO., DIV.-UNION CARBIDE CORP.**
30 E. 42nd St., New York 17, N. Y. (Tel. MU 7-8000) M
- LINDGREN FOUNDRY CO.**
717 Main St., Batavia, Ill. (Tel. TRemant 9-1800)
Purch. Agent: E. N. Bayd
Works Mgr.: H. W. Miner M
- LINE MATERIAL INDUSTRIES, McGRW-EDISON CO.**
700 W. Michigan, Milwaukee 1, Wis. (Tel. BR 2-8777)
Purch. Agent: Robert Dison, 12th & Madison Sts., Milwaukee, Wis. (Tel. SD 2-2500)
- LINEAR, INC.**
State Rd. & Levick St., Philadelphia 35, Pa. (Tel. MA 4-4700)
Purch. Agent: H. Wolfe, Dallas, Pa. (Tel. DRchard 4-1541)
V. P.-Sales: F. A. Lewis PS, MS, M, G, RD
- LING ELECTRONICS DIV.-LING-ALTEC ELECTRONICS, INC.**
1515 S. Manchester Ave., Anaheim, Calif. (Tel. PRspect 4-2900)
Dir.-Purch.: H. D. Capeland
V. P.-Sales: Charles Theadore CT, RD
- LINK DIV., GENERAL PRECISION, INC.**
Hillcrest, Binghamton, N. Y. (Tel. RA 3-9311)
Purch. Agent: M. B. Bird
Asst. Purch. Agent: N. Taitch
V. P.-Sales: L. L. Kelly
- LINK-BELT CO.**
1700 Prudential Plaza, Chicago 1, Ill. (Tel. RAndolph 6-7790)
V. P.-Sales: David E. Davidson
Purch. Agent: Dan E. Cobb, Las Angeles 22, Calif. (Mail Address, Box 22056, 1200 Sycamore St., Mantebella, Calif.)
Purch. Agent: George Samps, 400 Paul Ave., San Francisco 24, Calif.
Purch. Agent: James T. McDonald, Box 10514, Sta. A., 1116 Murphy Ave., S. W., Atlanta 10, Ga.
Purch. Agent: Andrew K. Kalar, (Pershing Rd. Plt.) 300 W. Pershing Rd., Chicago 9, Ill.
Purch. Agent: Albert W. Weldon, (Caldwell Plt.) 2410 W. 18th St., Chicago 8, Ill.
Purch. Agent: Richard J. Joyce, 220 S. Belmont Ave., Indianapolis, Ind.
Purch. Agent: Marvin H. Cramer, 200 Lyndale Ave., N., Minneapolis 5, Minn.
Purch. Agent: Albert W. Boegner, Calmar, Pa.
Purch. Agent: F. Walter Skerrett, 2045 W. Hunting Park Ave., Philadelphia 40, Pa.
Purch. Agent: John H. Canada, Box 2563, 3203 South Wayside, Houston 1, Texas
Purch. Agent: Charles Percich, 3405 Sixth Ave., S., Seattle 4, Wash. MS, M
- LION FASTENER CO., INC.**
c/a Southca, Lester, Pa. (Tel. LEhigh 4-1800)
Purch. Agent: C. R. Hirzel
Sales: T. R. Dunlevy M
- EDWIN A. LIPPS ENGRG.**
1511 Calarada Ave., Santa Monica, Calif. (Tel. EX 3-0449)
Prod. Supvr.: Verman Geier
Gen. Mgr.: B. D. Lipps CT, TT
- LIQUID CARBONIC DIV.-GENERAL DYNAMICS CORP.**
135 S. LaSalle St., Chicago 3, Ill. (Tel. Financial 6-8181)
Purch. Agent: Owen Mathews
Gen. Sales Mgr., Carbon Dioxide: E. N. Batchelor
Gen. Sales Mgr., Indsl. Gases: Edward Elliott, Jr.
V. P.-Sales: H. C. Mathey MS, M, CT, RD
- LIQUIDOMETER CORP., THE**
41-03 36th St., Long Island City 1, N. Y. (Tel. STIllwell 4-1440)
Purch. Agent: Richard H. Hagan
V. P.-Sales: Harry T. Cullinan
- G. W. LISK CO., INC.**
Clifton Springs, N. Y. (Tel. HDward 2-2611)
Dir.-Sales: I. A. Marris PS, MS, G, CT, TT, RD
- LITHIUM CORP. OF AMERICA, INC.**
1100 Title Ins. Bldg., Minneapolis 1, Minn. (Tel. Federal 2-7451)
Mgr., Chemical Sales Dept.: J. D. Campbell, 60 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-5855)
Mgr., Mech. Products Dept., Fulton-Irgon Div.: N. David Fulton, P. D. Box 591, Dover, N. J. (Tel. FDcraft 6-7474) PS, M, RD
- LITHIUM CORP. OF AMERICA, INC., FULTON-IRGON DIV.**
P. O. Box 591, Dover, N. J. (Tel. FOcraft 6-7474)
Div. Mgr.: David Fulton
Purch. Agent: John Byrne
Sales Mgr.: A. Schellman PS, RD, HSE
- LITHO-ETCH METAL NAME PLATE CO.**
323 Sand View Ave., New York 72, N. Y. (Tel. TYrane 3-7350)
Dir.-Purch.: Michael Erra
Foreman: Pat Erra
Mgr.: Al-Canti
- LITTELFUSE, INC.**
1865 Miner St., Des Plaines, Ill. (Tel. VAnderbilt 4-1188)
V. P.-Dist. Sales: W. A. Clements
V. P.-Mfg. Sales: H. A. Cornelius
- ARTHUR D. LITTLE, INC.**
35 Acorn Park, Cambridge 40, Mass. (Tel. UNiversity 4-5770)
Chief Purch. Agent: Daniel Leane
Dir.-Sales, Engrg. Div.: John Harvell RD
- LITTON ENGRG. LABS.**
P. D. Box 949, Grass Valley, Calif. (Tel. Grass Valley 1730)
Purch. Agent: Mrs. Grace Martz
Gen. Mgr.: F. L. Towne M
- LITTON INDUSTRIES**
336 N. Foothill Rd., Beverly Hills, Calif. (Tel. CRestview 4-7411)
Public Relations: C. V. Mecanis G, TT, RD, HSE
- LITTON INDUSTRIES, MARYLAND DIV.**
4900 Calvert Rd., Callee Park, Md. (Tel. UNion 4-5678)
Dir.-Purch.: Jack Limzaine
Buyers: Bruce Bayliss & Thomas McNamara MS, G, CT, TT, RD
- LITTON INDUSTRIES, U. S. ENGRG. CO. DIV.**
13536 Saticoy St., Van Nuys, Calif. (Tel. ST 6-9381)
Purch. Agent: Richard J. Lee
Sales Mgr., Electronic Hardware: Paul J. Rabichaud
Sales Mgr., Printed Circuits: Richard J. Kuri
- LIVERMONT, INC.**
Myrtle & Maple Aves., Monrovia, Calif. (Tel. ELliott 9-2555)
Purch. Agent: J. F. Hubbard
V. P.-Purch.: J. R. Ewell
Dir.-Mktg.: H. B. Banta, Jr.
- LIVINGSTON ELECTRONIC CORP.**
27 Runymede Rd., Essex Fells, N. J. (Tel. Capital 6-3333)
Prod.: Charles L. Nalte
Pres.: Charles E. Smiley MS, RD
- LOCKHEED AIRCRAFT CORP., MISSILES & SPACE DIV.**
1122 Jagels Rd., P. O. Box 504, Sunnyvale, Calif. (Tel. REgent 9-3421)
Gen. Purch. Agent: L. G. Sinning
Dir.-Market Dev.: Wilbur D. Snow S, PS, MS, G, CT, TT, RD, HSE
- LOCKHEED ELECTRONICS CO., STAVID DIV.**
U.S. Hwy. 22, Plainfield, N. J. (Tel. PL 7-1600)
Purch. Agent: J. H. Tehami
Dir.-Contracts & Sales: H. J. Bradford G, CT, TT, RD
- LOCKREY CO., THE, LUBRICANTS DIV.**
P. O. Box J, Southampton, N. Y. (Tel. SDurhampton 1-0278)
Purch. Agent: John Anderson
Sales Mgr.: D. I. McMeekan M
- LODGE & SHIPLEY CO., THE**
3055 Calerain Ave., Cincinnati 25, Ohio (Tel. Klrby 1-4774)
Purch. Agent: John Bates
Gen. Sales Mgr.: Donald O. Edwards
Sales Prom. Mgr.: Walter N. Foster S
- LOEWY-HYDROPRESS INDUSTRIAL EQUIPMENT DIV., BALDWIN-LIMA-HAMILTON CORP.**
111 Fifth Ave., New York 3, N. Y. (Tel. DRegan 7-5030)
Gen. Mgr.: Frederick F. Fielder
Sales: Paul Mayer
Purch. Mgr.: John Swanberg
- LOFSTRAND CO., THE**
Southlawn Lane, Rockville, Md. (Tel. HAZlewood 7-7280)
Purch. Agent: G. M. Chadwick
V. P.-Sales: Henry Clark S, MS
- J. M. LOGE, SOUND ENGINEERS**
2171 W. Washington Blvd., Los Angeles 18, Calif. (Tel. REpublic 4-9178)
Purch. Agent: Merle Adkins
Dir.-Sales: J. M. Loge
- LOGETRONICS INC.**
500 E. Monroe Ave., Alexandria, Va. (Tel. TE 6-5180)
Purch. Agent: William F. Hamilton
Dir.-Sales: Gordon O. F. Johnson G
- LONDON CHEMICAL CO., INC.**
1535 N. 31st Ave., Melrose Park, Ill. (Tel. AUstin 7-9495)
Purch. Agent: R. I. Schub
Sales Mgr.: K. W. Anderson M
- LONE STAR PLASTICS CO. INC.**
374 Roberts Cut Off Rd., P. O. Box 12007, Fort Worth, Texas (Tel. PE 2-1437)
Purch. Agent: Mrs. Catherine Hare
Dir.-Operations: Crestan Perrin
Sales Mgr.: W. P. Fralia PS, M
- THOMAS J. LONG, INC.**
215 Stonehenge Lane, Carle Place, L. I., N. Y. (Tel. EDgewood 4-2300)
Asst. to V. P.: John J. Skelly
Sales Mgr.: Norman A. Terry M, G, CT, RD
- W. D. LONG PACKAGING CO.**
157 Santa Clara St., Arcadia, Calif. (Tel. Hillcrest 7-1237)
Dir.-Purch.: W. D. Long
- LORAL ELECTRONICS CORP.**
825 Brann River Ave., New York 72, N. Y. (Tel. Tlvali 2-9500)
Dir.-Material: Seymour Frost
V. P.-Sales: E. M. Siegel MS, RD
- LORD MFG. CO.**
1635 W. 12th St., Erie, Pa. (Tel. Glendale 6-8511)
Purch. Agent: D. P. Cobb
Buyers: H. F. Hultgren & J. E. Prettyman
Mgr., Mktg.: J. C. Mitchell S, MS, M
- LOVEJOY FLEXIBLE COUPLING CO.**
4949 W. Lake St., Chicago 44, Ill. (Tel. ES 9-3010)
V. P.-Purch.: C. P. Hennessy
Purch. Agent: Leslie Cousins
V. P.-Sales: W. B. Briggs
- LUBER-FINER INC.**
2514 S. Grand Ave., Los Angeles 7, Calif.
- LUCIFER FURNACES INC.**
374 Easton Rd., Neshaminy, Pa. (Tel. DI 3-0411)
Gen. Mgr.-Purch. & Sales: S. J. Stea
Engr.: J. Shingle
Pres.: C. Dinan RD

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Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- LUKENS STEEL CO.**
1st Ave., Coatesville, Pa. (Tel. 2000)
Purch. Agent: Albert Gudal
Dir.-Purch.: Edmund Pfeifer
Supvr.-Stores & Material: Thomas A. O'Hara
Buyers: Wilmer Montgomery, John M. Oavis, Oanold Oavis & Arthur M. Oaggett MS, M
- LUMEN, INC.**
Maen Ave., P. O. Box 905, Joliet, Ill. (Tel. SArotaga 3-9324)
Purch. Agent: James T. McGrath
Asst. Purch. Agent: John Voychak
Sales Mgr., Components: Hal Borgen
Sales Mgr., Govt.: Robert H. Johnson MS, G, TT, RO
- LUNOY MFG. CORP.**
Glen Head, L. I., N. Y. (Tel. ORiole 6-1440)
Purch. Agent: Joseph A. Barbado
Buyers: Ourell Piersall & John Kamst
Pres.: R. C. Barbado MS, G, RO
- LUNN LAMINATES, INC.**
Oakwood Rd. & W. 11th St., Huntingtan Station, N. Y. (Tel. Hamilton 3-7200)
Purch. Agent: Edward W. Kirchner
Pres.: James S. Lunn
Buyer: Gerard P. Gregor S, MS
- LUX CLOCK MFG. CO., INC.**
95 Johnson St., Waterbury, Conn. (Tel. PL 6-3661)
Purch. Agent: Arthur Kunkel, Jr.
Asst. Purch. Agent: Carl Hungerford
Indst. Sales Mgr.: Eugene T. Crandall
- LUZERNE RUBBER CO.**
Muirhead Ave., Trenton, N. J. (Tel. EXpart 2-4131)
Purch. Agent: William Gummere
Sales Mgr.: M. J. Kearney, Jr. M
- LYCOMING DIV., AVCO CORP.**
550 S. Main St., Stratford, Conn. (Tel. ORExel 8-8211)
Dir.-Materials: Frank J. Larkins
Purch. Mgr.: George J. Rapyano
Purch. Agent: O. E. Kirby
Sales Mgr.: Stanley R. Bradhead S, PS, MS, M, CT, TT, RD
- R. H. LYNCH MFG. CO.**
7831 E. Arroya Or., South San Gabriel, Calif. (Tel. AT 0-3810)
Pres.: R. H. Lynch
V. P.-Sales: J. W. Lynch
- LYNCH CARRIER SYSTEMS INC.**
695 Bryant St., San Francisco 7, Calif. (Tel. EXbrook 7-1471)
Purch. Agent: J. E. Gilchrist
Sales Mgr.: E. B. Stone
- LYNCOACH & TRUCK CO., INC.**
440 Chestnut St., Oneonta, N. Y. (Tel. GENEral 2-2900)
Purch. Agent: Royce Stroit
Pres.: James Friery
Sales Mgr.: Charles MacLean MS
- LYON AIRCRAFT SERVICES**
2701 N. Ontario St., Burbank, Calif. (Tel. Victoria 9-3317)
Mgr.-Prod. & Engrs.: W. F. McCann
Gen. Mgr.: Ralph C. Butler M
- LYON METAL PRODUCTS, INC.**
6 Railroad Ave., Aurora, Ill. (Tel. TWinaaks 7-8421)
Dir.-Purch.: S. C. Senyard
Gen. Sales Mgr.: Lea F. Tilly
- LYON VAN & STORAGE CO., AIRCRAFT DIV.**
2701 N. Ontario St., Burbank, Calif. (Tel. Victoria 9-3317)
Prod. Mgr.: William F. McCann
Gen. Mgr.: Ralph C. Butler M
- LYTEL CORP.**
1404 San Mateo, S.E., Albuquerque, N.M. (Tel. AMherst 8-3311)
Supvr., Purch. Dept.: Perry Weaver
Exec. Engr.: Julian Prade M
- LYTLE ENGRG. & MFG. CO.**
1404 San Mateo, S.E., Albuquerque, N. Mex. (Tel. ALpine 5-1671)
Purch. Agent: Perry Weaver
Otv. Mgr.-Sales: L. V. Julihn MF, WN, PS, GS, GH, GE, CO, TS, TR
- MB ELECTRONICS**
P. O. Box 1825, New Haven 8, Conn. (Tel. FULTon 9-1511)
- Purch. Agent: Carl Verderame**
Chief Sales Engr.: A. C. Deichmiller CT
- M. C. MFG. CO.**
P. O. Box 126, 118 Indianwau Rd., Lake Orion, Mich. (Tel. MYrtle 2-2711)
Buyer: R. Rhoades
Sales: H. P. Ott PS, MS
- M-O BLOWERS, INC.**
100 Fourth St., Racine, Wis. (Tel. MELrose 4-5521)
Purch. Agent: Parker Tharnton
Sales Mgr.: Davis Spencer MS
- MEO PRODUCTS, DIV., MANDREL INDUSTRIES, INC.**
2950 N. Ontario St., Burbank, Calif. (Tel. Victoria 9-2341)
Purch. Agent: B. E. Roper
Gen. Sales Mgr.: Edward J. Stephens
- MPM, INC.**
9110 George Ave., Cleveland 5, Ohio (Tel. BRoadway 1-4456)
V. P.-Purch.: A. B. Cook
Sales Engr.: J. M. Van Walshausen
- M & Q PLASTIC PRODUCTS**
Barnord St., Freehold, N. J. (Tel. FREehold 8-6663)
V. P.-Purch.: William Menges
Pres.: Frank Quinn M
- MSA RESEARCH CORP.**
Callery, Pa. (Tel. EVans City 3510)
Purch. Agent: R. C. Baird
Buyer: E. L. Oviatt
Dir.-Mktg.: C. H. Staub RO
- M-W LABS., INC.**
1824 N. Milwaukee Ave., Chicago, Ill. (Tel. DICKens 2-4020)
Plant Supt.: Norbert Sajdera
Gen. Mgr.: K. A. Oarmeyer
- MAAS & WALDSTEIN CO.**
2121 McCarter Hwy., Newark 4, N. J. (Tel. HUMBolt 4-1600)
Purch. Agent: James Oawd
Sales Mgr., Eastern Div.: Oon Volina
Sales Mgr., Mid-West Div.: Charles Berry M
- MACARR, INC.**
4360 Bullard Ave., New York 66, N. Y. (Tel. FA 5-5510)
Purch. Agent: Frank LaMantip
Pres.: Philip P. Bruno
- MACHINE PRODUCTS DIV., NEW HAVEN TRAP ROCK CO.**
Route 80, N. Branford, Conn. (Tel. HUBbord 4-0444)
Purch. Agent: S. J. Barscansky
Asst. Purch. Agent: S. E. Engstrom
Chief Buyer: W. C. Oahill
Div. Sales Mgr.: O. A. Briggs PS, MS
- MACKAY RESEARCH LABS.**
P. O. Box 738, Benson, Ariz.
Dir.-Purch.: Diane Mackoy
Dir.-Sales: Sanders Mackoy RD
- MACKENZIE WALTON CORP.**
478 Pawtucket Ave., Pawtucket, R. I. (Tel. PAwtucket 2-6837)
Purch. Agent: Oon M. Cowley
Gen. Mgr. & V. P.: N. W. Fulton
Supt.: J. L. Schaefer
Sales Mgr.: Morris Wuerpel M
- MACLEOD & HANOPOL, INC.**
10 Roland St., Charlestown 29, Mass. (Tel. MO 6-2171)
Pres.: A. O. Macleod
- MACWHYTE WIRE ROPE CO.**
2906 14th Ave., Kenosha, Wisc. (Tel. OLYmpic 4-5381)
Purch. Agent: John Goodwin
V. P.-Sales: F. O. Halden M
- MAOIGAN CORP.**
200 Stonehinge Lane, Carle Place, L.I., N. Y. (Tel. EO 4-2500)
Exec. V. P.-Purch.: Ciro F. Amadeo
Dir.-Mktg.: Norbert E. Andres MS, CT, TT, RO
- MAGEE-BRALLA & ASSOCIATES**
3361 Notional Ave., San Otega 13, Calif. (Tel. BE 3-7769)
Partners: Robert L. Brollo & J. Rodgers Magee MS, RO, HSE
- MAGLINE INC.**
1802 Mercer St., Pinconning, Mich. (Tel. TRIangle 9-2411)
- Purch. Agent: Roy Scholrer**
Gen. Sales Mgr.: Stanley R. See S, M
- MAGNAFLUX CORP., SUB-GENERAL MILLS, INC.**
7328 W. Lawrence Ave., Chicago 31, Ill. (Tel. Underhill 7-8000)
Purch. Agent: C. O. Ceske
Asst. Purch. Agent: L. Ondacek
V. P.-Sales & Mktg.: R. O. Schiebel CT, RD
- MAGNASYNCR CORP.**
5546 Satsuma Ave., N. Hollywood, Calif. (Tel. TRIangle 7-5493)
Electronics Purch.: George Duerr
Mechanical Purch.: Louis Schirm MS, TT
- *MAGNAVOX CO., THE**
2131 Bueter Rd., Ft. Wayne, Ind. (Tel. E 3967)
Dir.-Purch.: Warren Frebel (Tel. E 9721)
Mgr.-Gov't. Div.-Sales: Oavid W. Martin G, RD
*(See advertisement this issue)
- MAGNECRAFT ELECTRIC CO.**
3352 W. Grand Ave., Chicago 51, Ill. (Tel. EVERglade 4-6868)
Dir.-Purch.: Roy Pettifard
Asst. Sales Mgr.: J. E. Oeimel
Dir.-Sales: H. O. Steinback
- MAGNE-HEAD DIV., GENERAL TRANSISTOR CORP.**
2660 S. La Cienega Blvd., Las Angeles 34, Calif. (Tel. UPton 0-8601)
Purch. Agent: H. Aspinwail
Buyers: C. Ellis & V. Carver
Dir.-Sales: Martin Broude G, TT, RD
- MAGNESIUM CO. OF AMERICA**
3801 N.W. 36th Ave., Miami 42, Fla. (Tel. NE 4-2672)
Purch. Agent: M. Cochrane
Sales Mgr.: A. L. Leach S
- MAGNETIC CIRCUIT ELEMENTS, INC.**
3722 Park Place, Montrose, Calif. (Tel. CH 8-4040)
Pres.: John S. Conklin
Chief Engr.: Ken Halmes
Mfg. Supvr.: Tom Reid
Sales Mgr.: Arthur Engstrom M, G, CT, TT
- MAGNETIC CONTROLS CO.**
6405 Cambridge St., Minneapolis 26, Minn. (Tel. WE 9-4691)
Dir.-Proc.: G. G. Bezot
Purch. Agent: J. J. Melhoff
Sales Mgr.: M. L. Mullin G, TT
- MAGNETIC CORE CORP.**
John & Lawrence Sts., Newburgh, N. Y. (Tel. NEwburgh 5116)
Purch. Agent: R. G. Burdick
Sales: Robert Webb M
- MAGNETIC DEVICES, INC.**
712 East St., Frederick, Md. (Tel. MO 2-2144)
Purch. & Sales Dept.: F. J. Cook MS
- MAGNETIC INSTRUMENT CO., INC.**
687 Commerce St., Thornwood, N. Y. (Tel. ROgers 9-5312)
Purch. Agent: Richard O. Levine
Sales Mgr.: Robert J. Levine CT, RD
- MAGNETIC METALS CO.**
Hoyes Ave. at 21st St., Camden 1, N. J. (Tel. WOADlawn 4-7842)
Plant Engr.: A. F. Fischer
Asst. Plant Engr.: R. L. Oulaney
Purch. Agent: R. L. Stinson
V. P.-Sales: W. J. Miller M
- MAGNETIC RESEARCH CORP.**
3160 W. El Segundo Blvd., Hawthorne, Calif. (Tel. OSborne 5-1171)
Purch. Agent: Richard Hill
Sales Mgr.: H. A. Schmidt MS, RD
- MAGNETIC SEAL CORP.**
166 Bay Spring Ave., West Barrington, R. I. (Tel. CHerry 5-4800)
Purch. Agent: Everett E. Comey
Otr.-Sales: George E. Colby M
- MAGNETIC SHIELD DIV.-PERFECTION MICA CO.**
1322 N. Elston Ave., Chicago 22, Ill. (Tel. EVERglade 4-2122)
Purch. Agent: Henry Hucksold M
- MAGNETICO, INC.**
6 Richter Cr., E. Northport, L. I., N. Y. (Tel. ANDrew 1-4502)
Purch. Agent: Mrs. N. O'Brien
Otr.-Purch.: H. Eicher
Mgr.-Amplifier Oiv.: E. Oa Porma
V. P.-Sales: Mark A. Borry M, G, RO

MAGNUS CHEMICAL CO., INC.
102 South Ave., Garwood, N. J. (Tel. SU5net 9-0200)
Purch. Agent: George Slaughter
Gen. Mgr.-Sales: E. H. Peterson M

MAGTROL, INC.
240 Seneca St., Buffalo 4, N. Y. (Tel. TL 6-7451)
Dir.-Purch.: James F. Duncan
Sales Mgr.: John E. Traise

R. C. MAHON CO., THE
6565 E. 8 Mile Rd., Detroit 34, Mich. (Tel. JE 6-8200)
Purch. Agent: C. D. Tucker S

MAICO ELECTRONICS, INC.
21 N. 3rd St., Minneapolis 1, Minn. (Tel. FEederal 9-7041)
V. P.-Indsl. Sales: J. T. Ume
Purch. Agent: John M. Wheeler
Asst. Purch. Agent: William E. Cunningham RD

MAIDA DEVELOPMENT CO.
214 Academy St., Hampton, Va. (Tel. PArk 3-0785)
Purch. Agent: R. J. Clapton
Pres.: F. X. Maida G, CT, TT

MAJOR TOOL & MACHINE, INC.
1719 N. Cornell Ave., Indianapolis 2, Ind. (Tel. WAlnut 5-9616)
Purch. Agent: Charles Dacoma
Dir.-Sales: J. A. Briere S, MS

MAK INDUSTRIES, INC.
1938 Park Ave., New York 37, N. Y. (Tel. TOMPkins 2-1660)
Dir.-Purch.: Miss M. Devas
Pres.: Mark N. Kert M

MALCO MANUFACTURING CO.
4025 W. Lake St., Chicago 24, Ill. (Tel. Van Buren 6-9300)
Purch. Agent: Walter J. Kulins
Sales Mgr.: Anthony Daidone M

P. R. MALLORY & CO. INC.
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Dir.-Purch.: George C. Mercer
Purch. Agent, Capacitor Co.: C. A. Riemann
Purch. Mgr., Metallurgical Co.: W. J. Tapmiller
Purch. Mgr., Controls Co.: A. J. Rogers
Purch. Mgr., Elkon Div.: Ralph Meyers
Purch. Mgr., Electronics Div.: A. M. Sheehon
V. P.-Mktg.: H. C. Buell MS, M, RD

MALLORY-SHARON METALS CORP.
980 Warren Ave., Niles, Ohio (Tel. OL 2-9951)
V. P. & Gen. Mgr.: E. J. Cranin, Jr.
Dir.-Purch. & Traffic: B. E. Marquis M

MAMCO CORP.
532-542 Fourth St., Racine, Wis. (Tel. MEIrose 4-1923)
Purch. Agent: J. H. Anderson
Buyer: R. Haluska
Sales Mgr.: F. E. Schumacher

MANGER ELECTRIC CO., INC.
N. State St., Stamford, Conn. (Tel. FIreside 8-7761)
Purch. Agent: James Judge
Sales Mgr.: B. L. Manger MS, G, CT, TT, RD

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16 Warren St., New York 7, N. Y. (Tel. WO 4-5594)
Mgr., Elec. Dept.: Arthur Cohen
Mgr., Hdwe. Dept.: Lea Bierster
Dir.-Sales: Arnold Denmark M

MANNING & LEWIS ENG. CO.
675 Rahway Ave., Union, N. J.
Purch. Agent: Robert H. Bender
Dir.-Sales: H. G. Gamble

MANSON LABORATORIES, INC.
375 Fairfield Ave., Stamford, Conn. (Tel. DAVIS 5-1391)
M. Seroy RD

MARATHON BATTERY CO.
840 Henrietta St., Wausau, Wisc. (Tel. VI 2-2025)
Purch. Agent: C. W. Piehl
Secy.-Treas.: E. D. McEachran

MARBLETTE CORP., THE
37-31 30th St., Long Island City 1, N. Y. (Tel. Stillwell 4-8100)
Research Dir.: Max Hilrich M, RD

MARBON CHEMICAL DIV.-BORG-WARNER CORP.
P. O. Box 68, Washington, W. Va. (Tel. GARfield 2-5401)
Dir.-Purch.: Rhoda M. Stewart
V. P. & Sales Mgr.: D. M. Pratt
Sales Mgr., Cyclocal: W. A. Suter

MARCHANT MACHINING CORP.
4704 Rhode Island Ave., Hyattsville, Md. (Tel. WA 7-6203)
Secy.-Mgr.: John E. Harris M

MARCO INDUSTRIES CO.
207 S. Helena St., Anaheim, Calif. (Tel. KEystone 5-6037)
Purch. Agent & Prod. Supt.: F. C. Loehning
Sales Mgr.: W. W. Bowles MS, G, CT, TT

MARCONI INSTRUMENTS
111 Cedar Lane, Englewood, N. J. (Tel. LOwell 7-0607)
Mgr.-Purch.: R. J. Bailey
Asst. Sales Mgr.: W. A. Buck TT

MARGINATOR CO.
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V. P.-Sales: Harold R. Fay CT

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Manchester, N. H. (Tel. National 5-6971)
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Buyer: R. Mahoney
V. P.-Sales: E. S. Maury

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5439 W. Fargo Ave., Skokie, Ill. (Tel. ORchard 5-1500)
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Dir.-Sales: E. Harris CT, TT, RD

MARKEM MACHINE CO.
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Purch. Agent: C. E. Titcomb
Gen. Sales Mgr.: Robert Mensel

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Purch. Agent: Jules Livingston
V. P.-Sales: Herbert A. Gattschall MS, G, CT, TT, RD

MARLIN-ROCKWELL CORP.
402 Chandler St., Jamestown, N. Y. (Tel. 61-541)
Dir.-Purch.: C. A. Berg
Purch. Agent: G. J. Paquin
Asst. Purch. Agent: J. C. Slagle
V. P. & Gen. Sales Mgr.: B. J. Shallow M, RD

MARLO COIL CO.
7100 S. Grand Ave., St. Louis 11, Mo. (Tel. VE 2-5000)
Purch. Agent: K. Guilleming
V. P.-Sales: L. C. Pellegrini MS

MARMAN DIV., AEROQUIP CORP.
11214 Exposition Blvd., Los Angeles 64, Calif. (Tel. GRANite 3-0932)
Purch. Agent: W. E. Flaherty
Gen. Sales Mgr.: T. J. Jasalle S, PS, MS, CT, RD

MAROTTA VALVE CORP.
Boonton Ave., Boonton, N. J. (Tel. DEerfield 4-7800)
Purch. Agent: Harold Richards
Sales Mgr.: Del Olson PS, MS, G, CT

MARQUARDT AIRCRAFT CO.
16555 Saticoy St., Van Nuys, Calif. (Tel. STATE 1-2121)
Mgr.-Material: R. G. Francis
Mgr.-Material: P. C. Taylor (Ogden Div., Ogden, Utah, Tel. EXport 4-4511)
Purch. Agent: Wayne Jordan (Pamona Div., Pamona, Calif., Tel. LYcoming 3-1311) PS, GS, CO, TS, RD

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16555 Saticoy St., Van Nuys, Calif. (Tel. STore 1-2121)
Purch. Agents: G. F. Gregg, J. M. Holloway, P. H. Shank
Dir.-Mktg.: P. J. Papanek S, PS, MS, M, CT, TT, RD

MARSH INSTRUMENT CO., DIV.-COLORADO OIL & GAS CORP.
3501 Howard St., Skokie, Ill. (Tel. ORchard 3-4300)
Purch. Agent: P. Keppeler
V. P.-Sales: R. E. Barnett CT, RD

MARSH STENCIL MACHINE CO.
707 E. B Street, Belleville, Ill. (Tel. ADams 4-1122)
Pres.: Walt Marsh
Secy.: E. J. Marsh
Treas.: John Marsh M

MARTIN CO., THE, BALTIMORE DIV.
Baltimore 3, Md. (Tel. MURdock 7-3800)
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Proc. Dir., Electronics Div.: H. A. Stricker

MARTIN CO., THE, DENVER DIV.
P. O. Box 179, Denver 1, Colo. (Tel. PYramid 4-5211)
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Dir., Fabrication Div.: R. N. Blakey
Dir., Requirements Div.: O. E. Tibbs S, PS, MS, M, G, CT, TT, RD, HSE
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P. O. Box 5837, Orlando, Fla. (Tel. CHerry 1-2411)
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Dir.-Sales & Weapon System Support: C. O. Wingate

MARTIN MACHINE WORKS, INC.
P. O. Box 230, N. Lindell St., Martin, Tenn. (Tel. 5-1373)
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Plant Supvr.: Spydell Davidson S

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1375 Hird Ave., Cleveland 7, Ohio (Tel. LAKewood 1-8567)
Purch. Agent: C. H. Rueter
V. P.: William N. Osburn, Sr.
Sales Mgr.: J. W. Ackerman M

MARTIN-DECKER CORP.
3431 Cherry Ave., Long Beach 7, Calif. (Tel. GA 4-1696)
Purch. Agent: Frank Carson
Indsl. Sales Mgr.: Clayton Haward MS, CT

MASON ELECTRIC CORP.
3839 Verdugo Rd., Las Angeles 65, Calif. (Tel. CLinton 5-1431)
Purch. Agent: William J. Eagan
Sales Mgr.: William H. Moore MS

MASONITE CORP.
111 W. Washington, Chicago 2, Ill. (Tel. FRanklin 2-5644)
Purch. Agent: W. M. Morrison
Gen. Sales Mgr.: F. O. Mariani M

MASON-NEILAN
Nahatan St., Norwood, Mass. (Tel. NORwood 7-4600)
Purch. Agent: F. J. Kenney
Asst. Purch. Agent: L. Racheleau
Sales Mgr.: J. M. McAlear
V. P.-Sales: C. W. Gram (Tel. ELdorada 5-1525) MS

MASSA DIV.-COHU ELECTRONICS, INC.
5 Fottler Rd., Hingham, Mass. (Tel. RIview 9-4800)
Purch. Agent: Robert R. Thomas
V. P. & Gen. Mgr.: Ernest A. Massa
Buyer: Herbert Phillips G, CT

MASSACHUSETTS GEAR DIV.-GEARTRONICS CORP.
918 Main St., W. Concord, Mass. (Tel. TWinoaks 7-2971)
Purch. Agent: G. Reid
Sales Mgr.: F. H. Keane M

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4125 W. Jefferson Blvd., Los Angeles 16, Calif. (Tel. RE 1-2251)
Pres.: Samuel Goldstein (Tel. RI 7-0638)
Mgr.: Joe Goldfarb (Tel. RI 7-0639)

MASTER SPECIALTIES CO.
956 E. 108th St., Las Angeles 59, Calif. (Tel. LORain 4-4481)
Purch. Agent: William Smith
Head-Sales: T. W. Hallerberg MS

MASTER TAPE PRINTERS
3400 N. Halsted St., Chicago 13, Ill. (Tel. EAstgate 7-3322)
Gen. Mgr.: Louis J. Dorfmeister
Head-Sales: Ruth G. Dorfmeister

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- MATHIAS KLEIN & SONS, INC.**
7200 McCarmick Rd., Skakia, Chicago 45, Ill. (Tel. JUniper 8-6820) M
- JAS. H. MATTHEWS & CO.**
3764 Forbes Ave., Pittsburgh 13, Pa. (Tel. MUsum 1-8500)
Purch. Agent: G. Gray, 3942 Forbes Ave., Pittsburgh 13, Pa.
V. P.-Sales: T. J. Miers
- J. A. MAURER, INC.**
37-01 31st St., Long Island City 1, N. Y. (Tel. SStillwell 4-4600)
Sales Mgr.: Frank J. Kelly
Asst. Secy.: Leon Shaw
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266 Baston Past Rd., Milford, Conn. (Tel. TR 4-7827)
Dir.-Purch.: F. C. Maurer, Sr.
Dir.-Sales: F. C. Maurer, Jr. S
- MAUREY INSTRUMENT CORP.**
7924 S. Exchange Ave., Chicago 17, Ill. (Tel. RE 1-1717)
Purch. Agent: Thomas F. Marris
Gen. Sales Mgr.: Joseph Papp G, TT, RD
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Secy.-Treas.: Wesley F. McCathron S, MS
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Purch. Agent: Anthony Schneider
Dir.-Applications Engrg.: Hubert I. Bennett S, PS, MS, RD
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Mount Holly Springs, Pa. (Tel. HUnter 6-3411)
Purch. Agent: William Shade
Sales Mgr.: David B. Jacoby M, G, TT, RD
- JULIAN A. McDERMOTT CORP.**
1639 Stephen St., Ridgewood, L. I. 27, N. Y. (Tel. GL 6-3606)
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Mgr.-Purch.: W. J. Gamewell
Mgr.-Subcontracts: W. P. Becker
V. P.-Customer Service: J. F. Aldridge S, PS, MS, G, CT, RD, HSE
- MCDOWELL MFG. CO.**
301 Stanton Ave., Pittsburgh 9, Pa. (Tel. TAYlar 1-1333)
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Sales Mgr.: Rodger S. Nestar, Jr. S
- MCDOWELL-WELLMAN COMPANIES, THE**
113 St. Clair Ave., N. E., Cleveland 14, Ohio (Tel. MAin 1-9934)
Dir.-Purch.: S. R. McKinnon
V. P.: J. R. Perkins S, MS
- McGILL MFG. CO., INC., BEARING DIV.**
600 N. Lafayette St., Valparaiso, Ind. (Tel. HO 2-2161)
Purch. Agent: George A. Wolsh
Sales Mgr.: M. L. Brody
- McGREGOR MFG. CORP.**
2785 W. Maple Rd., Troy, Mich. (Tel. MLwest 4-3540)
Purch. Agent: Charles Dillon
V. P. & Sales Mgr.: Robert Clapham S, PS, RD
- McKAY CO., THE**
1005 Liberty Ave., Pittsburgh 22, Pa. (ATlantic 1-5380)
- Purch. Agent: John A. Lehr
Sales Mgr., Chain Div.: Rowland Erving M
- McKENNA LABS.**
2503 Main St., Santa Monica, Calif. (Tel. EXbrook 9-8846)
Pres.: A. G. McKenna
Sales Engrg.: Walt McHenry S, RD
- McLEAN DEVELOPMENT LABS., INC.**
P. O. Box 206, Strang Ave., Capiague, L. I., N. Y. (Tel. Planeez 7-7555)
Pres.: H. P. Dolan
- McLEAN ENGR. LABORATORIES**
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Dir.-Proc.: James G. Robinson
V. P.-Sales: W. B. Eckenhoff M, RD
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300 S. Livernois Ave., Detroit 17, Mich. (Tel. VInewood 3-3000)
V. P.-Sales: L. E. Moutane M
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V. P.-Purch.: N. Janus
Absarber Mgr.: W. H. Davis, III
Plastics Mgr.: R. L. Overhalt
Dir.-Mktg.: E. B. McMillan S, M, G, CT, RD
- McMILLAN LAB., INC.**
Browville Ave., Ipswich, Mass. (Tel. ELMwood 6-2926)
Purch. Agent: Brian Abbott
V. P.-Sales: Arthur M. Brink
- McPHERSON CORP.**
1361 S. Broadway St., Denver, Colo. (Tel. PE 3-2481)
V. P.-Purch.: E. Bryon McPherson
Sales Mgr.: D. N. Stevens S
- MEAD SPECIALITIES CO., INC.**
4114 N. Knox, Chicago 41, Ill. (Tel. MU 5-6800)
V. P.-Purch.: E. W. Malek
Chief Engrg.: Robert Bingel
V. P.-Prod.: M. J. Lieser
Sales Mgr.-Air Div.: R. L. Thorsen M, CT, RD
- MEALPACK CORP.**
2220 Sherman Ave., Evanston, Ill. (Tel. UN 4-9322)
Exec. V. P.-Sales: H. W. Clarke
- MECHANICAL AIR CONTROLS, INC.**
10030 Capital Ave., (Oak Park) Detroit 37, Mich. (Tel. JOrdan 4-6858)
V. P. & Gen. Mgr.: James A. Neff
Purch. Agent: James M. Rawland M
- MECHANICAL FELT & TEXTILES CO.**
50 W. 18th St., Weehawken, N. J. (Tel. UN 5-1879)
Prop.: Haward R. Dederick M
- MECHANICAL HANDLING SYSTEMS INC.**
4600 Nancy Ave., Detroit 12, Mich. (Tel. TWInbrook 2-1210)
V. P.-Engrg.: L. J. Bishop
Gen. Sales Mgr.: J. F. O'Haro
Purch. Agent: D. C. Kilgus, 12755 E. 9-Mile Rd., Van Dyke, Mich. (Tel. JEHerson 9-2210)
Asst. Purch. Agent: R. Statzula (Tel. JE 9-2210) S, M
- MECHANICAL PRODUCTS, INC.**
1824 River St., Jackson, Mich. (Tel. SStAte 2-0391)
Purch. Agent: C. C. Frost
Sales Engrg.: P. R. Watson MS
- MECHANICS RESEARCH DIV., AMERICAN MACHINE & FOUNDRY CO.**
7501 N. Natchez, Niles, Ill. (Tel. Niles 7-7000)
Gen. Mgr.: P. Rasenberg S, PS, MS, RD, HSE
- MECHANICAL RUBBER PRODUCTS CO.**
Box 287, Warwick, N. Y. (Tel. YUkon 6-2271)
Dir.-Sales: Frank S. Puccia M
- MECHATROL, DIV.-SERVOMECHANISMS, INC.**
1200 Prospect Ave., Westbury, N. Y. (Tel. EDgewood 3-6000)
Purch. Agent: James Owens
Buyer: Louis Adazzo
Sales Mgr.: Victor See MS, G, CT, TT, RD
- MEDICAL SUPPLY CO.**
1027 W. State St., Rockford, Ill. (Tel. WOODland 3-9697)
Purch. Agent: C. Fred Avery
V. P.-Sales: Richard G. Babbitt
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950 N. Highland Ave., Los Angeles 38, Calif. (Tel. HOLlywood 3-4841)
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Gen. Sales Mgr.: Jack Nelson PS, MS, M, CT, RD
- MELODY MASTER MFG. CO.**
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- MENASCO MFG. CO.**
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Purch. Dept. (Tex. Div.): Edward Gibson, Box 7397 Sylvonia Sta., Ft. Worth (Tel. ATlos 4-3471)
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Sales: D. A. MacIntyre
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595 N. Mathilda Ave., Sunnyvale, Calif. (Tel. REgent 9-6700)
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Purch. Agent: J. Brozek
Sales Mgr.: E. L. Beaudry, Jr. M
- MERCK & CO., INC., ELECTRONIC CHEMICALS DIV.**
Rahway, N. J. (Tel. FUlton 1-5000)
Purch. Agent: F. G. Schmitt
Sales Mgr.: C. A. Graf M
- MERCURY AIR PARTS CO., INC.**
9310 W. Jefferson Blvd., Culver City, Calif. (Tel. UPton 0-5923)
Purch. Agent: I. A. Cale (Tel. VERmont 9-2813)
Sales Mgr.: Ralph Cahen M
- MERCURY MFG. CO.**
4710 W. Division St., Chicago 51, Ill. (Tel. SP 2-9300)
Purch. Agent: Werner Hinz
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- MERGENTHALER LINOTYPE CO.**
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- MERIT PRODUCTS INC.**
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Plant Mgr.: K. G. Wolverton
Sales Mgr.: F. C. Koras M, RD
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335 Jelliff Ave., Newark 8, N. J. (Tel. BI 8-3020) (New York Tel. CO 7-7593)
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Dir.-Sales: Stanley W. Werner M
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V. P.-Sales: R. T. Beeghly S, M, RD

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Gloicester Pike, Barrington, N. J. (Tel. Lincoln 7-9000)
Dir.-Sales: A. E. Wolf

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63 Pond St., Waltham 54, Mass. (Tel. Twinbrook 3-6800)
Dir.-Sales: Harry Ferguson MS

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V. P.-Gen. Sales Mgr.: C. W. Kelly S

METAL HYDRIDES, INC.
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Purch. Agent: J. A. Crowell
Buyer: Sylvia Burke
Mgr.-Tech. Services: H. W. Kruschwitz, Jr. M

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647 E. First Ave., Roselle, N. J. (Tel. CHestnut 5-3000)
Purch. Agent: Minford S. Smith
Sales Mgr.: William Luke, Jr. M, RD

METAL & THERMIT CORP.
Rahway, N. J. (Tel. FUllton 1-3000)
Gen. Purch. Agent: G. B. Lederer
Sales Mgr.: H. W. Buchanan (Tel. LExington 2-6300) M, RD

METAL TREATING INSTITUTE
271 North Ave., New Rochelle, N. Y. (Tel. NEw Rochelle 6-6382)
C. E. Herington

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1233 S. Boyle Ave., Los Angeles 23, Calif. (Tel. ANgelus 8-7108)
Mgr.-Purch: Ray White
Pres.: Richard S. Jensen
Sales Engr.: Lorry Hemmel M

METALLIZING ENGR. CO., INC.
1101 Prospect Ave., Westbury, N. Y.
Purch. Agent: R. M. Dwyer
Sales Mgr.: R. J. McWaters

METALLO GASKET CO.
16 Bethany St., New Brunswick, N. J. (Tel. KIlmer 5-7223)
Purch. Agent: S. S. Geipel
Asst. Purch. Agent: S. W. Geipel
Sales Mgr.-Secy.: G. K. Mardas PS, MS

METALLURGICAL, INC.
900 E. Hennepin Ave., Minneapolis 14, Minn. (Tel. FEderal 3-4581)
Controller: M. P. Paulson
Dir.-Sales: Ralph E. Mueller S, PS, MS, M

METALPHOTO CORP.
6811 Superior Ave., Cleveland 3, Ohio (Tel. UTah 1-7575)
Purch. Agent: Mrs. D. J. Weston
V. P.-Sales: Roger Ferryman M

METALS DIV., KELSEY-HAYES CO.
New Hartford, N. Y. (Tel. REdwood 5-6411)
Purch. Agent: R. J. Goodman
Mgr., Sales & Mktg.: H. D. Stane M

METAPLAST CO., INC.
34-51 56th St., Woodside 77, L. I., N. Y. (Tel. HA 6-9843)
Pres.: James Stein
Plant Engr.: George J. Frankel
Mgr.: J. Lester M, RD

METERS INC.
5353 N. Keystone Ave., Indianapolis 20, Ind. (Tel. CLifford 5-3570)
Purch. & Sales: F. R. Finehout

MET-L-WOOD CORP.
6755 W. 65th St., Chicago 38, Ill. (Tel. LUdlow 5-7575)
Purch. Agent: Don L. Janes
Sales Mgr.: Dwight O. Williamson M

R. I. METPRO, INC.
230 Toronto Ave., Providence 5, R. I. (Tel. STuart 1-3050)
Pres.: James C. Murphy

METRON INSTRUMENT CO.
432 Lincoln St., Denver 3, Cala. (Tel. PEarl 3-3764)
Purch. Agent: A. N. Jankowski
Sales Mgr.: Edward Pike MS, CT

METRONIX, INC., SUB-ASSEMBLY PRODUCTS, INC.
75 Wilson Mills Rd., Chesterland, Ohio (Tel. HAmilton 3-4440)
Sales Mgr. & V. P.: Ivan Bezuglaff, Jr.
Purch. Agent: Robert Faltz
Pres.: John Saint-Amour CT

METZ REFINING CO.
369 Mulberry St., Newark 2, N. J. (Tel. MA 0-8667)
Purch. Agent: W. C. Sink
Treas.: W. Peter Metz M

MEYERCORD CO., THE
5323 W. Lake St., Chicago 44, Ill. (Tel. ESterbrook 8-3700)
Purch. Agent: William A. Ortlep
Sales Mgr.: R. A. Knapf

MEYERCORD CO., THE, AMC DIV.
2915 S. Vail Ave., Los Angeles, Calif. (Tel. Raymond 3-8661)
Purch.: Robert Bell
Div. Mgr.-Sales: John A. Cargill

MEYERCORD CO., THE, PACIFIC COAST DIV.
2915 S. Vail Ave., Los Angeles, Calif. (Tel. Raymond 3-8661)
Dir.-Purch.: Robert Bell
Div. Sales Mgr.: George D. Kalbe

MICA CORP.
4031 Elenda St., Culver City, Calif. (Tel. UPton 0-6861)
Purch. Agent: William A. Marcumb, 11501 W. Jefferson Blvd., Culver City, Calif. (Tel. UPton 0-5557)
Mgr., Natl. Sales: B. Kessler
V. P. & Dir.-Sales: R. T. Toppin M

MIAMI ENGRG., DIV.-MIAMI SHIPBUILDING CORP.
615 S.W. 2nd Ave., Miami 36, Flo. (Tel. FR 9-2611)
Purch. Agent: T. C. Buhler
Pres. & Gen. Mgr.: Robert J. Johnston
Chief Engr.: A. W. Hainlin
Div. Mgr.: Jack R. Davis S, MS, RD

MICA FABRICATING CO.
53 Central Ave., Rachele Park, N. J. (Tel. HUbbard 7-5717)
Purch.: M. H. Cyberg
Sales: J. W. Canter M

MICA INDUSTRY ASSOCIATION, INC.
420 Lexington Ave., New York 17, N. Y. (Tel. LExington 2-3988)

MICA INSULATOR DIV.-MINNESOTA MINING & MFG. CO.
797 Broadway, Schenectady 1, N. Y. (Tel. FRanklin 4-4191)
Purch. Agent: Q. F. Jordine
Asst. Purch. Agent: H. Culp
Gen. Mgr.: D. E. Horsford
Sales Mgr.: D. R. Coleman, Jr. M

MICACRAFT PRODUCTS INC.
701 McCarter Hwy., Newark, N. J. (Tel. MArket 3-6921)
Purch. Agent: N. A. Pamar (Tel. MArket 3-4074)
Sales: C. E. Gameau, Jr. M

MICAMOLD ELECTRONICS MFG. CORP.
65 Gouvemor St., Newark 4, N. J. (Tel. HU 5-2100)
Purch. Agent: A. Leeson
V. P.-Sales: A. S. Gartner

MICHIGAN CHROME & CHEMICAL CO.
8615 Grinnell, Detroit 13, Mich. (Walnut 1-3711)
Purch. Agent: Frank Lennebacker
Sales Mgr.: Robert E. Sudz

MICO INSTRUMENT CO.
80 Trawbridge St., Cambridge 38, Mass. (Tel. KIrkland 7-8660)
Purch. Agent: Miss F. E. Beede
Sales Mgr.: R. F. Walker M

MICRO BALANCING, INC.
191 Herricks Rd., Gordon City Park, L. I., N. Y. (Tel. Pioneer 6-0851)
Dir.-Purch: Leon Santara
V. P.-Sales: D. A. Francis MS

MICRO GEE PRODUCTS, INC.
6319 W. Slauson Ave., P. O. Box 1005, Culver City, Calif. (Tel. EXmunt 1-6719)
Pres.: Walter E. Petersen
V. P. & Chief Mech. Engr.: David S. Yark
Chief Elec. Engr.: Bela J. Lasmandy
V. P. & Chief Engr.: B. W. McFadden MS, G, CT, RD

MICRO SWITCH, DIV.-MINNEAPOLIS-HONEYWELL REG. CO.
11 W. Spring St., Freeport, Ill. (Tel. ADams 2-1122)
Purch. Agent: W. L. Young
Sales Mgr.: F. E. Wilsey M

MICRO-CIRCUITS CO.
New Buffalo, Mich. (Tel. 1163)
Purch. Agent: M. Bradley
Pres.: R. F. Bradley M

MICRODOT INC.
220 Pasadena Ave., South Pasadena, Calif. (Tel. MUrray 2-3351)
Purch. Agent: Robert Batton
Buyer: James Gillis
Asst. Sales Mgr.: Donald T. Mason
V. P.-Sales: Guy M. Martin, Jr. M, RD

MICROFLECT CO., INC.
3450 25th S.E., Salem, Oregon (Tel. EMpire 3-1128)
Gen. Mgr.: G. F. Kreitzberg
Pres.: J. S. Kreitzberg S

MICROLAB
570 W. Mt. Pleasant Ave., Livingston, N. J. (Tel. WYman 2-5700)
Purch.: Joseph Tama
Sales: Richard C. Hess G, CT, TT, RD

MICROMETRICAL MFG. CO.
3621 S. Stote Rd., Ann Arbor 20, Mich. (Tel. NOrmandy 2-5626)
Purch. Agent: Herman DeMarca
Sales Mgr.: Frank W. Kabat CT, RD

MICRON GEAR CO., INC.
73 Rushmore St., Westbury, L. I., N. Y. (Tel. EDgewood 4-8880)
Purch. Agent: Bill Benjamin
Sales Mgr.: Edwin J. Johnson MS, G, TT, RD

MICROPHASE CORP.
1 Seneca Place, P. O. Box 1166, Greenwich, Conn. (Tel. NOrmandy 1-6200)
Purch. Agent: Wilbur Thiel
Mgr.-Sales Engr.: Selim Temel CT, TT, RD

MICROTECH DIV., FEDERAL-MOGUL-BOWER BEARINGS, INC.
1201 N. Arden Dr., El Monte, Calif. (Tel. Gilbert 3-3081)
Purch. Agent: Carl H. Sjoberg
Mgr.-Sales: Frank M. Mosier G

MICROTRAN CO. INC.
145 E. Mineola Ave., Valley Stream, N. Y. (Tel. LO 1-6050)
Purch. Agent: B. Bell
V. P.-Sales: Albert J. Eisenberg G, CT, TT, RD

MICROWAVE ASSOCIATES, INC.
South Ave., Burlington, Mass. (Tel. BRowning 2-3000)
Purch. Agent: Harry Merchant
V. P.-Mktg.: George S. Kariotis G, TT

MICROWAVE DEVELOPMENT LABS., INC.
92 Broad St., Babson Park 57, Mass. (Tel. CEder 5-6252)
Purch. Agent: Abraham Bahm
Buyers: Philip Carsan & Harald Lemer
Sales Engr.: John D. Holl

***MICROWAVE & POWER TUBE DIV., RAYTHEON CO.**
Foundry Ave., Waltham, Mass. (Tel. TWInbrook 9-8400)
Purch. Agent: D. Hamant
Sales Mgr.: Palmer Derby M
*(See advertisement this issue)

MICRO-WIRE TUNGSTEN & MOLYBDENUM PRODUCTS
301 Crooks Ave., Clifton, N. J. (Tel. PRescott 9-0819)
Stephen H. Meninger

MIDGET LOUVER CO.
6-8 Wall St., Norwalk, Conn. (Tel. VOlunteer 6-2342)
Purch.: Miller Mfg. Co., Stratford, Conn.
Sales: Frank J. Scallan

MIDLAND INDUSTRIAL FINISHES CO.
E. Water St., Waukegan, Ill. (Tel. MAjestic 3-4200)

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<p>Purch. Agent: W. J. Edwards Buyer: John Whitaker Pres.: Edwin D. Robson V. P. & Gen. Mgr.: G. E. Batzel</p>	<p>FRANKLIN P. MILLER & SON, INC. 36 Meadow St., East Drange, N. J. (Tel. DRange 3-4522) Purch. Agent: H. Preyer Sales: H. Galanty</p>	<p>MINCO PRODUCTS, INC. 740 Washington Ave., N., Minneapolis 1, Minn. (Tel. FEderal 8-6753) Purch. Agent: Robert B. Anderson V. P.-Sales: Karl Schurr</p>
<p>MIDLAND INDUSTRIAL DIV., THE HARRISON PAINT & VARNISH CO. 1329 Harrison Ave., S.W., Canton 1, Ohio (Tel. GLendale 5-5125) Purch. Agent: J. V. Lemmo Secy.-Treas.: A. F. Chrien Factory Supt.: Roy Piper</p>	<p>J. W. MILLER CO. 5917 S. Main St., Los Angeles 3, Calif. (Tel. ADoms 3-4294) Purch.: L. G. Crawford, Jr. Buyer: J. E. Stracener Sales: J. R. Hummes</p>	<p>*MINCON DIV., MINNESOTA MINING & MFG. CO. 2049 S. Barrington Ave., Los Angeles 25, Calif. (Tel. GRANite 9-3751) Purch. Agent: Roy Hunt Sales Mgr.: Robert J. Brown *(See advertisement this issue) TT, RD</p>
<p>MIDVALE-HEPPENSTALL CO. Nicetown, Philadelphia 40, Pa. (Tel. BAIdwin 5-5000) Gen. Sales Mgr.: Derek G. R. Brigg Asst. Gen. Sales Mgr.: A. T. Richter Mrg.-Projects & Sales Engr.: H. H. Casey</p>	<p>SANFORD MILLER CO. 11 Lynch St., Brooklyn 11, N. Y. (Tel. ULster 8-2817) Purch. Agent: E. Gold Dir.-Sales: E. Rod</p>	<p>MINI SAFETY APPLIANCES CO. 201 N. Brodock Ave., Pittsburgh 8, Pa. (Tel. CH 1-5900) Purch. Agent (Safety Prod.): J. P. Curran Purch. Agent (Tech. Prod.): F. J. Guenther Sales Mgr. (Safety Prod.): F. A. King Sales Mgr. (Tech. Prod.): N. W. Hartz</p>
<p>MID-WEST COIL & TRANSFORMER CO. 1642 N. Halsted St., Chicago 14, Ill. (Tel. MI 2-4055) Purch. Agent: Gene Baum Sales Mgr.: William J. Vance</p>	<p>MILLER ASSOCIATES P. D. Box 369, Lakeville, Conn. Owner: R. R. Miller Dir.-Sales: H. M. Miller</p>	<p>MINIATURE PRECISION BEARINGS, INC. Precision Pk., Keene, N. H. (Tel. ELMwood 2-0310) Purch. Agent: Robert N. Whitney Sales Mgr.: K. G. Broman</p>
<p>MID-WEST GAGE LAB., AFFILIATE-SIZE CONTRDL CO. 2500 W. Washington Blvd., Chicago 12, Ill. (Tel. MD 6-6710) Purch. Mgr.: Ed Denick Sales Mgr.: E. E. Dids</p>	<p>MILLER DIAL & NAME PLATE CO. 4400 N. Temple City Blvd., El Monte, Calif. (Tel. GILbert 4-4555) Purch. Agent: Jesse Kuhn Sales Mgr.: Dom Delorenzis</p>	<p>MINICORD CORP. OF AMERICA 1915 Atlantic Ave., Atlantic City, N. J. (Tel. 2-0488) Dir.-Purch.: William C. Redding, Jr. V. P.-Sales: William A. Juhrs, Sr. Pres.: Maurice J. Djserkis</p>
<p>MID-WEST METAL PRODUCTS, INC. 450 E. Donovan Rd., Kansas City 15, Kans. (Tel. MAYfair 1-1980) Asst. Mgr.-Purch.: H. W. Sanders Mrg.-Sales: T. H. Minzet</p>	<p>MILLER ELECTRO-RESEARCH LABS. 5529 S. 5th St., Milwaukee 7, Wisc. (Tel. HUMBoldt 3-6303) A. W. Miller</p>	<p>MINNEAPOLIS-HONEYWELL REGULATOR CO., AERONAUTICAL DIV. 2600 Ridgway Rd., Minneapolis 13, Minn. (Tel. STerling 1-8011) Dir.-Prac.: R. B. Foster Dir.-Prac.: S. E. Puffer, Inertial Guidance Cntr., St. Petersburg, Fla. (Tel. HEMlock 5-1151) Purch. Mgr.: R. F. Marcy, Missile Dev. Lab., W. Los Angeles, Calif. (Tel. BRAdshaw 2-8667) Dir.-Mktg.: R. E. Clifford</p>
<p>MIDWEST MOLDING & MFG. CO. Gurnee, Ill. (Tel. DNtario 2-1320) Purch. Agent: N. Edwards V. P.-Sales: T. E. Richards</p>	<p>MILLER FALLS CO. 57 Wells St., Greenfield, Mass. (Tel. PRescott 3-5426) Purch. Agent: Charles W. Parsons Asst. Purch. Agent: Robert Shortell Dir.-Sales: Arthur E. Ackerman</p>	<p>MINNEAPOLIS-HONEYWELL REGULATDR CO., BOSTON DIV. 40 Life St., Boston 35, Mass. (Tel. ALGonquin 4-5200) Purch. Agent: E. L. Hanscom Mktg. Mgr.: J. W. Rhinesmith</p>
<p>MIDWEST RESEARCH INSTITUTE 425 Vokler Blvd., Kansas City 10, Mo. (Tel. LOgan 1-0202) V. P. & Tech. Dir.: Dr. Max H. Thornton Admin. Officer: Perry L. Birdstrup Mrg.-Program Dev.: Richard W. Kunkle</p>	<p>D. B. MILLIKEN CO. 131 N. Fifth Ave., Arcadio, Calif. (Tel. ELIott 3-6691) Purch. Agent: R. R. Meier Proj. Engr.: W. W. Keddie V. P.-Photo-Instrument Div.: T. H. Truesdell</p>	<p>MINNEAPOLIS-HONEYWELL REGULATOR CO., INDUSTRIAL DIV. Wayne & Windrim Aves., Philadelphia 44, Pa. (Tel. DAVenport 9-8300) Purch. Agent: J. A. Robinson Sales Mgr.: J. A. Robinson</p>
<p>MID-WEST SPRING MFG. CO. 4632-40 S. Western Ave., Chicago 9, Ill. (Tel. LAIayette 3-1743) Purch. Agent-Chicago Plant: James J. Dunne, Jr. Purch. Agent-St. Paul Plant: Cliff Rezer (Tel. HU 8-2521) Purch. Agent-Mentone, Ind., Plant: Richard E. Middleton (Tel. EL 3-2415) Sales: L. J. Castaldi</p>	<p>MILLIPORE FILTER CORP. Bedford, Mass. (Tel. CRestview 4-8800) V. P.-Purch.: Walter W. Kenyon Sales Mgr.: Kristofer Berg Dfice Mgr.: Clifford J. Hughes</p>	<p>MINNEAPOLIS-HONEYWELL REGULATOR CO., INDUSTRIAL PRODUCT GROUP Wayne & Windrim Aves., Philadelphia 44, Pa. (Tel. DAVenport 9-8300) Purch. Agent: J. H. Tows Sales Mgr.: J. A. Robinson</p>
<p>MIDWESTERN INSTRUMENTS, INC. 41st & Sheridan Rd., Tulsa 18, Okla. (Tel. RIVERSide 7-1331) Dir.-Purch.: D. M. Kennedy Purch. Agents: P. B. Wagoner & Pat McKee V. P.-Sales: D. M. Holloway</p>	<p>MILLI-SWITCH CORP. P. D. Box 67, Mill Creek Rd., Gladwyne, Pa. (Tel. MIDway 2-9222) Asst. Purch. Agent: R. J. Marchetti Expediter: M. Ramsdale Dir.-Purch. & Sales: B. W. Chandler</p>	<p>MINNEAPOLIS-HONEYWELL REGULATOR CO., INDUSTRIAL SYSTEMS DIV. 10721 Hanna St., Beltsville, Md. (Tel. GRANite 4-6700) Dir.-Purch.: John Poszkiev Sales Mgr.: N. S. Bassett</p>
<p>MILBAR CORP. 1900 Euclid Ave., Cleveland 15, Ohio (Tel. SU 1-3113) Pres.: Jack A. Bares V. P.: E. M. Smith</p>	<p>MILLITEST CORP. 88 Madison Ave., Hempstead, N. Y. (Tel. IVanhoe 9-9672) Purch. Dept.: H. Adise & I. Clinton Sales Mgr.: J. Hermon</p>	<p>MINNEAPOLIS-HONEYWELL REGULATOR CO., MISSILE EQUIPMENT DIV. Queen & S. Bailey Sts., Pottstown, Pa. (Tel. FA 3-4000) Purch. Agent: M. A. Jones Sales Mgr.: H. A. Lucas</p>
<p>MILGO ELECTRONIC CORP. 7620 N.W. 36th Ave., Miami 47, Fla. (Tel. DXford 1-1220) Dir.-Purch.: William Kreuter Buyers: James Kivett & Walter Koth Gen. Mgr.: William L. Rose</p>	<p>MILMAN ENGRG. CO. 1831 Pontius Ave., Los Angeles 25, Calif. (Tel. GRANite 3-0616) Pres.: E. I. Druckman V. P.: Wesley B. Miller</p>	<p>MINNEAPOLIS-HONEYWELL REGULATOR CO., ORDNANCE DIV. 600 2nd St., N., Hopkins, Minn. (Tel. WEsport 8-3571) Mrg.-Prac.: J. F. Barrett Purch. Agent: Clifford Swisher, Minneapolis-Honeywell Ordnance Missile Engrg. Ctr., Duarte, Calif. (Tel. ELIott 9-5311) Dir.-Serv. Engr.: L. E. Sheehan</p>
<p>MILITARY AIRCRAFT DIV.-CESSNA AIRCRAFT CO. P. D. Box 1977, K42, West, Wichita 1, Kans. (Tel. WHitehall 3-3211) Purch. Agent: W. D. Grisamore Outside Prod. Mgr.: Bob Shirley Supvr.-Parts, Standards & Raw Mat.: Gene Lauder milk Contract Admin.: Kenneth W. Whisler</p>	<p>MILMANCO 620 7th Ave., Renton, Wash. (Tel. ALPine 5-8656) Co-Mgr., Purch. & Sales: Philip B. Lundstrom Co-Mgr., Purch.: Thomas H. Cooke Supr.: Robert W. Burman</p>	<p>MINNEAPOLIS-HONEYWELL REGULATOR CO., SEMICONDUCTOR PRODUCTS DIV. 1615 S. Sixth St., Minneapolis 4, Minn. (Tel. FEderal 2-5225) Mrg.-Prch.: M. E. Knutson Asst. Purch. Agent-Raw Materials: Wilbur Smisek Sales Mgr.: R. D. Anderson</p>
<p>JAMES MILLEN MFG. CO. INC. 150 Exchange St., Malden 48, Mass. (Tel. DAVenport 4-4108) Purch. Agent: George Pike Gen. Sales Mgr.: E. E. Williams</p>	<p>MILRD CONTROLS CO. INC. 280 Midland Ave., Saddle Brook, N. J. (Tel. SWarthmore 1-1850) Dir.-Purch.: M. V. Coronato Chief Engr.: C. B. Kish Pres.: Milton Rosen Dir.-Sales: W. W. Emmerson</p>	<p>*MINNESOTA MINING & MFG. CO. 900 Bush Ave., St. Paul 6, Minn. (Tel. PR 6-8511) V. P.-Purch.: B. B. Countryman Mrg.-Missile Industry Liaison: W. R. Ludko V. P.-Sales Admin.: J. C. Duke</p>
<p>MILLEN MFG. CO. 90 Summit Ave., Brookline 46, Mass. (Tel. LONGwood 6-4305)</p>	<p>MINATRON CORP. 61 Cliveden St., Belle Mead, N. J. (Tel. FLanders 9-6400) Gen. Mgr.: C. W. Pressey</p>	<p>*(See advertisement this issue) S, PS, MS, M, G, CT, TT, RD, HSE</p>

***MINNESOTA MINING & MFG. CO.
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900 Bush Ave., St. Paul, Minn. (Tel. P.Rospect 6-8511)
Sales Mgr.-Aircraft Prods.: A. O. Fuhrmann
Gen. Sales Mgr.: C. A. Kelley
Aircraft Products Sales, 6411 Randolph St., Los Angeles 22, Calif.
(See advertisement this issue)

***MINNESOTA MINING & MFG. CO.,
CHEMICAL DIV.**

900 Bush Ave., St. Paul 6, Minn. (Tel. P.Rospect 6-8511)
Gen. Mgr.-Chemical Div.: J. W. Selden
(See advertisement this issue)

MINNESOTA RUBBER CO.
3630 Wooddale Ave., Minneapolis 16, Minn. (Tel. West 9-6781)
Purch. Agent: H. L. Stocking
V. P.-Sales: Richard G. Wells

MIRA CORP., THE
2656 N. Pasadena Ave., Los Angeles 31, Calif. (Tel. Capital 1-1129)
Pres.: W. A. Oouglass
Purch. Agent: I. Burch

MISCO PRECISION CASTING CO.
116 W. Gibbs St., Whitehall, Mich. (Tel. TWin Oaks 3-1515)
Purch. Agent: M. B. Simms
V. P.-Sales: K. J. Yonker

MISKELLA INFRA-RED CO., THE
E. 73rd & Grand Ave., Cleveland 4, Ohio (Tel. Henderson 1-2210)

MISSILE BATTERY DIV., THE ELECTRIC STRDRGE BATTERY CO.
2510 Louisburg Rd., Raleigh, N. C. (Tel. TE 4-8465)
Dir.-Purch.: P. W. Morgan
Purch. Dept.: J. W. Barbee & P. Corver
Mgr.-Govt. Sales & Contracts: R. L. Mansfield

MISSILE DIV., NORTH AMERICAN AVIATION, INC.
12214 Lakewood Blvd., Oowney, Calif. (Tel. SPruce 3-0610)
Dir.-Material: Mark Starr
Gen. Purch. Agent: B. L. Weber

MISSILES & SPACE SYSTEMS, DIV.-UNITEO AIR-CRAFT CORP.
Main St., E. Hartford, Conn. (Tel. JACKSON 8-4811)
Sales Mgr.: Boone T. Guyton
Supvr.-Sales Services: Richard T. Allen
Supvr.-Subcontract Admin.: K. Williams

MISSIMERS INC.
3737 San Fernando Rd., Glendale 4, Calif. (Tel. CHopman 5-8471)
V. P.: Dale J. Missimer, Jr.
Engr.-Buyers: H. C. Faris, G. F. Clark, Oave Brown
Parts Buyers: C. Lanphear

E. C. MITCHELL CO.
Boston St., Middleton, Mass. (Tel. SPring 4-1191)
Everett W. Mitchell

MITCHELL CAMERA CORP.
666 W. Harvard St., Glendale 4, Calif. (Tel. CHopman 5-1086)
Purch. Agent: M. Kruescher
V. P.-Sales: J. O. McCall

MITCHELL RAND MFG. CORP.
51 Murray St., New York 7, N. Y. (Tel. COrtlandt 7-9264)
Purch. Agent: John Foley
Pres.: J. R. Mitchell, Jr.

MITRONICS INC.
1290 Central Ave., Hillside, N. J. (Tel. WAverly 6-2250)
Purch. Agent: Allan Davis
Dir.-Sales: R. E. Eaves
Pres.: Harvey M. Pensack

MODEL RECTIFIER CORP.
1675 Urica Ave., Brooklyn 34, N. Y. (Tel. CLoverdale 8-6800)
Purch. Agent: Anthony Iati
Sales Mgr.: Samuel Gelber

MODELECTRIC PRDDUCTS CORP.
1500 Bangs Ave., Asbury Park, N. J. (Tel. PR 4-2519)
Purch.: Chas. S. Nadler

MODERN DESIGN DIV.-H. C. SCHLOER, INC.
Vestal Pkwy., Vestal, N. Y. (Tel. STIllwell 5-9901)
Electronics Purch.: Mel Schell

Electronics Dept. Mgr.: Morris Shuffler
Gen. Mgr.: Henry C. Schlaer

MODINE MFG. CO.
Racine, Wisc. (Tel. ME 3-2411)
V. P.-Purch.: G. H. Jackson
Purch. Agent: L. W. Floyd
V. P.-Sales: C. C. Wilson

MOELLER MFG. CO. INC.
2401 Durand Ave., Racine, Wisc. (Tel. MElose 7-6143)
Purch. Agent: M. Ibsen
Sales Mgr.: W. F. Fisher

MOHAWK WIRE & CABLE CORP.
45 Summer St., Leominster, Mass. (Tel. KE 7-0771)
Sales Mgr.: J. W. Resseguiue
Purch. Agent: Robert Marr

JOHN MDHR & SONS
3200 E. 96th St., Chicago 17, Ill.
Purch. Agent: A. D. Armstrong
Sales Mgr.: R. C. Mohr

MOLDEO FIBER GLASS BOOY CO.
4601 Benefit Ave., Ashtabula, Ohio (Tel. WYman 3-2177)
Purch. Agent: Harvey Bales
Prod. Control: Dale J. Curtis
Sales Mgr.: Lorin L. Palmer

MOLDED INSULATION CO.
335 E. Price St., Philadelphia 28, Pa. (Tel. VI 4-2626)
Purch. Agent: Michael Halamar
V. P. & Gen. Mgr.: Russell F. Hurst
Pres.: William T. Bradbury

MOLDING CORP. DF AMERICA
40 Church St., Pawtucket, R. I. (Tel. PAwtucket 6-2100)
V. P.: John O. Tate
Oesign Engr.: James V. Murphy

MONA INDUSTRIES, INC.
65-75 23rd St., Paterson 17, N. J. (Tel. ARmory 4-8220)
Purch. Agent: Hans Eischen
Dir.-Sales: W. O. Schlimbach

J. J. MONAGHAN CD., INC.
500 Alcott St., Denver 4, Colo. (Tel. AC 2-3558)
Purch. Agent: J. J. Kramer
V. P.-Sales: W. J. Matsch

MONARCH ELECTRIC CORP.
118 E. First St., Jamestown, N. Y. (Tel. JAmestown 3-1565)
Purch. Agent: Arnold Anderson
V. P.: Alex Sommers
Dir.-Sales: G. L. Williamson

MDNARCH GOVERNOR CD.
2800 Tyler Rd., Willow Run, Mich. (Tel. HU 3-2411)
V. P.: R. L. McKenna

MONROVIA AVIATION CORP.
801 Royal Oaks Dr., Monrovia, Calif. (Tel. ELliot 8-3211)
Purch. Agent: C. L. Gallagher
Buyers: Roy Reilly & John Barnes
V. P. & Sales Mgr.: J. L. Payne

MDSANTO CHEMICAL CO.
800 N. Lindbergh Blvd., St. Louis 66, Mo. (Tel. WYdown 3-1000)

MDNTGOMERY CD., THE
60 Canal St., Windsor Locks, Conn. (Tel. NA 3-3336)
Purch. Agent: J. R. Montgomery
Purch. Dept.: G. M. Montgomery

MOODY MACHINE PRODUCTS CD., INC.
42-46 Dudley St., Providence 5, R. I. (Tel. GASpee 1-3317)
Dir.-Purch.: W. S. Moody
Sales Mgr.: J. H. Moody

MODG SERVOCNTRLS, INC.
Proner Airport, East Aurora, N. Y. (Tel. CY 2000)
Purch. Agent: Raymond Howick
Sales Mgr.: Harry White

MOORE ASSOCIATES, INC.
2600 Spring St., Redwood City, Calif. (Tel. EM 9-0204)
Purch. Agent: Dan Sully
Sales Mgr.: James B. Bullock

MDRAN CD.
721 E. El Segundo Blvd., El Segundo, Calif. (Tel. OR 8-3444)
Office Mgr.: Karen Kiebert

MORAN INSTRUMENT CORP.
170 E. Orange Grove Ave., Pasadena 3, Calif. (Tel. SY 6-7158)
Dir.-Purch.: M. Peirce
Prod. Mgr.: A. W. Junkunc
Pres.: R. B. Moran, Jr.

MOREHOUSE MACHINE CO.
1742 Sixth Ave., York, Pa. (Tel. 8-1332)
Gen. Mgr.: H. A. Zumbun

MORGANITE, INC.
33-02 48th Ave., Long Island City 1, N. Y. (Tel. STIllwell 4-3222)
Gen. Sales Mgr.: W. C. Hass
Dir.-Purch.: M. A. DeRosa

C. A. MORGREN CO.
3400 S. Elati St., Englewood, Colo. (Tel. SU 1-5583)
Dir.-Purch.: James Kyffin
Asst. Dir.-Purch.: William Rubdige
Dir.-Sales: Geoffery Grange

MORNINGSTAR-PAISLEY, INC.
630 W. 51st St., New York 19, N. Y. (Tel. JUdson 2-3790)
V. P.-Sales: Earl C. Lenz
Purch. Agent: N. Geutschman, 1153 Bloomfield Ave., Clifton, N. J. (Tel. PRescott 3-2500)

J. I. MORRIS CO.
378 Elm St., Southbridge, Mass. (Tel. POrter 4-4394)
Asst. Mgr.: J. B. Oirlan

ROBERT E. MORRIS CO., THE
5000 Farmington Ave., P. O. Box 41, West Hartford 7, Conn. (Tel. ADams 3-3663)
Pres.: Robert E. Morris

FRANK W. MORSE CO.
354 Congress St., Box 10, Mass. (Tel. HAcock 6-5398)
Purch. Agent: Prescott B. Morse
Sales Mgr.: Richard W. Morse

MORSE INSTRUMENT CO., THE
21 Clinton St., Hudson, Ohio (Tel. OLYmpic 3-5141)
Purch. Agent: Edward C. Kenyon
V. P.-Sales: Otis E. Burgess

CHESTER MORTON ELECTRONICS CORP.
10th St., & Morton Ave., Chester, Pa. (Tel. TREmont 4-6363)
Purch. Agent: S. Caine

MOSER JEWEL CO.
544 Fayette St., Perth Amboy, N. J. (Tel. Hillcrest 2-3434)
V. P.-Sales: C. H. Kalquist

MOSINEE PAPER MILLS CO.
Mosinee, Wisc. (Tel. OXBow 3-2111)
Purch. Agent: H. L. Voss
Sales Mgr.: Robert T. Seith

MOSLEY ELECTRONICS, INC.
4610 N. Lindbergh, Bridgeton, Mo. (Tel. St. Louis, PErshing 1-3036)
Dir.-Purch.: Eugene Mosley
V. P.-Sales: George E. Mobus

DONALD P. MOSSMAN, INC.
P. O. Box 265, Brewster, N. Y. (Tel. BRewster 9-3725)
Purch. Agent: William Cox
Sales Mgr.: Ben W. Rist

MOTDR APPLIANCE CORP.
5737 W. Park, St. Louis 10, Mo. (Tel. MIssion 7-1138)
Purch. Agent: Fred O'Day
Gen. Sales Mgr.: A. H. Borrere, Jr.

MOTOR GENERATOR CORP.
Jackson at Water Sts., Troy, Ohio (Tel. FE 2-1227)
Dir.-Purch.: B. A. Lutz
Buyers: Robert Miller & L. D. Isenbarger
V. P.-Sales: D. W. Baker

	CODING
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

purchasing directory mot-new

- MOTORDYNE INC.**
2661 S. Myrtle Ave., Monrovia, Calif. (Tel. RYan 1-6132)
Purch. Agent: D. Hartle
Asst. Purch. Agent: Gayle Ross
Dir.-Sales: James Marino MS, RD
- MOTORESEARCH CO.**
1600 Junction Ave., Racine, Wisc. (Tel. MELrose 2-5131)
Purch. Agent: L. J. Novak
Mgr. Govt. Sales: J. G. Hiatt MS, RD
- MOTOROLA INC.**
8201 E. McDowell Rd., Scottsdale, Ariz. (Tel. Whitney 5-4311)
Purch. Agent: Paul Stancik
Mgr.-Mktg.: Paul Sturm
Riverside Research Lab., 8330 Indiano Ave., Riverside, Calif.
Purch. Agent: J. Williams
Motorola, Inc., 1450 N. Cicero Ave., Chicago 51, Ill.
Purch. Agent: John B. O'Donnell MS, M, G, CT, TT, RD
- MOTOROLA INC.**
Western Military Electronics Center, 8201 E. McDowell Rd., Scottsdale, Ariz. (Tel. WH 5-4311)
Purch. Agent: Paul Stancik
Asst. Purch. Agent: Paul Leinheiser
- MOTOROLA, INC., SEMICONDUCTOR PRODUCTS DIV.**
5005 E. McDowell Rd., Phoenix, Ariz. (Tel. BRidge 5-4411)
Purch. Agent: Walter S. Gray
Gen. Mgr.: C. Lester Hogan
- C. P. MOYEN CO.**
8157 Monticello Ave., Skokie, Ill. (Tel. OR 3-6866)
V. P.-Purch.: J. T. Small
- MUCKLE MFG. CO.**
Box 119, Owatonna, Minn. (Tel. 7249)
Purch. Agent: Robert Doyle
Sales Mgr.: S. A. Muckle
- MUCON CORP.**
9 St. Francis St., Newark 5, N. J. (Tel. MI 2-1476)
Purch. Agent: B. Berkman
Sales Mgr.: M. A. Prince G, CT, TT, RD
- HEINZ MUELLER ENG. CO. INC.**
4725 Iowa St., Chicago 51, Ill. (Tel. EStebrook 8-4761)
Purch. Agent: Henry Eggert
V. P.: Milton Hoffman M
- MUELLER ELECTRIC CO.**
1583 E. 31st St., Cleveland 14, Ohio (Tel. PRospect 1-5225)
Purch. Agent: E. H. deCaningh
Sales: Scatt Mueller CT, RD
- MURHEAD INSTRUMENTS INC.**
441 Lexington Ave., New York 17, N. Y. (Tel. MURray Hill 2-8131)
V. P. & Gen. Mgr.: Paul L. Irvine
- MULLENBACH DIV.-ELECTRIC MACHINERY MFG. CO.**
2100 E. 27th St., Los Angeles 58, Calif. (Tel. LUDlow 2-5331)
Purch. Agent: James F. Lewis
Gen. Mgr.: Wayne M. Bitting MS, CT
- MULTI-AMP ELECTRONIC CORP.**
465 Lehigh Ave., Union, N. J. (Tel. MURdock 9-7112)
Purch. Agent: G. Pearl
Prod. Mgr.: E. R. Redhammer CT
- MULTICORE SALES CORP.**
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Sales Mgr.: Melvin Zalkin
- MUNSTON ELECTRONIC MFG. CORP.**
Beech St., Islip, N. Y. (Tel. JUNiper 1-3900)
Purch. Agent: Charles Leidner
Dir.-Sales: Theodore Whildin RD
- MURPHY & MILLER, INC.**
610 W. Taylor St., Chicago 7, Ill. (Tel. HARrison 7-8900)
Purch. Agent: John Petruska
Gen. Mgr., Mfg. Div.: P. H. Brandt
Sales Supvr., Mfg. Div.: R. W. Forell
- MUTRON CORP.**
125 Perkins Ave., Brackton, Mass. (Tel. JUNiper 3-0033)
- Purch. Agent: Richard F. Anderson
Sales Mgr.: Hilbert T. Forsberg
- MYCALEX CORP. OF AMERICA**
125 Clifton Blvd., Clifton, N. J. (Tel. PRescott 9-8866)
Purch.: H. C. Westervelt
Sales: E. de Villerooy M, TT, RD
- MYPERS CORP.**
47 Wallace Ave., Wallingford, Conn. (Tel. COlony 9-4738)
V. P.-Purch. & Sales: Ralph Bertini, II
- J. E. MYLES, INC.**
21315 Woodward Ave., Detroit 20, Mich. (Tel. LI 6-1157)
Mgr.-Purch. & Sales: J. Edgar Myles
Buyer: Roy O. Pageau MS
- NJE CORP.**
20 Boright Ave., Kenilworth, N. J. (Tel. BRidge 2-6000)
Purch. Agent: Robert Schrage
Gen. Sales Mgr.: H. J. Lutz
- N. R. K. MFG. & ENGRG. CO.**
4601 W. Addison St., Chicago 41, Ill. (Tel. 5PRing 7-2970)
Dir.-Purch.: Peter Koppenberger
Purch. Agent: M. R. Warren
Dir.-Sales: R. Kirchberger G
- NUMEC-NUCLEAR MATERIALS & EQUIPMENT CORP.**
N. Warren Ave., Apollo, Pa. (Tel. GRover 2-8411)
V. P.-Metallurgy: F. Forscher
V. P.-Chemistry: L. P. Pepkowitz
Dir.-Plutonium Plant: H. Garber (Tel. VICTor 2-0151)
Mgr.-Mktg.: A. M. Weis M, RD
- NADELLA**
66-68 Salothurnstrasse, Biel, Switzerland
- NAMEPLATES INC.**
421 E. 101st St., Brooklyn 36, N. Y. (Tel. NI 9-2524)
Dir. Purch. & Sales: Vincent Prisca
- GEORGE L. NANKERVIS CO.**
15300 Fullerton, Detroit 27, Mich. (Tel. VERmont 8-5780)
Purch. Agent: D. Lindh
Mgr. Sales: R. L. Yung
- NAPIER ENGINES INC.**
1346 Connecticut Ave., N.W., 909 Dupont Circle Bldg., Washington 6, D. C. (Tel. NO 7-9300)
Aviation Mgr.: A. Gualtieri
Mgr.-Sales Engrg.: J. Norton
V. P.-Sales: R. J. Pfium PS
- NAPOLÉON PRODUCTS CO., THE**
410 Filmore St., Napoleon, Ohio (Tel. 5361)
Pres. & Gen. Mgr.: G. M. Small
Exec. V. P.-Purch.: E. N. Yeager
- NARDA MICROWAVE CORP., THE**
118-160 Herricks Rd., Mineola, N. Y. (Tel. PLaneer 6-4650)
Purch. Agent: James Orehosky
Sales Mgr.: William A. Baurke RD
- NARDA ULTRASONICS CORP., THE**
625 Main St., Westbury, N. Y. (Tel. EDgewood 3-5400)
Purch. Agent: Philip McKay
Gen. Sales Mgr.: Paul W. Steen
- NARMCO MFG. CO.**
5159 Baltimore Dr., La Mesa, Calif. (Tel. HDpkins 9-0171)
Gen. Mgr.: Ray Hughes
Sales Mgr.: Robert Post
Engrg. Mgr.: O. C. Price S, TT, RD
- NARMCO MATERIALS DIV., NARMCO INDUSTRIES, INC.**
600 Victoria St., Costa Mesa, Calif. (Tel. LIBerty 8-1144)
Mgr.-Materials Control: Ray Gill
Mgr.-Product & Process Design: R. J. Reiser
Mgr.-Mktg.: W. D. Rainey M
- NARMCO MATERIALS DIV.**
600 Victoria St., Costa Mesa, Calif. (Tel. LIBerty 8-1144)
Purch. Agent: Ray Gill
Asst. Buyer: Marion Edkins
Mktg. Mgr.: William D. Rainey
- NARROW FABRIC CO., THE**
P. O. Box 742, Reading Pa. (Tel. FRAnklin 6-2891)
Dir.-Purch.: C. E. Hoffmaster
Gen. Sales Mgr.: F. S. Pierce M
- NASHUA CORP., CHART PAPER DIV.**
44 Franklin St., Nashua, N. H. (Tel. TUXedo 3-7711)
Purch. Agent: D. V. Lates
Asst. Purch. Agent: F. Richardson
Buyer: E. Toomey
Sales Mgr.-Coating Sales Div.: A. W. Sanborn CT, TT, HSE
- NATIONAL AUTOMATIC PRODUCTS CO., THE**
Washington Ave., Berlin, Conn. (Tel. VA 8-3515)
Purch. Agent: Mrs. Sophia G. Gorban
Pres.: A. F. Kospraw MS
- NATIONAL BERYLLIUM CORP.**
4501 Dell Ave., North Bergen, N. J. (Tel. UNion 4-8125)
Pres.: C. E. Nelson
Sales Mgr.: D. C. deGruchy
Dir.-Purch.: Andy Buonpastore, First & Haskell Avenues, Haskell, N. J. (Tel. TEmple 9-1600) M, RD
- NATIONAL CARBON CO., DIV.-UNION CARBIDE CORP.**
30 E. 42nd St., New York 17, N. Y. (Tel. MURray Hill 7-8000)
Dir.-Mktg.: C. E. Fard S, M
- NATIONAL CERAMIC CO.**
500 Southard St., Trenton 2, N. J. (Tel. EXport 4-5373)
Gen. Mgr.: James R. Smith
V. P.-Purch.: Anna B. Hunt
Prod. Mgr.: Joseph Welke M
- NATIONAL COIL CO.**
P. D. Box 1237, Sheridan, Wyo. (Tel. DR 4-7644)
Purch. Agent: Harold Demple
Sales Mgr.: Joe Demple M
- NATIONAL CO., INC.**
61 Sherman, Malden 48, Mass. (Tel. DA 2-7950)
Dir.-Purch.: S. W. Boteman
Dir.-Tech. Liaison: Saul Fast MS, G, CT, TT, RD
- NATIONAL COPPER & SMELTING CO.**
1862 E. 123rd St., Cleveland 6, Ohio (Tel. CE 1-2366)
Purch. Agent: S. D. Smith
Dir.-Sales: Hamer B. Smith M
- NATIONAL CYLINDER GAS, DIV.-CHEMETRON CORP.**
840 N. Michigan Ave., Chicago 11, Ill. (Tel. WHItetail 4-3100)
Purch. Agent-Resale Merch. Sect.: R. E. Little
Purch. Agent-Mfg. Gases Sect.: R. Maher
Supvr. Buying, Gen. Stores Sect.: E. J. Rader, (Tel. Blshop 2-1205)
V. P. & Gen. Sales Mgr.: C. D. McGuinn M
- NATIONAL ELECTRIC COIL, DIV.-MCGRAW EDISON CO.**
P. O. Box 388, Columbus 16, Ohio (Tel. HUDson 8-1151)
Purch. Agent: F. W. Pearce
Asst. Purch. Agent: W. R. Keesee
Sales Mgr.: B. E. Price MS
- NATIONAL ELECTRONICS**
P. O. Box 1237, Sheridan, Wyo. (Tel. OR 4-7644)
Gen. Mgr. & Purch. Agent: Harold Demple
Sales Mgr.: John Bulling CT
- NATIONAL ELECTRONICS, INC.**
628 North St., Geneva, Ill. (Tel. CENter 2-7000)
Purch. Agent: B. Dgden
Sales Mgr.: Joe S. Kirk M
- NATIONAL ENGRG. PRODUCTS, INC.**
435 Washington Bldg., Washington 5, O. C. (Tel. REpublic 7-4473)
V. P.-Purch.: Clinton Rector
- NATIONAL FELT CO.**
76 Summer St., Boston 10, Mass. (Tel. LIBerty 2-6590) M
- NATIONAL FOAM SYSTEM, INC.**
Union & Adams Sts., West Chester, Pa. (Tel. OW 6-3600)
Purch. Agent: A. D. Halmes
V. P.: L. W. Boerner
- NATIONAL FORGE CO.**
Irving, Warren Co., Pa. (Tel. YOUNGsville - LOgan 9-7522)
Purch. Agent: Willis Cooney
Asst. Purch. Agent: Paul Broderick
Dir.-Sales: James H. Kannan M
- NATIONAL INSTRUMENT LABORATORIES, INC.**
834 Everts St., N. E., Washington, D. C. (Tel. NOrth 7-7582)
Purch. Agent: A. Bloom
Sales & Adv. Mgr.: D. I. Steele CT

NATIONAL LOCK CO.
1902 Seventh St., Rockford, Ill. (Tel. WO 2-4455)
Dir.-Purch.: C. M. Oberling
Dir.-Sales: B. A. Grenberg

NATIONAL METALLURGICAL CORP.
P. O. Box 656, Springfield, Ore. (Tel. Riverside 6-3233)
V. P. & Works Mgr.: W. E. Platte
Secy.-Treas.: A. H. Nelson

NATIONAL MOLDATE CO., INC.
250 South St., Newark, N. J. (Tel. Mitchell 2-6860)
V. P.-Purch.: Manuel Miller
Supt.: James Sembrot
Pres.: Sidney Lowenberg M

NATIONAL PNEUMATIC CO., INC., HOLTZER-CABOT DIVS.
125 Amory St., Boston, Mass. (Tel. JAmico 4-7000)
Dir.-Purch.: Sidney Coven
Purch. Agent: Thomas Furlong
Gen. Sales Mgr.: J. J. Anderson PS, MS

NATIONAL RESEARCH CORP.
70 Memorial Dr., Cambridge, Mass. (Tel. ELiot 4-5400)
Dir.-Purch.: James R. Coudill
Buyers: R. T. Davis, B. M. Sandack
Contracts Mgr.: J. V. E. Hansen

NATIONAL RESEARCH CORP., METALS DIV.
70 Memorial Dr., Cambridge 42, Mass. (Tel. ELiot 4-5400)
Purch. Agent: James R. Coudill
Sales Mgr.: Kenneth A. Geiger M, RD

NATIONAL RESEARCH & DEVELOPMENT CORP.
15 Sixteenth St., N. E., Atlanta, Ga. (Tel. TRinity 3-2536)
Pres.: Corsbie C. Adams

NATIONAL RIVET & MFG. CO.
Waupun, Wisc. (Tel. 780)
Purch. Agent: C. L. Gray
V. P.-Sales: E. J. Maitre M

NATIONAL SCIENTIFIC LABS., INC.
2010 Massachusetts Ave., N.W., Washington 6, D. C. (Tel. HUdson 3-4030)
Dir.-Engrg.: William C. Green
Purch. Agent: John F. Hohmann RD

NATIONAL SCREW & MFG. CO., THE
2440 E. 75th St., Cleveland 4, Ohio (Tel. ENdicott 1-2650); 3423 S. Garfield Ave., Los Angeles 22, Calif.
Purch. Agent: William J. O'Neil
Asst. Purch. Agent: Paul Frederick
Gen. Sales Mgr.: R. E. Block S, MS

NATIONAL SPECIALTIES CO., INC.
1902 Howell St., Ft. Wayne 7, Ind. (Tel. ANthony 2341)
Asst. Gen. Mgr.: Edward C. Doell

NATIONAL TEL-TRONICS CORP.
52 St. Casimir Ave., Yonkers, N. Y. (Tel. YOnkers 8-6400)
Purch. Agent: Anthony Curriera
Asst. Sales Mgr.: William Jaris
Sales Mgr.: Charles J. Siebert

NATIONAL TUBE DIV.-UNITED STATES STEEL CORP.
525 William Penn Pl., Pittsburgh 30, Pa. (Tel. EXpress 1-2345) S, MS, M, RD

NATIONAL ULTRASONIC CORP.
111 Montgomery Ave., Irvington 11, N. J. (Tel. ESsex 1-0550)
V. P.-Purch.: Gilbert Tint
Pres. & Gen. Mgr.: L. R. Jeffrey, Jr. M, CT, RD

NATIONAL UNION ELECTRIC CORP.
1201 E. Bell St., Bloomington, Ill. (Tel. 7-6041)
Chief-Purch.: C. Hoover
Sales Mgr.: H. B. Graham M

NATIONAL VULCANIZED FIBRE CO.
Moryland Ave. & Beech Sts., Wilmington, Del. (Tel. OL 5-6371)
Dir.-Purch.: L. R. Clinton
Buyer: R. L. Jackson
Sales Mgr.: J. R. Kolloher M

NATIONAL WATER LIFT CO., DIV.-CLEVELAND PNEUMATIC INDUSTRIES, INC.
2220 Palmer Ave., Kalamazoo, Mich. (Tel. Filreside 5-8641)
Purch. Agent: Edwin W. Rector
Buyers: Harry Pindell, Joseph Krouse
Sales Mgr.: M. E. Schnurr MS, G, RD

NATIONAL WELDING EQUIPMENT CO.
218 Fremont St., San Francisco 5, Calif. (Tel. YUkon 6-2868)
Pres.: E. L. Mathy M

NATIONAL-STANDARD CO.
Howard & 8th Sts., Niles, Mich. (Tel. MUtual 3-8100)
V. P.-Purch.: J. A. Mogle
V. P.-Sales: R. W. Elder M

NATVAR CORP.
211 Randolph Ave., Woodbridge, N. J. (Tel. FUIton 8-8800)
Dir.-Purch.: M. N. Hiltseberg
Sales Mgr.: S. Sichermann

NAUGATUCK CHEMICAL DIV.-U. S. RUBBER CO.
Elm St., Naugatuck, Conn. (Tel. ELPark 9-5241)
Div. Purch. Agent: R. S. Tobias
Purch. Agent: E. S. Muller
Gen. Sales Mgr.: H. M. Parsekian PS, M, RD

NAUGLER ENGRG., INC.
19 Madison Ave., Beverly, Mass. (Tel. WAlker 2-5634)
Purch. Agent: Charles A. Osborn
Sales Mgr.: W. E. Naugler G

NAVIGATION COMPUTER CORP.
1621 Snyder Ave., Philadelphia 45, Pa. (Tel. HOrward 5-7700)
Purch. Agent: John Newton
Sales Mgr.: O. M. Biberman CT

E. V. NAYBOR LABS., INC.
26 Monorhaven Blvd., Port Washington, N. Y. (Tel. Port Washington 7-4300)
Pres.: E. V. Naybor MS, G, CT, TT

NAZ-OAR CO.
461 Milwaukee Ave., Chicago 10, Ill. (Tel. CHesapeake 3-1630)
Plant Mgr.: S. Rieger
Dir.-Sales: J. Nickels M

NEBEL MACHINE TOOL CORP.
3401 Central Pkwy., Cincinnati 25, Ohio (Tel. Liberty 2-3500)
Purch. Agent: Jack D. Smith
V. P.-Sales: Warren G. Rosendahl

NEFF INSTRUMENT CORP.
2211 E. Foothill Blvd., Posadena, Calif. (Tel. SY 5-4308)
Buyer: Fred Gahn
Prod. Mgr.: W. P. Show
Sales Mgr.: J. B. Schneider G, CT, TT

NELCO METALS, INC.
Canaan, Conn. (Tel. TA 4-5437)
Purch. Agent: Richard Palmer
V. P.-Sales: W. J. Ash M

NELSON ELECTRIC MFG. CO.
P. O. Box 5385, Tulsa, Okla. (Tel. RI 2-5531)
Purch. Agent: Miss E. Mourer
Mgr.-Engrg.: Dick Roy
Mgr.-Mkting.: D. McDevitt MS

NELSON LABS., INC.
4718 Mason Ave., Hyattsville, Md. (Tel. WArfield 7-1116)
Purch. Agent: Charles E. Barker
Dir.-Sales: Ralph S. Baer MS, RD

NELSON STUD WELDING, DIV.-GREGORY INDUSTRIES, INC.
Toledo Ave. at E. 28th St., Lorain, Ohio (Tel. CHerry 5-6931)
Dir.-Purch.: Howard P. Nalley
Dir.-Sales: R. E. McGinnis S

NELSON VACUUM PUMP CO.
2133 4th St., Berkeley 10, Calif. (Tel. THornwall 8-2277)
Mgr.-Purch.: D. B. Webb
Sales Mgr.: B. J. McClary CT

NEMS CLARKE CO., DIV.-VITRO CORP. OF AMERICA
919 Jesup-Blair Dr., Silver Spring, Md. (Tel. JUUniper 5-1000)
Purch. Agent: O. E. Lanhom
Dir.-Sales: J. F. Whitehead

NETWORKS ELECTRONIC CORP.
14806 Oxford St., Van Nuys, Calif. (Tel. STate 2-3114)
Purch. Agent: James O. Sillanoff
V. P.-Purch.: John A. Shortal
Mkting. Mgr.: Sheldon T. Schreiber MS, G, TT

NEUMAEO PRODUCTS CORP.
250 W. 57th St., New York 19, N. Y. (Tel. JUdson 6-5810)
Gen. Mgr.: E. T. Neuv M

NEVADA AIR PRODUCTS CO.
P. O. Box 1090, Reno, Nev. (Tel. FA 2-9421)
Purch. Agent: R. Monaghan
Purch. Mgr.: J. W. Boldecchi
Engrg. Mgr.: S. D. Tout MS, RD

NEVILLE CHEMICAL CO.
Neville Island, Pittsburgh 25, Pa. (Tel. FEderal 1-4200)
Purch. Agent: C. H. Brown
Gen. Sales Mgr.: E. Glenn Isenberg

NEW BRITAIN MACHINE CO., THE, PRECISION PRODUCTS DIV.
South St., New Britain, Conn. (Tel. BAldwin 9-1641)
Dir.-Purch.: R. Hulbert
Purch. Agent: J. Devokaitis
Buyer: L. Bourquin
Asst. Purch. Agent: E. Johnson
Sales Mgr.: W. R. Knowles

***NEW DEPARTURE DIV., GENERAL MOTORS CORP.**
269 N. Main St., Bristol, Conn. (Tel. LUdlow 2-6371)
Dir.-Purchases: William J. Ryan
Gen. Sales Mgr.: Leonard F. Swoyer PS, G, RD
(See advertisement this issue)

NEW ENGLAND AIRCRAFT PRODUCTS CO.
105 E. Main St., Plainville, Conn. (Tel. SH 7-2764)
Purch. Agent: Frank Broderick
Supt.: Henry Drescher
Pres.: George Einstein
Gen. Mgr.: Guy C. Shofar PS, MS, RD

NEW ENGLAND ELECTRICAL WORKS, INC.
365 Main St., Lisbon, N. H. (Tel. 8-6620)
Treas.: L. H. Dumdey G

NEW ENGLAND ETCHING CO., INC.
Spring St., Holyoke, Mass. (Tel. JE 2-9482)
V. P.-Sales: Walter W. Morris

NEW ENGLAND INSTRUMENT CO.
1334 Main St., Waltham, Mass. (Tel. TWinbrook 9-8370)
Asst. to Pres.: Noel Siegel
Sales Mgr.: Melvin Kutchin
V. P.-Purch.: Don McGee, 320 Main St., Woonsocket, R. I. (Tel. POpular 2-6232) MS, G, CT, TT, RD

NEW ENGLAND LAMINATES CO., INC.
481 Canal St., Stamford, Conn. (Tel. DAVIS 4-4181)
Tech. Dir.: Dr. D. E. Edger
Sales Mgr.: Bruce B. Greenfield S, M, RD

NEW ENGLAND MACHINE & TOOL CO., THE
Berlin, Conn. (Tel. VA 8-3519)
Purch. Agent: A. Hermann

NEW ENGLAND SCIENTIFIC INSTRUMENTS CO.
238 Main St., Cambridge 42, Mass. (Tel. KI 7-1997)
Gen. Mgr.: Dr. Geoffrey Knight, Jr. M, CT, RD

NEW ENGLAND SPRING MFG. CO., INC.
Unionville, Conn. (Tel. FOrmington, ORchard 3-2568)
Pres. & Gen. Mgr.: C. J. Doley
Plant Mgr.: L. A. Powers M

NEW ENGLAND TAPE CO., DIV.-UNITED-CARR FASTENER CORP.
30 Tower St., Hudson, Mass. (Tel. JOrdan 2-3485)
Purch. Agent: F. A. Keay
Sales: H. M. Wilkoff M

NEW ENGLAND TRANSFORMER CO., INC.
47 McGroth Hwy., Somerville 43, Mass. (Tel. SOrmet 6-6100)
Pres.: H. F. S. Morris

NEW HAMPSHIRE BALL BEARINGS, INC.
Peterborough, N. H. (Tel. WAlnut 4-3311)
Purch. Agent: W. R. Reekie
Buyer: Marvin Hammer
Sales Mgr.: George Hampson MS, G, TT, RD

NEW JERSEY WOOD FINISHING CO.
Amboy Ave., Woodbridge, N. J. (Tel. MErcury 4-1430)

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
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Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- Dir.-Purch.: Thomas A. Costanza
Sales Mgr.: Frank A. Shoemaker
- NEW JERSEY ZINC CO., THE**
160 Front St., New York 38, N. Y. (WH 3-5700)
Dir.-Purch.: W. C. Dunlap
Purch. Dept.: W. S. Hutchings & J. Rathjen
Dir.-Sales: R. G. Kenly M
- NEW LONDON INSTRUMENT CO. INC.**
82 Union St., New London 6, Conn. (Tel. Glsbn 3-8451)
Purch. Agent: Anthony Franco
Pres.: Dale Pollack MS, CT, TT, RD
- NEW YORK AIR BRAKE CO., THE WATERTOWN DIV.**
Starbuck Ave., Watertown, N. Y. (Tel. SUNset 2-7000)
Purch. Mgr.: W. F. Slack
Asst. Purch. Mgr.: H. A. Hardman
Buyer: R. H. Madden
Gen. Sales Mgr.: H. R. Daughy, Jr. PS, MS, G
- NEW YORK COIL CO., INC.**
48 Second Ave., Phoenixville, Pa. (Tel. WELlington 3-3114)
Purch. Agent: Mrs. J. William Yocum
Pres. & Sales Mgr.: J. R. Zikmund
- NEW YORK & NEW JERSEY LUBRICANT CO.**
292 Madison Ave., New York, N. Y. (Tel. LEXington 2-2851)
Purch. Agent: F. Roettinger
V. P.-Sales: I. L. Hall PS, M
- NEW YORK SOLDER CO., INC.**
684 E. 133rd St., New York 54, N. Y. (Tel. CYpress 2-3740)
Purch.: B. Gottlieb
- NEW YORK TRANSFORMER CO. INC.**
3rd Ave., Alpha, N. J. (Tel. GLEncourt 4-1143)
Purch. Agent: A. Micci M
- NEW YORK TWIST DRILL CO., INC.**
276 Lafayette St., New York 12, N. Y. (Tel. WORth 6-0551)
Purch. Agent: Ernest Lazarus
Exec. V. P.-Sales: Raymond M. Greenfield M
- NEWARK CONTROLS CO.**
15 Ward St., Bloomfield, N. J. (Tel. PILgrim 8-2971)
Purch. Agent: D. Hess
Pres.: B. A. Hicks
- NEWARK WIRE CLOTH CO.**
351 Verona Ave., Newark, N. J. (Tel. HUMBoldt 3-7700)
Purch. Agent: E. J. Korn
V. P.-Sales: J. L. Campbell M
- NEWAY EQUIPMENT CO.**
P. O. Box 425, 1183 E. Laketon Ave., Muskegon, Mich. (Tel. 6-2134)
Purch. Agent: Fred Tuttle
Exec. V. P.: G. W. Bartlett
Sales Mgr.: M. F. Feather S, M
- NEWBROOK MACHINE CORP.**
16 Mechanic St., Silver Creek, N. Y. (Tel. 44)
Purch. Agent: R. M. Scott
Shop Supt.: J. P. Shaw
Dir.-Sales: Gordon Kurtis
- M. M. NEWMAN CORP.**
79 Clifton Ave., Marblehead, Mass. (Tel. NEPTune 1-0637)
Pres.: M. M. Newman M
- NEWTN RUBBER CO.**
Country Rd., Borington, R. I. (Tel. CHerry 5-8050)
Purch. Agent: Charles F. Gladding
Sales Mgr.: Richard T. Shortle M
- NEWTON CO., THE**
55 Elm St., Manchester, Conn. (Tel. MI 3-1543)
Purch. Agent: Ernest Ehlers
V. P.-Sales: Norman Nelson MS, G, TT
- NEWTON HYDRAULIC TOOLING CO.**
P. O. Box 278, Auburn, Mass. (Tel. PLeaston 6-4695)
Purch. Agent: A. Pratt
Dir.-Sales: Gerald P. Welman
- J. M. NEY CO., THE**
Maplewood Ave., Bloomfield, Conn. (Tel. CH 2-2281)
Dir.-Purch.: Ralph Fothergill
Dir.-Sales & Engrs.: Fred I. Kent
- NIAGARA MACHINE & TODL WORKS**
683 Northland Ave., Buffalo 11, N. Y. (Tel. TAYlor 4070)
- Purch. Agent: R. B. DeLisle
V. P.-Sales: F. A. Reed
- NICAD DIV., GOULD-NATIONAL BATTERIES, INC.**
Pleasant St., Easthampton, Mass. (Tel. EAsthampton 1200)
Purch. Agent: A. R. Duby
Buyer: D. B. Chateaneuf
Gen. Sales Mgr.: L. R. Mannheim MS, G, CT, TT
- NICE BALL BEARING CO.**
30th & Hunting Park Ave., Philadelphia 40, Pa. (Tel. BALdwin 3-6000)
Purch. Agent: F. P. H. Dimond
V. P.-Sales: Theo E. Spilker M
- W. H. NICHOLS CO.**
48 Woerd Ave., Waltham 54, Mass. (Tel. TWINbrook 4-0650)
Dir.-Purch.: W. L. Neese
Asst. Dir.-Purch.: R. H. Stearns
Sales Mgr.: John Fresto
- NILSEN MFG. CO.**
21 N. Church St., Addison, Ill. (Tel. KINGSwood 3-6800)
V. P.-Purch. & Sales: T. C. Nilsen M, G, TT
- NILSSON ELECTRICAL LAB., INC.**
103 Lafayette St., New York 13, N. Y. (Tel. CANal 6-1648)
V. P.-Purch.: O. Raymond Danielson
Sales Mgr.: Herbert Franzen
- NIPPERT ELECTRIC PRODUCTS CO., THE**
1759 W. Mound St., Columbus 23, Ohio (Tel. BRoadway 4-1116)
V. P.: J. E. Nippert M
- NOBLE & WESTBROOK MFG. CO., THE**
Westbrook St., East Hartford 8, Conn. (Tel. BU 9-2717)
Secy.: R. H. Gunther M
- NON-LINEAR SYSTEMS, INC.**
P. O. Box 728, Del Mar, Calif. (Tel. SKYline 5-1134)
Dir.-Material: William Clemens
V. P.-Mktg.: Richard C. Wynne CT
- NOOTER CORP.**
1400 S. Third St., St. Louis 66, Mo. (Tel. MAIn 1-6000)
Dir.-Purch.: Herbert H. Lurtz
Buyers: Edward Diekmann & Donald Herr
V. P.-Sales: Arthur Schwarz S
- NOPCO CHEMICAL CO., PLASTICS DIV.**
175 Schuyler Ave., North Arlington, N. J. (Tel. WYman 8-3555)
Dir.-Purch.: Foster Jones
Gen. Sales Mgr.: John Gulick M
- NORAIR DIV., NORTHROP CORP.**
2031 E. Mariposa Ave., El Segundo, Calif. (Tel. OREGon 8-0411)
Dir.-Material: C. W. Hood
V. P. & Mgr.-Mktg.: John R. Allison, 1001 E. Broadway, Hawthorne, Calif. (Tel. OREGon 8-9111)
- NORD AVIATION**
12 bis, av. Bosquet, Paris (7e)
Factory: 12/18 rue Beranger-CHATILLON-sous-BAGNEUX (Seine)
Pres.: P. Mazer
- NORDBERG MFG. CO.**
3073 S. Chase Ave., Milwaukee, Wisc. (Tel. SHeridan 4-2345)
Gen. Purch. Agent: F. T. Finley
Mgr.-Sales: W. C. Jackson MS, M
- NORDEN DIV., UNITED AIRCRAFT CORP.**
58 Commerce Rd., Stamford, Conn. (Tel. DAVIS 5-2611)
Gen. Sales Mgr.: Robert M. Adams, Jr.
Purch. Dept.: Carmel Cascio, Wiley St., Milford, Conn. (Tel. TRinity 4-6721) MS, G, TT, RD
- NORMANDY ELECTRIC WIRE CORP.**
125 Second St., Brooklyn 31, N. Y. (Tel. TRIangle 5-9863)
Mktg. Expediter: Lester W. Goody
Purch. Dept.: Milton Imbey MS, M
- NORRICH PLASTICS CORP.**
107-109 W. 18th St., New York 11, N. Y. (Tel. WA 4-8360)
Dir.-Purch.: N. Lawrence
Pres.: N. Thaw
Tech. Sales Mgr.: Richard E. Thaw PS, M, CT, TT
- NORRICH SCREW MACHINE PRODUCTS**
206 Babylon Tpke., Roosevelt, L. I., N. Y. (Tel. MAYfair 3-3100)
Dir.-Purch.: Norman L. Thaw
V. P.-Sales: Richard E. Thaw PS, MS, M
- NORRIS-THERMADOR CORP.**
5215 S. Bayle Ave., Los Angeles 58, Calif. (Tel. LUDlow 8-7111)
Dir.-Purch.: R. R. Stoddard
V. P.-Sales, Military Products: D. P. White
- ERNST NORRMAN LABORATORIES**
Lake Geneva, Wisc. (Tel. CIRCle 5-5516)
Ernst Norrman G, CT, TT, RD
- NORSID MFG. CO., INC., THE**
33 Prospect St., Yonkers, N. Y. (Tel. YONkers 5-8145)
Purch.: Jack Deutsch
Sales: Harold Deutsch
- NORTH AMERICAN ELECTRONICS, INC.**
71 Linden St., West Lynn, Mass. (Tel. LYnn 8-4800)
Purch. Agent: Mario S. Bruno
Sales Mgr.: Raymond W. Smith
- NDRTH & JUDD MFG. CO.**
500 E. Main St., New Britain, Conn. (Tel. BALdwin 3-3621)
Purch. Agent: M. N. Holmes
Gen. Sales Mgr.: P. W. Brown
- NORTH SHORE NAMEPLATE, DIV.-ANODYNE, INC.**
214-27 Northern Blvd., Bayside 61, N. Y. (Tel. BAYSide 4-4000)
Pres.: E. T. Turney, Jr.
Planning Engr.: A. L. Winter
Purch. Agent: Miss Gladys Dept
Sales Mgr.: Daniel G. Heilpern M
- NORTHEAST ELECTRONICS CORP.**
P. O. Box 425, Airport Rd., Concord, N. H. (Tel. CApital 5-6641)
Purch.: R. L. Lincoln
Sales: W. B. Wilkens RD
- NORTHEAST METALS INDUSTRIES, INC.**
Ridge & Sedgley Avenues, Philadelphia 2, Pa. (Tel. PO 3-5727)
Purch. Agent: Lillian Robbins
Sales Mgr.: T. R. Roberts S, MS, RD
- NORTHEAST SCIENTIFIC CORP.**
30 Wetherbee St., Acton, Mass. (Tel. COLonial 3-7706)
Pres.: Clement Moritz
- NORTHEASTERN ENGRG. INC.**
25 S. Bedford St., Manchester, N. H. (Tel. NAional 2-6485)
Purch. Agent: E. Newhall
Pres.: D. W. Brous
Mgr., Electronics: C. N. Chagaris
Sales Engr.: C. J. Kinnair, Jr. MS, CT
- NORTHERN ENGRG. LABORATORIES, INC.**
372 Wilcox Ave., Burlington, Wisc. (Tel. ROckwell 3-3591)
Pres. & Sales Mgr.: John D. Holmbeck
V. P.-Purch.: E. E. Overbey G, CT, TT
- NORTHERN ORDANCE INC., SUB-NORTHERN PUMP CO.**
Columbia Height, Minneapolis 21, Minn. (Tel. SUNset 8-8601)
Purch. Mgr.: W. H. Bauer
Purchasing: Vern Kinney & Tony Petrangelo
Contract Service Mgr.: A. J. Bryant
- NORTHERN PLASTICS CORP.**
2nd & Market St., La Crosse, Wisc. (Tel. 4-6070)
Purch. Agent: S. L. Noe
V. P.-Sales: G. C. Kroening M
- NORTHROP CORP.**
9744 Wilshire Blvd., Beverly Hills, Calif. (Tel. CResview 4-8061)
Pres.: Thomas V. Jones S, MS, M, G, CT, TT, RD, HSE
- NORTHROP CORP., NORTRONICS DIV.**
Electronic Systems & Equipment Dept., 222 N. Prairie Ave., Hawthorne, Calif. (Tel. OREGon 8-9111)
Dir.-Material: R. M. Cooper
Chief Applications Engr.: T. J. Venator
Precision Products Dept., The: Norwood, Mass.
V. P. & Gen. Mgr.: Dr. William F. Balhaus
Systems Support Dept.: 500 E. Orangethorpe, Anaheim, Calif. (Tel. LAMBERT 5-4771)
Dir.-Material: G. A. Johnston
Chief Applications Engr.: E. W. Warnshuis S, MS, M, G, CT, TT, RD, HSE

NORTHWESTERN ELECTRIC CO.
1750 N. Springfield Ave., Chicago 47, Ill. (Tel. Dickens 2-4400)
Purch. Agent: Paul Christionsen
V. P.-Sales: George D. Craig, Jr. MS

NORTON ASSOCIATES, INC.
240 Old Country Rd., Hicksville, N. Y. (Tel. Overbrook 1-6181)
Purch. Agent: M. Viale
Sales Mgr.: R. S. Norton G, RD

NORTON CO.
New Bond St., Worcester 6, Mass. (Tel. Swift 8-2511)
Purch. Dept.: W. L. Hixon
Gen. Purch. Agent: G. D. Seguin
Chief Buyer: H. H. Anderson M, RD

NORTON CO., NEW PRODUCTS DEPT.
Worcester 6, Mass. (Tel. SW 8-2511) M, RD

NORWALK CUTTER SHARPENING CO.
356 Ely Ave., South Norwalk, Conn. (Tel. VO 6-0560)
Dir.-Sales: Harold W. Nadin

NORWALK THERMOSTAT CO.
100 N. West St., Norwalk, Ohio (Tel. 3-0822)
Dir.-Purch. & Sales: D. H. Callihan
V. P.-Purch.: E. S. Arlin
Plant Mgr.: A. R. Beard

NORWOOD PRODUCTS, DETROIT CONTROLS DIV.
5900 Trumbull St., Norwood, Mass. (Tel. TR 2-0300)
Purch. Agent: J. Moncur
Mgr., Instrumentation Mktg.: H. T. Elliott

NOTHELFER WINDING LABS. INC.
222 Ewingville Rd., Trenton 9, N. J. (Tel. TUxedo 2-2500)
Purch. Agent: Carl W. Zigrano M

NOTIFIER CORP.
3700 N. 56th St., Lincoln 4, Nebr. (Tel. 6-2331)
Pres.: Oliver T. Jay

NU STEEL CO.
1714 S. Ashland Ave., Chicago 8, Ill. (Tel. HAYmarket 1-5760)
Pres.: Lew W. Cleminson M

NUCLEAR CORP. OF AMERICA
2 Richwood Pl., Denville, N. J. (Tel. OAKwood 7-4200)
Purch. Agent: Michael Buff
Sales Mgr., Instrument & Research Div.: David Silverstein
Sales Mgr., Central Electronics Div.: Gene Perry CT, RD

NUCLEAR DEVELOPMENT CORP. OF AMERICA
5 New St., White Plains, N. Y. (Tel. WH 8-5800)
Purch. Agent: I. Jacobsen
Mgr.-Prod. Operations: K. O. Donevan
Mgr.-Contract Operation: N. Schwartz M, RD

NUCLEAR DEVELOPMENT LAB.
P. O. Box 7034, Kansas City 13, Mo. (Tel. DElmar 3-7692)
Mgr.-Purch. & Sales: M. J. Test

NUCLEAR MEASUREMENTS CORP.
2462 N. Arlington Ave., Indianapolis 18, Ind. (Tel. LIBerty 6-2415)
Purch. Agent: James L. Sommerville
Chief Engr.: Herbert S. Fall
Gen. Sales Mgr.: Carl L. Kegley RD

NUCLEAR-CHICAGO CORP.
333 Howard Ave., Des Plaines, Ill. (Tel. VANDerbilt 7-4456)
Purch. Agent: Robert Young
V. P., Indsl. Div.: O. K. Neville
Chief Engr.: Philip Slevick
Sales Mgr.: Mel Shepherd RD

NUCLEONIC PRODUCTS CO.
1601 Grande Vista Ave., Los Angeles 23, Calif. (Tel. AN 2-3503)
Dir.-Purch.: V. Pineda
Dir.-Sales: A. Jolles

NUCENT ELECTRONICS CO., INC.
802 E. Eighth St., New Albany, Ind. (Tel. Whitehall 5-0211)
V. P.-Purch.: J. D. Robinson G, CT

NUMBERALL STAMP & TOOL CO.
Huguenot Park, Staten Island 12, N. Y. (Tel. YUKon 4-0822)
Owner: Max Bayerdarffer
Mgr.: William Buechling

PAUL NURCHES CO.
2396 E. Foothill Blvd., Pasadena, Calif. (Tel. SYcomore 6-5844)
Mgr.-Purch. & Sales: Paul Nurches MS, CT, RD

NURECO, INC.
1100 Pontiac Ave., Cranston 10, R. I. (Tel. HOPkins 1-4110)
V. P.-Purch.: J. Grano
Pres. & Gen. Mgr.: C. L. Grano
Sales Mgr.: J. J. Jordan M

NUTMEG SCREW MACHINE PRODUCTS CO.
Walcat Rd., Walcat 16, Conn. (Tel. Waterbury, PLaza 7-1496)
Purch. Agent: Joseph Pagano
Dir.-Sales: Richard H. Seecery TT

NUTRON MFG. CO. INC.
67 Manroe Ave., Staten Island 1, N. Y. (Tel. GIBralter 7-3229)
Secy.-Treas.: Henry Scian

NUTTING TRUCK & CASTER CO.
1201 W. Division St., Faribault, Minn. (Tel. EDison 4-4333)
Purch. Agent: H. E. Hildebrandt
Asst. Purch. Agent: E. W. Erie
Gen. Sales Mgr.: K. F. Heath

NYLOK CORP., THE
611 Industrial Ave., Paramus, N. J. (Tel. COLfax 1-9400)
Purch. Agent: S. J. Roberts
Pres.: R. E. Waldo
V. P.-Sales: T. J. Buckley S, PS, MS, G, CT, TT

NYTRONICS, INC., ESSEX ELECTRONICS DIV.
550 Springfield Ave., Berkeley Heights, N. J. (Tel. CRestview 3-9300)
Purch. Agent: William H. Bowman
Purch. Dept.: Jack Gerard
Sales Mgr.: Henry J. Lenox MS, G, CT, TT

OPW-JORDAN
6013 Wiehe Rd., Cincinnati 13, Ohio (Tel. EL 1-1352)
Asst. Plant Mgr.: M. H. Hott
Chief Sales Engr.: P. H. Coleman
Sales Engr.: R. J. Peters
Gen. Mgr.: G. B. Richards, Jr.

OFFNER ELECTRONICS INC.
3900 River Rd., Schiller Park, Ill. (Tel. GLadstone 1-0050)
Purch. Agent: H. Lewis
Sales Mgr.: G. W. Little MS, CT, TT

OHIO CARBON CO., THE
12508 Berea Rd., Cleveland 11, Ohio (Tel. CL 2-6100)
Purch. Agent: R. Hawrylak
V. P.-Sales: F. C. Aurand M

OHIO CHEMICAL & SURGICAL EQUIPMENT CO., DIV.-AIR REDUCTION CO., INC.
1400 E. Washington Ave., Madison 10, Wis. (Tel. ALPine 6-5421)
Purch. Agent: A. J. Sauer
Asst. Purch. Agent: E. O. McConnell
V. P.-Sales: Charles A. Simpler M

OHIO NUT & WASHER CO., THE
P. O. Box 66, Mingo Junction, Ohio (Tel. KE 5-1618)
Dir.-Purch.: Charles B. Lanman
Sales Mgr.: Charles S. Thompson

OHIO PRECISION CASTINGS, INC.
109 Webb St., Dayton 3, Ohio (Tel. CLearwater 3-4183)
Pres.-Treas.: W. J. Prestel
Dir.-Purch.: Mrs. Jeanette Diener M

OHIO SEAMLESS TUBE DIV.-COPPERWELD STEEL CO.
Shelby, Ohio (Tel. 3-1010)
Purch. Agent: R. R. Underhill
Asst. Purch. Agent: R. W. Winck
Mgr.-Sales: J. E. Horner

OHIO STEEL FOUNDRY CO., THE
1075 James St., Springfield, Ohio (Tel. FA 5-7631)
Purch. Agent: E. F. Buchanan, P. O. Box *F*, Lima, Ohio (Tel. CA 2-2010)
Sales Mgr.: J. D. Hagans M

OHLSON EMPIRE INC.
24-16 Bridge Plaza, Long Island City 1, N. Y. (Tel. STIllwell 6-0700)
Dir.-Purch.: Donald R. Locke
Dir.-Sales: Philip E. Ohlson MS, M

OHMART CORP., THE
2236 Bogen St., Cincinnati 22, Ohio (Tel. PArkway 1-2302)
Purch. Agent: J. Allen
V. P.-Purch.: E. M. Pallock
Pres.: P. E. Ohmart RD

OIL-DYNE, INC.
2115 W. Marquette Rd., Chicago 36, Ill. (Tel. HEmlock 4-2300)
Purch. Agent: Andrew Pappas
Buyer: Jack Budokian
Sales Mgr.: George Staat MS, CT, RD

OIL-RITE CORP.
2318 Waldo Blvd., Manitowac, Wisc. (Tel. MURray 2-2428)
Purch. Agent: Gus Lukas
Sales Mgr.: Frank J. Lyden

OKONITE CO., THE, SUB.-KENNECOTT COPPER CORP.
220 Passaic St., Passaic, N. J. (Tel. PRescatt 7-0400)
Purch. Agent: T. B. Woodcock
V. P.-Mktg.: C. M. Kirkland M

OLIN MATHIESON CHEMICAL CORP.
10 Light St., Baltimore 3, Md. (Tel. PLaza 2-8300)
Purch. Mgr.-Chemicals Div.: Ralph C. Phillips
Purch. Dept.-Chemicals Div.: Edward W. Genetive
Mgr., Sales Dev.-Spec. Prod., Chemicals Div.: J. G. Chalfant M

OLIN MATHIESON CHEMICAL CORP.-METALS DIV.
400 Park Ave., New York 22, N. Y. (Tel. PLaza 1-7277)
Metal Specialist: Jack Farst, 460 Park Ave., New York 22, N. Y. (Tel. MURray Hill 8-0500) M

OLIN MATHIESON CHEMICAL CORP., N. Y.
460 Park Ave., New York 22, N. Y. (Tel. MURray Hill 8-0500)
V. P.-Defense Products Mktg.: H. A. Sasnoski PS, M, RD

OLIN MATHIESON CHEMICAL CORP., WINCHESTER-WESTERN DIV.
275 Winchester Ave., New Haven 4, Conn. (Tel. SPRuce 7-7911)
Purch. & Trans. Mgr.: F. E. Plumley
Purch. Agent: M. W. Perrine
Buyer: W. B. Fuller
Mktg. Mgr., Indsl. & Mil. Sales: A. S. Cogan MS, RD

OLIVER CORP., THE, A. B. FARQUHAR DIV.
142 N. Duke St., York, Penna. (Tel. 7801)
Spec. Machinery & Ord. Sales Mgr.: J. Kugle
Mech. & Hydraulic Press Sales Mgr.: G. Wright
Conveyor Sales Mgr.: C. W. King
Mgr.-Purch.: Lester B. Hibner S

OLYMPIC PLASTICS CO., INC.
3471 S. La Cienega Blvd., P. O. Box 78477, Los Angeles 16, Calif. (Tel. UP 0-1121)
Purch. Agent: J. Borack
Purch. Clerk: A. Aranoff
Sales Mgr.: Herbert Rame S, PS

OLYMPIC SCREW & RIVET CORP.
11445 S. Dolan St., Downey, Calif. (Tel. SPruce 3-2060)
Dir.-Purch.: Irving Borg
Purch. Agent: Robert O'Donnell
V. P. & Gen. Mgr.: E. H. Strou S, MS, M, RD

OMEGA LABS., INC.
Haverhill St., Rawley, Mass. (Tel. WHitney 8-7757)
Treas.: H. B. Ribbel MS

ON MARK COUPLINGS, INC.
4404 York Blvd., Los Angeles 41, Calif. (Tel. CLinton 4-2278)
Purch. Agent: Kenneth Palmer
Pres.: Barry B. Willis
Chief Engr.: H. A. DeCenzo
Sales Mgr.: Howard Sherman PS, MS, CT, RD

ON MARK ENGINEERING CO.
7929 Hoyvenhurst Ave., Van Nuys, Calif. (Tel. TRIangle 3-1030)
Dir.-Purch.: F. E. Britton
Comm. Sales Mgr.: Harvey D. Adams

D. W. ONAN & SONS INC.
2515 University Ave., S. E., Minneapolis 14, Minn. (Tel. FE 2-1155)

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

purchasing directory onan-peer

- Dir.-Procurement: H. P. Richter
Mgr.-Purch. Dept.: L. V. Moen
V. P.-Sales: R. E. Mullin MS, CT
- ONONDAGA ELECTRONICS DIV., SPEER CARBON CO.**
1810 W. Fayette St., Syracuse 1, N. Y. (Tel. HO 8-6261)
Purch. Agent: V. N. Goodrich
Sales Mgr.: P. L. Christensen M
- ONSRUD CUTTER MFG. CO., INC.**
800 E. Broadway, Libertyville, Ill. (Tel. 2-1560)
Gen. Mgr.: Oan Johnstad
Sales Mgr.: Arthur R. Johnson S, MS
- ONSRUD MACHINE WORKS, INC.**
7720 N. Lehigh Ave., Niles 48, Ill. (Tel. Niles 7-8700)
Purch. Agent: Frank Muscarello
Buyer: William Hansen
Exec. V. P.-Sales: G. M. Campbell
- OPAD ELECTRIC CO.**
43 Walker St., New York 13, N. Y. (Tel. WOrth 6-0380)
Purch. Agent: J. McShay
Dir.-Sales: H. L. Opad
- PELIKA WELDING, MACHINE & SUPPLY INC.**
1200 Steel St., Opelika, Ala. (Tel. SHERwood 5-3524)
Pres.: G. C. Mann
Chief Engr.: William S. Harris, II
V. P.-Sales: C. S. Foster S, MS
- OPTICAL COATING LAB., INC.**
2789 Giffen Ave., Santa Rosa, Calif. (Tel. LIberty 5-6440)
Admin. Mgr.: John McCullough
Purch. Agent: L. Vance Fisher
Sales Mgr.: Oanforth Joslyn G, RD
- OPTICAL GAGING PRODUCTS, INC.**
26 Forbes St., Rochester 11, N. Y. (Tel. FAirview 8-9090)
Purch. Agent: C. Pat Henry
Dir.-Sales: Wayne G. Norton CT
- OPTIMIZED DEVICES, INC.**
864 Franklin Ave., Thornwood, N. Y. (Tel. ROgers 9-6110)
Prod. Mgr.: J. Murtha
Sales Mgr.: A. Zuch CT
- OPTOMECHANISMS INC.**
216 E. 2nd St., Mineola, N. Y. (Tel. PLaneer 6-5576)
Purch. Agent: John Ferrante
Sales Engr. Mgr.: Roy T. Smith RD
- OPTO-METRIC TOOLS, INC.**
137 Varick St., New York 13, N. Y. (Tel. ORegon 5-9076)
Secy.: A. A. Crystle
- ORBITRAN CO., INC.**
11487 Woodside Ave., Lakeside, Calif. (Tel. HI 3-3841)
Gen. Mgr.: E. W. Fischer
- ORDNANCE ENGINEERING ASSOCIATES, INC.**
407 S. Dearborn St., Chicago 5, Ill. (Tel. HArrison 7-2294)
Purch. Agent: John E. Banko
Dir.-Sales: Ahmed O. Kafadar
V. P.-Engrg.: Ramon L. Olson RD
- ORDNANCE RESEARCH & DEVELOPMENT CO., DIV.-BERMITE POWDER CO.**
6856 Tujuanga Ave., North Hollywood, Calif. (Tel. TRiangle 7-5628)
Mgr.-Sales: Joseph B. Tortorici
V. P. & Asst. Gen. Mgr.-Purch.: Hugo Lizza
Mgr.-Sales, Eastern Office: Samuel P. Miller,
Alexandria, Va. (Tel. FLEETwood 4-1118)
P, MS, TT, RD
- ORONITE CHEMICAL CO.**
200 Bush St., San Francisco 20, Calif. (Tel. SUtter 1-6940)
V. P.-Mktg.: T. M. Welton
Div. Sales Mgr.: J. R. Stitt
Product Specialist: J. S. McClure M, G
- ORR INDUSTRIES CO., DIV.-AMPEX CORP.**
Opelika, Ala. (Tel. SH 5-7643)
Purch. Mgr.: Thad McEachin
Dir.-Sales: J. Reynolds Carey
- ORTHO FILTER CORP.**
7 Paterson St., Paterson 1, N. J. (Tel. MUlberry 4-5858)
- Purch. Agent: George C. Pagonis**
Buyer: William McGrovey
- ORTMAN-MILLER MACHINE CO., INC.**
19 143rd St., Hammond, Ind. (Tel. WEStmore 1-1710)
Dir.-Purch.: A. H. Ortman
Dir.-Sales: N. H. Ortman
- ORYX CO.**
13804 Ventura Blvd., Sherman Oaks, Calif. (Tel. STate 8-1013)
Dir.-Purch. & Sales: C. H. Mitchell
- OSBORNE ELECTRONIC SALES CORP.**
712 S. E. Hawthorne Blvd., Portland 14, Ore. (Tel. BElmont 2-0161)
Purch. Agent: Charles Pearce
Pres.: G. L. Osborne
V. P.-Mktg.: S. H. Bellue MS
- R. H. OSBRINK MFG. CO.**
6917 McKinley Ave., Los Angeles 1, Calif. (Tel. PLeasant 3-3381)
Purch. Agent: J. R. Elam
Mktg. Mgr.: H. C. Cisco
Chief Engr.: W. C. Brown S
- JOHN OSTER MFG. CO., AVIONIC DIV.**
1 Main St., Racine, Wis. (Tel. MElrose 7-4445)
Purch. Agent: Paul South
Asst. Purch. Agent: P. J. Bjerke
Buyer: R. Woods
Eastern Sales Mgr.: I. G. Epstein
Western Sales Mgr.: W. Carlson
- OTIS ELEVATOR CO., DEFENSE & INDUSTRIAL DIV.**
35 Ryerson St., Brooklyn 5, N. Y. (Tel. ULster 5-6800)
Purch. Agent: A. Velto
Mgr. Mil. Customer Relations: R. M. Huff MS, CT, RD
- OVERHAUL & AEROSYSTEMS, DIV.-TEMCO AIRCRAFT**
P. O. Box 1056, Greenville, Texas (GLadstone 5-3450)
Supvr.-Purch.: A. W. Melton
Supt.: Wayne Valentine
Mgr.-Sales: W. A. Oalan S
- OVERHEAD DDDR CO. OF OREGON, INC.**
3508 S. W. Moody St., Portland, Ore.
- OVERLOAD CONTRDL CO.**
151 Pennsylvania Ave., Island Park, N. Y. (Tel. GEneral 2-1431)
Purch.: R. Ronnie
Sales: Earl Elwyn Smith MS, CT
- OWATONNA TODL CO., PRECISION HYDRAULICS DIV.**
Owatonna, Minn. (Tel. 5591)
Purch. Agent: Clarence P. Kaplan
Dir.-Sales: J. A. Mullenmaster M
- OWEN LABS., INC.**
55 Beacon Pl., Pasadena, Calif. (Tel. MUrray 1-6901)
Purch. Agent: W. N. Fellows
Mgr.-Sales: R. P. Owen CT
- OWENS-CORNING FIBERGLAS CORP.**
National Bank Bldg., Toledo 1, Ohio (Tel. CHerry 8-6741)
Mgr.-Purch., Gen. Products: G. C. Stefango
Purch. Dept.: William H. Oeardurf & John W. Moore
V. P.-Sales: T. V. Fowler M
- OXYGEN EQUIPMENT & SERVICE CO.**
8335 S. Halsted St., Chicago 20, Ill. (Tel. HUdson 3-3800)
Pres.: Albert E. McKee
Purch. Agent: Donald J. Freeburg M
- OZONE METAL PRODUCTS CORP.**
101-32 101st St., Ozone Park 16, N. Y. (Tel. VIRginia 6-3300)
Purch. Agent: E. S. Kulich
Gen. Sales Mgr.: F. A. Winzer MS, CT
- P. B. R. MFG. CO.**
H & Luzerne Sts., Philadelphia 24, Pa. (Tel. GARfield 6-0932)
Purch. Agent: J. Manfredonia
Dir.-Purch.: I. B. Rachman
Sales Mgr.: Sidney Bobb
- PCA ELECTRONICS INC.**
16799 Schoenborn St., Sepulveda, Calif. (Tel. EMpire 2-0761)
- Purch. Agent: Allan Gotsky**
Sales Mgr.: Charles Rubin
- PIC DESIGN CORP., SUB.-BENRUS WATCH CO., INC.**
477 Atlantic Ave., E. Rockaway, L. I., N. Y. (Tel. LYnbrook 3-6470)
Purch. Agent: Mrs. T. Balzer
Sales: P. Wellenberger
- PSP ENGRG. CO., DIV.-IMC MAGNETICS CORP., N. Y.**
6058 Walker Ave., Maywood, Calif. (Tel. LUdlow 3-4785)
Dir.-Purch.: Robert Morris
Exec. V. P.: David Menkin
Dir.-Engrg.: Robert Phinizy
Sales Mgr.: Ben Eder MS, G, CT, TT, RD
- PACE ELECTRICAL INSTRUMENTS CO., INC.**
70-31 84th St., Glendale 27, L. I., N. Y. (Tel. ADvenport 6-3982)
Dir.-Purch.: A. S. Weingast
Industrial Sales Mgr.: G. N. Goldberger CT
- PACE ENGRG. CO.**
13035 Saticoy St., N. Hollywood, Calif. (Tel. PO 5-0453)
Purch. Agent: William Johnston
Dir.-Sales: Bernard Helfand CT, TT, RD
- PACIFIC AUTOMATION PRODUCTS, INC.**
1000 Air Way, Glendale 1, Calif. (Tel. CHopman 5-8661)
Purch. Agent: Roland Satrom
Sales Mgr.: Robert L. Veloz S, MS, M, CT, RD
- PACIFIC COAST ENGRG. CO.**
Oak & Clement Sts., Alameda, Calif. (Tel. LA 2-6100)
Purch. Agent: L. L. Compiano
Gen. Sales Mgr.: Alex McClure MS
- PACIFIC MAGNETIC CORP.**
Electronic Center, Romoland, Calif. (Tel. PERRIS Exchange, OLYmpia 7-2637)
Pres.: H. L. Mills
Dir.-Purch. & Sales: E. A. Eckstein
- PACIFIC MERCURY ELECTRONICS**
8345 Hayvenhurst Ave., Sepulveda, Calif. (Tel. EMpire 2-3131); Junge Blvd. & Maiden Lane, Joplin, Mo.
Dir.-Purch.: Oan Stein (Tel. EMpire 2-3131)
V. P. & Chief Engr.: Hugh Pruss (Tel. EMpire 2-3131) TT, RD
- PACIFIC OPTICAL CDRP., DIV.-CHICAGO AERIAL INDUSTRIES**
120 S. Glasgow Ave., Inglewood 1, Calif. (Tel. ORegon 8-1139)
Purch. Agent: Fred Schwind
Design Engr.: John Needham
Contract Admin.: James W. Shuck G, TT, RD
- PACIFIC RELAYS, INC.**
1915 Saticoy St., Van Nuys, Calif. (STate 2-2360)
Dir.-Purch.: Lou Junkin
Pres.: N. F. Leo M
- PACIFIC SCIENTIFIC CO.**
P. O. Box 22019, Los Angeles 22, Calif. (Tel. SPRuce 3-2020)
V. P.-Aeronautical Div.: Andrew W. Reichel
Purch. Mgr.: M. R. Hartigan
Buyers: L. B. Herr, Lee Marshek G, TT, RD, HSE
- *PACIFIC SEMICONDUCTORS, INC.**
10451 W. Jefferson Blvd., Culver City, Calif. (Tel. TEXas 0-4881)
Purch. Agent: Harry Rosen
Sales Mgr.: S. L. Spiegel
(*See advertisement in this issue)
- PACIFIC TUBE CO.**
5710 Smithway St., Los Angeles 22, Calif. (Tel. RAYmond 3-1331)
Purch. Agent: W. H. Kepp
Sales Mgr.: W. P. Armstrong S, MS
- PACIFIC UNIVERSAL PRODUCTS CORP.**
168 Vista Ave., Pasadena, Calif. (Tel. MUrray 1-7646)
Mgr.: Charles Chpnick M
- PACKARD BELL COMPUTER CORP.**
1905 Armacost Ave., Los Angeles 25, Calif. (Tel. GRonite 8-4247); 2341 Michigan Ave., Santa Monica, Calif.
Purch. Agent: Rod Lundstrom
Buyers: Frank Chesser & Gerald Luttrell
Sales Mgr.: T. J. Smith CT, TT, RD
- PACKARD ELECTRIC DIV.-GENERAL MOTORS CORP.**
Dana St., Warren, O. (Tel. 3250-1)
Procurement Mgr.: O. E. Tritten

Buyers: L. Raymond Clutter, K. F. Dymond, G. E. Gibbons, H. H. Grebe
Gen. Sales Mgr.: J. R. Lokin M

PACKARD-BELL ELECTRONICS CORP.
 12333 W. Olympic Blvd., Los Angeles 64, Calif.
 (Tel. BRodshaw 2-6141)
Mgr.-Materials: Wm. Winkler
Dir.-Sales & Admin.: Hugh L. Vick
Purch. Agent, Subcontracting: John Rickabough
Supvr., Material Control: Sam Julion MS, CT, RD

PACO ELECTRONICS CO., INC.
 70-31 84th St., Glendale 27, L. I., N. Y. (Tel. DAVenport 6-3982)
Dir.-Purch.: A. S. Weingost
Purch. Dept.: H. Meir & Jean Best
Sales Mgr.: S. S. Sporer CT, RO

PAGE COMMUNICATIONS ENGINEERS, INC.
 2001 Wisconsin Ave., N. W., Washington 5, D. C.
 (Tel. EExecutive 3-1523)
Asst. Dir.-Admin. for Proc.: G. H. Baldwin
Dir.-Customer Relations: W. R. Brehm

PAGE STEEL & WIRE DIV., AMERICAN CHAIN & CABLE CO., INC.
 First & River Sts., Monessen, Pa.

PAK-RAPID, INC.
 18 Elizabeth St., W. Conshohocken, Pa. (Tel. TAYlor 8-3511)
Purch. Agent: Stanley Stevens
Pres.: Benjamin Korpowicz

M. V. PALMER, INC.
 4108 N. W. Fruit Valley Rd., Vancouver, Wash.
 (Tel. OXFord 3-0590)
Chief Engr.: Martin Palmer M

PALMER INSTRUMENTS
 1017 Mission St., South Posadena, Calif. (Tel. MUrray 2-1194)
Owner: M. C. Palmer
Mgr.-Electronics Div.: E. W. Johnson

PALMER THERMOMETERS, INC.
 2501 Norwood Ave., Cincinnati, O. (Tel. ME 1-1500)
Purch. Agent: S. Rolfsen
Sales & Adv. Mgr.: Douglas H. Hitt

PALO ALTO ENGRG. CO.
 620 Page Mill Rd., Palo Alto, Calif. (Tel. OA 6-5360)
Purch. Agent: Roger Earley
Sales Engr.: Lloyd Burkhart

PAN AMERICAN WORLD AIRWAYS, INC., GUIDED MISSILES RANGE DIV.
 135 E. 42nd St., New York 17, N. Y. (Tel. OXFord 7-6300)
Pres.: Juan T. Trippe
V. P.: Richard S. Mitchell

PANDUIT CORP.
 14461 Waverly Ave., Midlothian, Ill. (Tel. Hilltop 5-3134) (Chicago)
Sales Mgr.: J. E. Coveney M

PANEL ENGRG. CORP.
 222 W. Huron St., Chicago 10, Ill. (Tel. SUperior 7-8461)
Pres.: Robert K. Cameron MS, M, G, RD

PANISH CONTROLS
 191-203 Bennett St., Bridgeport 5, Conn. (Tel. EOlson 3-7371)
Pres. & Gen. Mgr.: Erwin J. Panish PS

PANOB CORP.
 49 Beech St., Port Chester, N. Y. (Tel. WEstmore 9-3066)
Purch. Agent: Michael J. Vito
Buyers: Alfred A. Rich & Joseph Giordvrcio
Sales: Charles H. Perchne, Jr. M

PANORAMIC RADIO PRODUCTS, INC.
 520 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. OWens 9-4600)
V. P.-Purch.: Samuel Kleinmon
Buyer: Sheldon Horton
Dir.-Sales: B. Schlesse CT, RD

PAPER MFRS. CO.
 9800 Bustleton Ave., Philadelphia 15, Pa. (Tel. ORchard 3-4500)
Dir.-Purch.: J. Walker
Chicago Field Sales Reps.: Robert J. Moore & Samuel Ou Bois, 510 N. Oeorborn St., Chicago, Ill.
N. Y. State (Northern) Field Sales Rep.: Don Corroll, 308 Collins Ave., Fayetteville, N. Y.
N. Y. & N. J. Field Sales Rep.: Joseph I. Shields (Tel. N. Y. C.—Ogby 9-3720)
N. Y. C. & New England Field Sales Rep.: Charles R. Weber, Philadelphia office

PARAGON-REVOLUTE, DIV.-CHARLES BRUNING CO., INC.
 77 South Ave., Rochester 6, N. Y. (Tel. BAKER 5-2480)
Purch. Agent: W. T. Nurse
Sales Mgr.: B. W. Johnson S, MS, RD

PARABAM, INC.
 13000 Yukon Ave., Howthorne, Calif. (Tel. OSborne 9-3393)
V. P.-Purch.: J. T. Barnett
Asst. Purch. Agent: A. C. Ross
Pres.: T. A. Feeney MS, CT, TT, RD

PARAMOUNT DESIGNS CO.
 408 Joy St., Brooklyn 1, N. Y. (Tel. UL 5-6161)
Supvr.-Field Services: S. Dovidowitz
Sales Mgr.: William Varley (Tel. OVerbrook 1-1700) -RD

PARAMOUNT PAPER TUBE CORP.
 614 S. Lofoyette St., Ft. Wayne 2, Ind. (Tel. A-4197)
Gen. Mgr.: R. R. Weimer

PARAPLEGICS MFG. CO., INC.
 10068 Franklin Ave., Franklin Park, Ill. (Tel. GLodstone 5-1697)
Purch. Agent: Alvin F. Engel
Dir.-Sales: Harry G. Bendtsen MS, G

PARISH PRESSED STEEL, DIV.-OAMA CORP.
 Box 1422, Robeson & Weiser Sts., Reading, Pa.
 (Tel. FRanklin 3-4211)
Dir.-Purch.: E. R. Kohl
Purch. Agent: W. H. Fohnstocck
Buyers: C. R. Kline & K. Shugors
Sales Mgr.: S. L. Whitehall S, PS, MS

PARK NAMEPLATE CO., INC.
 34-10 Linden Pl., Flushing 54, N. Y. (Tel. FLushing 9-7000)
Purch. Agent: Edith Weisbroth
V. P.-Sales: Ovid Kend M

PARKER AIRCRAFT CO.
 5827 W. Century Blvd., Los Angeles 45, Calif.
 (Tel. SP 6-1221)
Purch. Agent, Hydraulic Div.: R. W. Burnham
Purch. Agent, Air & Fuel Div.: R. R. Fix
Purch. Agent, Missile Fittings Div.: T. Jones
V. P.-Sales: A. V. Zukos

PARKER FITTINGS & HOSE DIV., PARKER-HANNIFIN CORP.
 17325 Euclid Ave., Cleveland 12, Ohio (Tel. KE 1-3000)
Purch. Agent: F. A. Jenkins
Gen. Sales Mgr.: O. A. Cameron
Div. Sales Mgr.: W. O. Wynont MS

PARKER HYDRAULICS DIV., PARKER-HANNIFIN CORP.
 17325 Euclid Ave., Cleveland 12, Ohio (KE 1-3000)
Purch. Agent: E. J. Anderson
Div. Mgr.: C. J. Giblin
Prod. Mgr.: J. Shoffer MS

PARKER RUST PROOF CO.
 2177 E. Milwaukee, Detroit 11, Mich. (Tel. TRinity 5-3377)
Purch. Agent: John A. Gutho
Gen. Sales Mgr.: E. B. Thompson M

PARKER SEAL CO., DIV.-PARKER-HANNIFIN CORP.
 10567 Jefferson Blvd., Culver City, Calif. (Tel. VErmont 9-1161)
Purch. Agent: Paul Glosford
V. P.-Sales: T. J. McCuiston

PARKER-HANNIFIN CORP.
 17325 Euclid Ave., Cleveland 12, Ohio (Tel. KE 1-3000)
Purch. Agents: Wolter Keller & F. A. Jenkins
Sales Mgr.: F. E. Nothanson PS, MS

PARKER-HARTFORD CORP., THE
 650 Franklin Ave., Hartford 1, Conn. (Tel. CHopel 6-1651)
V. P.-Purch.: Tom Ooly
Sales Mgr.: F. P. Clement PS, G

PARKWAY SPECIALTIES CORP.
 22519 Plymouth Rd., Oetroit 39, Mich. (Tel. KE 5-0796)
Dir.-Purch.: A. J. Wallace
Sales Mgr.: P. V. Wallace

RALPH M. PARSONS CO., THE ELECTRONICS DIV.
 151 S. De Locey Ave., Posadena, Calif. (Tel. Los Angeles—MUrray 1-0461)
Mgr.-Proc.: Ooniel M. Ogden
Mgr.-Bus. Dev.: Charles E. Burns CT, TT, RD

PARSONS CORP., SPECIAL PRODUCTS DIV.
 P. O. Box 112, Trosser City, Mich. (Tel. WI 6-6710)

Purch. Agent: Oavid Kipley
Sales Mgr.: Walter J. Hooper (Tel. WI 6-8422) S, RD

PARSONS DIAMOND PRODUCTS, INC.
 22 Grassmore Ave., West Hartford 10, Conn. (Tel. ADoms 6-2303) M

PARTS ENGRG. CO., INC.
 760 N. Marshall Ave., El Cajon, Calif. (Tel. HICKory 4-9481)
Purch. Agent: Charles W. Sandlin
V. P.-Sales: Clyde W. Hull S, PS, CT

PASS & SEYMOUR, INC., DEFENSE DIV.
 50 Boyd Ave., Syracuse 9, N. Y. (Tel. HOward 8-6211)
Dir.-Defense Div.: C. H. M. Roberts
Purch. Agent-Defense Div.: R. E. Mortin MS, RD

PASTUSHIN INDUSTRIES, INC.
 11221 Hindry Ave., Los Angeles 45, Calif. (Tel. ORegon 8-4226)
Supvr.-Buyers: June R. Young S, MS

PATTERSON MOOS RESEARCH, DIV.-LEESONA CORP.
 90-28 Van Wyck Expwy., Jamaica 18, N. Y. (Tel. AXtel 7-4400)
Purch. Agent: Howard L. Abeel
V. P. & Gen. Mgr.: A. M. Moos MS, RD

PATWIN, DIV.-PATENT BUTTON CO.
 41 Brown St., Waterbury 29, Conn. (Tel. PLazo 6-3636)
Purch. Agent: W. A. Carpenter
Sales Mgr.: F. O. Stratton S

F. H. PAUL & STEIN BROTHERS, INC.
 235 Sth Ave., New York 16, N. Y. (Tel. MU 4-6370) PS

PAUL & BEEKMAN, INC.
 1801 Courtland St., Philadelphia 40, Pa. (Tel. DAVenport 9-9050)
Purch. Agent: Joseph H. Proctor
Works Mgr.: Oavid R. Bornhart
V. P.-Sales: J. E. Schmidt S

HOWARD E. PAYNE
 56 Beaverbrook Dr., Doyton 32, Ohio (Tel. CHopel 4-5600)
Consultant & Representative
 S, PS, MS, M, G, CT, TT, RD, HSE

PEACOCK ENGRG. & MFG. CO.
 10620 Firestone Blvd., Norwalk, Calif. (Tel. SPruce 3-3980)
Prod. Mgr.: Thomas E. Sodler
Purch. Agent: Stephen Gelet
Gen. Mgr. & Sales Mgr.: Earl L. Singleton S, PS, MS

PEARSON ELECTRONICS, INC.
 707 Urban Lane, Palo Alto, Calif. (Tel. DAVenport 6-7285)
Pres.: Or. Paul A. Pearson RD

PEASE & CURREN, INC.
 780 Allens Ave., Providence 5, R. I.

PEE CEE TAPE & LABEL CO. INC.
 521 N. Lo Brea Ave., Los Angeles 36, Calif. (Tel. WEbster 8-2134)
Dir.-Purch.: C. W. Richardson
Gen. Mgr.: Oow Gevitz
Dir.-Sales: Robert Buckley

PEER, INC.
 1220 Milton St., Benton Harbor, Mich. (Tel. WALnut 5-8828)
Mgr.: Alton B. Porrott

PEERLESS ELECTRIC DIV.-H. K. PORTER CO., INC.
 1401 W. Market St., Warren, Ohio (Tel. EXpress 3-1551)
Purch. Agent: R. C. Isler
Sales Mgr.: W. M. Gelvin S, MS, M

PEERLESS ELECTRONICS, INC.
 5338 Alhombro Ave., Los Angeles 32, Calif. (Tel. CApital 1-5196)

	CODING
	Structures S
	Propulsion System PS
	Missile Support MS
	Materials M
	Guidance G
	Checkout & Testing CT
	Tracking & Telemetering TT
	Research & Development RD
	Human Space Engineering HSE

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- Sales:** Robert Monroe
Purch. Agent: E. N. Haough S, PS, MS, CT
- PEERLESS PHOTO PRODUCTS INC.**
Teslo Rd., Shoreham, N. Y. (Tel. 4-2817)
Purch. Agent: Pat Hajek
Sales: Arthur Taber
- PEERLESS PUMP DIV., FOOD MACHINERY & CHEMICAL CORP.**
301 West Ave. 26, Los Angeles 31, Calif. (Tel. CCapital 1-3151)
Purch. Agent: W. I. Nye
Sales Mgr.: E. W. Lundy PS, MS, CT
- PEGASUS LABS., INC.**
3690 W. Eleven Mile Rd., Berkley, Mich. (Tel. Lincoln 6-3636)
Dir.-Purch.: Charles E. Ikerman
Dir.-Sales: Theodore C. Smith PS, MS, G, CT, RD
- PEMCO INC.**
5663 Brecksville Rd., Cleveland 31, Ohio (Tel. LA 4-2991)
Purch. Agent: H. H. Heinbough
Suprv.-Inst. Dept.: C. G. Mittermiller
Suprv.-Fabrication: C. Bar PS, CT
- PENETONE CO., THE**
74 Hudson Ave., Tenafly, N. J. (Tel. LDwell 7-3000)
Purch. Agent: C. Goldberg
Dir.-Sales: H. E. Roberts
Gen. Sales Mgr.: Philip F. Rose M
- PENFIELD MFG. CO., INC.**
19 High School Ave., Meriden, Conn. (Tel. BE 5-1694)
Gen. Mgr.: Edward H. Clahessy MS, M
- PENN FIBRE & SPECIALTY CO., INC.**
2024 El Westmoreland St., Philadelphia 34, Pa. (Tel. REgent 9-5642)
V. P.-Sales: William K. Davis
Purch. Agent: William H. Frey
Asst. Purch. Agent: E. C. Timms M
- PENN KEYSTONE CORP.**
100 Hawkins St., Derby, Conn. (Tel. REgent 4-3301)
Purch. Agent: Robert A. Nagel
Dir.-Engrg.: Edward M. Parker CT, RD
- PENN METAL CO., INC.**
40 Central St., Boston 9, Mass. (Tel. CCapital 7-1932)
Dir.-Purch.: Gordon T. Wolfe, Box 1460, Parkersburg, W. Va. (Tel. AXminster 5-4521)
Dir.-Sales: M. K. Brown M
- PENN-EAST ENGRG. CORP.**
Industrial Ave., Kutztown, Pa. (Tel. Overbrook 3-7308)
Material Control: H. W. Putnam
Pres.: G. L. Towney
- PENN-MICHIGAN MFG. CORP.**
220 S. Kirk St., West Lafayette, Ohio (Tel. LIncoln 5-6311)
Purch. Agent: L. F. Howbert
Asst. Purch. Agent: William Liljo
Sales Mgr.: J. S. Hall
- PENNSALT CHEMICALS CORP.**
3 Penn Center, Philadelphia 2, Pa. (Tel. LOcust 4-4700)
Mgr., Research Products Dev. Dept.: Dr. John F. Goll, Box 4388, Philadelphia 18, Pa. (Tel. CH 7-6900) PS, M, RD
- PENNSYLVANIA TOOL & MFG. CO., THE**
130 S. Hartman St., York, Pa. (Tel. 8-1855)
Pres. & Gen. Mgr.-Purch. & Sales: J. M. Lehmoyer, Jr.
V. P. & Prod. Mgr.: Philip E. Hirschfield
Supt.: Robert L. Witto, Jr. G, CT, RD
- PEQUOT WIRE CLOTH CO.**
35 Hoyt St., Norwalk, Conn. (Tel. TE 8-8438)
Plant Mgr.: R. K. Abercrombie
Asst. Div. Mgr.: C. P. Finney
Div. Sales Mgr.: W. H. Heidenrider M
- RODNEY PERDEW, INC.**
11616 Hart St., North Hollywood, Calif. (Tel. TR 7-5524)
Purch. Dept.: Edward A. Rossett & Helen M. Cotoni
Sales Mgr.: Donald L. Hengst M
- PERFECTION DIV.-HUPP CORP.**
1135 Ivanhoe Rd., Cleveland 10, O. (Tel. ULster 1-6200)
Purch. Agent: J. S. Zorn
V. P., Mobile Products: F. W. Hattenrath
- Mgr., Specialty Sales, Mobile Products:** W. E. Hamilton
Mgr., Heater Sales, Mobile Products: H. C. Gerbath
Buyer: D. Fetzer & H. H. Holdeman MS
- PERFECTO CAST**
5660 Keomey Villa Rd., San Diego 11, Calif. (Tel. BRowing 7-6711)
Plant Mgr.: Ralph F. Carlson
Pres.: George Wilson M, RD
- PERFORMANCE MEASUREMENTS CO.**
15120 Third Ave., Detroit 3, Mich.
Purch. Agent: Theo Schmolzriedt
Sales Mgr.: Louis H. Laramie CT
- PERKIN ENGRG. CORP.**
345 Kansas St., El Segundo, Calif. (Tel. DR 8-7215)
Purch. Agent: Pat Cerello
Buyer: Harry Sterling
Sales Mgr.: George W. Mousel MS, CT
- PERKIN-ELMER CORP.**
Main Ave., Norwalk, Conn. (Tel. VICTOR 7-2422)
Dir.-Purch.: Patrick O'Gorman
Asst. Purch. Agent: George Hodge
Electronic Buyer: Arthur Cummings
Buyers: William Daudo, David Fournier, Lew Jason
Mktg.-Electro-Optical Div.: C. B. Hazzard
Mktg.-Instrument Div.: John H. Rhodes
Sales-Varnish Div.: Lionel Robbins MS, CT, TT, RD
- PERKINS MACHINE & GEAR CO.**
Circuit Ave., West Springfield, Mass. (Tel. REpublic 7-4751)
Purch. Agent: William Cose PS, MS, M, G
- PERMACEL**
U. S. Hwy. #1, New Brunswick, N. J. (Tel. CHortier 7-7900)
Purch. Agent: J. S. Boby
Buyers: J. E. Grover & G. Radcliffe
V. P.-Sales: G. A. Fitzgerald M
- PERMANENT FILTER CORP.**
1800 W. Washington Blvd., Los Angeles 7, Calif. (Tel. REpublic 1-7381)
Materials Control Mgr.: James P. Whitesel
Gen. Sales Mgr.: W. E. Johns PS, MS, G, CT, RD
- PERMANENT MAGNET CO., INC., THE**
4437 Brogdon St., Indianapolis 26, Ind. (Tel. LIBerty 7-1336)
Purch. Agent: Ralph M. Burns
Buyer: James Phillips G, TT, RD
- PERMATEX CO., INC.**
300 Broadway, Huntington Sta., N. Y. (Tel. HAmilton 1-3800)
Purch. Agent: K. Carpenter, Jr.
Gen. Sales Mgr.: W. A. Sneed
- PERMOFLUX PRODUCTS CO.**
4101 San Fernando Rd., Glendale 4, Calif. (Tel. CHopman 5-5135)
Purch. Agent: S. H. Ise
Dir.-Sales: L. M. Heineman PS, M
- PERRY PLASTICS, INC.**
3409 W. 14th St., Erie, Pa. (Tel. TE 8-1971)
Purch. Agent: Frank Chrostowski
Admin. Asst. to Exec. V. P.: C. K. Reichert, Jr.
Defense Sales & Contract Officer: Lincoln S. Love PS, MS, G, CT
- PESCHEL ELECTRONICS, INC.**
R.F.D. 1, Pottersan, N. Y. (Tel. TRinity 8-3251)
Pres.: Stephen S. Peschel CT
- PESCO PRODUCTS DIV.-BORG-WARNER CORP.**
24700 N. Miles Rd., Bedford, Ohio (Tel. MOntrorse 2-2100)
Mgr.-Purch.: H. L. Sanders
Purch. Agent, Non-Prod.: G. T. Weidinger
Purch. Agent, Prod.: W. C. Erwin
V. P.-Sales: M. W. Nesbitt PS, MS, RD
- PESCO PRODUCTS DIV., BORG-WARNER CORP., CALIF.**
3310 Vanowen St., Burbank, Calif. (Tel. THomwell 5-7411)
Purch. Agent: J. J. Racco
Sales Mgr.: W. L. Cook MS, G, CT, TT
- PETER PARTITION CORP.**
124 Boerum Pl., Brooklyn 1, N. Y. (Tel. TRiangle 5-4033)
Purch. Dept.: Andrew A. Viola
Pres.: Ludwig P. Raubenheimer
- PETCH MFG. CO.**
U. S. 23 South, Alpena, Mich. (Tel. EL 4-2131)
- Purch. Agent:** Clarence R. Mehorg
V. P.: K. Douth
Supt.: C. Helzer
Sales Mgr.: W. W. Hutcherson (Tel. TW 1-4240) M
- PETTIBONE MULLIKEN CORP.**
4700 W. Division St., Chicago, Ill. (Tel. SPoulding 2-9300)
Purch. Agent: T. M. Covender
Asst. Purch. Agent: H. T. Somuels
Steel Buyer: C. R. Sloucum
Fabricated Parts Buyers: L. Knapp, A. J. Solman, W. C. Hinz
Sales: J. M. Hume M
- PFAUDLER DIV., PFAUDLER PERMUTIT INC.**
1000 West Ave., Rochester 3, N. Y. (Tel. BEverly 5-1000)
Dir.-Purch.: Joseph F. Kuder
Div. Sales Mgr.: Bruce T. Clarke M
- PHALO PLASTICS CORP.**
530 Boston Tpke., Shrewsbury, Mass. (Tel. VIKing 4-4021)
Purch. Agent: H. A. Werme
V. P.-Sales: A. N. Averill
- PHAOSTRON INSTRUMENT & ELECTRONIC CO.**
151 Posadeno Ave., S. Posadeno, Calif. (Tel. CLinton 5-1471)
Purch. Agent: Al Lowenstein
Expediting-Purch.: Joseph Arbaugh
V. P.-Sales: H. J. Veitch M
- PHELPS DODGE COPPER PRODUCTS CORP.**
300 Park Ave., New York 22, N. Y. (Tel. PLozo 1-3200)
Purch. Agent: F. A. Scheffler
Electronic Prod. Dept., Sales: F. W. Lemly G, TT
- PHILADELPHIA INSULATED WIRE CO.**
333 New Albany Rd., Marrestown, N. J. (Tel. BELmont 5-6700)
Purch. Agent: E. B. Sheridan, Sr.
Sales Mgr.: R. W. Campbell M
- PHILADELPHIA QUARTZ CO.**
1146 N. Public Ledger Bldg., Philadelphia 6, Pa. (Tel. MArket 7-7200)
Purch. Mgr.: Frank M. Fronz
Sales Mgr.: John C. Russell M
- PHILADELPHIA STEEL & WIRE CORP.**
Penn St. & Belfield Ave., Philadelphia 44, Pa. (Tel. DAVenport 4-5600)
Purch. Agent: J. T. Messert
V. P.-Sales: E. C. Mincher
- PHILAMON LABS. INC.**
90 Hopper St., Westbury, N. Y. (Tel. EDgewood 3-1700)
Purch. Agent: George V. Wrynn
Sales Mgr.: Robert A. Hunt CT, TT
- PHILCO CORP., GOVERNMENT & INDUSTRIAL GROUP**
4700 Wissahickon Ave., Philadelphia 44, Pa. (Tel. VICTOR 3-4000)
Purch. Mgr.: John R. McAllister
V. P.-Mktg.: Joseph M. Hertzberg MS, G, CT, TT, RD, HSE
- PHILCO CORP., LANSDALE DIV.**
Church Rd., Lansdale, Pa. (Tel. ULyesses 5-4681)
Purch. Agent: A. G. McIlvoine
Buyers: W. R. Lewis, R. Houghs, E. C. Lutz, B. Conall, Peter Rivera, Robert Bteling
Asst. Buyer: Mary Bartholomew
Gen. Sales Mgr.: Cyrus H. Worshow MS, G, CT, TT
- RICHARD PHILIP CO.**
5007 Flyer Ave., St. Louis 39, Mo. (Tel. FLonders 2-2505)
Dir.-Proc.: Roy Maschner
Chief Purch. Agent: Robert N. Zimmer
Asst. Purch. Agent: Dorothy Guest
Sub-Contract Sales Mgr.: Richard P. Monahan S, PS, MS, CT, RD
- PHILIPS & DAVIES INC.**
1030 Steiner Ave., Kenton, O. (Tel. 2-1120)
Purch. Agent: G. R. Leoffert
V. P.-Sales: J. W. Stuckey S, MS, M
- PHILIPS ELECTRONIC INSTRUMENTS**
750 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. MO 4-4500)
Dir.-Purch.: Jack Hemphill
Dir.-Sales: C. J. Woods S, MS, CT, RD
- PHILLIPS-CARTER-OSBORN, INC.**
831 14th St., Denver 2, Colo. (Tel. AMherst 6-2481)
Pres.: Drley D. Phillips S

PHILLIPS CONTROL CORP.
59 W. Washington St., Joliet, Ill. (Tel. SARatoga 3-3431)
Purch. Agent: Charles E. Perkins
Purch. Dept.: Robert Moore
Sales Mgr.: W. R. Baughman G, CT, TT

PHILLIPS MFG. CO.
3475 W. Taubey Ave., Chicago 45, Ill. (Tel. Ambassador 2-6020)
Purch. Agent: Harry Pearl
V. P.-Sales: L. R. Anderson

PHILLIPS PROCESS CO. INC.
192 Mill St., Rochester 14, N. Y. (Tel. BA 5-8201)
Sales Mgr.: William D. Gerb

PHOENIX PRODUCTS CO.
4715 N. 27th St., Milwaukee, Wis. (Tel. UP 1-1680)
Purch. Agent: H. W. Hearing
Asst. Mgr., Metal Spinning Div.: Edwin Weiss RD

PHOTOBELL CO., INC.
43 Vesey St., New York 7, N. Y. (Tel. WDRth 2-6739)
Purch. Agent: M. Gagliardi
Gen. Mgr.: A. Edelman MS, CT

PHOTOCIRCUITS CORP.
31 Sea Cliff Ave., Glen Cove, N. Y. (Tel. DR 6-8000)
Purch. Agent: William B. Sherriff
V. P.-Sales: Alan P. Kingsbury

PHOTOCON RESEARCH PRODUCTS
421 N. Aladena Dr., Pasadena, Calif. (Tel. Sycamore 2-4131)
Purch. Agent: Jean Hicks (Tel. MURray 1-6752)
Dir.-Sales: P. C. Ganzell CT, RD

PHOTOGRAMMETRY, INC.
922 Burlington Dr., Silver Spring, Md. (Tel. JUniper 5-4600)
Purch. Agent: H. B. Miracle RD

PHOTOVOLT COPP.
95 Madison Ave., New York 16, N. Y. (Tel. MURray Hill 6-3350)
Purch. Agent: H. W. Lindemann
V. P.-Sales: B. A. Silard

PHOTRON INSTRUMENT CO.
6516 Detroit Ave., Cleveland 2, O. (Tel. ATLantic 1-7020)
Sales: N. H. Fayerweather CT, TT

PIASECKI AIRCRAFT CORP.
Island Rd., International Airport, Philadelphia 42, Pa. (Tel. SARatoga 7-9750)
Acting Purch. Agent: William M. Collins
Treas.: J. J. Hensel
Pres.-Sales: F. N. Piasecki
V. P.: D. N. Meyers S, MS, CT, RD

PICKERING & CO., INC.
Sunnyside Blvd., Plainville, L. I., N. Y. (Tel. DVerbraak 1-0200)
Dir.-Purch.: Ruth Reiser

PIEZO CRYSTAL CO.
265 E. Pamfret St., Carlisle, Pa. (Tel. CH 9-2151)
Dir.-Purch.: Herman Shall
Sales Mgr.: Wallace Wilson M

PILOT CHEMICALS, INC.
36 Pleasant St., Watertown 72, Mass. (Tel. WAtertown 4-7775)
Business Mgr.: M. A. Sigal M, RD

PIMEX, INC.
18 E. 60th St., New York 28, N. Y. (Tel. PLaza 3-3041)
Sales Mgr.: G. Gudefin

PINES ENGRG. CO. INC.
601 Walnut St., Aurora, Ill. (Tel. TW 6-7701)
Purch. Agent: W. J. Corlson
Asst. Purch. Agent: J. J. McKeoige
Sales Mgr.: J. E. Hawking

PIONEER ALUMINUM INC.
5251 W. Imperial Hwy., Las Angeles 45, Calif. (Tel. ORegon 8-7621)
Purch. Agent: K. R. Cannon, 10035 Burtis St., South Gate, Calif. (Tel. LOrain 4-2646)
V. P.-Sales: William F. Marrow

PIONEER INDUSTRIES DIV., ALMAR-YORK CO. INC.
3455 W. Vickery, Fort Worth 7, Tex. (Tel. ED 2-7387)
Pres.: A. W. Stubbeman, Sr.
V. P.-Sales: Frank B. Self S, M, CT, RD

PIONEER PARACHUTE CO., INC.
168 Forrest St., Manchester, Conn. (Tel. Mitchell 9-5211)
Purch. Agent: Cliff Schumacher

**Pres.: Michael Kogon
Exec. V. P.: William Bell**

PIQUA ENGRG. INC.
Piqua, Ohio (Tel. PR 3-2464)
Purch. Agent: C. Rice
Pres.: J. Scarbrough MS, CT

PITMAN MFG. CO.
Grandview, Mo. (Tel. SDuth 1-1851)
Mgr.-Purch.: R. K. Daty
Buyer: G. Oliver
Chief Engr.: D. E. Broderson
Sales Mgr.: B. M. McMillin MS

PITOMETER LOG CORP.
237 Lafayette St., New York 12, N. Y. (Tel. CAnal 6-7250)
Purch. Agent: John J. Newman
Asst. Purch. Agent: Charles K. Koesting
Dir.-Engrg. Sales: Bernard Kahn MS, G, CT, TT, RD

PITTSBURGH CORNING CORP.
1 Gateway Center, Pittsburgh 22, Pa. (Tel. CDurt 1-2900)
V. P.-Sales: R. E. Buckley
Purch. Agent: B. B. Caffo, P. O. Box 39, Port Allegany, Pa. (Tel. Port Allegany 2-2552)
Purch. Agent: G. E. Gibbs, P. D. Box 72, Sedolia, Ma. (Tel. TAYlor 6-4660) S, M, RD

PITTSBURGH-DES MOINES STEEL CO.
3476 Neville Island, Pittsburgh 25, Pa. (Tel. FE 1-3000)
Purch. Agent: G. L. Bader
V. P. & Sales Mgr.: T. W. Fauntleroy

PITTSBURGH LECTRODRYER DIV.-Mc GRAW-EDISON CO.
P. O. Box 1766, Pittsburgh 30, Pa. (Tel. GRant 1-8782)
Purch. Agent: S. B. Wilsan
Chief Engr.: H. E. Zankey
Gen. Sales Mgr.: J. D. Boydston, Jr.

PLANNING RESEARCH CORP.
1333 Westwood Blvd., Las Angeles 24, Calif. (Tel. GRanite 9-7725)
Pres.: Robert W. Krueger
V. P.: Stuart A. Krieger

PLAS-KEM CORP., DIV.-DYNA-THERM CHEMICAL CORP.
100 W. Alameda Ave., Burbank, Calif. (Tel. VICTORIA 9-1121)
Pres.: H. H. Clorke, Jr. (Tel. UPton 0-4751)
Gen. Sales Mgr.: R. F. Dawson
Sales Mgr.-Adhesives: Ernie Stern
Buyer: Mrs. Clea Mullins S, MS, M, RD

PLASMADYNE CORP.
3839 S. Main St., Santa Ana, Calif. (Tel. KLmberly 5-7171)
Dir.-Purch.: Pete DePaolo
Purch. Dept.: Marge Gavlin
Adm. Engr.: M. H. Sturmer PS, MS, G, RD

PLASTIC AGE SALES, INC.
14300 Dovenport Rd., Saugus (Mint Canyon), Calif. (Tel. MADison 6-8895)
Purch. Agent: Adolph S. Kramer S, MS, RD

PLASTIC CAPACITORS, INC.
2620 N. Clybaun Ave., Chicago 14, Ill. (Tel. Diversey 8-3735)
Purch. Agent: Robert Tamkin
Sales Mgr.: Stephen Meskan

PLASTIC FILM CO., INC.
Plainfield, Conn. (Tel. Moosup, Conn., LDgan 4-2741)
V. P.-Mgr., Indsl. Sales: T. A. Lancaster

PLASTICS DISTRIBUTOR OF NEW ENGLAND
P. D. Box 574, Manchester, N. H.
Dir.-Sales: John F. McGranahan
V. P.-Purch.: John C. Stanhape, 71 Canton St., Manchester, N. H. (Tel. NA 5-8397) S, M, RD

PLASTOID CORP.
42-61 24th St., Long Island City 1, N. Y. (Tel. STillwell 6-6200)
Purch. Agent: Ernest Brawn
Sales-Serv. Mgr.: Dan J. Nichols, Hamburg, N. J. (Tel. Van Dyck 7-7141)

PNEU-HYDRO VALVE CORP.
52 Harse Hill Rd., Cedar Knolls 2, N. J. (Tel. JEHerson 8-7200)
Purch. Agent: Robert Demmert
Buyer: John Neol
Sales Mgr.: George T. Stern PS, MS, G, CT, RD

PNEUMAFIL CORP.
2516 Wilkinson Blvd., Charlotte, N. C. (Tel. EXpress 9-7441)

**Dir.-Purch.: Jack B. Greegan
Sales Mgr., Mechatronics: Jay B. Deyton**

POLARAD ELECTRONICS CORP.
43-20 34th St., Long Island City 1, N. Y. (Tel. EXeter 2-4500)
Dir.-Purch.: Ben Katz
Buyers: J. Pearl, B. Flax, I. Wasserman & D. Rosenbloom
Sales Mgr.: A. A. Goldberg CT

POLAROID CORP.
119 Windsor St., Cambridge 39, Mass. (Tel. University 4-6000)
Dir.-Purch.: P. E. Sullivan
Asst. Dir.-Purch.: H. R. Pickering
Purch. Engr.: G. W. Bramhall
Sales Mgr., Polarizer Div.: J. H. Mulhall

JOSEPH POLLAK CORP.
85 Freepart St., Boston 25, Mass. (Tel. AVenue 2-9550)
V. P.-Purch.: Henry Brandt
Purch. Agent: James Burns
Sales Mgr.: H. A. MacDonald

POLYMER CORP., THE
2100 Fairmont Ave., Reading, Pa. (Tel. FRanklin 6-7241)
Purch. Agent: Alvin S. Malttratt
Sales Mgr.: Robert E. Barthold M

POLYMICA & INSULATION CO. INC.
683 Main St., Willimantic, Conn. (Tel. HA 3-0584)
Mgr.: M. Kranenberg
Asst. Mgr.: J. Kranenberg

POLYPHASE INSTRUMENT CO.
E. 4th St., Bridgeport, Montgomery Co., Pa. (Tel. BRoadway 9-4660)
Purch. Agent: D. C. Morris
Sales Mgr.: D. J. Seifert

POLY-SCIENTIFIC CORP.
Rte. 460 N., Blacksburg, Va. (Tel. PRescatt 2-8212)
Purch. Agent: Herbert Albert
V. P.-Sales: A. S. Hackley

POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC.
202 Tillary St., Braaklyn 1, N. Y. (Tel. ULster 2-6800)
Dir.-Purch.: Walter A. Cuskie
Electronic Buyers: Frank H. Roberts & James J. Alfieri
Subcontract Buyers: Alphonse Pristupa & A. C. Heldman
Misc. Buyer: John Lo Scola
Expeditors: Walter Ezach & Frank Sidati
Sales Mgr.: Harry C. Nelson CT, RD

POMONA ELECTRONICS CO., INC.
1126 W. 5th Ave., Pomona, Calif. (Tel. NATional 9-9549)
Purch. & Sales Mgr.: Carl W. Musarro CT

PORTLAND COPPER & TANK WORKS INC.
80 2nd St., S. Portland, Me. (Tel. SPruce 9-3341)
Purch. Agent: Willard James
Buyer, Special Prod. Dept.: Lea Lyons
Buyer, New Prod. Dept.: Jae Feeney
V. P.-Sales: Frank Hugo S, PS, MS, RD

L. POTTER, INC.
4040 Hempstead Tpke., Bethpage, N. Y. (Tel. PE 5-7000)
Asst. Treas.: D. P. Dieffenbach
Secy.: John Patter

POTTER AERONAUTICAL CORP.
U. S. Rt. 22, Union, N. J. (Tel. MURdock 6-3010)
Purch. Agent: Horry Corlson
Gen. Sales Mgr.: Irving Hirsch MS, CT, RD

POTTER & BRUMFIELD, DIV.-AMERICAN MACHINE & FOUNDRY CO.
Princeton, Ind. (Tel. FUlton 5-5251)
Purch. Agent: Charles Schrader
Asst. Purch. Agent: Everett Cox
Gen. Mgr.: Nelson Havill

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Research & Development	RD
Human Space Engineering	HSE

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- POTTER INSTRUMENT CO., INC.**
Sunnyside Blvd., Plainview, L. I., N. Y. (Tel. DVerbrook 1-3200)
Purch. Agent: Walter Gerber
Asst. Sales Mgr.: R. A. Schromm
CT, TT
- HAROLO H. POWELL CO.**
2102 Market St., Philadelphia 3, Pa. (Tel. LDcust 4-1440)
Purch. Agent: Joseph Harris
Dir.-Sales: Charles Dougherty
- WM. POWELL CO., THE**
2525 Spring Grove Ave., Cincinnati 8, Ohio (Tel. DUnbar 1-4600)
Purch. Agent: John Ellis
Pres.: David M. Forker
V. P. & Chief Engr.: William E. Heilig
PS, MS
- POWER SUPPLIES INC.**
Rt. 143, P. O. Box 269, Highland, Ill. (Tel. 2139)
Purch. Agent: Dale Rutz
Sales Mgr.: R. F. Cota
MS, G, CT
- J. J. POWERS CO.**
818 N. 22nd St., P. D. Box 254, Melrose Park, Ill. (Tel. Fillmore 5-3500)
Pres.: J. J. Powers
TT
- POWERS REGULATOR CO., THE**
3400 Dakton St., Skokie 66, Ill. (Tel. CDmelio 7-6300)
Purch. Agent: R. Bennett
Buyer: P. Kempe
Sr. Buyer: V. Wiland
- PRATT & WHITNEY AIRCRAFT DIV., UNITED AIRCRAFT CORP.**
400 Main St., East Hartford 8, Conn. (Tel. JJackson 8-4811)
Purch. Mgr.: E. E. Chompton
Sales Mgr.: Charles T. McKinnie
PS, RD
- PRECISE DEVELOPMENT CORP.**
2 Neil Ct., Oceanside, N. Y. (Tel. Rockville 6-0171)
Dir.-Sales: Melville Byron
V. P.-Purch.: Sal Schwartz
MS, CT, RD
- PRECISION APPARATUS CO., INC.**
7031 84th St., Glendale 27, L. I., N. Y. (Tel. Davenport 6-3982)
Dir.-Purch.: A. S. Weingast
Sales Mgr.: S. S. Sparer
CT, RD
- PRECISION CASTINGS, INC.**
1550 Superior Ave., Costa Mesa, Calif. (Tel. Liberty 8-2278)
V. P.-Prod.: Charles R. Salmon
Otr.-Sales: John J. Hall
S, M, RD
- PRECISION CASTPARTS CORP.**
4600 S. E. Harney Dr., Portland 6, Ore. (Tel. PRespect 5-4391)
Purch. Agent: John M. Vranizan
V. P. & Sales Mgr.: K. H. Pierce
RD
- PRECISION CIRCUITS, INC.**
705 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. MOunt Vernon 4-3737)
V. P.-Prod.: Herbert L. Schwartz
Otr.-Sales: Charles Sabel
G, CT, TT, RO
- PRECISION ELECTROPLATING CO.**
519 S. Oakley Blvd., Chicago 12, Ill. (Tel. SEeley 3-5855)
Otr.-Purch.: James Zacharias
Dir.-Sales: Richard Zacharias
- PRECISION EQUIPMENT CO., INC.**
1740 Crenshaw Blvd., Torrance, Calif. (Tel. SPruce 5-2501)
Pres.: Richard Gilman
Purch. Agent: Jack Berry
PS, MS, CT
- PRECISION GEARS & PRODUCTS, INC.**
132 Iowa Ave., Paterson, N. J. (Tel. MULberry 4-1460)
Exec. V. P.: Robert C. Williams
V. P.-Engrg.: Martin Stevens
Works Mgr.: David Wills
MS, RO
- PRECISION, INC.**
4748 France Ave. N., Minneapolis 22, Minn. (Tel. JUniper 8-9441)
Pres.: A. H. Benner
V. P.-Sales: D. G. Benner
G
- PRECISION LAPPING CO. INC.**
34 Clinton Ave., Valley Stream, N. Y. (LOCust 1-2770)
Purch. Agent: R. Dietz
Chief Engr.: M. Lipkins
Dir.-Sales: J. Oeone
G, RO
- PRECISION LINE INC.**
63 Main St., Maynard, Mass. (Tel. TWIn Oaks 7-2451)
Gen. Mgr.: L. M. Burgess
Sales Mgr.: Paul Hokanson
G, TT, RD
- PRECISION METAL PRODUCTS CO. INC.**
41 Elm St., Stoneham 80, Mass. (Tel. SToneham 6-3650)
Pres.: John H. Jarvis
Sales Engr.: Robert A. Degnan
M
- PRECISION METALSMITHS, INC.**
1081 E. 200 St., Cleveland 17, Ohio (Tel. IVanhoe 1-8900)
Purch. Agent: E. K. Hutchinson
Sales Mgr.: W. W. Lamb
S, PS, MS, G, TT, RO
- PRECISION RADIATION INSTRUMENTS, INC.**
5810 S. Normandie St., Los Angeles 44, Calif. (Tel. PL 3-3501)
Pres.: Carl Dashoy
Natl. Sales Mgr.: Robert Blythe
Customer Relations: Patricia Clark
M
- PRECISION RUBBER PRODUCTS CORP.**
3110 Dakridge Dr., Dayton 17, Ohio (Tel. AMherst 3-2631)
Purch. Agent: Margaret Yoder
Sales Mgr.: E. N. Cunningham
M
- PRECISION SCIENTIFIC CO.**
3737 W. Cortland St., Chicago 47, Ill. (Tel. CApiitol 7-2660)
Mgr.-Purch.: Edmund A. Bloss, Jr.
Asst. Mgr.-Purch.: Nester A. Gunderlach
Sr. Buyer: Joseph C. Cacioppa
V. P. & Sales Mgr.: John J. Kinsello
MS, RD
- PRECISION SHAPES, INC.**
15 Washington Ave., Suffern, N. Y. (Tel. SUFFern 5-0226)
Procurement Mgr.: Ronald Lockyer
Sales Mgr.: Norman M. Dickson
- PRECISION SPECIALTIES, INC.**
1342 E. 58th St., Kansas City 10, Mo. (Tel. EMersan 1-1619)
Pres.: John S. Baer (Tel. LUther 9-0815)
V. P.-Sales: Roy S. Baer
RD
- PRECISION THERMOMETER & INSTRUMENT CO.**
1434 Brandywine St., Philadelphia 30, Pa. (Tel. LOCust 3-6671)
Purch. Agent: I. H. Shubin
Sales Mgr.: Carl H. Waser
- PRECISION TUBE CO., INC.**
Church Rd. & Wissohickan Ave., North Wales, Pa. (Tel. OXbow 9-4806)
Purch. Agent: Ditto Chvoka
V. P.-Sales: Matthew F. Balch, Jr.
M
- PRE-FLITE INDUSTRIES CORP., SUB.-AVCO MFG. CORP.**
18118 S. Broadway, Gardena, Calif. (Tel. FAculty 1-5252)
Purch. Agent: Robert Smith
Pres.: P. B. Proctor
V. P.-Mktg.: A. J. Dillan, Jr.
MS, CT
- H. P. PREIS ENGRAVING MACHINE CO.**
651 U. S. Highway 22, Hillside 5, N. J. (Tel. MU 6-7736)
Purch.: M. H. Preis
Prod. Mgr.: J. A. Hoffmann
M
- PREMAX PRODUCTS DIV., CHISHOLM-ROYER CO., INC.**
College & Highland Avenues, Niagara Falls, N. Y. (Tel. BUtler 5-9186)
Otr.-Purch.: Lawrence Fischer
Sales Mgr.: B. B. Mitchell
CT, TT
- PREMIER METAL PRODUCTS CO.**
337 Monido St., New York 59, N. Y. (Tel. WYondotte 1-6600)
V. P.-Purch.: Mayer Faynberg
Sales Mgr.: E. Kosso
Asst. Sales Mgr.: H. L. Miller
M
- PREMIER RESEARCH LABORATORIES, INC.**
78-85 7th Ave., New York 11, N. Y. (Tel. ALgonquin 5-0700)
Purch. Agent: W. J. Gutman
Sales Mgr.: M. H. Proelsdorfer
- PRESIN CO.**
2014 Broadway, Santa Monica, Calif. (Tel. EXbrook 3-9738)
Pres.: M. D. Teichner
Dir.-Sales: W. P. Simpson
CT
- PRESSED STEEL TANK CO.**
1445 S. 66th St., Milwaukee 14, Wisc. (Tel. GREENfield 6-0500)
Purch. Agent: R. E. Holmes
Mgr.-Industrial Prods. Div.: T. V. Montgomery
V. P.-Sales: N. A. Evans
S, PS, MS, RD
- PRESSMAN ASSOCIATES INC.**
7803 Farnsworth St., Philadelphia 15, Pa. (Tel. DE 3-8064)
Pres.: A. I. Pressman
CT, RD
- PRESSTITE DIV., AMERICAN-MARIETTA**
3738 Chouteau Ave., St. Louis 10, Mo. (Tel. MOhawk 4-6000)
Purch. Agent: G. C. Weston
V. P.-Sales: J. R. Moore
M
- PRESTOLE CORP.**
1345 Miami St., Toledo 5, Ohio (Tel. DXford 1-2465)
Purch. Agent: Harry Tice
V. P.-Sales: E. G. Brodner
M
- PREWITT AIRCRAFT CO.**
Holly & Madison Aves., Clifton Heights, Pa. (Tel. MADison 6-6500)
Prod. Mgr.: Robert J. Neal
Chief Engr.: Harold E. Bishop
S, MS, RD
- D. W. PRICE CORP.**
11161 W. Pica Blvd., Los Angeles 64, Calif. (Tel. GRANite 7-6791)
Dir.-Sales: Russ C. Bremmer
S, MS, G
- PRICE ELECTRIC CORP.**
E. Church & 2nd Sts., Frederick, Md. (Tel. MONument 3-5141)
Purch. Agent: Robert H. Hoines
V. P. & Sales Mgr.: R. J. Harrott
MS, G
- PRINTLOID INC.**
10-10 44th Ave., Long Island City 1, N. Y. (Tel. Empire 1-1770)
Pres.: G. Martin
Sales Dept.: J. M. Wodisko
M
- J. F. PRITCHARD & CO. OF CALIFORNIA**
4625 Roanoke Pkwy., Kansas City 12, Mo.
Gen. Sales Mgr.: W. R. Roeyer
MS, M
- PROBESCOPE CO. INC.**
8 Sagamore Hill Dr., Port Washington, N. Y. (Tel. PO 7-8150)
Purch. Agent: J. Langmer
Sales Mgr.: Lawrence Zarrow
TT, RD
- PROCESS & INSTRUMENTS**
15 Stone Ave., Brooklyn 33, N. Y. (Tel. GLenmore 2-8380)
Dir.-Purch.: L. Peimer
RD
- PRODELIN INC.**
307 Bergen Ave., Kearny, N. J. (Tel. WYman 1-8600)
Purch. Agent: G. D. Higgins
Dir.-Sales: A. Heselman
MS, G, TT
- PRODUCT & INDUSTRIAL ENGRG. CORP.**
3806 S. Four Mile Run Dr., Arlington 6, Va. (Tel. JACKson 4-6565)
V. P., Secy. & Treas.: C. J. Ritchie, Jr.
MS, G
- PRODUCTION RESEARCH CORP., SUB.-RAOIO CONDENSER CO.**
Claremont Ave., Thornwood, N. Y. (Tel. ROgers 9-2766)
V. P.: George Q. Herrick
Mgr.-Services: J. Medalie
CT, TT, RD
- PRODUCTION SERVICES CORP., THE**
81 Market Sq., Newington 11, Conn. (Tel. MOhawk 6-3363)
Pres.: R. H. Whitney
- PRODUCT'S RESEARCH CO.**
3126 Las Feliz Blvd., Los Angeles 39, Calif. (Tel. NORMandy 5-5951)
Material Mgr.: R. Brooks Parker
Sales Mgr.: W. L. Smith
M, RD
- PROJECTS UNLIMITED INC.**
1926 E. Siebenthaler Ave., Dayton 14, Ohio (Tel. CR 8-4244)
Purch. Agent: R. W. McClure
Project Estimator: G. Jerry Cameron
Admin. Asst.: George Gianopulas
MS, CT
- PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Box 187, Edwardsville, Ill. (Tel. 3400)
Purch. Agent: J. H. Rulon
Buyer: S. L. Meister
Otr.-Sales: R. H. Bleikamp
PS, RD
- PROPULSION TEST FACILITIES, DIV.-MB ELECTRONICS**
20 Fitch St., New Haven 8, Conn. (Tel. FUlton 9-1551)

Purch. Agent: Carl Uerderame
Asst. Purch. Agents: Richard D'Gorman & Matthew Servaty
Dir.-Sales: Arthur Deichmiller PS, MS, RO

PROTECTIVE COATINGS, INC.
 Box 3985, Detroit 27, Mich. (Tel. VE 6-4664)
 H. Tom Colford M

PROTECTOSEAL CO., THE
 1920 S. Western Ave., Chicago 8, Ill. (Tel. CH 3-1400)
Purch. Agent: T. Parker
Sales Dir.: John Mock M

PROTEX-A-COTE, INC.
 251 Grove Ave., Verona, N. J. (Tel. CEnter 9-2000)
Pres.: Ira Zeitlin
V. P.-Sales: David R. Minkoff M

PROTO TOOL CO.
 2209 Santa Fe Ave., Los Angeles 58, Calif. (Tel. LUDlow 9-3311)
Purch. Agent: J. R. Dysert
Buyer: Jack Koehler
V. P.-Sales: R. E. Reich M

PRY WELDING & MFG., INC.
 Madena, Pa. (Tel. DUDley 4-8321)
Secy.-Treas.: Gilbert Pry
Pres.: E. C. MacBean S, MS

PRYOR MFG. CO.
 210 W. Longview St., Mansfield, Ohio (Tel. LA 4-1511)
V. P. & Gen. Mgr.: K. W. Kraft
Buyer: C. Koehler
Chief Engr.: G. K. Eggleston MS, RO

PRYOR MARKING PRODUCTS
 434 S. Wabash Ave., Chicago 5, Ill. (Tel. HA 7-0495)
V. P.: D. J. Wilken

PSYCHOLOGICAL RESEARCH ASSOCIATES, INC.
 (West Coast) 14827 Ventura Blvd., Sherman Oaks, Calif. (Tel. STate 8-2700); (East Coast) 507 Eighteenth St., S., Arlington 2, Va. (Tel. DTis 4-5600)
West Coast Rep.: Harold E. Price
East Coast Rep.: Theadore J. Post RD, HSE

PUBLIC INFORMATION PROGRAMS, INC.
 10000 Riverside Dr., Bldg., Suite 6, Toluca Lake, North Hollywood, Calif. (Tel. TR 7-3238)
Associate: James H. Flint
Gen. Mgr.: David R. Shawolter CT, RD

PULSE ENGRG., INC.
 560 Robert Ave., Santa Clara, Calif. (Tel. CH 8-6040)
Purch. Agent: Ronald R. Knight
Sales Mgr.: Newt Wayne M

PURE CARBON CO. INC.
 441 Hall Ave., St. Marys, Pa. (Tel. TE 4-1578)
Purch. Agent: H. W. McGeehin
V. P.-Sales & Engrg.: M. C. Burr

PURITAN AEROSPACE OIV., PURITAN COMPRESSEO GAS CORP.
 2012 Grand Ave., Kansas City 8, Mo. (Tel. HArrison 1-2122)
Purch. Agent: A. A. Dakley
Products Mgr.: Dudley H. Grimm

PURITAN COMPRESSED GAS CORP.
 2012 Grand Ave., Kansas City 8, Mo. (Tel. HArrison 1-2122)
Aviation Sales Mgr.: F. C. Stebbins

PURULATOR PRODUCTS INC.
 970 New Bunswick Ave., Rahway, N. J. (Tel. FULTon 8-4000)
Purch. Agent: John T. Gaffney
Gen. Sales Mgr.: R. T. Korr PS

PYLE-NATIONAL CO., THE
 1334 N. Kosmer Ave., Chicago 51, Ill. (Tel. DICKens 2-6300)
Purch. Agent: Carl Mackprang
Asst. Purch. Agents: Charles Skabel & William Sheridan
V. P.-Mktg.: E. M. Nesvig
Mgr.-Connector Div. (Missile Prod. Sales): J. Shearer MS

PYLES INDUSTRIES, INC.
 20855 Telegraph Rd., Detroit 41, Mich. (Tel. KE 4-3820)
Purch. Agent: H. L. Kehoe
V. P.: C. M. Singleton
Gen. Sales Mgr.: Clifford G. DAVIS S, MS, M

PYRAMID ELECTRIC CO.
 Orange St., Darlington, S. C. (Tel. EXpress 3-3821)
Purch. Agent: D. Stanzione
Gen. Sales Mgr.: M. A. De Matteo G

PYROFERRIC CO. INC.
 Bronx Blvd. at 216th St., Bronx 67, N. Y. (Tel. OL 4-3930)
Purch. Agent: Elliott Reiss
Sales Mgr.: E. B. Winett M

PYROFILM RESISTOR CO., INC.
 U. S. Highway 46, Parsippany, N. J. (Tel. DERfield 4-8282)
Pres.: Jahn M. Hinkle MS

PYROMETER INSTRUMENT CO., INC.
 92 Portland Ave., Bergenfield, N. J. (Tel. DUMont 4-5140)
Purch. Agent: J. Crystall
Sales: A. Bolleman CT

PYROTECTOR INC.
 394 Lincaln St., Hingham, Mass. (Tel. RIVerview 9-3466)
Purch. Agent: Lee F. Mattiali
V. P.-Sales: John J. Caldwell MS, M

Q. O. S. CORP.
 Bronx Blvd. at 216th St., New York 67, N. Y. (Tel. DLInville 4-3930)
Purch. Agent: Elliott Reiss M, RO

Q. V. S. INC.
 20 N. 15th St., E. Drange, N. J. (Tel. DRange 3-3996)
Purch. Agent: Mrs. D. Fogle
Sales Mgr.: Milton C. Ward
Pres.: Dr. M. E. Fogle

Q-CIRCUITS, OIV-ETCHING CO. OF CALIF.
 1208 Howard St., San Francisco 3, Calif. (Tel. Market 1-7670)
Gen. Mgr.: Sterling Call
Dir.-Sales: Harry Scott M

QUAKER CITY FELT CO.
 1734-36 Ludlow St., Philadelphia 3, Pa. (Tel. LD 3-6955)
Owner: Richard W. Freeth
Mgr.: Richard W. Freeth, III M

QUALITY COMPONENTS, INC.
 St. Marys, Pa. (Tel. TErMinal 42-817)
Dir.-Purch.: A. E. Kronenwetter M

QUAN-TECH LABS., INC.
 60 Parsippany Blvd., Bax 187, Boonton, N. J. (Tel. DERfield 4-8500)
Pres.: John M. van Beuren
Sales Mgr.: Ronald C. Pittenger RD

QUARTZITE PROCESSING INC.
 197 Chelsea St., Everett 49, Mass. (Tel. DUNKirk 9-8793)
Pres.: Julius H. Westerman
Treas.: Phillip S. Yanofsky
V. P.: Leonard Yanofsky M

QUETROLE CO.
 395 St. John St., Spartanburg, S. C. (Tel. 8996)
Gen. Mgr.: Robert D. Mank
Dir.-Sales: Ralph M. Rouse M

QUINCY COMPRESSOR CO.
 217 Maine St., Quincy, Ill. (Tel. BA 2-7700)
Purch. Agent: Richard Busch
Sales Mgr.: Loren Gillhouse

QUATRONIC TRANSFORMER CORP.
 525 Broadway, New York, N. Y. (Tel. WDRth 2-3639)
Dir.-Purch.: E. H. Loganoff
Purch. Agent: Angelo Lamoscala
Gen. Mgr.: Louis L. Weintraub MS, G, CT, TT, RO

RBM CONTROLS DIV.-ESSEX WIRE CORP.
 131 Godfrey St., Lagonport, Ind. (Tel. 5121)
Purch. Agent: C. R. Carr
Sales Mgr.: W. T. Hopkins MS, G

REF MFG. CORP.
 393 Jericha Tpke., Mineola, N. Y. (Tel. PI 2-8400)
Purch. Agent: Narge Strotigos
Supvr.-Sales: Harold Maron S, MS, RO

R-P&C VALVE DIV., AMERICAN CHAIN & CABLE CO. INC.
 Tulpehocken St., Reading, Pa.

RAOALAB INC.
 87-17 124th St., Richmond Hill 18, N. Y. (Tel. Virginia 9-8181)
Pres.: Martin W. Tamberg
Sales Dept.: Herbert Brown M, CT, TT, RD

RADAR DESIGN CORP.
 P. D. Box 38, Pickard Dr., Syracuse 11, N. Y. (Tel. GLenview 4-4118)
Pres.: Glyn Bastick G, CT, RO

RADAR RELAY, INC.
 2322 Michigan Ave., Santa Monica, Calif. (Tel. EXbrook 4-2230)
Purch. Agent: Dennis Sullivan
Sales Mgr.: Dick Sil

RADEX CORP.
 2076 Elston Ave., Chicago 14, Ill. (Tel. ARmitage 6-6900)
Purch. Agent: R. R. Cook

RADIAL BEARING CORP.
 Taylor St., Danbury, Conn. (Tel. Planeer 8-2577)
Pres.: Leo Papish
Mgr.: M. Kravats PS, MS, G

RADIANT LAMP CORP.
 300 Jelliff Ave., Newark 8, N. J. (Tel. Blgelaw 3-6850)
Purch.: L. Mocerino
Sales Mgr.: D. Forman M

RADIAPHONE CO. INC.
 609 E. Evergreen St., Monrovia, Calif. (Tel. Ellioth 8-2585)
Purch. Agent: H. E. Adams, Jr.
Mgr.-Contracts Dept.: Frederick Feinstein MS, CT, TT, RO

RADIATION DYNAMICS, INC.
 1800 Shames Drive, Westbury, L. I., N. Y. (Tel. EDgewood 4-3990)
V. P.: Marshall R. Cleland
Prod. Mgr.: Don C. Reynolds
Sales Mgr.: Seymour Katz RO

RADIATION, INC.
 Melbourne, Fla. (Tel. PArkway 3-1511)
Purch. Agent: W. R. Pierpont
Chief Buyer, Contracts: W. M. Erbe
Chief Buyer, Purch.: J. I. Markham
V. P.-Mktg.: W. W. Dodgson, Jr. MS, G, CT, TT, RD, HSE

RADIATION INSTRUMENT DEVELOPMENT LAB., INC.
 5737 S. Halsted, Chicago 21, Ill. (Tel. TRIangle 3-2345)
Purch. Agent: J. F. Miller
Sales Mgr.: W. J. Buffa M, CT, RD

RADIATION RESEARCH CORP.
 1114 First Ave., New York, N. Y. (Tel. TEMpleton 8-2513)
Purch. Agent: Stanley Grand
Sales Mgr.: Maury Roy RD

RADIATRONICS, INC.
 5956 Kester Ave., Van Nuys, Calif. (Tel. State 2-1461; Stanley 3-2736)
Pres.: G. E. Hewitt
V. P.-Sales: E. H. Lockhart

RADIO CITY PRODUCTS CO. INC.
 Centre & Glendole Sts., Easton, Pa. (Tel. BLackburn 8-9122)
Purch. Agent: R. Schwartz
Pres.: George W. Fellendorf G, CT, TT

RADIO CONDENSER CO.
 Davis & Copewood Sts., Camden 3, N. J. (Tel. EMersan 5-5500)
Purch. Agent: William Thackeray
Buyer: J. W. Rattray
Sales Mgr.: Raymond A. Butar G, TT, RD

RADIO CORES, INC.
 9540 Tulley Ave., Dak Lawn, Ill. (Tel. GARDen 2-3353)
V. P.-Sales: Arthur J. Mark

CODING	
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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*RADIO CORP. OF AMERICA

Frant & Cooper Sts., Camden 2, N. J. (Tel. W D 4 down 3-8000)
V. P.-Materials: V. deP. Goubeau

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*RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS

Frant & Cooper Sts., Camden 2, N. J. (Tel. W D 4 down 3-8000)

Purch. Agent: W. Cavert

Mgr., Mktg.: W. Bain

MS, G, CT, TT, RD

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*RADIO CORP. OF AMERICA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY

838 N. Henry St., Alexandria, Va. (Tel. OVerlook 3-1900)

Mgr. Purch.: R. G. Middleton

CT, RD

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RADIO DEVELOPMENT & RESEARCH CORP.

100 Pennsylvania Ave., Paterson 3, N. J. (Tel. L.Amber 5-2200)

Prod. Mgr.: Milton Slavin

Pres.: K. R. Gerlach

MS

RADIO FREQUENCY CO., INC.

44-46 Park St., Medfield, Mass. (Tel. Boston: NDRwood 7-4900)

Pres.: J. G. D. Manwaring

Purch. Agent: E. Rowean

Sales Mgr.: Harry E. Gower

RD

RADIO INDUSTRIES, INC.

666 Garland Pl., Des Plaines, Ill. (Tel. VAnderbilt 7-4402)

Purch. Agent: Ray Sielisch

V. P.-Sales: John T. Driscoll

RADIO RECEPTOR CO., INC., SUB-GENERAL INSTRUMENT CORP.

81 N. Fourth St., Brooklyn 11, N. Y. (Tel. EVergreen 8-6000)

Dir.-Purch.: Robert Dolzell

Purch. Agents: Maurice Markowitz & Thomas Lardahl

V. P.-Sales: S. O. Gurian

G, CT, TT, RD

RADIO SPECIALTY MFG. CO.

2023 S. E. 6th Ave., Portland 14, Ore. (Tel. BE 2-8123)

Purch. Agent: Ellis R. Schlosser

Dir.-Sales: Kenneth C. Johnson

RADIOPLANE, DIV.-NORTROP CORP.

8000 Woodley Ave., Van Nuys, Calif. (Tel. TRiangle 3-1150)

Dir.-Material: Joe Barlow (Tel. S T ate 6-7020)

MS

RAE MOTOR CORP.

2009 Kewonuee St., Racine, Wis. (Tel. MEIrose 3-7741)

Purch. Agent: J. Costabile

V. P.: E. K. Hansen

M

RAFFI & SWANSON, INC.

100 Eames St., Wilmington, Mass. (Tel. Wabum, WElls 3-4200)

Dir.-Purch.: Richard W. Swanson

Dir.-Sales: Charles L. Raffi, Jr.

Sales Mgr.: Harold E. Duston

M

RAHM INSTRUMENTS, DIV.-AMERICAN MACHINE & METALS, INC.

65 Rushmore St., Westbury, N. Y. (Tel. EDgewood 3-4840)

Purch. Agent: J. Walsh

Sales Mgr.: J. J. Frey

TT, RD

RAILWAY COMMUNICATIONS, INC.

9351 E. 59th St., Raytown 33, Mo. (Tel. FLeeming 3-2100)

Sales: E. E. Tuel

CT

RAM METER INC.

1100 Hilton Rd., Ferndale 20, Mich. (Tel. LIncoln 7-1000)

Gen. Mgr.-Purch.: Robert M. Whalen

Pres. & Chief Engr.: R. A. Monnier

V. P. & Sales Mgr.: George C. Hale

MS, CT

RAMO WOOLDRIDGE, DIV.-THOMPSON RAMO WOOLDRIDGE INC.

4800 Ramo-Wooldrige Rd., P. D. Box 5073, Terminal Annex, Denver 17, Colo. (Tel. PY 4-4311)

Purch. Mgr.: L. Drtman

Buyers: M. J. Spencer & R. E. Hite

Mgr., Contract Relations: M. C. Baldrige, Jr.

MS, G, CT, TT, RD

RAMPE MFG. CO.

14915 Woodworth Ave., Cleveland 10, Ohio (Tel. MU 1-2800)

RANDALL ENGRG. CDRP.

5933 Bawcraft St., Los Angeles 16, Calif. (Tel. UPton 0-8533)

Dir.-Purch.: Mike Thames

V. P.-Sales: Rex Dberbeck

RANDALL GRAPHITE BEARINGS, INC.

Box 839, Greenlawn & Lake Sts., Lima, Ohio (Tel. C APital 3-1075)

Purch. Agent: Frank D. Burnette

Sales Mgr.: Roy Chaney

RANGERTDNE INC.

73 Winthrop St., Newark 4, N. J. (Tel. HU 5-2550)

Prod. Mgr.: Robert Somerville

Engr.: George Zendell

TT, RD

RANSBURG ELECTRO-CDATING CORP.

P. D. Box 23122, Indianapolis 23, Ind. (Tel. TRinity 8-2311)

RANSHOFF CO.

N. 5th St. & Ford Blvd., Hamilton, Ohio (Tel. TW 3-5813)

Purch. Agent: C. V. Noonan

V. P.: R. C. Wigger

RANTEK CDRP.

Calabasas, Calif. (Tel. DIamond 7-5446)

Purch. Agent: Marvin Shipman

Prod. Mgr.: A. T. Cunningham

Dir.-Mktg. & Contracts: G. H. Singer

MS, TT, RD

RAPIDS-STANDARD CO., INC., THE

Rapiston Bldg., Grand Rapids 2, Mich. (Tel. GL 9-0281)

Dir.-Purch.: Robert Gunnell

Dir.-Sales: H. M. Rasmussen

M

RATTAN MFG. CO., THE

P. D. Box 1745, 10 Wall St., New Haven 7, Conn. (Tel. U Niversity 5-2141)

Pres.: G. H. Keith Miller

Dir.-Sales: Gerard F. Murphy

RAULAND CORP., THE

4245 North Knox Ave., Chicago 41, Ill. (Tel. M U lberry 5-5000)

Dir.-Purch.: J. Loibl

Asst. Purch. Agent: J. Ne

Sales Mgr.: H. Wunderlich

Military Sales: T. M. Snow

RD

RAVEN INDUSTRIES INC.

Box 227, Sioux Falls, S. Dak. (Tel. ED 4-7586)

Purch. Agent: R. D. Dullend

Contract & Sales Mgr.: J. R. Smith

CT, RD

RAVENNA METAL PRODUCTS, DIV.-STANDARD SCREW CO.

6518 Ravenna Ave., Seattle 15, Wash. (Tel. LAkeview 5-5555)

Purch. Agent: L. D. Johnson

Gen. Mgr.: J. K. Schlamp

Sales Mgr.: Oick Francisca

S, MS, M, G, CT, RD

RAWAY BEARING CO., INC.

141 M Chrystie St., New York 2, N. Y. (Tel. WALKER 5-8150)

Purch.: Ruben Yarmush

Sales: Aharon Baskin

M

RAWSON ELECTRICAL INSTRUMENT CO.

128 Patter St., Cambridge 42, Mass. (Tel. KIrkland 7-4041)

Chief Engr.: M. J. Lush

Office Mgr.: G. C. Henderson

RAY PROOF CORP.

843 Canal St., Stamford, Conn. (Tel. DAVIS 5-2201)

Pres.: Arnold Zais

Gen. Mgr.: G. R. Brownridge

Chief Engr.: R. Aranson

M, RD

RAYBESTOS-MANHATTAN, INC.

Passaic, N. J. (Tel. GREGory 3-2000)

RAYBESTOS-MANHATTAN, INC., REINFORCED PLASTICS DEPT.

Manheim, Pa. (Tel. MOhaw k 5-2211)

Product Mgr.: M. M. Gibson

Purch. Agent: F. R. Bitzer

RAYMOND ENGRG. LAB., INC.

Smith St., Middletown, Conn. (Tel. DIamond 7-5611)

Purch. Agent: Herbert E. Cruickshanks

Subcont. Rep.: Valmare J. Labbe

Liaison Coord.: Joseph G. Lombardo

G, RD

RAY-O-VAC CO., DIV.-ELECTRIC STRDAGE

BATTERY CO.

212 E. Washington Ave., Madison 10, Wisc. (Tel. ALpine 5-7201)

Purch.: G. P. Wiedenbeck

V. P.-Mktg.: D. R. Slausan

*RAYTHEON CO.

Waltham, Mass. (Tel. TWInbrook 9-8400)

Dir.-Proc.: Paul Wilson

Dir.-Comm. Mktg. Services: S. D. Cowan

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*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.

55 Chapel St., Newton 58, Mass. (Tel. Blgelow 4-7500)

Purch. Agent: V. Gramont

Buyer: T. W. Stewart

Chief Engr.: F. Blattel

Sales Mgr.: J. Dorfman

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*RAYTHEON CO., MISSILE SYSTEMS DIV.

520 Winter St., Waltham 54, Mass. (Tel. TWInbrook 9-8000)

Gen. Purch. Agent: Bruce A. Brace

Contracts Mgr.: Stephen W. Rowen

Purch. Agent, Andover, Mass.: Frank Somuel

Purch. Agent, Lowell, Mass.: Vincent Sarrentino

Purch. Agent, Bedford, Mass.: Robert H. Pahl

Purch. Agent, Bristol, Tenn.: Richard Holland

Purch. Agent, Ontario, Calif.: Charles A. Wisenbaker

Purch. Agent, White Sands, N. M.: Harry Leiper

S, MS, M, G, CT, TT, RD, HSE

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J. B. REA CO.

2202 Broadway, Santa Monica, Calif. (Tel. EXbrook 3-3768)

Purch. Agent: Kay McCauley

Gen. Mgr.-Electronic Div.: Lyle E. Sharpe

REA MAGNET WIRE CO., INC., DIV.-ALUMINUM CO. OF AMERICA

3610 E. Pontiac St., Fort Wayne 4, Ind. (Tel. ANthony 5201)

Purch. Agent: W. W. Bonham

Exec. V. P.: R. L. Whearley

V. P.-Operations: A. C. Sheldon

Gen. Sales Mgr.: J. L. McKinnin

M

REACTION MOTORS DIV., THIKOL CHEMICAL CORP.

Denville, N. J. (Tel. DAKwood 7-7000)

Purch. Agent: Ernest DeRome

Purch. Supvrs.: Louance Levy & J. Young

Supvr.-Expediting: C. Birckhultz

Dir.-Coordinator: J. Doley

Dir.-Sales: R. Froeze

PS, RD

READ STANDARD, DIV.-CAPITOL PRODUCTS CORP.

S. Richland Ave. Ext'd., York, Pa. (Tel. 82891)

Dir.-Purch.: W. W. Lauer

Purch. Agent: C. W. Ness

Dir.-Sales: A. K. Brennan

M

READY-POWER CO., THE

11231 Freud Ave., Detroit 14, Mich. (Tel. VALley 2-1717)

Purch. Agent: Henry J. Craska

V. P. & Sales Mgr.: W. S. Jewell

MS

RECONY DIV., VINCO CDRP.

Box 442, Richmond 3, Va. (Tel. MIlton 3-7365)

Purch. Agent: J. H. Smith

Sales Engr.: J. G. MacCabe

MS, CT, RD

*RECEIVING TUBE DIV., RAYTHEON CO.

465 Centre St., Quincy 69, Mass. (Tel. GRANite 9-5300)

Purch. Mgr.: J. J. Grabiec

Purch. Agent: C. P. Rolfe

M

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RECTICO, INC.

963 Frelinghuysen Ave., Newark, N. J. (Tel. Blgelow 3-8739)

Purch. Agent: F. Fertell

M

RED DEVIL MFG. CO.

1401 N. Dgden Ave., Chicago 10, Ill. (Tel. Mchigan 2-5161)

M

RED POINT CORP.

105 W. Spazier Ave., Burbank, Calif. (Tel. TH 2-4895)

Gen. Mgr.: Ralph P. Craig

Gen. Sales Mgr.: Roy A. Wolman

REDA PUMP CO.

Bartlesville, Okla. (Tel. FEderal 6-7900)

Dir.-Purch.: Jack Loveland
Asst. Purch. Agents: William C. Bearden & Clarence Wilson
V. P.-Sales: Sergei Arutunoff MS

REDCO CORP.
Red Lion, Pa. (Tel. 33211)
Purch. Agent: D. W. Royston
Dir.-Sales: F. A. Bowles S, PS, MS, RD

REDEL INC.
2300 E. Katella Ave., Anaheim, Calif. (Tel. PProspect 4-3624)
Purch. Agent: C. D. Young
Sales Mgr.: Jay W. DeDapper PS, RD

REDMAN ELECTRONICS CORP.
92 Prospect St., Thompsonville, Conn. (Tel. Rlview 5-8024)
Purch. Agent: David Engleman
Pres.: Edward Tavidian M

REDMOND CO., INC., SUB.-CONTROLS CO. OF AMERICA
201 Monroe St., Dwsso, Mich. (Tel. SAratoga S-5151)
Dir.-Purch.: G. L. R. Baumhardt
Gen. Sales Mgr.: M. J. Koenig MS

REED INSTRUMENT CO.
1048 Potomac St., N. W., Washington 7, D. C. (Tel. FE 3-7000)
Dir.-Purch.: Frederick S. Mazingo
Sales Adm.: Russell E. Trovis MS, RD

REED MFG. CO.
1045 Main St., Waltham 54, Mass. (Tel. TW 4-1464)
Pres.: H. F. Stewart
Gen. Mgr.: Earl Spears M

REED-PRENTICE, DIV.-PACKAGE MACHINERY CO.
330 W. Chestnut St., East Longmeadow, Mass. (Tel. LAurel 5-3381)
Purch. Agent: D. B. Dalbeck
Sales Mgr.: J. D. Sherman

REED RESEARCH INC.
1048 Potomac St., N. W., Washington 7, D. C. (Tel. FEderal 3-7000)
Dir.-Purch.: Fred Mazingo
Sales Adm.: Russell E. Travis, Jr. MS, RD

REEVES ELECTRONICS, INC.
609 W. Lake St., Chicago 6, Ill. (Tel. RAndolph 6-9755)
Purch. Agent: E. F. Steichmann
Sales Engr.: I. R. Wayne

REEVES BROTHERS, INC.
1071 Avenue of the Americas, New York 18, N. Y. (Tel. PE 6-8600)
Gen. Sales Mgr.: James Cooper M, RD

REEVES BROS. INC., VULCAN RUBBER DIV.
1071 Avenue of the Americas, New York 18, N. Y. (Tel. Pennsylvania 6-8600)
V. P.-Sales: E. C. Hemes
Gen. Sales Mgr.: J. R. Cooper
Dept. Sales Mgr.: L. W. Isom M

REEVES INSTRUMENT CORP.
Roosevelt Field, Garden City, N. Y. (Tel. Pioneer 6-8100)
Purch. Mgr.: A. J. Rutherford
Mgr., Systems Mktg.: P. Andrepont
Mgr., Components Mktg.: P. F. G. Holst MS, G, CT, TT, RD

REEVES SOUNDRAFT CORP.
Great Pastures Rd., Danbury, Conn. (Tel. Pioneer 3-7601)
Purch. Agent: Guy Bonham
Sales Mgr., Instrumentation Products: William A. Morrison

REEVES-HOFFMAN DIV.
145 Cherry St., Carlisle, Pa. (Tel. CHapel 3-5929)
Purch. Agent: Helen Sheaffer
Sales Mgr.: C. M. Rahn M

REFLECTONE ELECTRONICS, INC.
Post Rd. & Myano Lane, Stamford, Conn. (Tel. DAVIS 5-2251)
Purch. Agent: Frank G. Hill
Buyers: Howard Auletta & Mrs. Joan Bolonis
Sales Mgr.: John B. Thaler RD

REFRATORIES DIV., THE CARBORUNDUM CO.
Lutrope, Pa. (Tel. KEystone 7-3331)
Purch. Agent: James W. Bell, Jr.
Mgr.-Sales Engr.: Thomas J. Kuehn M

REFRATORIES DIV., THE FERRO CORP., LOUTHAN PLANT
2000 Harvey Ave., East Liverpool, Ohio (Tel. FULTAN 5-1538)

Works Mgr.: Fred A. Layne
Supt.: Leonard Kupchinsky
Chief C.mic Engr.: Howard C. Peach M

REGAL AIR CORP.
500 Fifth Ave., New York 36, N. Y. (Tel. LDnoce 5-4122)
V. P.: Sanford Schimmel M

REGENT JACK MFG. CO., INC.
11905 Regentview Ave., Downey, Calif. (Tel. SPruce 3-0103)
Purch. Agent: Don Norton
V. P.-Sales: W. S. Noblett PS, MS

REICHOLD CHEMICALS, INC.
RCI Bldg., White Plains, N. Y. (Tel. White Plains 6-8200)
V. P.-Purch.: G. C. Sweet
V. P.-Sales: R. T. Ulrich M

RELAY SALES INC.
Box 186 MM, W. Chicago, Ill. (Tel. West Chicago 1100)
V. P.-Sales: A. Scandora
Pres.: E. E. Rullman, Jr.

RELAYS, INC.
162 W. 83rd St., New York 24, N. Y. (Tel. TRafalgar 3-4500)
Chief Engr.: S. H. Hartley MS

RELIABLE SPRING & WIRE FORMS CO.
3167 Fulton Rd., Cleveland 9, D. (Tel. MElrose 1-2800)
Purch. Agent: Gilbert Gnewatta
V. P.-Sales: Ronald F. Pond M

RELIANCE ELECTRIC & ENGRG. CO.
24701 Euclid Ave., Cleveland 17, Ohio (RE 2-7000)
MS, CT, TT

RELIANCE INDUSTRIAL PROD., INC.
168 Forest St., Manchester, Conn. (Tel. MItchell 9-5211)
Purch. Agent: Cliff Schumacher
Exec. V. P.-Sales: William Bell
Pres.: Michael Kogan

REHBAR CO., INC., THE
67 Main St., Dobbs Ferry, N. Y. (Tel. DWens 3-2620)
M

REMINGTON RAND UNIVAC DIV.-SPERRY RAND CORP.
315 Park Ave., S. New York, N. Y. (Tel. SPRing 7-8000)
Dir.-Procurement: W. R. Gerhardt
V. P.-Univac Sales: J. W. Schnackel G, RD

REMLER CO.
2101 Bryant St., San Francisco 10, Calif. (Tel. VA 4-3435)
Purch. Agent: S. Mohr
Sales Mgr.: A. B. Hart MS, CT

REN PLASTICS, INC.
5422 S. Cedar St., Lansing 9, Mich. (Tel. TURner 2-2411)
V. P.-Purch.: H. James Rengvo
Dir.-Sales: D. J. Doll M

RENBRANDT, INC.
6 Parmelee St., Boston 18, Mass. (Tel. Hlghlands S-8910)
Sales: M. Rogers

EDW. RENNEBURG & SONS CO.
2639 Boston St., Baltimore 24, Md. (Tel. PE 2-1665)
V. P.: Paul E. Kiefer
Dir.-Sales: E. J. Leister S, PS, MS

REON RESISTOR CORP.
155 Saw Mill River Rd., Yonkers, N. Y. (Tel. YOnkers 5-9850)
Sales Mgr.: J. J. McCann
Purch. Agent: J. Schuldenfrel

REPUBLIC AVIATION CORP.
Conklin St., Formingdale, L. I., N. Y. (Tel. CH 9-1100)
Dir.-Material: E. I. Little
V. P.-Sales: J. L. Murray S, PS, M, G, TT, RD, HSE

REPUBLIC AVIATION CORP., MISSILE SYSTEMS DIV.
223 Jericho Tpke., Mineola, L. I., N. Y. (Tel. Pioneer 2-4013)
Dir.-Purch.: Al Owens
Dir.-Sales: R. G. Melrose (Tel. CHapel 9-1100)
S, PS, MS, G, CT, TT, RD

REPUBLIC FOIL INC.
55 Triangle St., Danbury, Conn. (Tel. Pioneer 3-2731)

Purch. Agent: D. E. Hancock, Jr.
V. P.-Engrg.: J. D. Post
Engrg. Dept.: S. G. Timmerman, Jr.
V. P.-Sales: W. H. Maxwell M

REPUBLIC LENS CO., INC.
31 E. 169th St., New York S2, N. Y. (Tel. CYpress 3-2790)
Purch. Agent: M. Matthewson
Sales Mgr.: Jack Lurie

REPUBLIC MFG. CO.
15655 Brookpark Rd., Cleveland 3S, D. (Tel. CLearwater 2-1800)
Purch. Agent: R. Riley
V. P.-Sales: L. J. Henderson PS, MS, M, CT

REPUBLIC STEEL CORP.
Republic Bldg., Cleveland 11, D. (Tel. PProspect 1-1400)
Mgr.-Purch. & Raw Materials: W. T. Adams
Asst. Mgr.-Purch.: L. H. Ransom
V. P.-Chg. Sales: Norman W. Foy M

RESEARCH CHEMICALS
170 W. Providencia, Burbank, Calif. (Tel. VI 9-6276)
Purch. Agent: Fred Nathanson
Gen. Mgr.: Dr. E. V. Kleber M, RD

RESEARCH INDUSTRIAL LAB. OF ELECTRONICS
Roslyn, Pa. (Tel. TURner 4-8098)
Purch. Agent: E. Schempp
Dir.-Sales: R. Patterson CT

RESDEL ENGRG. CORP.
330 S. Fair Daks Ave., Posadena, Calif. (Tel. MURray 1-7689)
Asst. to V. P.-Engrg.: M. F. Brown, Jr.
Dir.-Purch.: Joseph P. Moran (Tel. MURray 1-9529)
MS, CT, TT, RD

RESE ENGRG., INC.
731 Arch St., Philadelphia 6, Pa. (Tel. WAInut 2-S841)
Chief Purch. Agent: Philip Marder
V. P.-Digital Systems: Lowell Bensky
Pres.: Richard D. Endres

RESEARCH CONTROLS
7902 E. 11th St., Tulsa, Okla. (Tel. TEmple S-7163)
Sales: Roy Horton S, PS, MS, CT

RESEARCH DEVELOPMENT MFG. INC.
429 E. Collam St., Philadelphia, Pa. (Tel. GLadstone 5-9700)
Purch. Agent: A. G. Komm
Asst. Purch. Agent: Frank Wm. Doll
Treas.: L. Kassvan S, G

RESEARCH, INC.
P. D. Box 6164, Edina Branch, Minneapolis 24, Minn. (Tel. WESt 5-2156)
Purch. Agent: G. N. Butzow
Buyers: D. H. Whitcomb & R. W. Jungk
V. P. & Sales Mgr.: A. E. Abramson MS, M, CT, RD

RESEARCH PRODUCTS CORP.
1015 E. Washington Ave., Madison 1, Wisc. (Tel. ALpine 6-0621)
V. P.-Sales: A. W. Brown
V. P.-Purch.: E. B. Schlatter, Jr.
Purch. Agent: Howard E. Hoveland RD

RESINITE CORP. DIV.-PRECISION PAPER TUBE CO.
6980 N. Central Park, Chicago 4S, Ill. (Tel. DR 5-6200)
Dir.-Purch.: R. Hutton
Dir.-Sales: H. T. Blair M

RESISTANCE PRODUCTS CO.
914 S. 13th St., Harrisburg, Pa. (Tel. CEdar 6-S081)
Pres.: R. M. Peffer
V. P.-Sales: S. S. Saul
V. P.-Engrg.: Karl A. Stack
Engr.-Metal Film Dept.: H. M. Wutz
Engr.-High Voltage Sales: R. M. McKay M

RESISTOFLEX CORP.
Woodland Rd., Roseland, N. J. (Tel. CApitol 6-7700)

	CODING
Structures	S
Propulsion System	PS
Missile Support	MS
Materials	M
Guidance	G
Checkout & Testing	CT
Tracking & Telemetering	TT
Research & Development	RD
Human Space Engineering	HSE

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- Purch. Agent:** R. Atkins
Asst. Purch. Agent: S. Stein
Buyer: W. Tomlin
Sr. V. P.: H. E. Krebs PS, MS, M, CT, RD
- RESISTORS, INC.**
 5226 W. 26th St., Chicago 50, Ill. (Tel. OL 2-7555)
Purch. Agent: Marion Klemek
Sales Mgr.: Myrtle J. Bryans PS, MS, G, CT, TT, RO
- RESITRON LABS., INC.**
 2908 Nebraska Ave., Santa Monica, Calif. (Tel. EXbrook 3-5217)
Purch. Agent: Clifford LeBeau
Sales Mgr.: A. W. Westbrook RD
- REVERE COPPER & BRASS INC.**
 230 Park Ave., New York 17, N. Y. (Tel. MU 9-6800)
V. P.-Gen. Sales Mgr.: R. P. Winberg
Mgr., Metal Purch.: E. J. Flanagan M
- REVERE CORP. OF AMERICA, SUB-NEPTUNE METER CO.**
 N. Calany Rd., Wallingford, Conn. (Tel. COLony 9-7701) MS, CT
- REVOLVATOR CO.**
 2000 86th St., North Bergen, N. J. (Tel. UNion 9-1220)
Chief Engr.: P. D. Germond
Sales: H. S. Germond III
- J. W. REX CO.**
 8th St. & Franconia Ave., Lansdale, Pa. (Tel. ULYssey 5-1131)
Pres.: J. W. Rex
Gen. Mgr.: O. Meyers
Sales Mgr.: John E. King
- REX RHEOSTAT CO.**
 149 Babylon Tpke., Roosevelt, L. I., N. Y. (Tel. FRearport 9-1030)
Owner: Edmund Abrahamson M
- REYNOLDS METALS CO.**
 P. O. Box 2346, Richmond 18, Va. (Tel. ATLantic 2-2311)
Dir.-Purch.: E. C. Silver
Exec. V. P.-Sales: David P. Reynolds S, M, RD
- REYNOLDS METALS CO., PLASTICS DIV.**
 Reynolds Metals Bldg., Richmond 26, Va. (Tel. ATLantic 2-2311)
Dir.-Purch.: Earl Silver
Purch. Agents: Kyle Cook & J. H. Norris
Gen. Mgr.-Plastic Markets Sales: W. J. Vagel M
- REYNOLDS METALS CO., SHEFFIELD MISSILE PLANT**
 Sheffield, Ala. (Tel. EV 3-6341)
Purch. Agent: Robert Schmidt
Plant Mgr.: M. C. Duke S, M, RD
- REZOLIN, INC.**
 1651 18th St., Santa Monica, Calif. (Tel. UPTon 0-7328)
Purch. Agent: Fred Palich
Prod. Mgr.: William Windsor
Mktg. Dir.: Lloyd J. Oye M, RO
- RHEEM MFG. CO., ELECTRONICS DIV.**
 7777 Industry Ave., Rivera, Calif. (Tel. TOpaz 1-9271)
Dir.-Purch.: Roy Smith
Oiv. Sales Mgr.: Hugh C. Broom
- M. H. RHODES, INC.**
 30 Bartholomew Ave., Hartford 6, Conn. (Tel. JACKson 2-4265)
Dir.-Purch.: Miss E. M. Sandersan
Sales Mgr.: E. J. Dayle G, RD
- RICHARDS-WILCOX MFG. CO.**
 333 Third St., Aurora, Ill. (Tel. TWinoaks 7-6951)
Dir.-Purch.: Robert W. Gehring
Purch. Dept.: T. Phares
Sales Mgr.: Elmer R. Ransom M
- RICHMONT, INC.**
 922 S. Myrtle Ave., Monrovia, Calif. (Tel. ELIott 9-2555)
Pres.: M. S. Zimmerman
V. P.: J. R. Ewell
Purch. Agent: J. F. Hubbard
Dir.-Mktg.: H. B. Banta, Jr. CT, RD
- RIEHL TESTING MACHINES DIV., AMERICAN MACHINE & METALS, INC.**
 East Moline, Ill. (Tel. S-4561)
Dir.-Purch.: N. Clark
Gen. Sales Mgr.: Ib Jensen
- RIGGS NUCLEONICS CORP.**
 145 W. Magnolia Blvd., Burbank, Calif. (Tel. VICtoria 9-2481)
Purch. Agent: Philip Saloman
Sales Mgr.: John R. Foster
Pres.: Harvey Riggs
- RIMAK, INC.**
 10929 Vanawen St., North Hollywood, Calif. (Tel. TRIangle 7-5526)
Dir.-Purch.: Richard H. Flint
Pres. & Gen. Mgr.: Rinard W. Flint S, MS, RD
- RINCO, INC.**
 7962 S. E. Powell Blvd., Portland 6, Ore. (Tel. PROspect 4-3259)
Purch. Agent: Jesse L. Brown
Sales Mgr.: Franklin M. Brown M, CT
- RIPLEY CO., INC.**
 Factory St., P. O. Box 31, Middletown, Conn. (Tel. DIamond 6-6679)
Purch. Agent: H. I. Thayer, Jr.
Sales Mgr.: P. J. Rinaldi MS, CT
- RIVERBANK LABS., OEPT.-ENGRG.**
 P. O. Box 65, Geneva, Ill. (Tel. CENter 2-2207)
Buyer: R. J. Eisenhour
Chief Engr.: B. E. Eisenhour, Jr. M, CT, RO
- RIVERDALE PLANT, ACF ELECTRONICS DIV., ACF INDUSTRIES, INC.**
 Riverdale, Md. (Tel. WA 7-4444)
Purch. Agent: W. S. Hall
Material Mgr.: C. E. Tataritis
Mktg. Mgr.: J. A. Curtis
Sr. Buyers: E. T. Wagner, H. L. Blaylock, R. F. Barke & J. J. Keegan
- RIVETT LATHE & GRINDER INC.**
 P. O. Box 7, Brighton 35, Mass. (Tel. STadium 2-4530)
Purch. Agent: W. R. Wright
Sales Mgr.-Hydraulic Div.: J. A. Marsh
- J. R. ROBBINS CO.**
 9046 Sunset Blvd., Las Angeles 46, Calif. MS, G, CT, TT, RD
- ROBBINS AVIATION, INC.**
 2350 E. 38th St., Los Angeles 58, Calif. (Tel. LUDlow 9-5221)
Dir.-Material: R. E. Bixler
V. P.-Sales: H. N. Mabery MS
- ROBBINS & MYERS, INC., HOIST & CRANE DIV.**
 Springfield 99, Ohio (Tel. FA 3-6461)
Purch. Agent: Robert A. Harley
Gen. Sales Mgr.: M. L. Aitken
Sales Mgr.: Radger A. Metz MS
- FRED T. ROBERTS & CO.**
 Danbury Rd., Wilton, Conn. (Tel. PORTer 2-7002)
V. P.: R. E. Roberts
Pres.: Fred T. Roberts M, RO
- ROBERTS INDUSTRIES, INC.**
 Box 71, Branford, Conn. (Tel. HU 8-1671)
Pres.: H. W. Wallace
- ROBERTS TOLEDDO RUBBER CO., THE**
 4143 Manrae St., Toledo 13, O. (Tel. GREENwood 9-4466)
Pres.: Robert Roberts M
- ROBERTSHAW-FULTON CONTROLS CO., A&I DIV.**
 Santa Ana Freeway at Euclid Ave., Anaheim, Calif. (Tel. KEYstone 5-8151)
Dir.-Purch.: L. L. Maloney
Asst. Purch. Agent: W. Housewarth
Buyer: W. Hamilton
Dir.-Field Engrg. & Sales: R. H. Heller PS, MS
- ROBERTSHAW-FULTON CONTROLS CO., FULTON SYLPHON DIV.**
 P. O. Box 400, Knoxville 1, Tenn. (Tel. 4-1641)
Purch. Agent: Fred Coker
Asst. Purch. Agent: Jack Cremeans
Buyer: Robert Combs
Gen. Sales Mgr.: G. L. Ogden, Jr.
- ROBINS INDUSTRIES CORP.**
 36-27 Prince St., Flushing 54, N. Y. (Tel. HICKory 5-7200)
Dir.-Purch.: Rodney Lumel
Sales Mgr.: Lorry Post
- R. C. ROBINSON CO., INC.**
 P. O. Box 3494, North Sacramento 15, Calif. (Tel. WABash 5-3827)
Gen. Mgr.: Alice Schaefer PS
- ROBINSON TECHNICAL PRODUCTS, INC.**
 Teterboro Air Terminal, Teterboro, N. J. (Tel. ATlas 8-2500)
Sr. Buyer: Harold Adler
Buyers: James Eames, Raymond Vetrini
V. P.-Prnj. Dev.: H. Erich Nietsch S, MS, RD
- ROBOT INDUSTRIES INC.**
 7041 Orchard St., Dearborn, Mich. (Tel. TIFFany 6-2623)
Purch. Agent: K. Krake
Sales Mgr.: F. J. O'Such S, MS
- ROCHESTER MFG. CO. INC.**
 113 Rockwood St., Rochester 10, N. Y. (Tel. BRrawing 1-2020)
Purch. Agent: L. A. Mumford
Sales Mgr.: David McEwen MS, M, G, RO
- ROCHESTER MFG. CO. INC. OF CALIF.**
 1401 S. Shamrock St., Monrovia, Calif. (Tel. ELIott 9-9317)
Pres.: C. L. Hastings
Purch. Agent: L. A. Mumford, 100 Rockwood St., Rochester 10, N. Y. (Tel. BRrawing 1-2020) PS, MS, CT, RD
- ROCK ISLAND ARSENAL**
 Rock Island, Ill. (Tel. 88411)
Chief-Prac. Branch: Clarence E. Wagner (Tel. 21214)
Asst. Chief-Prac. Branch: Paul H. Johnson (Tel. 22241)
Purch. Agent: Richard L. Maynard (Tel. 23113)
- ROCKBESTOS WIRE & CABLE CO., DIV.-CERRO DE PASCO CORP.**
 Nicall & Conner Sts., New Haven 4, Conn. (Tel. STATE 7-1141)
Purch. Agent: R. B. Minter
Mgr., Sales Service: R. F. Coyle
- ROCKETOYNE DIV., NORTH AMERICAN AVIATION, INC.**
 6633 Canoga Ave., Canoga Park, Calif. (Tel. DIamond 7-5651)
Gen. Purch. Agent: M. J. Dubuc
Dir.-Material: W. D. Bailey
Mgr., Sales Engr.: A. Andrews
Dir.-Plans & Programs: E. F. Brown PS, RD
- ROCKWELL-STANOARO CORP.**
 843 Fourth Ave., Carapopolis, Pa. (Tel. SPolding 1-1800)
V. P. & Dir.-Purch.: V. E. Gumbleton
Exec. V. P.-Sales, Mktg.: C. B. Black GS, GH
- ROCKWELL-STANDARD CORP., BRAKE DIV.**
 Ashtubula, Ohio
Sales Mgr.: C. M. Heath MS
- ROCKWELL-STANDARD CORP., TRANSMISSION & AXLE DIV.**
 100-400 Clark Ave., Detroit 32, Mich. (Tel. TASHmao 6-6000)
V. P.-Purch.: V. E. Gumbleton
Dir.-Engrg.: K. M. Kach
Gen. Sales Mgr.: J. R. White
- ROCKWOOD SPRINKLER CO., DIV.-THE GAMEWELL CO.**
 38 Harlaw St., Worcester 5, Mass. (Tel. PLeasant 6-2426)
Purch. Agent: L. H. Bastwick
Sales Mgr.: A. H. O'Connell
- RODNEY METALS INC.**
 1357 Radney French Blvd., New Bedford, Mass. (Tel. WY 6-5691)
V. P.: C. W. Smith
Purch. Agent: L. A. Dabson M
- JOHN A. ROEBLING'S SONS DIV., THE COLORADO FUEL & IRON CORP.**
 640 S. Broad St., Trenton, N. J. (Tel. EXpart 6-6511)
Dir.-Purch.: R. K. Spofford
Asst. Dir.-Purch.: K. S. Dickel
Buyers: J. G. Hottinger, C. G. Bennighaff, J. R. Nemeth, W. P. Strohauser & P. S. Toth
V. P.-Sales: E. George Hartmann M
- ROGERS CORP.**
 Rogers, Conn. (Tel. PRescott 4-9605)
Purch. Agent: Austin R. Schillinger
Dir.-Mktg.: N. L. Greenman M
- ROHM & HAAS CO., REOSTONE ARSENAL RESEARCH DIV.**
 Huntsville, Ala. (Tel. JEFFerson 6-4411)
Supvr.-Purch.: A. H. Belcher
Asst. Supvr.-Purch.: C. R. Lumpkin
Gen. Mgr.: A. R. Deschere RD
- ROHN MFG. CO.**
 116 Limestone St., Peoria, Ill. (Tel. 7-8416)
Pres.: Dwight Rohn

Mgr.: William Hall
Sales Mgr.: R. A. Kleine

ROHR AIRCRAFT CORP.
Foot of H St., Chula Vista, Calif. (Tel. GARfield 2-7111)
Material Mgr.: C. R. Campbell
Mgr.-Purch.: R. J. Rucci
Purch. Agents: J. W. D'Reilly, G. F. Guerin
Contracts Mgr.: A. R. Campbell

ROLL FORMED PRODUCTS CO.
3760 Dakwood Ave., Youngstown, D. (Tel. SWeetbriar 9-3223)
Purch. Agent: S. Kokish
Sales Mgr.: L. C. Coleran

ROLLAN ELECTRIC CO.
8233 S. Princeton Ave., Chicago 20, Ill. (Tel. RAdcliffe 3-4000)
Purch. Agent: William Pierucci
Sales Mgr.: C. E. Schneider

ROLLE MFG. CO.
3rd & Cannon Ave., Lonsdale, Pa. (Tel. UL 5-1171)
Purch. Agent: H. Wordle
Sales Mgr.: W. F. Trokrot

ROLLER BEARING CO. OF AMERICA
Sullivan Way, W. Trenton, N. J. (Tel. EX 3-7191)
Purch. Agent: R. J. McCoy
Sales Mgr.: Robert R. Voorhees

ROLLWAY BEARING CO., INC.
541 Seymour St., Syracuse 4, N. Y. (Tel. GR 5-2121)
Purch. Agent: William R. Bowes
Gen. Sales Mgr.: Alfons Alven

ROLOCK INC.
1350 Kings Hwy., Fairfield, Conn. (Tel. FD 7-8611)
Purch. Agent: Robert L. Larkin
V. P.-Sales: Robert Platt

ROME CABLE DIV., ALCOA
421 Ridge St., Rome, N. Y. (Tel. Rome 3000)
Purch. Agent: S. D. Williams
Asst. Purch. Agent: J. H. McConn
V. P. & Dir.-Mktg.: G. E. Rolston

ROME-TURNEY RADIATOR CO.
109 Canal St., Rome, N. Y. (Tel. 2200)
Dir.-Purch.: R. Yutzler
Dir.-Sales: W. L. Lynch, Jr.

RONAN & KUNZL, INC.
502 S. Kalamazoo Ave., Marshall, Mich. (Tel. SToary 1-2861)
Cryogenic Sales Engr.: Herbert A. Eichstaedt
Purch. Agent: Mark Coto
V. P.: C. B. Vondenberg

RONAN & KUNZL, INC., CRYOGENIC DIV.
Marshall, Mich. (Tel. SToary 1-2861)
Purch. Agent: Mark Coto
Sales: H. E. Eichstaedt

RONSON HYDRAULIC UNITS CORP.
1313 Lincoln Ave., Pasadena, Calif. (Tel. MUrray 1-0221)
Purch. Agent: M. E. Boltz
Dir.-Sales: R. K. Boltz

ROOVERS LOTSCH CORP.
P. O. Box 97, Dld Forge, Pa. (Tel. GLenwood 7-6737)
V. P. & Gen. Mgr.: C. F. Lotsch
Treas.: P. D. Payne

ROSAN, INC.
2901 W. Coast Hwy., Newport Beach, Calif. (Tel. Lberty 8-5533)
Purch. Agent: Robert A. Carr
Gen. Sales Mgr.: E. G. Miller

ROSE MFG. CO.
2700 W. Borberry Place, Denver 4, Colo. (Tel. AC 2-7847)
V. P.: J. E. Shorp

ROSEMOUNT ENGRG. CO.
4900 W. 78th St., Minneapolis 24, Minn. (Tel. WAInut 7-7711)
Secy.-Treas.: Vernon H. Heath
Buyer: Harry Boquist
Sales Mgr.: B. L. Sodler

CHARLES ROSS & SON CO., INC.
148-156 Classon Ave., Brooklyn 5, N. Y. (Tel. MAIn 2-8400)
Pres.: C. K. Ross
V. P. & Treas.: R. M. Ross
Purch. Dept.: J. Teleky

MILTON ROSS METALS CO., THE
237 Jacksonville Rd., Hatboro, Pa. (Tel. DSbone 2-0550)
Purch. Agent: P. Hazelwood

ROTARY LIFT CO., DIV.-DOVER CORP.
1054 Kansas St., Memphis 2, Tenn. (Tel. Whitehall 8-8561)
V. P.-Purch.: W. E. Rier
Sales Mgr.-Elevator Div.: H. G. Sonders
Sales Mgr.-Indst. Div.: H. T. Homm

ROTEX PUNCH CO., INC.
2350 Alvarado St., San Leandro, Calif. (Tel. ELgin 7-3600)
Prod. Mgr.: Mark Hamlin
Sales Mgr.: John B. Sweeney

ROTO-FINISH CO.
3700 Milham Rd., P. D. Box 2065, Kalamazoo, Mich. (Tel. FLreside 3-5578)
V. P. & Dir.-Purch.: J. W. Servos
Sales Mgr.: W. J. Wolther

ROTOTEST LABS., INC.
2803 Los Flores Blvd., Lynwood, Calif. (Tel. NEvado 6-9238)
Purch. Agent: Mrs. Tim Taylor
V. P.-Sales: J. R. Duncan

ROTRON MFG. CO.
7-9 Schoonmaker Lane, Woodstock, N. Y. (Tel. DRiole 9-2401)
Purch. Agent: A. J. Gibson, Jr.
Dir.-Sales: Paul M. Beard
Asst. Sales Mgr.: W. W. Blelock, Jr.

MILTON ROY CO.
1300 E. Mermaid Lane, Philadelphia 18, Pa. (Tel. CHestnut Hill 7-8000)
Purch. Agent: E. W. Brook
Sales Mgr.: John Procopi

ROYAL ELECTRIC CORP.
95 Grand Ave., Powtucket, R. I. (Tel. PAwtucket 2-8600)
Purch. Agent: H. Spanglet
V. P.-Sales Operations: S. B. Alperin

ROYAL JET, DIV.-ROYAL INDUSTRIES, INC.
1035 Westminster Ave., Alhambra, Calif. (Tel. CU 3-8151)
Mgr.-Materials: D. S. MacKenzie, Sr.
Buyers: Ruth Young & R. Proctor
Asst. to Pres.: J. D. Strickland

ROYLYN INC.
620 Paula Ave., Glendale 1, Calif. (Tel. CHapman 5-8521)
Purch. Agent: Leo Harris
Asst. Purch. Agent: Harold Conley
Outside Purch.: James McEwen

RUBATEX DIV., GREAT AMERICAN INDUSTRIES INC.
Bedford, Va. (Tel. JUSTice 6-2611)
Purch. Agent: Mary B. Deon
Asst. Sales Mgr.: C. R. Thaxton

RUBBER & ASBESTOS CORP.
225 Belleville Ave., Bloomfield, N. J. (Tel. Pilgrim 8-1300)
Purch. Agent: Mrs. A. Golden
Gen. Sales Mgr.: Harold Greene

RUBBERCRAFT CORP. OF CALIFORNIA
1800 W. 220th St., Torrance, Calif. (Tel. FAirfax 8-5402)
V. P.-Sales: Robert N. Merrolls

RUBY CHEMICAL CO.
68-70 McDowell St., P. O. Box 1108, Columbus, Ohio (Tel. CApital 1-3055)
Gen. Mgr.: Dole F. Baker

RUCKER CO., THE
4700 San Pablo Ave., Oakland 8, Calif. (Tel. OLYmpic 3-5221)
V. P.-Gen. Mgr.: Clarence J. Woodard

RULAND MFG. CO., INC.
380 Pleasant St., Watertown 72, Mass. (WA 4-8000)
Pres.: Fred F. Ruland

RUSSELL MFG. CO.
Middletown, Conn. (Tel. DIamond 6-7721)
Purch. Agent: Henry Fischer, Jr.
Dir.-Automotive Research & Mfg.: H. C. Morton
Dir.-Research, Textile Div.: T. I. Read
V. P.-Sales: L. S. Sullivan

RUST-OLEUM
2425 Oohton St., Evanston, Ill. (Tel. BRoadway 3-3200)
Pres. & Dir.-Sales: Robert A. Fergusson
V. P. & Dir.-Purch.: D. W. Fergusson

RUTHERFORD ELECTRONICS CO.
8944 Lindblade St., Culver City, Calif. (Tel. UPion 0-7393)
Purch. Agent: George S. Dilen
Sales: N. T. Holzer

RUTHMAN MACHINERY CO., THE
1813 Reading Rd., Cincinnati 2, O. (Tel. MA 1-5462)
V. P.-Purch.: A. H. Ruthman

RYAN AERONAUTICAL CO.
2701 Harbor Dr., San Diego 12, Calif. (Tel. CYpress 6-6681)
Dir.-Material: M. K. Smith
Gen. Supvr.-Purch.: J. H. Stromberg
Gen. Supvr.-Outside Prod.: R. W. Corr

RYAN INDUSTRIES, INC., DEPT. M
888 E. 70th St., Cleveland 3, Ohio (Tel. UTah 1-6883)
Purch. Agent: William Stratton
Buyer: Ed Dberle
V. P.-Sales & Engrg.: R. M. Hoas

RYE SOUND CORP.
145 Elm St., Momoroneck, N. Y. (Tel. DWens 8-0082)
Gen. Mgr. & Dir.-Purch.: R. M. Livingston
Dir.-Sales: S. M. Scher

JOSEPH T. RYERSON & SON, INC.
16th & Rockwell Sts., Chicago 8, Ill. (Tel. RDckwell 2-2121)
V. P.-Proc.: J. M. Mead
V. P.-Sales: W. E. Folberg

RYTRON CO., INC.
7303 Lonkershim Blvd., N. Hollywood, Calif. (Tel. PDplor 5-0756)
Purch. Agent: Jock Kennedy
Dir.-Engrg.: Robert E. Schlegel
Chief Engr., Filters: Carl Nelson
Chief Engr., Mag. Amplifier: Ralph Holonov
Sales Mgr.: D. S. Show

S & G MFG. CORP.
1017 Magazine St., New Orleans 10, La. (Tel. JA 5-3142)
Gen. Mgr.: Roy J. Surgi

SKF INDUSTRIES, INC.
Front St. & Erie Ave., Philadelphia 32, Pa. (Tel. GARfield 6-6400)
Dir.-Purch.: F. E. Whyte
Purch. Agent: J. R. Bremer
Supvrs.: W. R. Sine
Buyers: B. F. Maurer, J. A. McCarron, W. R. Conlogue, & J. A. Choman
Expediter: D. P. Haggerty

S-P MFG. CORP., THE
30201 Aurora Rd., Cleveland 39, Ohio (Tel. CHurchill 8-6141)
Purch. Agent: A. W. Fisher
Sales Mgr.: R. E. Sutherland

SAFETEE GLASS CO.
4717 Stenton Ave., Philadelphia 44, Pa. (Tel. DA 9-1200)
V. P.: James W. Gibbs
Dir.-Sales: C. A. McCusker

SAFETY ELECTRICAL EQUIPMENT CORP.
1187 Dixwell Ave., New Haven 14, Conn. (Tel. UN 5-3171)
Purch. Agent: Joseph Prestionni
Indst. Sales Mgr.: Charles Pierce
V. P.-Sales: J. J. Kennedy

SAFEWAY HEAT ELEMENTS, INC.
Middlefield St., Middletown, Conn. (Tel. DIamond 6-6601)
Secy.-Asst. Treas.: Joseph F. D'Rourke
Dir.-Sales: T. A. Dissel

SAFFRAN ENG. CO.
20225 E. 9 Mile Rd., St. Clair Shores, Mich. (Tel. PR 7-5300)
Purch. Agent: Samuel A. Tomoino
V. P. & Sales: B. C. Kosack

CODING
Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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- SAFWAY STEEL PRODUCTS, INC.**
6228 W. State St., Milwaukee 13, Wisc. (Tel. BLuemoond 8-2700)
Purch. Agent: W. F. Coak
R & D Engr.: R. B. Weidner
V. P.-Sales: J. C. Jay
- SAGE ELECTRONICS CORP.**
Country Club Road, East Rochester, N. Y. (Tel. LU 6-8010)
Treas.: A. P. Mills
Pres.: F. D. Sage
- SAGE EQUIPMENT CO., INC.**
30 Essex St., Buffalo, N. Y. (Tel. ELmwood 5242)
Purch.: Charles Taravela
Plant Mgr.: John Haynes S
- SAGE LABS, INC.**
3 Huron Dr., Natick, Mass. (Tel. DLympic 3-0844)
Purch. Agent: William S. Patsos
Sales Mgr.: William J. Kennedy MS, RD
- SAGE-CRAFT, INC.**
Narwich, N. Y. (Tel. 4-6118)
Pres.: Earle R. Sage
- SAGINAW BEARING CO.**
967 S. Water St., Saginaw, Mich. (Tel. PLeasant 2-3169)
Purch. Agent: Robert L. Hamlin
Sales Mgr.: Robert L. Pieschke
- ST. JOHN X-RAY LABORATORY**
Califon, N. J. (Tel. Callfon 49)
Pres.: Herbert R. Isenburger RD
- ST. MARYS CARBON CO.**
W. State St., St. Marys, Pa. (Tel. TErminAl 4-2844)
Dir.-Purch.: C. J. Ehrensberger
V. P.-Sales: L. W. Eberl
- ST. REGIS PAPER CO., PANELYTE DIV.**
Enterprise Ave., Trenton, N. J. (Tel. EXport 2-2181)
Purch. Agent: Frank P. Yaccorino, Sr.
Indsl. Sales Mgr.: John M. Zeler MS
- SAN FERNANDO ELECTRIC MFG. CO.**
1509 1st St., San Fernando, Calif. (Tel. EMpire 1-8681)
Purch. Agent: Ben J. Schenkelberg
Gen. Sales Mgr.: Lyle R. Smith RD
- SANBORN CO.**
175 Wyman St., Waltham 54, Mass. (Tel. TW 4-6300)
Purch. Dir.: E. A. Craddock
V. P.-Sales: A. E. Lonngberg
- SANCOR CORP.**
1661 Franklin Ave., El Segundo, Calif. (Tel. DRegan 8-5069)
Purch. Agent: A. H. Knight
V. P.-Sales: L. H. Sanderfer S, MS, CT
- SANDERS ASSOCIATES, INC.**
95 Canal St., Nashua, N. H. (Tel. TUxeda 3-3321)
Purch. Agent: Chandler Goldthwaite
Dir.-Sales: James I. Chesterley MS, G, CT, TT, RD
- SANDVIK STEEL, INC.**
1702 Nevins Rd., Fairlawn, N. J. (Tel. SWarthmore 7-6200)
Purch. Agent: Robert G. Reveri
Pres.: Carl Hildebrand M
- SANFORD PLASTICS CORP.**
P. O. Box 126, Matawan, N. J. (Tel. L OWell 6-3900) M
- SANGAMO ELECTRIC CO.**
11th & Converse, Springfield, Ill. (Tel. K1 4-6411)
Purch. Agent-Springfield, Ill.: H. C. Chambers
Purch. Agent-Pickens Div., Pickens, S. C.: R. W. Kreppert (Tel. 6311)
Purch. Agent-Ordill Div., Marian, Ill.: Rex McCluskey (Tel. 231)
V. P.-Sales: R. C. Lanphier, Jr. RD
- SANTA ANITA ENGRG. CO.**
2451 E. Colorado Blvd., Pasadena 8, Calif. (Tel. MUrray 1-7441)
Mgr., Prod. & Purch.: Robert Blyth
V. P.-Engrg. & Sales: L. D. Banham
Gen. Mgr.: R. M. Madisetke, Jr. S
- SARAN PROTECTIVE COATINGS CO.**
2415 Burdette Ave., Ferndale 20, Mich. (Tel. LIncoln 4-8303)
Pres.: C. J. Weine
Dir.-Sales: Robert R. Spencer M
- SANTA BARBARA RESEARCH CENTER**
Bldg. 316, Municipal Airport, Goleta, Calif. (Tel. WAdland 7-2331)
Mgr., Comm. Operations: D. T. Shiffman G, TT, RD
- SARGENT ELECTRIC CORP.**
630 Merrick Rd., Lynbrook, N. Y. (Tel. LYnbrook 3-5600)
Purch. Agent: Mike Krutman
Dir.-Sales: Joe Perz M
- SARGENT ENGRG. CORP.**
2533 E. 56th St., Huntington Park, Calif. (Tel. LUdlow 3-4161)
Purch. Agent: C. A. Brock
Asst. Purch. Agent: Tom Chapman
Dir.-Contracts: R. A. Thomas
Dir.-Sales: J. H. Howard S, MS, M, RD
- SARKES TARZIAN, INC., SEMICONDUCTOR DIV.**
415 N. College Ave., Bloomington, Ind. (Tel. EDison 2-1435)
Purch. Agent: Max Robertson
- SAUERISEN CEMENTS CO.**
1045 N. Canal St., Pittsburgh 15, Pa. (Tel. STerling 1-2323)
Purch. Agent: G. W. Read
V. P.-Sales: P. F. Sauerisen M
- SAVAGE-ROWE PLATING CO., INC.**
2152 Portage St., Kalamazoo, Mich. (Tel. FReside 5-0532)
Pres.: Frank K. Savage
V. P.-Sales: A. K. Graham
- SAWYER COATED FABRICS, DIV.-FARRINGTON TEXOL CORP.**
76 Stanley Ave., Watertown 72, Mass. (Tel. WAlnut 6-1200) M
- SAXONBURG CERAMICS, INC.**
Box 157, Saxonburg, Pa. (Tel. FL 2-1566)
Pres.: George Aderhold
Plant Mgr.: J. G. Pabst
Ceramic Engr.: W. C. Stetson M
- SAYLOR ELECTRIC PRODUCTS CORP.**
277 Pierce, Birmingham, Mich. (Tel. JDrdan 6-7122)
Purch.: W. R. Saylor
Sales: B. F. Stiles
- SCALA RADIO CO.**
2814 19th St., San Francisco 10, Calif. (Tel. VA 6-2898)
Purch. Agent: E. M. O'Neill
Dir.-Sales: Bruno Zuccani
- SCAM INSTRUMENT CORP., THE**
1811 Irving Park Rd., Chicago 13, Ill. (Tel. GRaceland 7-7850)
Purch. Agent: E. W. Waller
Sales Mgr.: Rascoe Garrett
- SCANIVALVE CO.**
631 30th St., San Diego 2, Calif. (Tel. BE 4-2090)
Purch. Agent: V. L. Jones
Sales Mgr.: J. C. Pemberton CT, RD
- SCHAEVITZ ENGRG.**
U. S. Rt. 130 & Schaevitz Blvd., Pennsauken, N. J. (Tel. NDrmandy 2-8000)
Purch. Mgr.: Marvin E. Brenner
Dir.-Sales & Mktg.: George E. Merer MS, G, CT, RD
- SCHAFFER AIR INDUSTRIES, INC.**
290 N. Henry St., Brooklyn 22, N. Y. (Tel. EVergreen 3-5300)
Purch.: Bernard Schaffer MS, CT
- RAY A. SCHARER & CO.**
17411 E. Warren, Detroit 24, Mich. (Tel. TUxedo 2-7172)
Purch. Agent: R. C. Colegrave
Sales Mgr.: Ray A. Scharer M
- SCHAUER MFG. CORP.**
4500 Alpine Ave., Cincinnati 42, O. (Tel. SYcamore 1-3030)
Purch. Agent: David T. Face
V. P.-Sales: S. E. Wright
- SCELLENS-TRUE CORP.**
Pondmeadow Rd., Ivoryton, Conn. (Tel. ESsex-South 7-8248)
V. P.: E. Peter Schellens
Pres.: E. L. Schellens PS
- SCHENECTADY VARNISH CO., INC.**
Congress St. & 10th Ave., Schenectady 3, N. Y. (Tel. DICKens 6-2354)
Order Service Mgr.: Marley Wales
V. P.-Mktg.: John B. Emans M
- SCHLEGEL MFG. CO.**
1555 Jefferson Rd., P. D. Box 197, Rochester 1, N. Y. (Tel. HILLSide 5-5110)
Dir.-Purch.: James Doris
Asst. Purch. Agent: Donald Nesbitt
Sales Mgr.: William K. Sittig
- D. A. SCHULTZ CO.**
801 S. E. 8th St., Minneapolis 14, Minn. (Tel. FEderal 9-7701)
Purch. Agent: Marge Knight
Sales Engr.: Burton Dahlsten
- SCHUTTE & KOERTING CO.**
Commwells Hts., Bucks Co., Pa. (Tel. M ERcury 9-0900)
Purch. Agent: C. Alsenzter
V. P.-Sales: F. L. Seibold
- SCHWEBER ELECTRONICS**
60 Herricks Rd., Mineola, L. I., N. Y. (Tel. PLaneer 6-6520)
Buyer: George P. Heller
Sales: Jack Laskin
- SCIACKY BROS., INC.**
4915 W. 67th St., Chicago 38, Ill. (Tel. PDrtsmouth 7-5600)
Purch. Agent: John Bilik
Chief Appl. Engr.: William Farrell RD
- SCIENTIFIC ELECTRIC INC.**
105-119 Monroe St., Garfield, N. J. (Tel. PRescott 7-0507)
Pres.: John Sedlacsik
Gen. Mgr.: C. P. Breen
V. P.-Sales: John Sedlacsik, Jr. M, RD
- SCIENTIFIC ENGRG. CO.**
653 11th Ave., New York 36, N. Y. (Tel. CDlumbus 5-7286)
Purch. Agent: Gilbert Goadgion
Sales Mgr.: R. J. Black RD
- SCIENTIFIC ENGRG. LABS., INC.**
1510 Sixth St., Berkeley 10, Calif. (Tel. LA 6-2772)
Purch. Agent: Mrs. Alberta Proteau
Sales Mgr.: A. D. Wicksstrom
Pres.: G. C. McFarland CT, RD
- SCIENTIFIC & PROCESS INSTRUMENTS DIV.-BECKMAN INSTRUMENTS, INC.**
2500 Fullerton Rd., Fullerton, Calif. (Tel. TRoian 1-4848)
Supvr.-Purch.: Kenneth Bruner
Sales Mgr., Scientific: John Manypenny
Mktg. Mgr.: Roy Brown CT
- SCIENTIFIC RADIO PRODUCTS, INC.**
2303 W. 8th St., Loveland, Colo. (Tel. NDrmandy 7-2261)
Treas. & Purch. Agent: G. E. Ulfers
V. P. & Sales Mgr.: G. C. Follmer M, G, TT
- SCIENTIFIC RADIO SERVICE**
4301 Sheridan St., University Park, Hyattsville, Md. (Tel. WArfield 7-0535)
Owner: Harry D. Eisenhauer M
- SCIENTIFIC-ATLANTA, INC.**
2162 Piedmont Rd., N. E., Atlanta 9, Ga. (Tel. TRinity 5-7291)
Buyer: George Roy
Chief Mechan. Engr.: S. F. Hutchins
Chief Elect. Engr.: C. H. Currie
Sales Mgr.: William H. Bradley CT, TT, RD
- SCINTILLA DIV., BENDIX AVIATION CORP.**
Delaware Ave., Sidney, N. Y. (Tel. L OWell 3-9511)
Purch. Agent: W. B. Wilson
Dir.-Sales & Adv.: D. B. Morse MS, CT
- SCIOTO SIGN CO.**
370 Vine St., Kenton, O. (Tel. 2-1146)
Pres.: Collins M. Shaw
Purch. Agent: K. Buck
Sales Mgr.: B. Deardorff
- SCOPE CO., INC., THE**
P. O. Box 56, Monsey, N. Y. (Tel. ELmwood 6-6339)
Dir.-Purch.: M. Silver (Diamond 3-3070)
Pres.: M. Rickard CT
- H. H. SCOTT, INC.**
111 Powder Mill Rd., Maynard, Mass. (Tel. TWIn Daks 7-8801)
Sales Mgr.-Instr. Div.: E. G. Dyett, Jr.
Proc. Mgr.: I. C. Whittemore, Jr. CT, RD
- H. M. SCOTT CO., THE**
396 S. Pacific St., Stamford, Conn. (Tel. FReside 8-4259)
Purch. Dept.: H. M. Scott, Jr.
Prod. Supp.: P. Blasko M

SCOTT AVIATION CORP.
Erie St., Lancaster, N. Y. (Tel. REgent 5100)
Purch. Agent: K. J. Albrecht
V. P.-Sales & Finance: R. D. Pollock MS, RD, HSE

SCOVILL MFG. CO.
99 Mill St., Waterbury, Conn. (Tel. PLoza 4-1171)
V. P. & Gen. Mgr.: P. E. Fenton
Sales: R. Woodacre M

SCREW CORP.
157 N. Rivergrade Rd., City of Industry, Calif.
(Tel. EDgewood 8-5501)
Pres.: F. Muhn
V. P.: K. R. Brooks
Secy.-Treas.: H. Wechsler S, P5, MS, G

SCREW PRODUCTS CORP. OF AMERICA
5211 Southern Ave., South Gate, Calif. (Tel. LORain 6-5141)
Purch. Agent: Albert Jenkins
Sales Mgr.: Walter Cleary

SEAL ELECTRIC SWITCH & RELAY CORP.
6025 N. Keystone Ave., Chicago 46, Ill. (Tel. KEystone 9-7502)
Purch. Agent: J. C. Miller
Sales Mgr.: E. M. Paradise

SEALLECTRO CORP.
139 Hoyt St., Mamaroneck, N. Y. (Tel. DW 8-5600)
Purch. Agent: Ralph Law
V. P. & Dir.-Sales: George E. Mohr M

***SEALMASTER BEARING DIV., STEPHENS-ADAMSON MFG. CO.**
Ridgeway Ave., Aurora, Ill. (Tel. AUrora 2-4311)
Purch. Agent: K. L. Johnson
Sales Mgrs.:
Sealmaster Bearings: C. B. Hurd, V. P.
Engr. Div.: E. J. Renner, V. P.
Standard Products Div.: R. H. Humm
Speedwalk Div.: R. O. Schaeffer
Export Dept.: Rager Barton M
*(See advertisement this issue)

SEALOL CORP.
460 Post Rd., Providence 5, R. I. (Tel. STuart 1-4700)
Purch. Agent: Nathaniel Burnham
Pres.: Clement W. Williamson M, RD

SEAL-PEEL, INC.
775 Stephenson Hwy., Royal Oak 3, Mich. (Tel. JUNiper 8-1055)
V. P. & Purch. Agent: Frank Evans
Pres.: Arthur Aoron

SEALTRON CORP.
Reading Rd. at Amity, Cincinnati 15, Ohio (Tel. VALley 1-7444)
Purch. Agent: Eugene O'Connell
Gen. Mgr.: J. B. Hamoelle M

SEAMAN PRODUCTS, DIV.-SEAMAN PAPER CO.
13001 Bradley, Sylmar, Los Angeles, Calif. (Tel. EMpire 7-1881) S, MS, M

SEAMLESS PRODUCTS CO., INC.
126 11th Ave., New York 11, N. Y. (Tel. ALgonquin 5-2152)

SECO MFG. CO.
5015 Penn Ave., S., Minneapolis 19, Minn. (Tel. WALnut 6-4545)
Pres. & Chief Engr.: E. A. Bransen
Sales Mgr.: L. P. Henaman

SECODE CORP.
555 Minnesota St., San Francisco 7, Calif. (Tel. MA 1-2643)
Purch. Mgr.: H. Gross
Buyer: R. Abeyta
Plant Mgr.: L. J. Naper
Gen. Mgr.: I. Herman MS, CT, TT, RD

SECON METALS CORP.
7 Intervale St., White Plains, N. Y. (Tel. WHiteplains 9-4757)
Pres.: Eugene Cohn M

SEDCO
814 W. Hyde Park Blvd., Inglewood 3, Calif. (Tel. OR 8-2264)
Purch. Agent: E. E. Parker
V. P. & Dir.-Sales: W. L. Heckerman PS, MS

SEEBURG CORP., THE
1500-38 N. Dayton St., Chicago 22, Ill. (Tel. Michigon 2-0800)
Purch. Agents: Walter Metcalf & Ritchie Tredwell
Buyers: Walter Korzun, Daniel Dolce & George Keller
Contract Adm.: W. Cummins MS, G, TT

SEEGER-WILLIAMS, INC.
4 Norman St., Bridgeport 5, Conn. (Tel. EDison 5-5123)
V. P. & Dir.-Purch.: Erwin F. Welch
Pres. & Dir.-Sales: T. W. Becker

SEISCOR, DIV.-SEISMOGRAPH SERVICE CORP.
6200 E. 41st St., Box 1590, Tulsa 1, Okla. (Tel. RIVERSide 3-1381)
Purch. Agent: M. G. Steil
Asst. Purch. Agent: T. G. Burton
Gen. Mgr.: J. E. Hawkins MS, CT, RD

SELAS CORP. OF AMERICA
Dresher, Pa. (Tel. MITchell 6-6600)
Pres.: F. D. Hess
Purch. Agent: J. E. Kerns RD

SELLSTROM MFG. CO.
Hwy. 53 at U. S. 14, Palatine, Ill. (Tel. FLanders 8-2000)
Dir.-Purch.: H. A. Kline
Sales Mgr.: Lester Gooch

SEL-REX CORP.
75 River Rd., Nutley 10, N. J. (Tel. NDRth 7-5200)
Branch Offices: 1629 S. 55th Ave., Chicago, Ill. (Tel. DL 6-4400); 2180 Colorado Ave., Santa Monica, Calif. (Tel. EX 4-6771)
Purch. Agent: J. R. Ezzo
V. P.-Sales: S. S. Wilson M, RD

***SEMICONDUCTOR DIV., RAYTHEON CO.**
215 First Ave., Needham Hgts., Mass. (Tel. HILLcrest 8-4700)
Sales Mgr.: H. F. Schunk
Purch. Agent: P. L. Gregory
Purch. Agent: P. Erickson, 150 California St., Newton, Mass. (Tel. DEcatuR 2-7177) M, RD
*(See advertisement this issue)

SEMI-ELEMENTS, INC.
Saxonburg Blvd., Saxonburg, Pa. (Tel. FLanders 2-2548)
Pres.: Joseph V. Fisher
Asst. Secy.: Charles Laine M, RD

SEMI-METALS, INC.
133-27 91st Ave., Richmond Hill 18, N. Y. (Tel. AXtel 7-0200)
Purch. Agent: A. Jacobson
Gen. Sales Mgr.: R. A. Jewett M

SEMINOLE ASPHALT REFINING, LTD.
St. Marks, Fla. (Tel. 441)
Supt.: H. H. Clardy
Mgr.: M. J. Lewis M

SENSITIVE RESEARCH INSTRUMENT CORP.
310 Main St., New Rochelle, N. Y. (Tel. BE 5-2300)
Purch. Agent: Miss Helen Tripler
Chief Engr.: H. Russell Brownell
Mechanical Engr.: William A. McNulty
V. P. & Sales Mgr.: Marvin I. Steinberg PS, MS, CT, TT, RD

SEQUOIA WIRE & CABLE CO., SUB.-ANACONDA WIRE & CABLE CO.
2201 Bay Rd., Redwood City, Calif. (Tel. EMerson 9-0331)
V. P.-Sales: Bruce Van Wagner
Purch.: P. Panzarella

SERDEX, INC.
12 Bowdin Sq., Boston 14, Mass. (Tel. CA 7-7160)
Purch. Agent: Miss M. A. Turell
Dir.-Sales: G. Santo

SERVICAR CO.
1841 Flower St., Glendale, Calif. (Tel. CH 5-5161)
Purch. & Material: Fabian Farero
Gen. Sales Mgr.: Robert R. Robertson PS, MS, M

SERVICE STEEL DIV.
P. D. Box 532, Detroit 32, Mich. (Tel. TWINbrook 3-0350) M

SERVO CONSULTANTS LTD.
80 Shore Rd., Port Washington, N. Y. (Tel. PD 7-7700)
Sales Mgr.: Sy Bosworth

SERVO CORP. OF AMERICA
111 New South Rd., Hicksville, N. Y. (Tel. WElls 8-9700)
Purch. Agent: S. Wojcic
Mktg. Mgr.: A. Freed MS, CT, TT, RD

SERVOMECHANISMS, INC.
12500 Aviation Blvd., Hawthorne, Calif. (Tel. OREGon 6-7841)
Material Mgr.: W. Foulds
Purch. Suprv.: H. Muller
Purch. Agent: R. McGraw
Customer Liaison Mgr.: C. H. Hartley MS, G, CT, TT, RD

SERVONIC INSTRUMENTS, INC.
640 Terminal Way, Costa Mesa, Calif. (Tel. MIDway 6-2427)
Buyer: Earl Barough
Sales Mgr.: Ray A. Steckmesser

SERVO-TEK PRODUCTS CO.
1086 Gaffle Rd., Hawthorne, N. J. (Tel. HAWthorne 7-0190)
Purch. Agent: C. DePuy
Dir.-Sales: J. L. Duffy MS, G, CT, TT, RD

SERYWELL PRODUCTS CO.
6541 Euclid Ave., Cleveland 3, Ohio (Tel. EXpress 1-0497)
Dir.-Purch.: I. W. McCulley
Sales Mgr.: R. McCulley

J. H. SESSIONS & SON
Riverside Ave., Bristol, Conn. (Tel. LUDlow 2-3127)
Pres.: Paul B. Sessions
Dir.-Sales: James McC. Sessions M

SEYMOUR MFG. CO., THE
15 Franklin St., Seymour, Conn. (Tel. TUXedo 8-2541)
Dir.-Purch.: D. Schemwick
V. P.-Sales: G. T. Underhill M

SEYMOUR PRODUCTS CORP., THE
Seymour, Conn. (Tel. TUXedo 8-2511)
V. P. & Gen. Mgr.: John B. Lightfoot

SHAFFER BEARINGS, CHAIN BELT CO.
Belmont at Curtiss St., Downers Grove, Ill. (Tel. WOODland 9-1770)
Purch. Agent: Robert L. Kaiser
Sales Mgr.: Robert W. Lange

SHALLCROSS MFG. CO.
Preston St., Selma, N. C. (Tel. WDArdawn 5-2341)
Purch.: Hal Dildham
Sales Mgr.: D. M. D'Hallaran MS, G, TT

SHALLITE, INC.
128 W. First Ave., Raselle, N. J. (Tel. CHEstnut 5-9800)
Purch. Agent: George Kalousis
Pres. & Sales Mgr.: C. K. Krause

W. S. SHAMBAN & CO.
11617 W. Jefferson Blvd., Culver City, Calif. (Tel. UPtan 0-6877)
Purch. Agent: Haward Drake
Sales Mgr.: Carl Wolff

SHANNON LUMINOUS MATERIALS CO., AFFILIATE-CURTISS-WRIGHT CORP., PRINCETON DIV.
7356 Sonto Manica Blvd., Hollywood 46, Calif. (Tel. HDIllywood 7-5509)
Purch. Agent: Iris M. Guider
Admin. Asst.: T. Hook
Owner: James R. Alburger M, RD

SHARON STEEL CORP.
Sharon, Pa. (Tel. DI 6-4141)
V. P.-Purch.: J. D. Neuman
Purch. Agent: G. R. McQuiston
V. P.-Comm.: W. J. McCune M

SHARPLES CORP., THE
2300 Westmoreland St., Philadelphia 40, Pa. (Tel. BALDwin 8-9100)
Purch. Agent: W. M. Neall
Sales Mgr.: Allen R. Greenlaw

SHAW BURNER CO.
140 E. Pine St., Columbus, Kans. (Tel. 194)
Pres.: Walter Shaw S, PS, MS

SHAW PROCESS DEVELOPMENT CORP., DIV.-BRITISH INDUSTRIES CORP.
80 Shore Rd., Port Washington, N. Y. (Tel. PD 7-7700)
Pres.: Leonard Carduner
Mktg. Dir.: Arthur Gasman
Gen. Mgr.: Irwin Lubalin M, RD

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	Propulsion System PS
	Missile Support MS
	Materials M
	Guidance G
	Checkout & Testing CT
	Tracking & Telemetering TT
	Research & Development RD
	Human Space Engineering HSE

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SHEFFIELD CORP., THE, SUB-BENDIX AVIATION CORP.
Box 893, 721 Springfield St., Dayton 1, O. (Tel. Clearwater 4-5377)
Purch. Agent: Joseph Geyer

SHELL CHEMICAL CO., INDUSTRIAL CHEMICAL DIV.
110 W. 51st St., New York 20, N. Y. (Tel. JdJudson 6-5060)
Dir.-Purch.: W. H. Bratches
Dir.-Sales: W. Q. Mooney

SHELL CHEMICAL CO., PLASTICS & RESINS DIV.
110 W. 51st St., New York 20, N. Y. (Tel. JdJudson 6-5060)
Gen. Mgr.: W. H. Bratches (Tel. JdJudson 6-5000)
Mgr.: D. P. Jones

SHELTERED WORKSHOPS
2521 5th St., Santa Monica, Calif. (Tel. EXbrook 9-7741)
Factories: Plant #1, 2521 5th St., Santa Monica, Calif.; Plant #2, 10835 Hawthorne Blvd., Inglewood 2, Calif.
Gen. Mgr.: J. E. Anthony
S, PS, MS, M, G, CT, TT, RD, HSE

SHENANGO FURNACE CO., THE, CENTRIFUGALLY CAST PRODUCTS DIV.
W. Third St., Dover, O. (Tel. 4-2114)
Purch. Agent: Leonard Snyder
Sales Mgr.: K. L. Jansen

SHERIDAN-GRAY, INC.
24701 Crenshaw Blvd., Torrance, Calif. (Tel. DAVenport 6-6702)
Purch. Agent: Robert L. Sinner
V. P.-Sales: Charles W. Frazee

SHERMAN INDUSTRIAL ELECTRONICS CO., DIV.-ELECTRONIC DEVELOPMENT INC.
Box 813, Marylyn Ave., State College, Pa. (Tel. ADams 8-0061)
Dir.-Purch.: H. H. Stritzle
Chief Engr.: G. W. McCook
Sales Mgr.: G. H. Seeman

SHIELDING, INC.
514 N. Read Ave., Box 110, Riverton, N. J. (Tel. TALmadge 9-1433)
Gen. Mgr.: W. J. Ryan
V. P.-Sales: T. P. Reath
Purch. Agent: J. H. Chant, Rte. 130, Riverton, N. J. (Tel. TALmadge 9-4877)

SHOCKLEY TRANSISTOR CORP.
1117 California Ave., Palo Alto, Calif. (Tel. DAVenport 1-2121)
Mktg. Agent: Frank Newman
Purch. Agent: Jack Carlson

SHUR-LOK CORP.
879 S. East St., Anaheim, Calif. (Tel. PRospect 4-2773)

SIBLEY CO., THE
Bridge St., Haddam, Conn. (Tel. DIamond 5-4523)
Purch. Agent: William James
Asst. Purch. Agent: Charles Gates
Prod. Mgr.: Phillip Geffken
Sales Mgr.: Daniel Dewey

SIBLEY MACHINE & FOUNDRY CORP.
206 E. Tutst St., South Bend 23, Ind. (Tel. AT 8-4611)
Purch. Agent: E. A. Evans
Sales Mgr.: William H. Voll

SIER-BATH GEAR & PUMP CO., INC.
9252 Hudson Blvd., N. Bergen, N. J. (Tel. UNION 9-3000)
Purch. Agent: Martin Naclerio
Sales Mgr.: J. A. Glaser

SIERRA ELECTRONIC CORP., DIV.-PHILCO CORP.
3885 Bohannon Dr., Menlo Park, Calif. (Tel. DAVenport 6-2060)
Purch. Agent: William R. Smith
Sales Mgr.: C. M. Volkland

SIERRA ENGRG. CO.
123 E. Montecito Ave., Sierra Madre, Calif. (Tel. ELgin 5-3318)
Purch. Agent: L. Shepherd

SIERRACIN CORP., THE
903 N. Victory Blvd., Burbank, Calif. (Tel. VICTORIA 9-2421)
Purch. Agent: Miss Helen Tyle
Sales Mgr.: F. J. Corrigan

SIERRA-SCHROEDER CONTROLS, DIV.-IDAHO MARYLAND MINES CORP.
4310 San Fernando Rd., Glendale 4, Calif. (Tel. CHapman 5-5563)
Dir.-Material: Roy Williams
Purch. Agent: Walter Henderson
Dir.-Customer Relations: Robert O. Borst

SIGHTMASTER CORP.
50 Aleppo St., Providence, R. I. (Tel. TEMple 1-6200)
Purch. Agent: Frank Spinard
Sales Mgr.: Gilbert Glass

SIGMA INSTRUMENTS, INC.
170 Pearl St., S. Braintree, Mass. (Tel. VICTOR 3-5000)
Purch. Mgr.: Alfred E. Foley
Purch.: Kjell Pehrson
Sales Mgr.: R. B. Wolf

SIGMAMOTOR, INC.
3 N. Main St., Middleport, N. Y. (Tel. RE 5-3611)
Pres.: Van G. Hungerford
Gen. Mgr.: Phillip J. Slattery

SIGNAL EQUIPMENT CO., INC.
2706 3rd Ave., Seattle 1, Wash. (Tel. MAIn 4-4712)
V. P. & Dir.-Purch.: H. B. Lander
Pres. & Dir.-Sales: J. F. Johnson

SILENT HOIST & CRANE CO.
841 63rd St., Brooklyn 20, N. Y. (Tel. BEachview 8-2525)
Purch. Agent: Anthony Yuzzolino
Sales: M. M. Botnick

SILICON TRANSISTOR CORP.
150 Glen Cove Rd., Carle Pl., Long Island, N. Y. (Tel. PLioneer 2-4100)
Purch. Agent: Joseph Zack
Sales Mgr.: Laurence Le Bow

SILICONE PRODUCTS DEPT., GENERAL ELECTRIC CO., DEPT. C
Waterford, N. Y. (Tel. ADams 8-3330)
Mgr.-Materials: Robert Treat
Purch. Agent: Joseph Cox
Mgr.-Sales: Thomas J. Morch

SILICONE SEALS, INC.
3694 Milwaukee Ave., Chicago 41, Ill. (Tel. AVenue 2-3787)
Secy.: Robert Shattow
Sales: Leonard E. Brown

SILICONES DIV.-UNION CARBIDE CORP.
30 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 6-1700)
Purch. Agent: R. G. Koehler, Long Reach Plant, P. O. Box 180, Sistersville, W. Va. (Tel. OLdfield 2-3211)
Sales Mgr.: C. T. Schieman, Jr.

SILLCOCKS-MILLER CO.
460 W. Parker Ave., Maplewood, N. J. (Tel. SOuth Orange 2-6171)
Purch. Dir.: R. W. Davis
V. P.: J. F. Herslow
Dir.-Mktg.: A. E. Wunderlich

SIMMONDS AEROCESSORIES, INC.
105 White Plains Rd., Tarrytown, N. Y. (Tel. MEAdford 1-7500)
Purch. Agent: Grant W. Meister
Gen. Contracts Mgr.: H. C. Pringle

SIMMONS FASTENER CORP.
P. O. Box 1985, Albany 1, N. Y. (Tel. HO 2-5431)
V. P. & Gen. Mgr.: Harry H. Rose
Asst. Mgr.: Charles H. Palmer
Prod. Mgr.: Kenneth MacDonald

SIMMONS SAW & STEEL CO.
470 Main St., Fitchburg, Mass. (Tel. DIamond 3-3731)
Purch. Agent: Louis A. Little, Intervale Rd., Fitchburg, Mass.
Gen. Sales Mgr.: Clyde N. Mansour

SIMS CASTINGS CORP.
2174 E. Erie Blvd., Syracuse 3, N. Y. (Tel. GRANite 2-2489)
Pres. & Dir.-Purch.: Robert L. Sims
Secy.: Richard D. Sims
Dir.-Sales: C. L. Sims

SIMPSON ELECTRIC CO.
5200 W. Kinzie St., Chicago 44, Ill. (Tel. ESTebrook 9-1121)
Purch. Agent: James Werner
Dir.-Sales: M. O. Buehring

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Sales Mgr.: Howard C. Brownell

SINCLAIR REFINING CO.
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454 Morgan Ave., Akron, Ohio (Tel. PR 3-6623)
Dir.-Purch.: R. R. Stull
Sales Mgr.: J. J. Mudd

SINGER MILITARY PRODUCTS DIV., THE SINGER MFG. CO.
149 Broadway, New York 6, N. Y. (Tel. Dlgby 9-1200)
Div. Mgr.: F. W. Howells

SINTERCAST DIV., CHROMALLOY CORP.
134 Woodworth Ave., Yonkers, N. Y. (Tel. YONkers 9-6767)
Dir.-Purch.: Fred Fuld
Prod. Mgr.: Stuart Tarkon

SIRVALCO SYSTEMS CORP.
43 Kendrick St., Wrentham, Mass. (Tel. EVERgreen 4-3121)
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Dir.-Purch.: T. J. Bogarozy
V. P.: V. F. Siravo
Dir.-Sales: E. R. Bogarozy

SITTLER CORP.
18 N. Ada St., Chicago 7, Ill. (Tel. SEEley 3-4616)
V. P.-Purch.: S. J. Lanasa

SIZE CONTROL CO., DIV.-AMERICAN GAGE & MACHINE CO.
2500 W. Washington Blvd., Chicago 12, Ill. (Tel. MO 6-6710)
Sales Mgr.: E. E. Olds
Purch. Mgr.: P. J. Sommer, Jr.

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415 Station St., Cranston 10, R. I. (Tel. HO 1-8220)
Owner: C. Sjoberg, Sr.

SKAGGS FREIGHT LINES, INC.
851 Brookhurst Dr., Dallas 18, Texas (Tel. DAVIS 8-1386)
Pres.: A. G. Jacobson

SKIATRON ELECTRONICS & TELEVISION CORP.
180 Varick St., New York, N. Y. (Tel. WAtkins 4-7060)
Purch. Agent: N. J. Ackerman
Sales Mgr.: Carl Machover

SKIDMORE-WILHELM MFG. CO.
442 Green Rd., Cleveland 21, Ohio (Tel. IVanhoe 1-4774)
Pres.: J. W. Wilhelm
Dir.-Purch.: Carl Sutherland

SKINNER ELECTRIC VALVE DIV., THE SKINNER CHUCK CO.
95 Edgewood Ave., New Britain, Conn. (Tel. BALdwin 5-6421)
Purch. Agent: Clifford Nelson
V. P.-Sales: D. M. Stevenson

SKINNER ENGINE CO.
337 W. 12th St., Erie 6, Pa. (Tel. GLendale 2-3661)
Purch. Agent: M. E. Davis
V. P.-Sales: K. W. Van Eman

SKOTTIE ELECTRONICS, INC., SUB-ASTRON CORP.
204 Bridge St., Peckville, Pa. (Tel. HUNter 9-4726)

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River Rd., Port Jervis, N. Y. (Tel. 3-2241)
Sales Mgr.: W. F. MacCallum
Purch. Agent: B. E. Marchant
V. P.: Robert L. Weill

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203 W. Thomas St., Seattle 99, Wash. (Tel. ATwater 4-8420)
Project Engr.: Benno Persitz (Tel. ATwater 3-6941)

SKYLINE PRODUCTS, INC.
819 Grand Blvd., Deer Park, N. Y. (Tel. DEer Park 2-8644)
V. P.-Sales: Thomas A. Perry
Buyer: John Conning
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831 W. Fayette St., Syracuse 4, N. Y. (Tel. GR 8-3195) also West Coast Div.: 1022 Raymond Way, Anaheim, Calif. (Tel. LA 6-3341)
Purch. Agent: A. Vespo (Tel. GR 8-3195)
V. P.-Sales: Robert Schaller (Tel. GR 8-3195) MS, CT

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Sales Mgr.: Chuck Gehrke G

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Pres.: R. R. Cook

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Purch. Agent: Lee Goddard
Sales Dir.: Charles M. Smillie

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P. O. Box 584, 3533 N. 27th St., Milwaukee, Wisc. (Tel. Uptown 3-3000)
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Purch. Dept.: J. E. Borchert, T. J. Pos & L. H. Lennort
Dir.-Defense Products: H. D. Bomes

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Buyer: J. E. Robinson
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Dir.-Purch.: Arthur R. Morrow CT

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Purch. Agent: George Ceglar
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SMITH-GATES CORP., THE
P. O. Box 7, Farmington, Conn. (Tel. ORchard 7-2657)
Purch. Agent: Richard L. Cozens
V. P.-Sales: Howard C. Smith M

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572 Communipaw Ave., Jersey City 4, N. J. (Tel. Henderson 3-0076)
Gen. Mgr.: H. M. Silver
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8154 28th Ave., Kenosha, Wisc. (Tel. OL 4-8681)
Dir.-Purch.: Frank A. Tetzloff
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V. P.-Sales: Leonard M. Clark PS, MS, CT, TT
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Works Mgr.: H. A. Reil
Appl. Eng.: P. E. Hills
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Purch. Agent: A. E. Neuhauser
V. P.-Sales: E. Huling M

SOLID PROPULSION OPERATIONS, ROCKETDYNE DIV., NORTH AMERICAN AVIATION, INC.
Box 548, McGregor, Texas (Tel. GR 5-2811)
Mgr., Material: R. S. Mulligan
Purch. Agent: R. C. Terry
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SOLO FOUNDRY, INC.
7370 SOM Ctr. Rd., Solon, O. (Tel. CHurchill 8-5304)
Purch. Agent: H. A. Lucas
Dir.-Sales: George N. Wright

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94 Baldwin Ave., Waterbury, Conn. (Tel. PLozo 6-8321)
Purch. Agent: William Joy
Sales Mgr.: Claude S. Speicher M

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185 W. Schoolhouse Lane, Philadelphia 44, Pa. (Tel. Vctor 3-3606)
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Pres. & Dir.-Sales: Harold Weinberg MS, CT

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377 Tumpike, S. River, N. J. (Tel. CLifford 4-5253)
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Sales Mgr.: Martin L. Roth S, M, RD

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1514 Drover St., Indianapolis, Ind. (Tel. MELrose 2-8411)
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Purch. Agent: George Leiendecker
Buyer: Sam Salatch
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Mgr.-Field Repres.: L. E. Bass PS, MS, G, RD

SOUTHCO DIV., SOUTH CHESTER CORP.
Lester, Pa. (Tel. LE high 4-1800)
Purch. Agent: C. R. Hirzel
Gen. Mgr. & Sales: T. R. Dunlevy M

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150 W. Cypress Ave., Burbank, Calif. (Tel. VICTorio 9-3193)
Purch. Agent: R. A. Hirst
Sales Mgr.: George E. Gonsell PS, MS, G, RD, HSE

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408 Pendleton St., Columbia, S. C. (Tel. ALPine 6-0651)
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1705 S. Mountain Ave., Monrovia, Calif. (Tel. ELLiott 8-0181)
Pres. & Gen. Mgr.: K. V. Hockman S, M

SOUTHWEST RESEARCH INSTITUTE
8500 Culebro Rd., San Antonio, Texas (Tel. GEneral 2-5221)
Asst. to Pres., Indsl. Liaison: S. H. Simpson, Jr.
Treas., Contracts: A. C. Hulen RD

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10201 Westheimer St., P. O. Box 22187, Houston 27, Texas (Tel. HOnestead 5-3471)
Purch. Agent: T. C. Woodell
Buyer, Mil. Electronics: Jack Folaure
Buyer, Mech. & Misc.: C. Brack
Gen. Mgr., Mktg.: Robert O. Vaughan MS, CT, TT, RD

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Purch. Agent: Eugene M. Gerrard
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Sales Mgr.: J. H. Griffin M

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Sales Admin.: Russell E. Travis, Jr. MS, RD

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P. O. Box 5175, Dallas 22, Texas (Tel. BR 6-5121)
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V. P.-Contracts: Ellie Jones S, MS, CT, RD

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Mgr., Proc.: John E. Peterson
Mgr., Material: Fran M. Brown
Mgr., Subcontracts: Robert J. Koufman
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2450 Hunting Park Ave., Philadelphia 32, Pa. (Tel. BAldwin 5-9100)
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Purch. Agent, Hunting Park Plant: W. G. Sutter
Sales Mgr., SpaceAtomics Div.: W. H. Knowles, Jr. S, MS, RD

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Dir.-Purch.: Alex Haberstrah

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P. O. Box 107, Dover, O. (Tel. DOver 4-2380)
Plant Mgr.: C. M. Storky
Sales Engr.: Harry F. Burkholder
Asst. Sales Mgr.: Roy Stahl M

SPALDING FIBRE CO., INC.
310 Wheeler St., Tonawanda, N. Y. (Tel. JACKson 2000)
Purch. Agent: W. E. Hutchins
V. P.-Mktg.: W. R. Gilsdorf M

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3000 Arlington Blvd., Falls Church, Va. (Tel. JEFFerson 4-6000)
Dir.-Purch.: C. K. Croggs
Purch. Agents: W. Brodbery & J. Rooney MS, M, RD

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Rodnor-Chester Rd., Rodnor, Pa. (Tel. MU 8-8000)
Mgr.-Subcontracting: H. Dihockus
Mgr.-Sales: E. Bald G, RD

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Purch. Agent: George Chadwick
V. P.-Sales: John C. Sloucum RD

SPECIALTIES MFG. CO., INC.
125 Bruce Ave., Stratford, Conn. (Tel. EDison 7-4429)
Purch. Agent: J. J. Zimmer
Sales Mgr.: A. I. Zimmer

SPECIALTY AUTOMATIC MACHINE CORP.
80 Cambridge St., Burlington, Mass. (Tel. BR 2-0800)
V. P.: N. K. Donoghay

SPECIALTY ELECTRONICS DEVELOPMENT CORP.
115 Eileen Way, Syosset, N. Y. (Tel. WAInut 1-5200)
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Purch. Agent, Machined Parts: Robert Reinstein
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250 E. Third St., Mount Vernon, N. Y. (Tel. MD 8-1378)
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 Mgr.-Applications Engr.: Edward J. Wamer MS, CT, TT, RD

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 Prod. Mgr.: Albert A. Kusch, Jr.
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 Purch. Agent: Donald D. Lang
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 Buyers: Ray Lohr & Dennis Minor
 Sales Mgr.: William J. McClenahan G, CT, TT, RD

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 Buyer, Subcontracts: J. V. Wilson
 Buyers: C. R. Keith, H. W. Peters, T. R. Rutledge
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 Purch. Supvr.: Ronald Stevenson
 Mktg. Mgr.: Arthur M. Varnum

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 Sales Mgr.: A. D. Travis M

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 V. P.-Sales: George F. Farley S

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 Sales Mgr.: A. J. Renz M

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 Sales Mgr.: Joseph Pelej M

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 V. P.: R. D. Dppenheim M

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500 Maple St., Belding, Mich. (Tel. 1500)
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 V. P. & Sales Mgr.: Paul H. Dillow M

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North Wales, Pa. (Tel. DXbow 9-4871)
 Purch. Agent: R. F. Farrington
 Engrg. Sales Mgr.: John F. Guzewicz S, MS, TT

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 Controller: F. K. Olson
 Sales Mgr.: W. W. Dempsey S, PS, RD

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61 Washington Ave., Carlstadt, N. J. (Tel. GENEva 8-1500)
 Asst. Purch. Agent: L. H. Gasperoni
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STANDARD ELECTRIC CO., INC.

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 Pres.: Leo Dubinski

STANDARD ELECTRIC TIME CO., THE

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 Purch. Agent: K. Brunk M

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 Sales Mgr.: R. E. Myers

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910 S. Michigan Ave., Chicago 80, Ill. (Tel. HArrison 7-9200)
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 Asst. to Gen. Mgr., R&D: J. D. Nessley

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 Asst. Dir.-Purch.: R. C. Gibbs
 Sales Mgr., Aircraft/Missile Div.: J. P. Villo M

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V. P.-Sales: J. R. Canta

STANDARD SAFETY EQUIPMENT CO.
 431 N. Quentin Rd., Palatine, Ill. (Tel. FLanders 9-1400)
Purch. Agent: A. R. Bray
V. P.-Sales: George G. Dickens

STANDARD STEEL CORP.
 Los Angeles 58, Calif.; Lowell, Mass.; Decatur, Ill.
Dir.-Purch.: Frank B. Mulford, Los Angeles
Purch. Agent: Joseph MacArdle
Purch. Agent: W. H. Reinhold (Tel. Decatur 8-2103)
Dir.-Sales: Kenneth Thies, Los Angeles
Dir.-Sales: C. N. Rees, Lowell PS, MS

STANDARD STEEL CORP., CAMBRIDGE DIV.
 Industrial Park, Lowell, Mass. (Tel. GI 4-7881)
Purch. Agent: Joseph MacArdle
Sales Mgr.: William F. Dolke PS, MS

STANDARD STEEL WORKS, DIV.-BALDWIN-LIMA-HAMILTON CORP.
 Bumham, Pa. (Tel. LEwistown 8-7871)
Purch. Agent: J. M. Dinick
Gen. Sales Mgr.: F. E. Greger M

STANDARD STEEL WORKS, INC.
 16th & Howell St., N. Kansas City, Mo. (Tel. GRand 1-3200)
Purch. Agent: Paul Rankin
Asst. Purch. Agent: Edward Crenshaw
Buyer: Elmer Rosenbaugh
Dir.-Sales: H. H. White MS

STANDARD WINDING CO., INC.
 44-62 Johns St., Newburgh, N. Y. (Tel. JD 1-1541)
Purch. Agent: K. Van Wagner
Sales Mgr.: Roger S. Lynch CT, TT

STANDARD-THOMSON CORP., CLIFFORD MFG. CO. DIV.
 152 Grove St., Waltham 54, Mass. (Tel. TWinbrook 4-7310)
Dir.-Purch.: Elmer F. Wilcox
Sales Mgr., Aircraft Div.: Gunnar G. Karlson PS, MS

STANDARD-TOCH CHEMICALS, INC.
 2600 Richmond Terrace, Staten Island 3, N. Y. (Tel. GBralter 2-5300)
Pres.: Carl Bauer
Asst. Sales Mgr.: H. G. Bricka M

WILLIAM W. STANLEY CO. INC.
 410 Hillside Ave., Hillside, N. J. (Tel. MURdock 7-2211)
V. P.-Purch.: A. R. Peer
Treas.: S. H. Doggett, Jr.

STANLEY-JUDD DIV.-THE STANLEY WORKS
 42 S. Cherry St., Wallingford, Conn. (Tel. CDlony 9-3353)
Purch. Agent: Frank Karalshak
Comm. Sales Mgr.: Bradford M. Scott
Asst. Sales Mgr.: Warren H. Tarrant
Gen. Mgr.: H. Henry Martens

STANPAT CO.
 150-42 12th Rd., Whitestone 57, N. Y. (Tel. FL 9-1693)
Purch. Agent: E. Nolan (Tel. FL 9-1611)

STANWYCK WINDING CO., INC.
 137-151 Walsh Ave., Newburgh, N. Y. (Tel. NEwburgh 3360)
V. P.-Purch.: Nicholas Stanwyck
Pres.: Wm. J. Stanwyck G, CT, TT

STAR EXPANSION INDUSTRIES CORP.
 Mountainville, N. Y. (Tel. KEllogg 4-2511)
Purch. Agent: Robert Schneider
Buyers: Donald Cracker & Jules Yanez
Gen. Sales Mgr.: Gordon M. Browne M

STAR PORCELAIN CO., THE
 21 Muirhead Ave., Trenton, N. J. (Tel. EXport 2-3154)
V. P. & Dir.-Purch.: William C. Brenner
V. P. & Sales Mgr.: C. A. Lawton M

STAR STAINLESS SCREW CO.
 655 Union Blvd., Totawa Bara, Paterson, N. J. (Tel. CLiffard 6-2300)
Purch. Dir.: A. Jansen
Buyer: J. Passo
Mgr., Jabber & Sales: T. M. Callahan S, M

STARK TOOL CO.
 Box 288, Ann Arbor, Mich. (Tel. HUnter 3-4233)
Purch. Agent: James V. Wood
Sales Mgr.: Harold Stark

L. S. STARRETT CO., THE
 1-165 Crescent St., Athol, Mass. (Tel. CHurchurch 9-3551)

Purch. Agent: C. B. McMillan
V. P.-Sales: C. D. Newton

STATE LABS., INC.
 215 Park Avenue S., New York 3, N. Y. (Tel. DRegon 7-8400)
Dir.-Purch.: Mildred Schwartzberg
Purch. Agent: George Schindler
Asst. Purch. Agent: Philip Diamond
Natl. Sales Mgr.: Larry Farrar M

STATE TESTING LABORATORY INC.
 226 Knowlton St., Bridgeport 8, Conn. (Tel. ED 4-4079)
Purch. Agent: E. B. Pickman
Dir.-Sales: M. J. Gellis CT, RD

STATES CO., THE
 19 New Park Ave., Hartford 6, Conn. (Tel. ADams 3-6232)
Purch. Agent: William Steidel
Sales Mgr.: Howard N. Parter

STATHAM DEVELOPMENT CORP.
 1845 Pantius Ave., Los Angeles 25, Calif. (Tel. BR 2-7528)
Asst. Gen. Mgr.: Glenn Sanders (Tel. BR 2-6861)
Purch. Agent: Jack Dgsbarn (Tel. BR 2-6861)
Chief Engr.: Walter Drake
Sales Mgr.: Tam Danahue G, CT, RD

STATHAM INSTRUMENTS, INC.
 12401 W. Dlympic Blvd., Los Angeles 64, Calif. (Tel. BR 2-0371)
Purch. Agent: T. Beddoe
Dir.-Mktg.: A. R. Hunter MS, G, CT

STATIKIL, INC.
 1220 W. 6th St., Cleveland 13, D. (Tel. CHerry 1-3939)
V. P.-Purch.: Donald J. Doyle M

STATOR ELECTRIC CORP.
 22-14 40th Ave., Long Island City 1, N. Y. (Tel. EMpire 1-2880)
Chief Engr.: P. K. Studner MS, G, RD

STAUFFER CHEMICAL CO.
 380 Madison Ave., New York 17, N. Y. (Tel. DXford 7-0600)
Dir.-Purch.: K. H. Allen
V. P.-Mktg.: S. S. Emison M, RD

STEARNS-ROGER MFG. CO., THE
 P. O. Box 5888, 600 Bannock St., Denver 17, Colo. (Tel. ACama 2-8484)
Chief Purch. Engr.: W. W. Graeber
Asst. Chief Purch. Engr.: J. G. Constantine
Special Proj. Div. Mgr.: R. W. Akerlow S, MS, M, RD

HERMAN D. STEEL CO.
 Lafayette Bldg., Philadelphia 6, Pa. (Tel. WA 5-2867)
Head-Purch. Dept.: P. N. Steel, Jr.
Head-Sales: W. W. Waalford

STEEL CITY TESTING MACHINES, INC.
 8817 Lynden Ave., Detroit 38, Mich. (Tel. WEbster 3-3500)
Purch. Agent: Jos. D'Brien
Pres.: Louis A. Welt CT

STEEL IMPROVEMENT & FORGE CO., THE
 970 E. 64th St., Cleveland 3, Ohio (Tel. UTah 1-8600)
Purch. Agent: Ford Parkes
Steel Buyer: George Mahon
V. P.-Sales: H. A. Zimmerman S, M

STEEL PRODUCTS ENGRG. CO., DIV.-KELSEY-HAYES CO.
 1205 W. Columbia St., Springfield, Ohio (Tel. FA 5-1541)
Purch. Agent: J. K. Brannon
Asst. Purch. Agent: W. W. Parsons
Sales Mgr.: J. S. Wilkerson PS, G, TT, RD

STEIN SEAL CO.
 20th St. & Indiana Ave., Philadelphia 32, Pa. (Tel. BALdwin 3-3513)
Asst. Gen. Mgr.-Purch.: Lawrence Goldschmidt
Gen. Mgr.-Sales: P. C. Stein PS

STEINER-IVES CO.
 Springfield Rd., Union, N. J. (Tel. MURdock 8-7474)
Purch. Agent: E. P. Quick
Pres.: L. T. Ives
Dir.-Sales: R. W. Richards S

STELLARDYNE LABS., INC.
 1525 Cuyamaca Rd., Gillespie Field, El Cajon, Calif. (Tel. HICKory 2-1693)
V. P. & Gen. Mgr.: Eamest M. Emery
Customer Relations Mgr.: James D. Finley CT

STENCEL AERO ENGRG. CORP.
 Black Mountain Airport, U. S. Hwy. 70, P. O. Box 8228, Asheville, N. C. (Tel. NDRrh 9-7826)
V. P. & Dir.-Purch.: T. M. Britton, Jr.
Pres. & Dir.-Sales: F. B. Stencel RD

STEPHENS TRUSONIC INC.
 8538 Warner Drive, Culver City, Calif. (Tel. UP 0-6671)
Gen. Mgr.: E. J. Petre
Chief Engr.: P. Letl
Prod. Mgr.: J. Kalfsbeck
Sales Mgr.: R. Rose MS, CT, RD

STERLING GLASS CORP.
 304 E. 116th St., Chicago, Ill. (Tel. PU S-7462)
V. P.-Purch.: Blase Lazzara
Pres.: R. L. Cunningham M, RD

STERLING TRANSFORMER CORP.
 510 Driggs Ave., Brooklyn 11, N. Y. (Tel. STagg 2-4200)
Purch. Agent: Coleman Sanders
Sales Mgr.: Eugene Martaccio M

STERLING-HOWARD CORP.
 561 E. Tremont Ave., New York 57, N. Y. (Tel. CYpress 9-6400)
V. P.-Purch.: Irving M. Carr
Sales Mgr.: Harry Astor

A. T. STEVENS CO.
 118 E. 28th St., New York 16, N. Y. (Tel. MURray Hill 5-1877)
Purch. Agent: R. Duke Pawell, Jr.

STEVENS CO. INC.
 E. Aurora St., Waterbury, Conn. (Tel. PL 4-8886)
Pres.: Carlton R. Stevens
V. P.: Ralph C. Stevens
Supt.: Santa J. Barelli M, RD

GEO. STEVENS MFG. CO., INC.
 6022 N. Rogers Ave., Chicago 46, Ill. (Tel. JUNiper 8-1300)
Purch. Agent: Miss Irma Goska
V. P. & Dir.-Sales: Jack Stevens RD

STEVENS MFG., CO., INC.
 P. D. Box 1007 Annex, Mansfield, D. (Tel. TUXedo 4-1311)
Dir.-Purch.: L. C. Frasher
V. P.-Sales: G. H. Rouse

STEVENS PRODUCTS, INC.
 86 Main St., E. Orange, N. J. (Tel. DR 2-1410)
V. P.: Rass S. Stevens
Sales Mgr.: John Thomson M

F. M. STEVENSON CO., INC.
 1728 E. Mullikin St., Baltimore 31, Md. (Tel. EAstern 7-6500)
Treas. & Dir.-Purch.: James R. Hughes
V. P. & Dir.-Sales: George J. Huebschman, Jr.
M, S, M, G, CT, TT, RD

STEVENSON BRO. & CO.
 110 Roca St., Philadelphia 6, Pa. (Tel. MArket 7-0760)
Owner: J. H. Stevenson, Jr.
Sales Mgr.: Frank M. R. Fenimore M

M. C. STEWART
 Ashburnham, Mass. (TA 7-S840)
Pres.: M. C. Stewart G, RD

STEWART ENGRG. CO.
 467 Bean Creek Rd., Santa Cruz, Calif. (Tel. GArden 6-4100)
Purch. Agent: Oran T. Connolly
Dir.-Sales: I. Osgood, Jr.

STEWART & STEVENSON SERVICES, INC.
 4516 Harrisburg St., Houston 11, Texas (Tel. CApiitol S-5341)
Purch. Agent: H. Barker
Asst. Purch. Agent: Dan Connolly
V. P.-Sales: Joe Manning MS

CODING

Structures S
 Propulsion System PS
 Missile Support MS
 Materials M
 Guidance G
 Checkout & Testing CT
 Tracking & Telemetering TT
 Research & Development RD
 Human Space Engineering HSE

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- STEWART-WARNER CORP.**
1826 Diversey Pkwy., Chicago, Ill. (Tel. LAkeview 5-6000)
Dir.-Purch., Stewart-Warner Corp., 1826 Pkwy., Chicago 14, Ill.; E. N. Osterberg
Dir.-Purch., Stewart-Warner Electronics, 1300 N. Kostner Ave., Chicago, Ill.; I. Blackberg (Tel. AL 2-1000)
Purch. Agent, Stewart-Die Casting Co., 4535 Fullerton Ave., Chicago, Ill.; E. L. Umfried (Tel. AL 2-5308)
Purch. Agent, Stewart-Warner Corp., 1514 Draver, Indianapolis, Ind.; P. Ostler
Purch. Agent, The Bassick Co., Bridgeport, Conn.; G. Raiselis
- STEWART-WARNER CORP., ALEMITE DIV.**
1826 W. Diversey Pkwy., Chicago 14, Ill. (Tel. LAkeview 5-6000)
Dir.-Purch.: E. N. Osterberg
Purch. Agent: R. J. Gorzynski
Gen. Mgr. & Dir.-Sales: E. N. Robinson
- STEWART-WARNER ELECTRONICS DIV.**
1300 N. Kostner Ave., Chicago 51, Ill. (ALbany 2-1000)
Purch. Agent: Iver Blackberg
Gen. Mgr. & Dir.-Sales: Oonald A. Potter
M, G, CT, TT, RD
- STILLMAN RUBBER CO.**
P. O. Box 1097, Culver City, Calif. (Tel. UP 0-5535)
M
- HERMAN H. STICHT CO., INC.**
27 Park Place, New York 7, N. Y. (Tel. REctor 2-8163)
Chief Engr.: R. Sticht
Dir.-Sales: A. H. Volker
- STODDART AIRCRAFT RADIO CO., INC.**
6644 Santa Monica Blvd., Hollywood 38, Calif. (Tel. HOLlywood 4-9292)
Purch. Agent: Glenn Fogg
Sales Mgr.: John R. Stevenson
RD
- F. J. STOKES CORP.**
5500 Tabor Rd., Philadelphia, Pa. (Tel. CUMberland 9-0100)
Mgr.-Materials & Prod. Planning Dept.: W. T. Minnick
Buyers: D. Low, C. Roney, W. Schmucker & F. Urban
V. P.-Sales: A. A. Hutchings
S, M, CT
- A. U. STONE & CO., INC.**
17 W. 60th St., New York, N. Y. (Tel. COLUMbus 5-1350)
Purch. Agent: H. Grant
Pres.: Alton Stone
S, PS, MS, G, RD
- STONE CITY PRODUCTS CO.**
1206 7th St., P. O. Box 351, Bedford, Ind. (Tel. BROWNing 5-3373)
Owner: O. H. Roriden
- STONE PAPER TUBE CO., DIV.-STONE STRAW CORP.**
900 Franklin St., N. E., Washington 17, D. C. (Tel. NOrth 7-3100)
Purch. Agent: E. Sibley
Gen. Mgr.: J. J. Nelligon
Sales Mgr.: T. W. Steel
G
- STONHARD CO., INC.**
401 N. Brood St., Philadelphia 8, Pa. (Tel. WALnut 2-7400)
Purch. Agent: J. W. Lauter
Dir.-Sales: LLP. Hoag
S
- STOW MFG. CO.**
464 Shear St., Binghamton, N. Y. (Tel. RA 3-6411)
Purch. Agent: F. O'Neil
V. P.-Sales: J. L. Oickinson
M
- STRAND ENGRG. CO.**
1354 N. Main St., Ann Arbor, Mich. (Tel. NORmondy 2-3127)
Controller: K. L. Leighton
V. P.-Engrg.: R. E. Miller
G, CT, TT, RD
- STRATFIELD CO., THE**
434 Grand St., Bridgeport 4, Conn. (Tel. EO 5-7708)
Pres. & Dir.-Purch.: J. V. Logie
Sales Mgr.: T. T. Logie
- *STRATOFLEX, INC.**
220 Roberts Cut-Off, Fort Worth 14, Texas (Tel. PErshing 8-6543)
Purch. Agent: J. W. Clayton
Buyers: E. E. Bradley & V. W. Seybold
Pres.: C. A. Thomas
MS
- STRATOS, DIV.-FAIRCHILD ENGINE & AIR-PLANE CORP.**
Orinaca Or., Bay Shore, L. I., N. Y. (Tel. MOhawk 5-0100)
Purch. Agent: John A. L'Hommedieu
Gen. Sales Mgr.-Aviation Prods.: W. Thomas Stark
Western Branch: 1800 Rosecrans Ave., Manhattan Beach, Calif. (Tel. OSBorne 5-9111)
Purch. Agent: F. S. Lakin
- STRAT-O-SEAL MFG. CO.**
3039 W. Fullerton, Chicago 47, Ill. (Tel. HUmboldt 9-1282)
Plant Mgr.: Howard O. Walsh
Sales Mgr.: E. D. Murphy
RD
- STROMBERG-CARLSON DIV.-GENERAL DYNAMICS CORP.**
100 Carlson Rd., Rochester 3, N. Y. (Tel. HUbbard 2-2200)
Gen. Purch. Agent: John W. Averill
Purch. Agent, Electronics Div.: Miles G. Agon (Tel. FIlmore 2-8000)
Purch. Agent, Telecommunication Div.: Robert C. Stevens
G, CT, TT, RD
- STROMBERG-CARLSON, SAN DIEGO, GENERAL DYNAMICS CORP.**
1895 Hancock St., San Diego 12, Calif. (Tel. CY 8-8331)
Purch. Agent: Robert R. Pierce
Sales Mgr.: George C. McGinley
TT, RD, HSE
- STRONG SCOTT MFG. CO., THE**
451 Taft St., N. E., Minneapolis 13, Minn. (Tel. STerling 1-7461)
Purch. Agent: B. H. Hollen
Mgr., Contract Div.: M. G. Mutch
- STRUCTURAL FIBERS, INC.**
Fifth Ave., Chardon, Ohio (Tel. AVenue 6-4118)
Purch. Agent: H. C. Tolhurst
Gen. Mgr.-Special Prod. Div.: C. W. Thomas
S, M, RD
- STRUTHERS-DUNN, INC.**
Lamb's Rd., Pitman, N. J. (Tel. LUther 9-7500)
Purch. Agent: G. M. Herb
V. P.-Sales: G. B. Canger, Jr.
- STRUTHERS WELLS CORP.**
Franklin St., Titusville, Pa.
Purch. Agent: R. C. Steber
Mgr.-Welded Products Dept.: J. V. Sheridan
MS
- W. WHITNEY STUECK, INC.**
Box 355 MR, Old Saybrook, Conn. (Tel. EV 8-9309)
Pres.: W. Whitney Stueck
- P. A. STURTEVANT CO.**
Addison, Ill. (Tel. ELmhurst, Ill.-TERRace 4-2000)
Purch. Agent: Joe Esposito
Sales Mgr.: Lee A. Sturtevant
- H. W. SULLIVAN, LTD.**
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Dir.-Sales: Sy Bosworth
- M. H. SULLIVAN FOUNDRY**
28 N. Washington St., Plainville, Conn. (Tel. SHerwood 7-0277)
Owner: M. H. Sullivan
M
- SUMMERS GYROSCOPE CO.**
2500 Broadway St., Sonto Monica, Calif. (Tel. EXbrook 3-6711)
Mgr., Material: W. H. Hassler
Asst. Purch. Agents: T. L. Hold & W. W. Flee
Mgr., Mil. Relations: T. N. Kosabali
G, RD
- SUN DIAL CORP.**
P. O. Box 326, Passaic Ave., Caldwell, N. J. (Tel. CApiital 6-4334)
Office Mgr.: George J. Martin
Sales Mgr.: Cornelius Lakker
MS, G, CT, TT, RD
- SUN ELECTRIC CORP., AERONAUTICAL DIV.**
Harlem & Avandales Aves., Chicago 31, Ill. (Tel. NEwcastle 1-6000)
Dir.-Purch.: R. E. Kane
V. P.-Dir., Aeronautical Div.: F. E. Oraper
Sales Mgr.: G. W. Holly
MS, CT, TT, RD
- SUNAIR ELECTRONICS, INC.**
Broward International Airport, Fort Lauderdale, Fla. (Tel. JAckson 5-1505)
Purch. Agent: John P. Archard
Asst. Purch. Agent: Naman E. Breeden
V. P. & Gen. Mgr.: E. J. Nilsson
M
- SUNDSTAND AVIATION DIV.**
2421 11th St., Rockford, Ill. (Tel. WO 8-6811)
- Mgr.-Purch. & Prod.:** Quentin Bowen
Purch. Agent: Oon Bredahl
Mgr.-Mktg. & Contracts: C. E. Capron
RD
- SUNDSTRAND-DENVER**
2480 W. 70th Ave., Denver 21, Colo. (Tel. HARRison 9-1561)
Purch. Agent: Bert Swarthout
Mgr.-Mktg. & Contracts: John Thayer
RD
- SUNDSTRAND TURBO**
2480 W. 70th St., Denver 21, Colo. (Tel. HA 9-1561);
10445 Glenoaks Blvd., Pocomo, Calif. (Tel. EM 6-8121)
Purch. Agent, Denver: E. W. Johnson
Buyer, Denver: Lou Horder
Mgr., Mktg., Denver: John Thayer
Purch. Agent, Pocomo: Robert Meyerson
Mgr., Sales, Pocomo: Robert Bayer
PS, MS, RD
- SUNSHINE SCIENTIFIC INSTRUMENT**
1810 Grant Ave., Philadelphia 15, Pa. (Tel. ORchard 3-5600)
Purch. Agent: J. Stesler
Sales Mgr.: A. L. Chiles
RD
- SUPA INSULATIONS INC.**
123 E. Bassett St., Rocky Mount, N. C. (Tel. GI 6-8155)
Plant Mgr.: J. Ertell
M
- SUPER ELECTRONICS CORP.**
4 Radford Pl., Yonkers, N. Y. (Tel. YONkers 5-6906)
Purch. Agent: O. Schulman
Sales Mgr.: Marvin L. Bucholter
MS, G, CT, TT
- SUPERIOR AIR PRODUCTS CO.**
132 Malvern St., Newark 5, N. J. (Tel. MArket 3-5715)
Chief Engr.: L. E. Putman
Purch. Agent: Arthur L. Szalowski
MS, RD
- SUPERIOR CABLE CORP.**
Box 480-A, Hickory, N. C. (Tel. DIamond 5-4161)
Purch. Agents: Manley Fuller & Brack Johnson
V. P.-Sales: J. H. Bowman
- SUPERIOR CARBON PRODUCTS, INC.**
9115 George Ave., Cleveland 5, O. (Tel. VULcan 3-4880)
Purch. Agent: Royman H. Kling
Sales Mgr.: Ted Liebert
MS, TT
- SUPERIOR ELECTRIC CO., THE**
83 Laurel St., Bristol, Conn. (Tel. LUdlow 2-9561)
Purch. Agent: W. O. Crosby
Sales Mgr.: J. Loudon
MS
- SUPERIOR FLUX & MFG. CO., THE**
1536 St. Clair Ave., Cleveland 14, O. (Tel. SUperior 1-9373)
Pres.: Robert R. Mendelson
V. P.-Purch.: R. E. Handler
M
- SUPERIOR GRAPHITE CO.**
33 S. Clark St., Chicago 3, Ill. (Tel. RAndolph 6-7939)
V. P.: M. B. Joyce
M
- SUPERIOR INDUSTRIAL MACHINE CO.**
521-23 E. Murdock St., Wichita 14, Kans. (Tel. AM 5-4825)
Owner: Floyd Schuette
Shop Foreman: John Kraft
S
- SUPERIOR PNEUMATIC & MFG., INC.**
13800 Enterprise Ave., Cleveland 35, Ohio (Tel. 2-2533)
V. P. & Gen. Mgr.: W. I. Krewson
Sales Mgr.: K. Lang
- SUPERIOR SPINNING & STAMPING CO.**
4057-63 Fitch Rd., Toledo 13, O. (Tel. GREENwood 2-2175)
Secy.: L. G. Avery
Pres.: W. H. Schomburg
M
- SUPERIOR STEATITE & CERAMIC CORP.**
83-91 W. Forest Ave., Englewood, N. J. (Tel. LOWell 8-4555)
Purch. Agent: A. Kent
Sales Mgr.: T. H. Church
M
- SUPERIOR STEEL DIV., COPPERWELD STEEL CO.**
Comegie, Pa. (Tel. WA 1-4130)
Purch. Agent: John C. Zuk
Asst. Purch. Agent: James L. Fickinger
Buyer: Richard Schroeder
Gen. Mgr.-Sales: William M. Cowles
- SUPERIOR TUBE CO.**
Box 191, Narristown, Pa. (Tel. BROADway 5-2070)
Dir.-Purch.: Elmer W. Hayes
Purch. Agent: Leroy Duckwalter
Buyer: Ralph Esser
Gen. Mgr.-Sales: Henry B. Brown, Jr.
M

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SUPREME INDUSTRIAL PRODUCTS CO.
367 N. Karlov Ave., Chicago 24, Ill. (Tel. NEvada 8-0633)
V. P.: F. D. Conger

SYLVANIA SEMICONDUCTOR DIV., SYLVANIA ELECTRIC PRODUCTS INC.
100 Sylvan Rd., Waburn, Mass. (Tel. WElls 3-3500)
Purch. Agent: John Taylor
Mktg. Mgr.: Ernest H. Ulm G, TT

SYLVANIA-CORNING NUCLEAR CORP.
P. O. Box 59, 208-20 Willets Point Blvd., Bayside, N. Y. (Tel. FAculty 1-1212; ConTigue Rd., Hicksville, L. I., N. Y. (Tel. WElls 1-3500)
Mgr.-Purch.: W. Ruzicko (Tel. WElls 1-3500)
Asst. Mgr.-Purch.: H. Aggor (Tel. WElls 1-3500)
Dir.-Mktg.: Stanley B. Roboff M, RD

SYNTHANE CORP.
River Rd., Oaks, Montgomery Co., Pa. (Tel. GLendale 2-2211)
Purch. Agent: Charles H. Cox, Jr.
Gen. Sales Mgr.: Russell B. Galloway

SYNTRONIC INSTRUMENTS INC.
100 Industrial Rd., Addison, Ill. (Tel. KIngswood 3-6444)
V. P. & Dir.-Purch.: Robert Bank
Pres. & Dir.-Sales: Henry O. Morcy M

SYSTEMS INC.
P. D. Box 7726, 2400 Diversified Woy, Orlando, Fla. (Tel. CH 1-1541)
Purch. Agent: R. H. Dickinson
Pres.: S. M. Koplan G, CT, TT, RD

SYSTEMS LABS., DIV.-ELECTRONIC SPECIALTY CO.
5121 Son Fernando Rd., Los Angeles 33, Calif. (Tel. CH 5-3771)
Purch. Agent: H. A. Venturina
Dir.-Program Dev.: E. Floyd Sherman MS, G, CT, RD

SYSTRON CORP.
950 Galindo St., Concord, Calif. (Tel. MUlberry 2-3659)
Purch. Agent: Mrs. Daris Tarpocko
Dir.-Sales: James R. Cunningham MS, CT, RD

TA MFG. CORP.
4607 Alger St., Los Angeles 39, Calif. (Tel. CHapman 5-6768)
Purch. Agent: R. E. Felton
V. P.-Sales: R. Clyde Jordan MS

TAK ELECTRIC CORP.
820 Linden Ave., Rochester 10, N. Y. (Tel. LUdlow 6-8000)
Purch. Agent: R. A. Taylor
Pres.: A. B. Tremon MS

T. O. D. MFG. CO. INC.
325 Duffy Ave., Hicksville, L. I., N. Y. (Tel. WElls 8-0500)
Dir.-Purch.: M. P. Wolder
Purch. Agent: H. Johnson
Sales Mgr.: R. Klein

TRG, INC.
2 Aerial Woy, Syosset, L. I., N. Y. (Tel. OVerbrook 1-6900)
Purch. Agent: John Rusinok
Contract Adm.: Julius Moiman
Dir.-Sales: Frederick N. Moyer MS, M, G, TT, RD

TABET MFG. CO., INC.
1336 Bollentine Blvd., Norfolk 12, Va. (Tel. MAdison 2-1973)
Pres.: Michael Tabet
Engrs.: Q. Holleman, W. L. Turner & J. Sokokini
Sales Mgr.: Donald Strosburger

TACTAIR VALVE DIV.-AIRCRAFT PRODUCTS CO.
400 Church Rd., Bridgeport, Pa. (Tel. BRoadway 5-1000)
Purch. Agent: T. M. Clemency
Sales Mgr.: Frank Higgins MS, G

TAFFET ELECTRONICS, INC.
27-05 Brooklyn Queens Expwy. W., Woodwide 77, N. Y. (Tel. RAvenswood 1-3500)
Purch. Agent: H. Herfurth
V. P.-Sales: I. Toffet CT

TAFT-PIERCE MFG. CO., THE
32 Mechanic Ave., Woonsocket, R. I. (Tel. POplar 2-1000)
Purch. Agent: A. M. Robinsan
Dir.-Mktg.: J. G. Zeiger

TALCO ENGRG. CO., THE
2685 State St., Homen, Conn. (Tel. ATwater 8-1634)
Purch. Agent: F. DeMarca
Buyer: D. Pontero
Dir.-Sales: A. E. Ehlenberger

TALK-A-PHONE CO.
5013 N. Kedzie Ave., Chicago 25, Ill. (Tel. LAwdale 1-8414)
Sales Mgr.: Don F. Kogon

TALLEY CORP., THE
101 Highway & Cone Rd., Newberry Park, Calif. (Tel. HUDson 5-2121)
Purch. Agent: Lorry Johnston
Buyers: Meade Davis & Dwight Hoymond
V. P.-Sales: Norman Nicholson MS, G, CT, TT, RD

TALLEY REGISTER CORP.
1310 Mercer St., Seattle 9, Wash. (Tel. MAIn 4-0760)

TALON, INC.
626 Arch St., Meadville, Pa. (Tel. 4-1281)
Mgr.-Purch.: F. V. Honoway
Asst. Mgr.-Purch.: A. R. Young
V. P.-Sales: R. M. Evans

TAMAR ELECTRONICS, INC.
2045 W. Rasecrans Ave., Gardena, Calif. (Tel. DA 3-9110)
Purch. Agent: W. P. Smith
Dir.-Sales: Robert A. Parsons MS, G, TT, RD

TANSITOR ELECTRONICS, INC.
West Road, Bennington, Vt. (Tel. 5473-5474)
V. P.-Purch.: Gilbert E. Green
Pres.-Sales: Alfred F. Tarrisi RD

TAP-A-LINE MFG. CO.
31 S. W. 5th Court, P. D. Box 563, Pampana Beach, Fla. (Tel. WE 3-3262)
Sales: Robert W. McForlin M

TAPCO GROUP, THOMPSON RAMO WOOLDRIDGE INC.
2355 Euclid Ave., Cleveland 17, Ohio (Tel. IV 1-7500)
Mgr., Purch.: R. Basch
Mgr., Sales & Mktg.: J. H. Shoffer S, PS, MS, G, CT, TT, RD

TAPE CABLE CORP.
790 Linden Ave., Rochester 10, N. Y. (Tel. LUdlow 6-0330)
Purch.: G. E. Smith
Sales Mgr.: Bob Smith M

TAPERED AIR PRODUCTS CORP.
10890 Stonford Ave., Lynwood, Calif. (Tel. NEvada 6-9851)
Purch. Agent: Chester Stephens
Sales Mgr.: D. M. BELL S

TASK CORP.
1009 E. Vermont Ave., Anheim, Calif. (Tel. RRespect 4-3100)
Dir.-Purch.: Carl M. Berg
Sales Mgr.: Joe A. Fryer, Jr.

TAURUS CORP.
8 Caryell St., Lambertville, N. J. (Tel. EXpart 7-1570)
Pres.: John Kreuter
Chief Engr.: William Fisher
Prod. Mgr.: Bent Andresen M, CT

W. A. TAYLOR & CO.
7300 York Rd., Baltimore 4, Md. (Tel. VAIlley 3-1573)
Gen. Purch. & Sales Mgr.: J. A. Lambrecht
Asst. Purch. Mgr.: J. C. Kirk, Jr.
Chief Chemist: F. M. McCrumb

TAYLOR DEVICES, INC.
188 Main St., N. Tanawonda, N. Y. (Tel. JAcKson 3603)
Pres.: Paul H. Taylor
V. P.-Sales: Charles S. Shonks

TAYLOR ELECTRIC INC.
15400 Dale Ave., Detroit 23, Mich. (Tel. KEWwood 5-2500)
Sales: Bruce R. D. Taylor M

TAYLOR FIBRE CO.
Norristown, Pa. (Tel. GLendale 2-2811)
Purch. Agent: H. Fifer
V. P.-Sales: E. H. DaCosto M

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Guidance	G
Checkout & Testing	CT
Tracking & Telemetry	TT
Research & Development	RD
Human Space Engineering	HSE

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- TAYLDR-WINFIELD CORP.**
1052 Mahoning Ave., N. W., Warren, Ohio (Tel. EX 2-2521)
Purch. Agent: H. Martin
Asst. Purch. Agent: G. Walchak
Chief Sales Engr.: J. H. Cooper M
- TECHALLYDY CO. INC.**
Route 113, Rahns, Pa. (Tel. Norristown HUXley 9-7211)
Pres.: D. M. Schmid M
- TECHNIC INC.**
88 Spectacle St., Cranston, R. I. (Tel. STuart 1-6100)
Dir.-Purch.: Barney Reynolds
Dir.-Sales: Frank K. Smith M
- TECHNICAL APPARATUS BUILDERS**
109 Liberty St., New York 6, N. Y. (Tel. REctor 2-6249)
Purch. Agent: R. A. Lyons
Sales Mgr.: R. Bernstein
- TECHNICAL APPLIANCE CORP.**
1 Toco St., Sherburne, N. Y. (Tel. ORchard 4-2211)
V. P. & Dir.-Purch.: Harold Senkel
Exec. V. P.: Tare Lundahl TT
- TECHNICAL DESIGN & DEVELOPMENT CO., INC.**
465 Noughtak Ave., Milford (Devon), Conn. (Tel. TRinity 8-0625) @
Dir.-Purch.: John J. Edmonds
Pres. & Gen. Mgr.: Clinton S. Strang RD
- TECHNICAL DEVELOPMENT CO.**
305 S. Chester Pike, Glenolden, Pa. (Tel. LUdlow 3-3330)
Pres. & Purch. Agent: D. W. Batstiber
V. P.: N. S. Gable PS, MS
- TECHNICAL ELECTRONICS CO., DIV.-CONSOLIDATED ELECTRONIC INDUSTRIES**
4060 Ince Blvd., Culver City, Calif. (Tel. UPton 0-5461)
Purch. Agent: N. L. Stevenson
Sales Mgr.: W. A. Beswick CT
- TECHNICAL MATERIEL CORP., THE**
700 Fenimore Rd., Momoroneck, N. Y. (Tel. OWens 8-4800)
Purch. Agent: J. J. Toman
Buyers: J. F. Hopkins & J. Brenton
Exec. V. P.: W. J. Golione TT
- TECHNICAL PLY-WOODS SALES**
6756 Crandon Ave., Chicago 49, Ill. (Tel. BU 8-1330)
Purch. Agent: A. H. Hackett
Dir.-Sales: James R. Fitzpatrick S, M
- TECHNICAL PRDDUCTS CO.**
6670 Lexington Ave., Hollywood, Calif. (Tel. HD 4-8121)
Sales Mgr.: Robert L. Shofer MS, CT, TT, RD
- TECHNICAL SALES CORP.**
16599 Meyers Rd., Detroit 35, Mich.
Sales Mgr.: E. G. Reindel
- TECHNICAL SERVICE CORP.**
917-19 S. Third St., Louisville 3, Ky. (Tel. JUUniper 7-8476)
Gen. Purch. Agent: L. H. Jones
Buyer: Robert E. Johnson
Sales Dept.: Mary Rose Sneed
- TECHNICAL TAPE CORP.**
240 North Ave., New Rochelle, N. Y. (Tel. BEverly 5-1000)
V. P. Dir.-Disbursements: Max Pearce
Purch. Agent: B. McGuire
Asst. Purch. Agent: Mrs. D. Steiner
V. P. Gen. Sales Mgr.: M. R. Stohl
- TECHNI-CAST CORP.**
11455 Check Ave., Lynwood, Calif. (Tel. NEvada 6-0678)
V. P.-Purch.: Bryn Van Hiel
- TECHNICRAFT, DIV.-ELECTRONIC SPECIALTY CO.**
Thomaston-Waterbury Rd., Thomaston, Conn. (Tel. ATios 3-4315)
Purch. Agent: Edwin A. Jacques
Sales Mgr.: Thomas P. Mathews M, G
- TECHNIQUE ASSOCIATES DIV., DUNCAN ELECTRIC CO., INC.**
1413 North Cornell Ave., Indianapolis 2, Ind. (Tel. MElrose 1-4904)
Dir.-Purch. & Sales: T. K. Millholland
- TECHNITROL ENGRG. CO.**
1952 E. Allegheny Ave., Philadelphia 34, Pa. (Tel. GArfield 6-9105)
- Purch. Agent: James H. Kennedy**
Buyer: David Adam
V. P.-Sales: T. Kite Shorless MS, CT, TT
- TECHNOGRAPH PRINTED ELECTRONICS, INC.**
920 Northwest Blvd., Winstan-Salem, N. C. (Tel. PArk 3-0767)
Purch. Agent: R. G. Vance RD
- TECHNOLOGY INSTRUMENT CORP.**
531 Main St., Acton, Mass. (Tel. CDlonial 3-7711)
Purch. Agent: David M. Donaldson
V. P.-Sales: H. L. Gray, Jr. M, CT, RD
- TECHNOPRODUCTS, INC.**
P. D. Box 5293, Hamden 18, Conn. (Tel. ATwater 8-9966)
Pres.: D. N. Griffin CT, RD
- TECHRON CORP.**
20 Simmons St., Boston 20, Mass. (Tel. Highlnds 5-2150)
Purch. Agent: Thomas Fahey
Dir.-Sales: George Ganjian M
- ROLAND TEINER CO. INC.**
134 Tremont St., Everett 49, Mass. (Tel. DUUnkirk 7-7800)
Dir.-Purch.: R. Tenoglio
V. P.-Prod.: N. Patterson
V. P.-Sales: K. L. Sawdon
- TEKTRONIX, INC.**
P. D. Box 831, Portland 7, Oregon (Tel. MITchell 4-0161)
Purch. Agent: Scott Easter
Mktg. Mgr.: Byron Broms CT
- TELECON, INC.**
P. D. Box 216, Pacific Palisades, Calif. (Tel. GLadstone 4-4043)
Pres.: V. G. Rumbellow M
- TELECHROME MFG. CORP.**
28 Ranick Dr., Amityville, N. Y. (Tel. LIncoln 1-3600)
Dir.-Purch.: B. Trimbull
V. P.-Sales: H. Charles Riker CT, TT, RD
- TELE COIL CO.**
2733 Saunders St., Comden 5, N. J. (Tel. EMerson 5-7528)
Pres.: Samuel Feldman
- TELECTRO INDUSTRIES CORP.**
35-16 37th St., Long Island City 1, N. Y. (Tel. YELlowstone 2-8600)
Dir.-Purch.: Maxwell Ross
Sales Mgr.: Robert Danner M, TT, RD
- TELE-DYNAMICS INC.**
5000 Parkside Ave., Philadelphia 31, Pa. (Tel. TRinity 8-3000)
Purch. Agent: Walter S. Longbottan
Buyers: Howard S. Messick, William A. Parch, Philip Marder
Dir.-Mktg.: Edward H. Rosen GS, GH, GE, CO, TS, TR, RD
- TELEFLEX INC.**
Church Rd., P. D. Box 218, North Wales, Pa. (Tel. OXBow 9-4861)
Dir.-Purch.: T. H. Walton
Dir.-Sales: L. K. Black S, MS, RD
- TELEMETER MAGNETICS, INC.**
P. O. Box 329, Culver City, Calif. (Tel. UPton 0-8571)
Purch. Agent: Jack D. Hoffman
Buyers: Frank J. Butteri & Leonard Stephenson
Sales Mgr., Data Equip. Div.: R. D. Schmidt
Sales Mgr., Components Div.: D. Miner MS, RD
- TELERAD MFG. CORP.**
1440 Broadway, Nwe Yar k 18, N. Y. (Tel. BRyant 9-0892)
Pres.: Charles George MS, M, TT
- TELEVISION UTILITIES CORP., DIV.-NORD**
300 Denton Ave., New Hyde Park, L. I., N. Y.
Pres.: E. Kron
V. P.-Sales: D. Sigler
Chief Engr.: C. Odum
- TELEX, INC.**
1633 Eustis St., St. Paul 1, Minn. (Tel. Midway 6-7211)
Dir.-Purch.: D. L. McNevin
Asst. Purch. Agent: T. K. Mark
Sales Mgr.: R. F. Buelow M
- TEL-INSTRUMENT ELECTRONICS CORP.**
728 Garden St., Carlstadt, N. J. (Tel. WEbster 3-1600)
Dir.-Purch.: A. R. Roemisch
Sales Mgr.: E. W. Brinkerhoff
- TELKDR, INC.**
N. Murray Ridge, P. D. Box 186, Elyria, Ohio (Tel. FA 2-8623)
V. P.-Purch. & Sales: Howard R. Roe
Engrs.: Robert Carneck & Elverton D. Roe G, CT
- TELONIC INDUSTRIES, INC.**
60 N. First St., Beech Grove, Ind. (Tel. STate 7-7241)
Purch. Agent: Jean Robinett
Sales Mgr.: L. W. Abbott M, CT
- TEL VISION LABS. INC.**
333 W. Mill St., Wauconda, Ill. (Tel. JACkson 6-2511)
Purch. Agent: Joseph Faymon
Pres.: Edward F. Classen G, CT, TT
- TEMCO AIRCRAFT CORP.**
P. D. Box 6191, Dallas 22, Texas (Tel. BRoadway 6-7111)
Material Mgr.: C. D. Callier
Purch. Agent: J. A. Pendleton
Mgr.-Sales, Missile & Aircraft Div.: E. F. Janesic S, PS, MS, G, CT, TT, RD
- TEMPEL STEEL CO.**
1939 Bryn Mawr Ave., Chicago 26, Ill. (Tel. ARdmore 1-8100)
Purch. Agent: H. W. Bueger
Sales Mgr.: F. A. Slaughter
- TEMPERATURE ENGR. CORP.**
1700 Union Landing Rd., Riverton, N. J. (Tel. TALmader 9-3880)
Pres.: S. H. Perlman
Sales Mgr.: Norman Bustein RD
- TEMPIL CORP.**
132 W. 22nd St., New York 11, N. Y. (Tel. OREGan 5-6610)
Purch. Agent: L. Fein
Dir.-Sales: D. R. Kasanof
Order Supply: J. Geiger M, CT, RD
- TEMPLER INDUSTRIES INC.**
701 Atkins Ave., Brooklyn 8, N. Y. (Tel. BRowning 2-7300)
Dir.-Purch.: Martin P. Krentzman
Dir.-Sales: Harry R. Tweraga S, M
- TEMPLETON, KENLY & CO.**
16th & Gardner Rd., Broadview, Ill. (Tel. AUstin 7-0694)
Buyer: Donald Bertauf
V. P.-Sales: P. H. McMonus
- TEMP INSTRUMENT INC.**
Commercial St., P. D. Box 338, Hicksville, N. Y. (Tel. OVerbrook 1-2280)
Purch. Agent: H. Pinta
Sales Mgr.: G. J. Sbardone MS, G, CT, RD
- TENNEY ENGRG., INC.**
1090 Springfield Rd., Union, N. J. (Tel. MURdock 6-7870)
Purch. Agent: Robert Hak
V. P.-Sales: Robert H. Brown CT, RD
- TENSITRON, INC.**
P. O. Box 185, Harvard, Mass. (Tel. MEdford 1-2300)
Dir.-Purch.: D. G. Keaugh
Buyer: John Heody
V. P.-Sales: G. W. Heller M
- TENSOR ELECTRIC DEVELOPMENT CO., INC.**
1873 Eastern Pkwy., Brooklyn 33, N. Y. (Tel. HY 5-9200)
Purch. Agent: Mrs. P. McFarland
- TEPRO ELECTRIC CORP.**
408A Burke Bldg., 5 St. Paul St., Rochester 4, N. Y. (Tel. BAKER 5-0478)
Pres.: M. A. Thom
Prod. Mgr.: James E. Miller
- TERADO CO.**
1068 Raymond Ave., St. Paul 8, Minn. (Tel. Midway 6-2868)
Gen. Mgr.: D. G. Munson
Purch.: George Huff
Sales Mgr.: John J. Koul MS, M, G
- GEORGE A. TERRY CO.**
356 S. Elmwood Ave., Buffalo 1, N. Y. (Tel. WA 0633)
Mgr.: George A. Terry
Asst. Mgr.: A. M. Dodge
Sales Mgr.: Harold A. Dodge

TETRAFLUOR, INC.
343 Hindry Ave., Inglewood 1, Calif. (Tel. ORegan 8-4056)
Purch. Agent: Jerry Riemer
Asst. Purch. Agent: Al Schachter
Sales Mgr.: Edward M. Young M

TEVCO INSULATED WIRE
108 Prospect Ave., Burbank, Calif. (Tel. Victoria 9-5574)
Pres.: Nat B. Koufman
V. P.: Rallond Trambley M

TEXAS INSTRUMENTS INC., METALS & CONTROLS DIV.
55 Forest St., Attleboro, Mass. (Tel. 2800)
Purch. Agents: L. Formon, Spencer Products
E. Carpenter, General Plate Products
Mgr., Mktg.: B. O. Houn, Jr. M

TEXAS INSTRUMENTS INC., METAL & CONTROLS DIV., GENERAL PLATE PRODUCTS
5565 Forest St., Attleboro, Mass. (Tel. AT 1-2800)
Purch. Agent: L. Gorman
Mgr., Mktg.: B. D. Houn M

TEXAS INSTRUMENTS INC., METALS & CONTROLS DIV., SPENCER PRODUCTS
5565 Forest St., Attleboro, Mass. (Tel. AT 1-2800)
Purch. Agent: E. B. Carpenter
Mgr., Mktg.: B. O. Houn M

TEXAS INSTRUMENTS INC.
6000 Lemmon Ave., Dallas 9, Texas (Tel. FLeetwood 7-5411)
V. P.-Mktg.: S. T. Harris
Purch. Agent-Apparatus Div.: Frank Wadrich
Purch. Agent-Semiconductor Components Div.: Don Nugent (Tel. ED Adams 5-3111)
Purch. Agent-Metals & Controls Div.: L. Gorman (Tel. ATleboro 1-2800) MS, M, G, CT, TT

TEXSTAR PLASTICS, DIV.-THE TEXSTAR CORP.
1400 Henderson St., P. O. Box 1440, Forth Worth, Texas (Tel. ED 5-3214)
Buyers: Richard S. Long, Roy Goudeau, Donald M. Miles
Gen. Sales Mgr.: William K. McConnell, Jr. S, M

TEXTRAN CORP.
P. O. Box 9207, 4508 Burnet Rd., Austin 17, Texas (Tel. GL 3-8378)
Tech. Dir.: O. J. Baltzer RD

THAYER SCALE CORP.
1 Thayer Park, Pembroke, Mass. (Tel. TAYlor 6-2373)

THERM, INC.
Hudson St., Ithaca, N. Y. (Tel. IThaca 4-9501)
V. P.-Purch.: John E. Poige
V. P.-Sales: Harry A. Davis, Jr.
V. P.-Research: Alfred Ritter PS, M, RD

THERMADOR ELECTRICAL MFG. CO.
715 S. Raymond Ave., Alhambra, Calif. (Tel. CLumberland 3-8631)
Gen. Mgr. & Dir.-Purch.: J. R. Singleton
Dir.-Sales: M. B. Sawyer, Jr. G, TT, RD

THERMAL AMERICAN FUSED QUARTZ CO., INC.
15-19 Salem St., Dover, N. J. (Tel. FOxcraft 6-2807)
Purch. Agent: R. Doornom
Sales Mgr.: John F. von Sternberg M, RD

THERMAL DYNAMIC PRODUCTS DIV.-WALTHAM PRECISION INSTRUMENT CO.
38 W. 53rd St., New York 10, N. Y. (Tel. JUdson 2-8860)
V. P. & Gen. Mgr.: Gerord J. Weendelken
Dir.-Sales: Fred Burmann RD

THERMAL RESEARCH & ENG. CORP.
700 Brook Rd., Canshohocken, Pa. (Tel. TAYlor 8-5400)
Factory Mgr.: David Cordis
Purch. Agent: A. M. Davis
Pres.: L. C. Peskin
V. P. & Sales Mgr.: W. K. Lombard MS, CT, RD

THERMAL WIRE OF AMERICA
Keeler's Bay, South Hero, Vt. (Tel. 241)
Pres.: Horace W. Corbin, Jr.
Sales Mgr.: Michael G. Zitter G, CT, TT

THERMAX WIRE CORP.
304 E. 45th St., New York 17, N. Y. (Tel. MUrroy Hill 9-7120)
Purch. Dept.: Robert Prusok
Sales Mgr.: John E. Rattinger M

THERMECH ENGRG. CORP.
1773 Lincoln Ave., Anaheim, Calif. (Tel. KEYston 3-3183)
Gen. Mgr.: C. P. Ripley
Sales Mgr.: R. L. Horris M

THERMIONIC AERONAUTIC DIV.
Interhaven Ave., Plainfield, N. J. (Tel. PL 4-7616)
Project Engr.: Thomas B. Molloy, Jr.
Prod. Engr.: Thomas Douglas
V. P.-Sales: Charles W. Brunstetter S, M, RD

THERMIONIC PRODUCTS CO.
Interhaven Ave., Plainfield, N. J. (Tel. PL 4-7616)
Purch. Agent: Mr. Kelly
Prod. Engr.: Mr. Ahouse
Chief Engr.: John Vogel
Pres.: Victor O. Allen S, M, RD

THERMO ELECTRIC CO., INC.
109 5th St., Saddle Brook, N. J. (Tel. Hubbard 9-5800)
Treas.: J. P. McKeon
Sales Mgr.: J. H. Collins CT

THERMO KING CORP.
314 W. 90th St., Minneapolis 20, Minn. (Tel. TUXedo 1-2601)
Dir.-Purch.: E. J. Brown
Mgr.-Govt. Sales: Miles Harvey

THERMOID DIV.-H. K. PORTER CO., INC.
200 Whitehead Rd., Trenton 6, N. J. (Tel. JUdson 7-3000)
Purch. Agent: T. J. Gorman, Tocany & Comly Sts., Philadelphia, Pa. (Tel. JEFFerson 3-4800)
V. P.-Sales: J. R. Alexander MS

THERMO-LAB CORP.
6940 Farmdale Ave., N. Hollywood, Calif. (Tel. TRiangle 7-7105)
Sales Dir.: Roy Smith

THERMON MFG. CO.
1017 Rosine St., Houston 6, Texas (Tel. JACkson 6-4448)
Sales Mgr.: R. L. Burdick
Research Engr.: James E. Bilbran M

THERMOSEN INC.
375 Fairfield Ave., Stamford, Conn. (Tel. DAVIS 5-1324)
Sales Mgr.: S. P. Stiskin

THETA INSTRUMENT CORP.
520 Victor St., Saddle Brook, N. J. (Tel. HUBbard 7-3508)
Purch. Agent: Robert Barker
Sales Mgr.: S. Handelman

THIEBLOT AIRCRAFT CO., DIV.-VITRO CORP. OF AMERICA
Martinsburg, W. Va. (Tel. AMherst 3-3385)
Dir.-Purch.: Art Williams
V. P.-Sales: W. P. Moloney

THIOKOL CHEMICAL CORP.
P. O. Box 27, Bristol, Pa. (Tel. WIndsor 6-9150)
Purch. Agent (Redstone Div.): J. Lutz, (Huntsville, Ala.)
Purch. Agent (Langhorn Div.): W. L. Teutsch (Marshall Tex.)
Dept. Mgr. (Reaction Motors Div.): E. M. DeRame (Denville, N. J.)
Section Head (Elkton Div.): T. King (Elkton, Md.)
Dept. Head (Utah Div.): D. Young (Brigham City, Utah)

THIOKOL CHEMICAL CORP., HUNTER-BRISTOL DIV.
Bristol, Pa. (Tel. WIndsor 6-9150)
Supvr.-Purch.: William Westberg
Contracts Mgr.: John Miller MS, CT, RD

THIOKOL CHEMICAL CORP., REDSTONE DIV.
Huntsville, Ala. (Tel. JE 6-4411)
Purch. Mgr.: R. B. Crow
Dir., Proj. Management Staff: D. B. Myers
Acting Chief, Subcontract.: H. R. Hope
Purch. Agent: J. P. Lutz PS

A. S. THOMAS, INC.
355 Providence Hwy., Westwood, Mass. (Tel. DAVIS 9-9200)
Dir.-Purch.: D. C. Culpin M, RD

THOMAS & BETTS BO., INC. THE
336 Butler St., Elizabeth 1, N. J. (Tel. ELizabeth 4-4321)
Dir.-Purch.: H. S. Berry
V. P.-Sales: E. Hewitt

THOMAS ELECTRONICS, INC.
118 Ninth St., Passaic, N. J. (Tel. GREgory 3-4040)
Mgr.-Purch.: Carl Teipel
Sales Mgr., Indst.-Mil. Products: Jess E. Dines M

THOMAS FLEXIBLE COUPLING CO.
Maine Ave. & Biddle St., Warren, Pa. (Tel. RA 3-6600)
Purch. Agent: E. Hagenlocher

Asst. Purch. Agents: H. C. Wright & R. Nelson
Sales Mgr.: L. R. Gibson PS, MS, C, TT, RD

THOMAS INSTRUMENT CO.
41 Silver Rock, Phoenix, N. Y. (Tel. DWen 5-5134)
Sales H Prod. Mgr.: S. M. Thams PS

THOMAS MOLD & DIE CO.
Box 126, Wooster, Ohio (Tel. HOWard 2-5911)
Purch. Agent: L. Thomas
Sales Mgr.: W. M. Patterson S, G, TT

H. I. THOMPSON FIBER GLASS CO.
1733 Cordova St., Los Angeles 7, Calif. (Tel. REpublic 3-9161)
Purch. Agent: Dean Welsh
Buyer: D. Highom
V. P.-Sales: W. E. Benke S, PS, MS, M, RD

JOHN I. THOMPSON & CO.
Box 3531, Washington 7, D. C. (Tel. FE 6-4200)
Asst. Dir.-Engrg: George R. Pielmeier S, M, CT, RD, HSE

THOMPSON & CO.
1085 Allegheny Ave., Dokmont, Allegheny Co., Pa. (Tel. DAKmont 3800)
Dir.-Purch.: E. K. Chaffey
Purch. Agent: G. H. Overhult
V. P.-Sales: M. D. Phelps

THOMPSON RAMO WOOLDRIDGE INC.
23555 Euclid Ave., Cleveland 17, Ohio (Tel. IVanhoe 1-7500)
Dir.-Purch.: G. N. Hackett
Mgr., Purch. & Traffier: R. Bosch
V. P.-Customer Requirements: B. W. Chidlaw
Mgr.-Material: R. Westerfield, Los Angeles, Calif. (Tel. DIamond 6-6000) S, PS, MS, M, G, CT, TT, RD

THOMPSON RAMO WOOLDRIDGE PRODUCTS CO., THE
202 N. Conan Dr., Beverly Hills, Calif. (Tel. BRadshaw 2-8892)
Gen. Mgr.: Dr. J. J. Monildi
Dir.-Engrg.: Dr. Montgomery Phister, Jr. CT

THOMSON, JUDSON L.
Sawyer Rd., Waltham 54, Mass. (Tel. TW 3-0857)
G. Robert Cox S

THOR CERAMICS, INC.
225 Belleville Ave., Bloomfield, N. J. (Tel. PILgrim 3-7797)
Purch. Agent: Laurence E. O'Rourke
Pres. & Sales Mgr.: Harry Thaw M

THOR POWER TOOL CO.
175 N. State St., Aurora, Ill. (Tel. TWinoaks 2-7601)
Purch. Agent: G. C. Wicks
Asst. Purch. Agents: H. G. Snyder & B. C. Wulf
V. P.-Sales: D. C. Smith S, PS, MS, CT, TT, RD

THOMPSON-BREMER & CO., DIV.-AMERICAN MACHINE & FOUNDRY CO.
228 N. La Salle St., Chicago 1, Ill. (Tel. FRanklin 2-6858)
V. P.-Purch.: William G. Evans
Sales Mgr.: Gail M. Rutledge M

ARTHUR TICKLE ENGRG. WORKS, INC.
21 Delevan St., Brooklyn 31, N. Y. (Tel. MAIN 5-4200)
Purch. Agent: William Doyle
Sales Mgr.: Nicholas P. Harvey

TIMES WIRE & CABLE CO., INC.
358 Holl Ave., Wallingford, Conn. (Tel. CDlony 9-3381)
Sales Mgr.: Robert Burtan M

TIMKEN ROLLER BEARING CO., THE
1835 Deuber Ave., S. W., Canton, Ohio (Tel. GL 3-4511)
Dir.-Purch.: Paul Young
V. P.-Sales: P. J. Reeves MS, M

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Propulsion System PS
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Materials M
Guidance G
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Tracking & Telemetry TT
Research & Development RD
Human Space Engineering HSE

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- E. F. TIMME & SON INC.**
1 Park Ave., New York 16, N. Y. (Tel. MU 3-2580)
V. P., Indsl. Div.: H. Arnold Giles
Asst. to V. P., Indsl. Div.: Joseph A. Krist M
- TINGSTOL CO.**
1340 W. Fullerton Ave., Chicago 14, Ill. (Tel. Wellington 5-4422)
Purch. Agent: J. Machina
V. P.-Sales: John P. Zopp M
- TINIUS OLSEN TESTING MACHINE CO.**
Easton Rd., Willow Grove, Pa. (Tel. OSborne 5-7100)
Purch. Agent: C. H. Keyser
Sales Mgr.: E. M. Redstreake CT
- TINNERMAN PRODUCTS, INC.**
Dept. 16, P. D. Box 6688, Cleveland 1, Ohio (Tel. SHadyside 1-9300)
Dir.-Purch.: R. F. Merriam
Dir.-Sales: L. H. Flora S
- TINSLEY LABS., INC.**
2526 Grove St., Berkeley, Calif. (Tel. THofnwoU 3-6836)
Purch. Agent: Robert J. Johnson
Pres.: Harvey L. Morton
- TITAN METAL MFG. CO., DIV.-CERRO DE PASCO CORP.**
Bellefonte, Pa. (Tel. EL 5-4712) (Also Newark, Calif.)
V. P.-Purch.: M. J. Rothrock
Gen. Purch. Agent: B. R. Tingue
Tech. Asst. to Gen. Purch. Agent: R. H. Eiser
V. P.-Sales: R. H. Lightner M
- TITANIUM METALS CORP. OF AMERICA**
233 Broadway, New York 7, N. Y. (Tel. WDRth 4-7620)
Dir.-Mktg.: T. W. Lippert
Sales Mgr.: Robert S. Nycum M
- TITFLEX, INC.**
603 Hendee St., Springfield 4, Mass. (Tel. RERpublic 9-5631)
Dir.-Purch.: A. B. Cobum
Buyer: R. Brennan
V. P.-Mktg.: E. M. Romberg PS, MS, RD
- TOBER ELECTRONIC CORP.**
180 Linden Ave., Westbury, N. Y. (Tel. EDgewood 4-6504)
Purch. Agent: W. C. Herbert
Buyers: W. Schrof & H. Westland
Pres.: W. G. Todd S, MS, G
- TOCCO DIV., THE OHIO CRANKSHAFT CO.**
3800 Harvard Ave., Cleveland 5, Ohio (Tel. Diamond 1-2300)
Dir.-Purch.: B. Seidel
Asst. Gen. Mgr.: L. S. Schweitzer
- TOLEDO COMMUTATOR CO.**
1101 S. Chestnut St., Dwooso, Mich. (Tel. SARatoga 5-8192)
Purch. Agent: M. A. Brush
Buyer: P. Durai
V. P.-Sales: E. R. Bisord
- TOPATRON, INC.**
942 E. Djai Ave., Ojai, Calif. (Tel. MIlton 6-1600)
Purch. Agent: M. O. Olson
Sales Mgr.: L. H. Appleman G, CT, TT, RD
- TOPFLIGHT CORP.**
160 E. 9th Ave., York, Pa. (Tel. 8-1541)
Purch. Agent: Frank Buttorff
Sales Dir.: R. M. Dent
- TOPPER MFG. CO., INC.**
84-56 Parsons Blvd., Jamaica 32, N. Y. (Tel. AXtel 7-5742)
Dir.-Purch.: J. A. Stancey
Dir.-Sales: Fred Greil M, CT, RD
- TORIT MFG. CO.**
1133 Rankin St., St. Paul, Minn. (Tel. Mldway 8-0391)
Purch. Agent: George Huna
V. P.-Sales: Frank Chase M
- TORK TIME CONTROLS, INC.**
1 Grove St., Mount Vernon, N. Y. (Tel. MO 4-3542)
Dir.-Purch.: Edward H. Klein, Jr.
Dir.-Sales: Dorset J. White
- C. W. TORNGREN CO., INC.**
236 Pearl St., Somerville 45, Mass. (Tel. MOnument 6-3250)
- Purch. Agent: Wm. DeCain
Dir.-Sales: Kenneth A. Casovant S, PS
- TORRINGTON CO., THE**
59 Field St., Torrington, Conn. (Tel. HUinter 2-4441)
Dir. Purch.: W. V. Vierling
Purch. Agent: F. W. Sanders
Sales Mgr.: R. G. D'Connell PS, MS, G, TT, RD
- TORRINGTON MFG. CO. INC., THE, SPECIALTY BLOWER DIV.**
100 Franklin Drive, Torrington, Conn. (Tel. HUinter 2-4422)
Purch. Agent: R. J. Geiger
Sales: A. M. Wilczenski MS, G, CT, RD
- TORSION BALANCE CO., THE**
35 Monhegan St., Clifton, N. J. (Tel. GREGory 3-6900)
Purch. Agent: C. Wesley
Div. Sales Mgr.: E. H. Enberg CT
- TORMCO ELECTRONICS, INC.**
1095 Morris Ave., Union, N. J. (Tel. ELizabeth 4-5650)
Purch. Agent: H. G. Riche
Pres. & Sales Mgr.: George Kontra MS, G, TT, RD
- TOWACO ELECTRONICS**
Pine Brook Rd., Towaco, N. J. (Tel. DE 4-4443)
Pres.: Samuel I. Cory, Jr. TT
- TOWER CONSTRUCTION CO.**
2700 Hawkeye Drive, Sioux City, Iowa (Tel. 5-7653)
Purch. Agent: J. R. Edwards
Asst. Sales Mgr.: G. S. Chesen
Gen. Mgr.: C. A. Wright S
- TOWER MFG. CORP.**
158 Pine St., Providence, R. I. (Tel. GASpee 1-2061)
Gen. Mgr.: Louis J. Shatkin CT
- TRACERLAB INC.**
1601 Trapelo Rd., Waltham 54, Mass. (Tel. TW 4-6600)
Chief Purch. Agent: John A. Klumpe
V. P.-Mktg.: Homer S. Myers RD
- TRAID CORP.**
17136 Ventura Blvd., P. D. Box 648, Encino, Calif. (Tel. TRIangle 3-3373)
Purch. Agent: A. J. DeMarco
Pres.: Fred G. Roberts, Jr. TT
- TRAILMOBILE INC.**
31st & Robertson Sts., Cincinnati 9, Ohio (Tel. REdwood 1-2323)
Dir.-Purch.: Wm. H. French
V. P.-Sales: Harry Eyer S, MS, M
- TRANE CO., THE**
2nd & Cameron Ave., La Crosse, Wisc. (Tel. 2-8000)
V. P.-Purch: R. H. Peorse
V. P.-Sales: A. C. Menke
- TRANS ELECTRONICS, INC.**
7349 Canoga Ave., Canoga Park, Calif. (Tel. Diamond 0-3333)
Purch. Agent: J. V. Ritenour
Sales Mgr.: R. Andrew Phillips
- TRANSCO PRODUCTS, INC.**
12210 Nebraska Ave., Los Angeles 25, Calif. (Tel. BRadshaw 2-5687)
Purch.: Hugh P. Rice
Buyer: William Wookey
Gen. Sales Mgr.: Nathaniel DAVIS MS, CT, TT, RD
- TRANSFORMER DESIGN, INC. OF MILWAUKEE**
7377 North 76th St., Milwaukee 23, Wisc. (Tel. FLagstone 3-8017)
Pres.: Howard S. Knopow
V. P.: Rubin B. Lesgold
- TRANSFORMER SPECIALTY CO.**
1400 Mill Creek Rd., Gladwyne, Pa. (Tel. Mldway 9-4360)
Pres.: H. D. Hosier MS, TT
- TRANSFORMERS, INC.**
200 Stage Rd., Vestal, N. Y. (Tel. Pioneer 8-3311)
Purch. Agent: F. Bleyer
Sales Coordinator: J. D. Brady S, CT, RD
- TRANSCOIL DIV.-DAYSTROM INC.**
Trooper Rd., Worcester, Pa. (Tel. JUNo 4-2421)
Purch. Agent: Pete Toscono
Dir.-Sales: John J. Gattoline
- TRANSISTOR DEVICES INC.**
626 Schuyler Ave., Kearny, N. J. (Tel. WY 8-R108)
- Chief Engr.: Walter I. Weiss
Sales Mgr.: Joseph D. Ezechel, Jr.
- TRANSISTOR ELECTRONICS CORP.**
3357 Republic Ave., Minneapolis 26, Minn. (Tel. WEst 9-6754)
Purch. Agent: H. J. Peterson
V. P.-Sales: R. C. Skoe
Sales Mgr.: W. H. Rock MS, CT
- TRANSISTRON ELECTRONIC CORP.**
168 Albion St., Wakefield, Mass. (Tel. CRystal 9-4500)
Purch. Agent: Ralph Young
Sales Mgr.: H. T. Neavitt G, CT, TT
- TRANS-SIL CORP.**
55 Honeck Street, Englewood, N. J. (Tel. LDwell 7-1720)
Pres.: Louis J. Grennell
Purch. Agent: Thomas Wells
V. P.-Sales: Irwin Weinstein MS, M
- TRANS-SONICS, INC.**
P. D. Box 328, Lexington 73, Mass. (Tel. BRowing 2-1000)
Purch. Agent: Robert L. Meader
Gen. Sales Mgr.: Sheldon W. Kennedy MS, CT, TT
- TRANSUE & WILLIAMS STEEL FORGING CORP.**
1300 Ely, Alliance, Ohio (Tel. TALbot 1-5741)
Purch. Agent: H. C. Martin
Asst. Purch. Agent: R. H. Cost
Sales Mgr.-Stamping Div.: C. J. Brunn
Sales Mgr.-Forge Div.: J. W. Ament PS, MS
- TRANS-WESTERN ELECTRONICS**
P. D. Box 1473 Ventura, Calif. (Tel. MILLer 2-4219)
Purch. Agent: G. Reins
Sales Mgr.: M. M. Neer CT
- TRANTRER MFG., INC.**
735 E. Hazel, Lansing, Mich. (Tel. IV 4-4531)
Purch. Agent: M. C. Nolen
Sales Mgr.: S. J. Stowell M
- TRENT TUBE CO.**
498 S. Church St., East Troy, Wisc. (Tel. Mldway 2-7321)
Purch. Agent: S. R. Erickson
Sales Mgr.: F. W. Beitner M
- TRENTON TRANSFORMER CORP.**
P. O. Box 568, Trenton, N. J. (Tel. OWen 5-3451)
V. P.-Purch.: E. S. Washburn M
- TREPAC CORP. OF AMERICA**
30 W. Hamilton Ave., Englewood, N. J. (Tel. LDwell 7-3810)
Pres.: H. S. Weaver
Mgr.-Purch.: C. E. Dolan
Sales Mgr.: L. White MS, M, G, CT, TT
- TRESCO, INC.**
3824 Terrace St., Philadelphia 28, Pa. (Tel. IV 3-1383)
Purch. Agent: Stanley Fisher
Sales: Ston Auerbach
- TRIAD TRANSFORMER CORP.**
4055 Redwood Ave., Venice, Calif. (Tel. EXmont 7-2145)
Purch. Agent: G. L. Howard
Sales Mgr.-Jabber: Ernest Clover
Sales Mgr.-Industrial: Edmund Shimmel M, CT, TT, RD
- TRICRAFT PRODUCTS CORP.**
1124 W. Newport Ave., Chicago 13, Ill. (Tel. WEllington 5-5383)
Pres.: Frank J. Klancnik
Gen. Mgr.: E. A. Goncoe RD
- TRI-EX TOWER CORP.**
127 E. Inyo St., Tulare, Calif. (Tel. MU 6-3411)
Gen. Mgr.: Louis V. Tristao
Plant Supt.: Harold Holscher S, RD
- TRIMOUNT INSTRUMENT CO.**
3119 W. Lake St., Chicago 12, Ill. (Tel. NEvoda 2-3747)
Purch.: F. R. Arens
Sales Mgr.: D. E. Haines CT, RD
- TRINDL PRODUCTS, LTD.**
1807-11 S. Clark St., Chicago 16, Ill. (Tel. VICTory 2-7716)
V. P.-Purch.: Joseph H. Trindl, Jr.
- TRINITY EQUIPMENT CORP.**
Rt. 281, Cortland, N. Y. (Tel. SKYline 6-7535)
Purch. Agent: Thomas G. Meares
Asst. Purch. Agent: Roger C. Harris, Jr.
Pres. & Gen. Sales Mgr.: George R. Feeley MS, G, TT

TRIO CHEMICAL WORKS, INC.
341 Scholes St., Brooklyn 6, N. Y. (Tel. HYacinth 7-3595)
Purch.: Harold Blank
Sales: M. M. Blank

TRIO LABORATORIES, INC.
Plainview, L. I., N. Y. (Tel. OVerbrook 1-0400)
Purch. Agent: Thomas M. Curry
Sales Mgr.: Jay S. Salz MS, CT, RD

TRIPLETT ELECTRICAL INSTRUMENT CO.
Harmon Rd., Bluffton, Ohio (Tel. 323-W)
Purch. Agent: P. W. Stauffer
V. P.-Sales: N. A. Triplett CT

TRI-POINT PLASTICS INC.
175 L. U. Willets Rd., Albertson, L. I., N. Y. (Tel. MAyfair 1-5800)
Purch. Agent: Sid Kipnes
Dir.-Sales: Pat Ruggieri PS, MS, M, G, CT, RD

TROMBETTA SOLENOID CORP.
329 N. Milwaukee St., Milwaukee, Wisc. (Tel. BRoadway 1-8347)
Gen. Mgr.: Panfilo Trombetta MS

TRU-CONNECTOR CORP.
416 Union St., Lynn, Mass. (Tel. LY 8-9379)
Gen. Mgr.: James J. O'Neil, Jr.
Purch. Agent: Robert F. Hoff
Sales Mgr.: Robert A. Peters M

TRUE ALLOYS INC.
284 S. Summit St., Detroit 9, Mich. (Tel. VInewood 2-8686)
Pres.: J. P. Carritte

TRU-OHM PRODUCTS DIV.-MODEL ENG. & MFG., INC.
2800 N. Milwaukee Ave., Chicago 18, Ill. (Tel. EVERglade 4-2646)
Purch. Agent: Robert Riley
Dir.-Sales: Mel M. James

TUBE DISTRIBUTORS CO., INC.
1415 Kellum Place, Garden City, N. Y. (Tel. Pioneer 7-5000)
Purch. Agent: Albert Salis
Exec. Asst. to Pres.: Alan Seligson M

TUBE METHOOS INC.
Depot & Rambo Sts., Bridgeport, Pa. (Tel. BRoadway 9-7700)
Exec. V. P.: Paul V. Fly
Sales Mgr.: John E. MacNamara M

TUBE REDUCING CORP.
520 Main Ave., Wallington, N. J. (Tel. PRescott 7-3700)
Purch. Agent: E. P. McMahon
V. P.-Sales: R. L. Tannehill M

TUBESALES
2211 Tubeway, Los Angeles 22, Calif. (Tel. Raymond 3-7781)
Mgr.-Pricing & Proc.: J. H. Van Uden
Mgr.-Sales: W. C. Tagmyer
V. P.-Sales: H. P. Curtis M

TUBE-TURNS DIV., CHEMETRON CORP.
224 E. Broadway, Louisville 2, Ky. (Tel. JUniper 07-7551)
Purch. Agent: R. J. Dilger
Buyer, Raw Material: Thomas Bougher
V. P.-Sales: John E. Chumbley, Jr. PS

TUCSON INSTRUMENT CORP.
1050 E. Valencia Rd., P. O. Box 11247, Tucson 2, Ariz. (Tel. MAin 2-1092)
Pres.: F. R. Perier
V. P.-Sales: Louis A. Wilson, Jr. MS, CT, RD

TUNG-SOL ELECTRIC, INC.
1 Summer Ave., Newark 4, N. J. (Tel. HU 4-8500);
200 Bloomfield Ave., Bloomfield, N. J. (Tel. PIlgrim 8-8700)
Chief Purch. Agent: E. Garretson (Bloomfield)
Purch. Agents: R. Darling & T. Royment (Bloomfield)
Mgr.-Prod. Mktg.: H. S. Evander (Bloomfield) G

TUR-BO JET PRODUCTS CO., INC.
424 S. San Gabriel Blvd., San Gabriel, Calif. (Tel. CUmberland 3-5191)
Pres.: Otto N. Bloom
Mgr.: Charles A. Sprowl

TURBOCRAFT, INC.
492 E. Union St., Pasadena, Calif. (Tel. MUrray 1-5253)
Pres. & Gen. Mgr.: Clifford R. Crusan
Eng. Mgr.: Frank A. Mandok MS, RO

TURCO PRODUCTS, INC.
2400 S. Main St., Wilmington, Calif. (Tel. SPruce 5-2111)
Dir.-Purch.: R. J. Sheridan
Las Angeles, Purch.: D. W. Eckroad
V. P.-Mktg.: Don T. Buist
Gen. Sales Mgr.: A. K. Beard M, RD

H. W. TUTTLE & CO.
805 S. Evans St., Tecumseh, Mich. (Tel. 1008)
Purch. Agent: L. H. Hardesty
Pres.: M. K. Tuttle
V. P.: H. W. Tuttle, Jr.
Sales Mgr.: E. J. Bailey

TWIN COACH CO., AIRCRAFT-MISSILES
P. O. Box 2507, Buffalo 25, N. Y. (Tel. PLaza 5150)
Materials Office: E. E. Rhoads
V. P.-Contracts Admin.: G. R. Hecht
Purch. Mgr.: R. I. Candon
Purch. Agent: F. W. Mayer S, MS, RD

TWIX MFG. CO., INC.
40-09 21st St., Long Island City 1, N. Y. (Tel. STilwell 4-0530)
Dir.-Purch.: B. Pilmer
Purch. Agent: R. Quinn
Asst. Purch. Agent: M. Meyers
V. P.-Sales: J. Albert S, MS

É. F. TWOMEY CO., INC.
728 W. 10th Pl., Los Angeles 15, Calif. (Tel. RI 9-9451)
Secy.-Treas.: E. F. Twomey, Jr. M

TYPHOON AIR CONDITIONING DIV., HUPP CORP.
505 Carroll St., Brooklyn 15, N. Y. (Tel. ULster 8-0800)
Purch. Agent: George W. Weinberg
Asst. Purch. Agent: T. E. Krawetz
V. P.-Sales: John A. Gilbreath

U B S CHEMICAL CO., DIV.-A. E. STALEY MFG. CO.
491 Main St., Cambridge, Mass. (Tel. UN 4-7300)
Dir.-Purch.: C. M. Kopatch
Dir.-Sales: J. C. Smith M

U. E. ELECTRONICS CORP.
285 Warren St., Lyndhurst, N. J. (Tel. GEneva 8-2400)
Purch. Agent: John McElroy
Sales Mgr.: Stephen Harbach MS

UDYLITE CORP., THE
Detroit 11, Mich. (Tel. WA 1-3500)
Dir.-Purch.: V. E. Zabel
Sales Mgr.: L. J. Mimbale M, RD

UEHLING INSTRUMENT CO.
473 Getty Ave., Paterson, N. J. (Tel. SHerwood 2-8710)
Purch. Agent: J. W. Riccobene
Sales Mgr.: P. J. Riccobene

GEORGE ULANET CO.
413 Market St., Newark 5, N. J. (Tel. MArket 2-4876)
Sales: H. Ulaner M

ULLMAN OEVICES CORP.
Danbury Rd., Ridgefield, Conn. (Tel. IDlewood 8-6577)
Dir.-Prod.: John Patella
Dir.-Sales: Edward Ullman

ULTRA ELECTROFORMING & MFG. CO.
110 Cedar Ave., Pitman, N. J. (Tel. LUther 9-7666)
Treas.: E. P. Carter

ULTRAQOYNE, INC.
2630 San Mateo, N. E., Albuquerque, N. M. (Tel. AMherst 8-2431)
Mgr.-Tech. Sales: Edward L. Amonette MS, G, CT, TT

ULTRASONIC ENGRG. CO.
618 Lake St., Maywood, Ill. (Tel. FI 4-8814)
Pres.: H. R. Hall CT

ULTRA-VIOLET PRODUCTS, INC.
5114 Walnut Grove Ave., San Gabriel, Calif. (Tel. CUmberland 3-3193)
Factory Supt.: Melvin D. Hershey
Sales Mgr.: T. S. Warren CT

UNDERWOOD ELECTRIC & MFG. CO., INC.
4926 W. Grand Ave., Chicago, Ill. (Tel. NAtional 2-9450)
Purch.: Edward J. Meier
Sales: Robert G. Futterer

UNGAR ELECTRIC TOOLS, QIV-ELDON INC.
4101 Redwood Ave., Los Angeles 66, Calif. (Tel. EXmant 8-5718)
Purch. Mgr.: Frank Hurd
Gen. Mgr.: William L. Nehrenz

UNHOLTZ-DICKIE CORP.
2994 Whimsey Ave., Hamden 18, Conn. (Tel. ATwater 8-3358)
Pres.: John A. Dickie
V. P.: Karl Unholtz CT

UNIFIED INDUSTRIES, INC.
10939 Vanowen St., North Hollywood, Calif. (Tel. TRIangle 7-5647)
Prod. Coordinator: Walter McHugh
Mil. Liaison: William Carl (Tel. PO 6-1411) S, MS, CT, RD

UNI-FLEX MFG. & ENGRG. INC.
5545 E. Slauson Ave., Los Angeles 22, Calif. (Tel. OV 5-8070)
Chief, Est.: Verne Perry
Sr. V. P.-Sales: John Conley S, MS

UNIFORM HOOD LACE CO.
633 E. St. Clair St., Indianapolis 2, Ind. (Tel. ME 1-9177)
Purch. Agent: B. S. Anthony
Sales Mgr.: James R. Anthony M

UNIFORM TUBES, INC.
Level Rd., Calleguille, Pa. (Tel. HUxley 9-7276)
Purch. Agent: Gordon Hattersley
Sales Mgr.: D. T. MacNair M

UNIMAX SWITCH DIV., THE W. L. MAXSON CORP.
Ivex Rd., Wallingford, Conn. (Tel. COLony 9-8701)
Purch. Agent: J. Osias
Sales Mgr.: J. Martinez
Asst. Sales Mgr.: J. Jacobs MS, G, CT, TT, RD

UNION ASBESTOS & RUBBER CO.
1111 W. Perry St., Bloomington, Ill. (Tel. 3-8081)
Purch. Agent: L. Vicha
Sales Mgr.: E. T. Plummer M

UNION CARBIDE METALS CO., DIV.-UNION CARBIDE CORP.
30 E. 42nd St., New York 17, N. Y.

UNION CARBIDE PLASTICS CO.
30 East 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-8000)
Dir.-Purch.: S. V. Clarke
Purch. Dept.: C. W. Goodman & W. J. Hann
V. P.-Sales: J. D. Benedito M

UNION SWITCH & SIGNAL DIV.-WESTINGHOUSE AIR BRAKE CO.
Broadack Ave., Pittsburgh 18, Pa. (Tel. CHurchill 2-5000)
Mgr.-Purch.: H. I. McKeever
Sr. Buyer: C. S. Paxon
Mgr.-Gen. Apparatus: P. K. Eckhardt MS

UNISON PRODUCTS, INC.
705 W. Sawdige St., Spring Lake, Mich. (Tel. VIlking 2-1349)
Pres.: M. Bakels
Sales Mgr.: Raymond Berwald MS, G, RD

UNIT CRANE & SHOVEL CORP.
6411 W. Burnham St., Milwaukee, Wisc. (Tel. MITchell 5-8840)
Asst. to Pres. & Works Mgr.: A. B. Py
Purch. Agent: W. F. Ellingson
V. P.-Sales: A. R. Corbett
Sales Mgr.-Electric Cranes: V. S. Bornes
Sales Mgr.-Mechanical Cranes: J. Lenahan MS

UNIT PROCESS ASSEMBLIES, INC.
61 E. 4th St., New York 3, N. Y. (Tel. SPring 7-1398)
Purch.: C. Cirilli
Sales Mgr.: S. U. Lieber CT

UNITED AIRCRAFT PRODUCTS, INC.
1116 Bolander Ave., Dayton 8, Ohio (Tel. BALdwin 4-3841)
Purch. Agent: Les Trew
V. P.-Sales: Frank A. Ryan PS, MS, CT

UNITED CARBON PRODUCTS CO.
1318 N. Madison St., Bay City, Mich. (Tel. TWINbrook 3-4575)
Purch. Agent: M. D. Sardyl
Sales Mgr.: E. J. Musinski

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Materials M
Guidance G
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- UNITED CONTROL CORP.**
4540 Union Bay Pl., Seattle 5, Wash. (Tel. LAkeview 5-9200)
Purch. Agent: Hugh LaVille
Components Buyers: George Jensen & Earl Carp
Mgr.-Sales Dept.: John M. Mix **MS**
- UNITED ELECTRIC CONTROLS CO.**
85 School St., Watertown 72, Mass. (Tel. WAInut 6-1000)
Purch. Agent: R. Rando
Asst. Purch. Agent: M. Tutunjian
V. P.-Sales: S. Tinerr **PS, MS, CT**
- UNITED ELECTRONIC MFG. CORP.**
542 39th St., Union City, N. J. (Tel. UNION 5-4452)
Dir.-Sales: Charles M. Wolf **M**
- UNITED MFG. CO., THE**
5250 Dobeckmun Ave., Cleveland 2, Ohio (Tel. OLympic 1-6310)
Purch. Agent: Harold L. Murphy
Sales Mgr.: W. R. Albrecht **MS, M, RD**
- UNITED MFG. CO. DIV., W. L. MAXSON CORP.**
41 Haig St., Hamden 14, Conn. (Tel. New Haven-CH 8-4491)
Purch. Agent: C. W. Redmand
V. P.-Sales: V. A. Stanciliff **MS, CT**
- UNITED MINERAL & CHEMICAL CORP.**
16 Hudson St., New York 13, N. Y. (Tel. BEekman 3-8870)
Purch. Agent: Terry O. Kancelik
Sales: Herbert M. Rosenthal
Mgr.-Metals Dept.: Alexander Imich **M**
- UNITED PLATING WORKS, INC.**
4118 N. Mingo Rd., Tulsa 15, Okla. (Tel. Temple 5-4683)
Purch.: S. A. Bergman
V. P.-Sales: Meredith L. Sutton
- UNITED SENSOR & CONTROL CORP.**
122 Naubuc Ave., Glastonbury, Conn. (Tel. ME 3-2867)
Purch. Agent: G. W. Hughes **CT**
- UNITED SHOE MACHINERY CORP.**
140 Federal St., Boston 7, Mass. (Tel. Liberty 2-9100)
Dir.-Purch.: H. F. Pfaff
Purch.: R. J. Carroll, George E. Bowen
V. P.: C. R. Todd **RD**
- UNITED SMELTING & ALUMINUM CO., INC.**
P. O. Box 1910, New Haven, Conn. (Tel. MA 4-2181)
Pres.: R. E. Lapidés
Gen. Supt.: F. A. Merliss
Exec. V. P.-Sales: Milton E. Rosenthal
- U. S. A.C. TRANSPORT, INC.**
457 W. Fort St., Detroit, Mich. (Tel. WOodward 3-7913)
Dir.-Cust. Rel.-Sales: J. Wade Jacobson
S, PS, MS, M, G, CT, TT, RD, HSE
- U. S. COMPONENTS INC.**
454-462 E. 148th St., New York 55, N. Y. (Tel. CYpress 2-6525)
V. P.-Purch. & Sales: B. A. Jackson
Chief Engr.: S. Nalbantian
PS, MS, G, CT, TT, RD, HSE
- U. S. ELECTRICAL MOTORS**
Box 2058, Terminal Annex, Los Angeles 54, Calif. **M, CT**
- U. S. ELECTRICAL TOOL CO.**
3640 Llewellyn St., Cincinnati, Ohio (Tel. MUlberry 1-3410)
V. P.-Purch.: G. O. Behlen
Oir.-Sales: P. O. Schneider
- U. S. GEAR CORP.**
81 Bay State Rd., Wakefield, Mass. (Tel. CRystal 6-4900)
Pres.: Robert A. Sayce
V. P.-Engrg.: A. P. Cotreau
V. P.-Sales: Oavid M. Abbot
- U. S. INOSL. CHEMICALS CO., OIV.-NATIONAL DISTILLERS & CHEMICAL CORP.**
99 Park Ave., New York 16, N. Y. (Tel. OX 7-0700)
V. P.-Purch.: R. E. Hennessy
V. P.-Sales: A. R. Ludlow, Jr. **M**
- U. S. INDUSTRIES, INC.**
250 Park Ave., New York, N. Y. (Tel. OXFord 7-4141)
Sales: T. Petrides
S, MS, M, G, CT, RD
- U. S. PIPE & FOUNDRY CO., STEEL & TUBES DIV.**
E. Pearl St., Burlington, N. J. (Tel. DUDley 6-1850)
Sales Mgr.: John O. Lewis
Purch. Agent: H. E. Cross, 3300 First Ave., North Birmingham, Ala. (Tel. AL 2-3161)
Asst. Purch. Agent: J. D. Dantzler (Tel. AL 1-3161) **PS, M**
- U. S. PLASTIC MOLDING CORP.**
130 Carlton St., Wallingford, Conn. (CDIany 9-4426)
Purch. Agent: H. Schenck
Sales Mgr.: A. Johnson **MS**
- U. S. RELAY-ELECTRONICS, DIV.-A.S.R. PRODUCTS CORP.**
717 N. Caney Ave., Azusa, Calif. (Tel. EDgewood 4-8206)
Purch. Mgr.: S. J. Astrican
Asst. Purch. Mgr.: Ben Marks
Sales Mgr.: Lyle D. Bunce
- U. S. SCIENCE CORP., DIV.-TOPP INDUSTRIES, INC.**
S221 W. 102nd St., Los Angeles 45, Calif. (Tel. SPring 6-0450)
Oir. Materiel: W. B. Miller
Buyers: W. J. Steffy, G. H. Wood
Mgr.-Cust. Rel.: M. A. Pahlavan **MS, M, CT, RD**
- U. S. SEMICONDUCTOR PRODUCTS DIV.-UNITED INDUSTRIAL CORP.**
3540 W. Dsborn Rd., Phoenix, Arizona (Tel. BRowning 2-1341)
Purch. Agent: Raymond W. Delar
V. P.-Sales: Joseph C. Warth, Jr. **RO**
- U. S. SONICS CORP.**
625 McGrath Hwy., Somerville 45, Mass. (Tel. MDnument 6-8781)
Oir.-Purch. & Sales: Merrill Callum **M**
- U. S. STEEL SUPPLY DIV., UNITED STATES STEEL CORP.**
208 S. LaSalle St., Chicago 4, Ill. (Tel. CEntral 6-9200)
Mgr.-Material Cont.: J. E. Grant
V. P.-Sales: K. P. Rindfleisch **RO**
- UNITED STATES CHEMICAL MILLING CORP.**
1700 Rosecrans Ave., Manhattan Beach, Calif. (Tel. ORegon 8-4041)
Purch. Agents: J. H. Vincent, Jr., Gamar M. Adams & Glenn F. Heck
Asst. Dir.-Contracts: R. S. Stevens
Gen. Purch. Agent: R. V. McCullach, 12915 Weber Way, Hawthame, Calif. (Tel. DRegon 8-4015) **S, M, RD**
- UNITED STATES GRAPHITE CO., THE, DIV.-THE WICKES CORP.**
1621 Holland Ave., Saginaw, Mich. (Tel. PLeasant 5-0441)
- UNITED STATES INSTRUMENT CORP.**
P. O. Box 1191, Charlottesville, Va. (Tel. 3-S153)
- UNITED STATES PLASTIC ROPE, INC.**
2581 Spring St., Redwood City, Calif. (Tel. EIkerson 8-1461)
Gen. Mgr.: James G. Allio **M**
- UNITED STATES PLYWOOD CORP.**
55 W. 44th St., New York 36, N. Y. (Tel. MU 2-1900)
Dir.-Purch.: William Tietgen
V. P.-Sales: Manrae W. Pollack **S, M, RD**
- UNITED STATES RADIUM CORP.**
P. O. Box 246, Marrison, N. J. (Tel. JEfferson 9-4000)
Purch. Agent: R. Van Epps
Asst. Purch. Agent: D. Weaver
V. P.-Sales: C. W. Walhausen **MS, M, G, CT, TT**
- UNITED STATES RUBBER CO.**
1230 Ave. of the Americas, New York, N. Y. (Tel. Circle 7-5000)
Oir.-Purch.: S. W. MacKenzie
Asst. Oir.-Purch.: W. H. Sprattling
Govt. Dept.-Sales: Oouglas K. Bonn, Mgr., 1700 K Street, N. W., Washington, D. C. **PS, MS, M, RO**
- UNITED STATES STEEL CORP.**
525 William Penn Place, Pittsburgh 30, Pa. (Tel. EXpress 1-2345)
V. P.-Purch.: R. C. Maffitt
Purch. Agent-Raw Material: E. G. Barrett
Purch. Agent-Prod. Supplies: S. Parey
Purch. Agent-Equip.: R. F. Oysan
Dir.-Sales: R. F. Sentner **S, PS, MS, M**
- UNITED STATES TESTING CO., INC.**
1415 Park Ave., Hoboken, N. J. (Tel. SWarthmore 2-2400)
Purch. Agent: R. C. Halmes
Sales Mgr.: A. F. Maxfield **CT, RD, HSE**
- UNITED STATES TIME CORP., THE, GYRO OIV.**
375 Park Ave., New York 22, N. Y. (Tel. PLaza 9-5665)
Sales Mgr.: H. D. Armstrong
Sales Engr.: C. D. Stalker
Purch. Agent: E. Hull, Waterbury 20, Conn. (Tel. PLaza 8-2444) **G, RD**
- UNITED STATES WIRE & CABLE CORP.**
Progress & Monroe Sts., Union, N. J. (Tel. MURdock 8-1100)
Purch. Agent: Herman Goldrum
Sales Mgr.: Richard A. Hyer **M**
- UNITED SUPPLY CO.**
3676 S. Broadway Pl., Los Angeles 7, Calif. (Tel. AOams 3-4384)
Pres.: Harry L. Guss
Mgr.-Contracts: Morris C. Guss
Sales Mgr.: Arthur C. Brownell **M**
- UNITED TECHNOLOGY CORP.**
1944 University Ave., Palo Alto, Calif. (Tel. DA 1-5510); P. O. Box 365, Menlo Park, Calif. (Tel. DA 1-2550)
Dir.-Purch.: H. A. Crawford (Tel. DA 1-2550)
Asst. Purch. Agent: Hugh Stanton (Tel. DA 1-2550)
Buyer: Ruth Pasca (Tel. DA 1-2550) **PS, M, RD**
- UNITED WIRE & SUPPLY CORP.**
1497 Elmwood Ave., Providence 7, R. I. (Tel. STUART 1-3000)
Purch. Agent: Hector A. Saucy
Gen. Sales Mgr.: J. G. Landrigan
- UNIVERSAL CIRCUIT CONTROLS**
3610 Dakran St., Skokie, Ill. (Tel. DRchard 5-2620)
Gen. Mgr.: Sander B. Friedman
Sales Mgr.: Earl R. Sayre
- UNIVERSAL CONDENSER CO.**
3435 N. Kimball Ave., Chicago 18, Ill. (Tel. CO 7-3933)
Pres.: A. S. Ridgway (Tel. CD 7-1877)
Chief Engr.: E. S. Ridgway
- UNIVERSAL CYCLOPS STEEL CORP.**
Executive Offices, Bridgeville, Pa. (Tel. CAnal 1-8000)
V. P. & Gen. Mgr.: F. A. Kaufman
V. P.-Sales: W. J. Long **M, RD**
- UNIVERSAL DRAFTING MACHINE CORP.**
7960 Lardin Ave., Cleveland 2, Ohio (Tel. OL 1-4747)
Purch. Agent: D. DeVito
V. P.-Sales: S. W. Hoover
- UNIVERSAL DYNAMICS CORP.**
P. D. Box 9814, 1441 N. 19th St., Arlington 9, Va. (Tel. JAckson 5-4541)
Purch. Agent: David L. Watson
Sales Mgr.: Kirk L. Burns **MS, CT, RD**
- UNIVERSAL ELECTRIC CO.**
300 E. Main St., Dwossa, Mich. (Tel. SARataga 5-7174)
Oir.-Purch.: Gerald Haddy
Dir.-Sales: A. E. Kerscher **MS, M**
- UNIVERSAL ELECTRONICS CO.**
1720 22nd St., Santa Monica, Calif. (Tel. EXbrook 3-9219)
Purch. Agent: Wilbert Kemp
- UNIVERSAL MFG. CO., INC.**
1168 Grove St., Irvington 11, N. J. (Tel. ESsex 4-9800)
Purch. Agent: W. E. Arends
Sales Engr.: Anthony O. Vicari
- UNIVERSAL MOULDED PRODUCTS CORP.**
Commonwealth Ave., Bristol, Va. (Tel. NO 9-1181)
Oir.-Prac. T. F. Marell
Buyer-Plastic Oiv.: Charles Fagan
Buyer-Cabinet Oiv.: J. G. Barnes
V. P.-Sales: C. L. Meeter **S, MS, RO**
- UNIVERSAL TOROJO COIL WINDING, INC.**
171 Calt St., Irvington 11, N. J. (Tel. ESsex 4-9806)
Purch. Agent: Irene B. Cardina
Sales Mgr.: Anthony O. Vicari
- UNIVERSAL TRANSISTOR PRODUCTS CORP.**
36 Sylvester St., Westbury, N. Y. (Tel. EOgwood 3-3304)
Purch. Agent: Stanley Palaski
Dir.-Sales: Albert Schneider **MS**

UNIVERSAL UNLIMITED, INC.
Pratt Oval, Glen Cove, N. Y. (Tel. Oriale 6-4600)
Purch. Agent: Henry J. Belmont
Sales Mgr.: Mark L. Steiner TT

UNIVERSITY LOUDSPEAKERS, INC.
80 S. Kensico Ave., White Plains, N. Y. (Tel. White Plains 6-7700)
Purch. Agent: Rocco Di Rico
Sales Mgr.: Charles Roy RD

UTILITY BRASS & COPPER CORP.
116 King St., Brooklyn 31, N. Y. (Tel. ULster 8-9400)
Buyer: R. Andersen
Sales Mgr.: G. E. Martin M, RD

V & H RADIO & ELECTRONICS
2053 Venice Blvd., Los Angeles 6, Calif. (Tel. RE 5-0215)

VACAP CORP.
1905 Summit Ave., Union City, N. J. (Tel. Union 7-6699)
V. P.-Purch. & Sales: L. Dolinko M, CT, RD

VAC-HYD PROCESSING CORP.
116 Manchester, Highland Park 3, Mich. (Tel. TO 9-6333)
Pres.: Robert F. Gunow
V. P.: L. E. Oliphant
Factory Mgr.: W. A. Coulter S, PS

VACO PRODUCTS CO.
317 E. Ontario St., Chicago 11, Ill. (Tel. WH 4-2340)
Purch. Agent: Jack Morozinc
V. P.-Sales: Roy Vetzner M

VACUUM RESEARCH CO.
420 Market St., San Francisco 11, Calif. (Tel. YUkon 2-3565)
Purch.: H. F. Perezona, 1929 Williams St., San Leandro, Calif. (Tel. L.Ockhoven 8-1252)
Sales: Larry Wright, San Francisco

VACUUM SPECIALTIES CO., INC.
34 Linden St., Somerville 43, Mass. (Tel. MOnument 6-5450)
Pres.: William DiPietro
Gen. Mgr.: George DiPietro
Purch. Agent: Betty Nichols
Sales Mgr.: George W. Carr M

VACUUM TUBE PRODUCTS DIV., HUGHES AIRCRAFT CO.
2020 Short St., Oceanside, Calif. (Tel. SARatoga 2-2101)
Purch. Agent: John Grosso
Mktg. Mgr.: A. Earle Fisher RD

VAL COR ENGRG. CORP.
565 Carnegie Ave., Kenilworth, N. J. (Tel. CHestnut 5-1665)
Purch. Agent: M. A. Kreitchman
Gen. Sales Mgr.: Murray Maslow PS, MS, RD

VALOR INSTRUMENTS, INC.
13214 Crenshaw Blvd., Gardena, Calif. (Tel. FACulty 1-2280)
Purch. Agent: E. Kurchok
Prod. Mgr.: R. Cook
Pres.: T. J. Johnson
V. P.-Sales: W. T. Burns G, CT, TT

VALPEY CRYSTAL CORP.
1244 Highland St., Holliston 1, Mass. (Tel. GARden 9-4851)
Dir.-Purch.: Robert W. Volpey
V. P.: T. S. Volpey, Jr.
Sales Mgr.: Nelson B. Piper, Jr. M, RD

VALVERDE LABS
252 Lafayette St., New York 12, N. Y. (Tel. WALKer 5-6742)
Owner: Robert Valverde CT

VAN DER HORST CORP.
1645 East State Rd., Olean, N. Y. (Tel. 3173)
Purch. Agent: A. B. Roop
Sales Mgr.: Frank Jorstad

VAN KEUREN CO.
176 Waltham St., Watertown 72, Mass. (Tel. WATertown 4-4394)
Pres.: R. T. Parsons
Sales Mgr.: William Mark G

VAN NORMAN MACHINE CO., DIV.-VAN NORMAN INDUSTRIES, INC.
3640 Main St., Springfield 7, Mass. (Tel. REpublic 7-4721)
Purch. Agent: Ralph H. Grefer
V. P. & Sales Mgr.: George P. Burns
V. P. & Chief Engr.: Francis P. Heely MS, M

VAN WAGNER CO.
101 W. Allendale Ave., Allendale, N. J. (Tel. DAVis 7-2112)
Dir.-Purch.: L. A. Van Wogner
Purch. Dept.: L. M. Wittmer CT

VAN ZELM ASSOCIATES, INC.
7803 Pulaski Hwy., Baltimore 6, Md. (Tel. MURdock 7-1414)
Purch. Mgr.: Gordon Sinclair
Business Mgr.-Sales: Gerold McBride RD

VANADIUM CORP. OF AMERICA
420 Lexington Ave., New York 17, N. Y. (Tel. LE 2-3580)
Dir.-Purch.: F. W. Thomas
V. P.: R. H. Filsinger, Jr.

VANADIUM-ALLOYS STEEL CO.
Patrore, Pa. (Tel. KEYstone 7-5551)
Purch. Agent: Lewis M. Potter
Asst. Purch. Agent: Alex B. Smith
V. P.-Sales: R. Burns George M

VANGUARD ELECTRONICS CO.
3384 Motor Ave., Los Angeles 34, Calif. (Tel. UPTon 0-6721)
Pres.-Purch.: Simon A. Golbert

VANTON PUMP & EQUIPMENT CORP.
201 Sweetland Ave., Hillside, N. J. (Tel. WA 6-2435)
Purch. Agent: R. Tillsley (Tel. MU 8-4120)
Sales Mgr.: S. F. Cooper

VAP-AIR AERONAUTICAL PRODUCTS DIV., VAPOR HEATING CORP.
80 E. Jackson Blvd., Chicago 4, Ill. (Tel. WABosh 2-5160)
Purch. Agent: Robert W. Curren
Buyers: Ronald R. Krenak & Frank Slopok
V. P.-Sales: L. H. Gillick MS, RD

VAPOR BLAST MFG. CO.
3025 W. Atkinson Ave., Milwaukee 9, Wis. (Tel. CUSter 3-6500)
Purch. Agent: A. Odehnal
Sales Mgr.: H. F. Porfin MS

VARFLEX CORP.
512 W. Court St., Rome, N. Y. (Tel. 7200)
Purch.: Merrick Drummond
Sales: J. H. Finnegan M

VARIAN ASSOCIATES
611 Hansen Way, Palo Alto, Calif. (Tel. DAVenport 6-4000)
Chief-Purch.: Hamilton Shutts
Sales Mgr.: W. M. Silhavy, Tube Div.
Sales Mgr.: Emery Rogers, Instrument Div.
Sales Mgr.: Paul I. Corbell, Radiation Div.

VARIETY AIRCRAFT CORP.
2901 W. 3rd St., Ooyton, Ohio (Tel. AM 3-2664)
Gen. Mgr.: C. A. Coppock
Ch. Engr.: W. H. Kuntz

VARI-L CO., INC.
207 Greenwich Ave., Stamford, Conn. (Tel. FRESide 8-0091)
Pres.: J. L. Kiser TT

VAR-LAC-OID CHEMICAL CO.
116 Broad St., New York 4, N. Y. (Tel. Whitehall 4-0348)
Purch. Agent: Martin G. Brent
Sales Mgr.: Irvin E. Behrman M

VARO MFG. CO., INC.
2201 Walnut St., Garland, Tex. (Tel. BROADway 6-6141)
Purch. Agent: Brad Riggs
Buyers: Gene Grubbs & Marvin Meyers
Mgr.-Customer Relations: J. R. Gilmer MS, G, CT, TT, RD

VASCOLOY-RAMET CORP.
800 Market St., Waukegan, Ill. (Tel. ON 2-5220)
Purch. Agent: L. R. Palusko
Sales Mgr.: B. F. Noden

VECTOR ELECTRONIC CO., INC.
1100 Flower St., Glendale 1, Calif. (Tel. CHopmon 5-1076)
Purch. Agent: P. R. McQuade
Asst. Purch. Agent: E. L. Buck
Sales Mgr.: F. L. Hill

VECTOR MFG. CO.
5616 Lowndale St., Houston 23, Texas (Tel. WA 6-8821)
Purch. Agent: L. M. Coombs
V. P.: K. W. McClum
Sales Mgr.: M. D. Vondusen
Prod. Supvr.: L. D. Zepernick CT, TT

VEECO VACUUM CORP.
86 Denton Ave., New Hyde Park, L. I., N. Y. (Tel. PLeasure 6-1161)
Purch. Agent: E. Potter
V. P.-Sales: William R. Meoli

VEEDER-ROOT INC.
70 Sergeant St., Hartford 2, Conn. (Tel. JACKson 7-7201)
Purch. Agent: R. I. Bond
Sales Mgr.: C. C. Lombardi

VEET INDUSTRIES
25753 Groesbeck Hwy., E. Detroit, Mich. (Tel. PRescott 6-3000)
Pres. & Gen. Mgr.: R. C. Vait PS

VELCRO SALES CORP.
681 Fifth Ave., New York 22, N. Y. (Tel. PLazo 1-2144)
V. P.: J. C. Frankel M

YEMALINE PRODUCTS CO.
P. O. Box 222, Howthorne, N. J. (Tel. MUIberry 4-4688)
Purch. Agent: Wm. Venemo

VENDORLATOR MFG. CO.
2550 S. Railroad Ave., Fresno, Calif. (Tel. AMher 6-9401)
Purch. Agent: O. J. McMillin
Asst. Purch. Agent: Howard Henry
Sales: E. E. Brown (West Coast) Bert Schwartz MS

VERNISTAT DIV., THE PERKIN-ELMER CORP.
772 Main Ave., Norwalk, Conn. (Tel. VICTor 7-0411)
Div. Purch.: A. Cummings
Sales Mgr.: Lionel Robbins

VERNON CHEMICAL & MFG. CORP.
220 E. 42nd St., New York 17, N. Y. (Tel. YUkon 6-1133)
Purch. Agent: Gordon R. Keyes
Dir.-Tech. Services: Cliff Raheer
Customer Service Dept.: Harold Sussman
Gen. Sales Mgr.: William F. Carlson M

VERSA PRODUCTS CO., INC.
150 Coolidge Ave., Englewood, N. J. (Tel. L.Owell 7-2820)

VERSON ALL-STEEL PRESS CO.
9342 S. Kenwood Ave., Chicago 19, Ill. (Tel. REgent 4-8200)
Dir.-Purch.: H. Wiggins
Sales Mgr.: P. C. Kjelstrom S, M, RD

VIBRATION ISOLATION PRODUCTS
116 W. Elm Court, Burbank, Calif. (Tel. THornwall 6-2388)
Gen. Mgr.: Pat Dean
Chief Engr. & Sales: Duff Oeon MS, M, CT, TT

VICKERS INC.
172 E. Aurora St., Waterbury 20, Conn. (Tel. PLazo 6-3681)
Purch. Mgr.: R. L. Gobers
Sales Mgr.: R. J. Mitchell MS, CT, RD

VICKERS INC., ELECTRIC PRODUCTS DIV.
1815 Locust St., St. Louis 3, Mo. (Tel. CEntral 1-5830)
Dir.-Purch.: Tom Waller MS, G

VICKERS, INC., MICH.
Maple & Crooks Rd., P. O. Box 302, Detroit 32, Mich. (Tel. LI 9-1122)
V. P.-Purch.: R. McCabe
Gen. Purch. Agent: R. B. Sharkey
Gen. Sales & Service Mgr.: J. T. Burns
Purch. Agent: W. Joyce, Torrance, Calif. (Tel. DA 6-8550) PS, MS, G, CT, RD

VICKERS INC., DIV.-SPERRY RAND CORP.
Administrative & Engrg. Ctr., Detroit 32, Mich. (Tel. Royal Oak—Liberty 9-1122)
Gen. Purch. Agent: R. V. Sharkey
Gen. Sales Mgr.: J. T. Burns MS, G, CT, RD

	CODING
	Structures S
	Propulsion System PS
	Missile Support MS
	Materials M
	Guidance G
	Checkout & Testing CT
	Tracking & Telemetering TT
	Research & Development RD
	Human Space Engineering HSE

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VICKERS INC., MARINE & ORDNANCE DEPT.,
MACHINERY HYDRAULICS DIV.
 172 E. Aurora St., Meriden, Conn. (Tel. PL 6-3684)
 Purch. Agent: Harold Carberry
 Sales Mgr.: R. J. Mitchell

VICON CORP., SUB-INSUL-8-CORP.
 1369 Industrial Rd., San Carlos, Calif. (Tel. LYtel
 3-8003)
 V. P. & Gen. Mgr.: Winston Boone
 Asst. Sales Mgr.: John Baker
 V. P.-Engrg.: George Sleeper MS, RD

VICTOR ELECTRIC WIRE & CABLE CORP.
 618 Main St., West Warwick, R. I. (Tel. VALley
 1-1700)
 Purch. Mgr.: David Krakowsky
 Sales Mgr.: Norman Brill

VICTOR MFG. & GASKET CO.
 5750 W. Roosevelt Rd., Chicago 50, Ill. (Tel.
 ALstin 7-6180)
 Gen. Purch. Agent: Harold G. North
 Purch. Agent: R. G. Stovick
 Buyer: E. F. Balcar
 V. P.-Insl. Sales: Albert J. Auwers PS, M

VICTOR R. F. & MICROWAVE CO.
 36 W. Water St., Wakefield, Mass. (Tel. CRystal
 9-4472)
 Gen. Mgr.: George P. Victor MS, G, RD

VICTOR TOOL & MFG., INC.
 Route 9, Saybrook Rd., Higganum, Conn. (Tel.
 Diamond 5-4521)
 Purch. Agent & Dir.-Sales: Joseph G. Marek RD

VICTOREEN INSTRUMENT CO.
 5806 Haugh Ave., Cleveland 3, Ohio (Tel. ENdicott
 1-6200)
 Purch. Agent: S. J. Rosa
 Buyers: A. Burkhart & R. Tucker
 Sales Mgr.: William A. McCarthy M, RD

VICTORY ENGRG. CORP.
 P. D. Box 373, Springfield Rd., Union, N. J. (Tel.
 Murdock 8-7150)
 Purch. Agent: R. W. Blimm
 Sales: W. B. Hustan

VIDEO INSTRUMENTS CO., INC.
 3002 Pennsylvania Ave., Santa Monica, Calif. (Tel.
 EXbraak 3-1244)
 Purch. Agent: Darlene Thampson
 Prod. Mgr.: Bob Cabery
 V. P. & Gen. Mgr.: Peter Pahl CT, TT

VIEWLEX, INC.
 35-01 Queens Blvd., Long Island City 1, N. Y. (Tel.
 EXeter 2-0100)
 Pres.: L. A. Peitez
 Sales Engr.: H. Walter
 Sales Mgr.: M. R. Abrams
 Purch. Agent: J. Friedland MS, RD

VIKING INDUSTRIES INC.
 21343 Rascas Blvd., Conaga Park, Calif. (Tel.
 Diamond 7-8500)
 Purch. Agent: W. Wright
 Sales Mgr.: F. V. Criswell

VIKING PUMP CO.
 4th & Jarvis Sts., Cedar Falls, Iowa (Tel. CDlfax
 6-1741)
 Purch. Agent: H. L. Willson
 V. P.-Sales: Stanley A. Petersen

VILTER MFG. CO., THE
 2217 S. First St., Milwaukee 7, Wisc. (Tel. SHERidan
 4-0111)
 Mgr.-Purch.: L. E. Laas
 V. P.-Sales: A. D. Vagel

VINCO CORP.
 9111 Schaefer Hwy., Detroit 28, Mich. (Tel. WEbster
 3-4350)
 Dir.-Purch.: E. L. Camen S, MS, G

VINSON MFG. CO. INC.
 8044 Woodley Ave., Van Nuys, Calif. (Tel. TRiangle
 3-3510)
 Factory Mgr.: G. Scatt
 Sales: William A. Goodman MS, RD

VIRGINIA ELECTRONICS CO., INC.
 5203 River Rd., Washington 16, D. C. (Tel. OLIver
 4-6680)
 Purch. Agent: Edward Schwartz
 Sales Mgr.: Albert Cahen G, CT, RD

VIRGINIA PLAK CO.
 270 Madison Ave., New York 16, N. Y. (Tel. MURray
 Hill 3-9516)
 Gen. Mgr.: S. N. Weis

VITA-VAR CORP.
 10 Commerce Court, Newark 2, N. J. (Tel. MArket
 3-0860)
 Purch. Agent: Allan G. Tremper
 Sales Mgr.: R. A. Pearce M

VITRAMON, INC.
 P. D. Box 544, Bridgeport 1, Conn. (Tel. AMherst
 8-1656)
 Purch. Agent: William Murphy
 Asst. Purch. Agent: Mrs. Marjorie Duboc
 Sales Mgr.: Clifford H. Tuttle, Jr.

VITRO CORP. OF AMERICA
 261 Madison Ave., New York, N. Y. (Tel. MURray
 Hill 2-5700)
 Purch. Agent: E. S. Fowler
 Exec. V. P.-Sales: W. A. Bain

***VITRO LABS.**
 200 Pleasant Valley Way, West Orange, N. J. (Tel.
 REDwood 1-3400)
 Procurement Mgr.: J. E. Eaton
 New Proj. Mgr.-Sales: W. L. Slaver
 *(See advertisement this issue)

VLCKEK TOOL CO.
 3001 E. 87th St., Cleveland 4, Ohio (Tel. GA 1-2480)
 Purch. Agent: F. J. Tkoch
 V. P.-Sales: L. F. Starie M

VLIER ENGRG. CORP.
 8900 Santa Monica Blvd., Los Angeles 46, Calif.
 (Tel. OLEander 5-6540)
 Purch. Agent: T. Bovin
 Buyers: S. M. Bressett & S. Lemaster
 Sales Mgr.: H. Wrigley M

VOCALINE CO. OF AMERICA INC.
 Coulter St., Old Saybrook, Conn. (Tel. EV 8-3414)
 Pres.: Carroll T. Cooney
 Treas.: Robert Cooney M, RD

VOI-SHAN ELECTRONICS
 13259 Sherman Way, North Hollywood, Calif. (Tel.
 TRIangle 7-9952)
 Prod. Mgr.: W. Cahill
 Gen. Sales Mgr.: Donald M. Worden MS, G, CT, RD

VOI-SHAN MFG. CO., DIV.-VOI-SHAN INDUSTRIES,
INC.
 8463 Higueria St., Culver City, Calif. (Tel. VERmont
 8-2131); 3562 Eostham Dr., Culver City, Calif.
 Dir.-Material: G. W. Hausmon
 Gen. Sales Mgr.: Thomas F. Spaehr

VORAC CO., THE
 147 Meadow Rd., Rutherford, N. J. (Tel. WEbster
 3-1000)
 Dir.-Purch.: Robert Geist
 Dir.-Sales: D. E. Hartman

WAAGE ELECTRIC, INC.
 720 Calfax Ave., Kenilworth, N. J. (Tel. CHesnut
 5-9363)
 Pres. & Engr.: Clark A. Wooge
 V. P.: Curtis Frantz M

WAQLINE, INC.
 35 S. St. Clair St., Dayton 2, Ohio (Tel. BALdwin
 8-5161)
 Pres.: W. A. Chorbonneaux
 Dir.-Material: R. G. Swanson
 V. P.: M. E. Goll MS, G, CT, RD

WACO AIRCRAFT CO.
 Peters Ave., Troy, Ohio (Tel. FE 2-1234)
 Purch. Agent: John D. Patterbaugh
 Sales Solicitor: C. M. Moffitt MS

WAH CHANG CORP.
 233 Broadway, New York 7, N. Y. (Tel. CDrtlondt
 7-0887)
 V. P.-Sales: K. C. Li, Jr. M, RD

WAHLGREN MAGNETICS, DIV.-MARSHALL
INDUSTRIES
 1900 Walker Ave., Manrovia, Calif. (Tel. MURray
 1-8456)
 Purch. Agent: Joseph Ustica
 Gen. Mgr.: L. W. Maede
 Sales Mgr.: T. Rainey

WAIMET ALLOYS CO.
 5320 Ookmon Blvd., Dearborn, Mich. (Tel. LUzon
 1-7200)
 Materials Mgr.: John Fritz

Technical Mgr.: William P. James
 Pres. & Gen. Mgr.: R. F. Waindle
 Sales Mgr.: Roger J. Metzler M
WAKEFIELD ENGRG. CO.
 P. D. Box 471, Cœur d'Alene, Idaho (Tel. MURray
 5-5541)
 V. P.: D. Bresnon CT

WAKEFIELD ENGRG. INC.
 11 Broadway, Wakefield, Mass. (Tel. CRystal
 6-5200)
 Pres. & Dir.-Sales: Thomas D. Cae
 Purch. Agent: Irving Burwen

WALBR MACHINE PRODUCTS INC.
 74 Maple St., Stoneham 80, Mass. (Tel. STaneham
 6-3035)
 Dir.-Purch.: James W. Gallagher
 Sales Mgr.: William J. Caveney PS, MS, M

WALDES KOHINOOR, INC.
 47-16 Austel Place, Long Island City 1, N. Y. (Tel.
 EXeter 2-3100)
 Dir.-Purch.: H. M. VonCleef
 Gen. Sales Mgr., Truarc Div.: James C. Darby

WALDICK ENGRG. CO.
 P. O. Box 398, Huntington Station, N. Y. (Tel.
 HAmilton 7-6780)
 Dir.-Purch.: A. Lawrence
 Gen. Mgr.: Walter H. Dickman S, MS

WALLES STRIPPIT INC.
 Akron, N. Y. (Tel. LH 2-5441)
 Purch. Agent: George MacFadyen
 Gen. Sales Mgr.: Norman F. Weyland

WALKIRT CO.
 141 W. Hazel St., Inglewood 3, Calif. (Tel. OREgan
 8-4814)
 Purch.: L. Wilgus
 Gen. Mgr.-Sales: Wes L. Kirchoff

P. WALL MFG. CO.
 Erie St., Grove City, Pa. (Tel. 910)
 Pres. & Dir.-Purch.: E. G. Oppenheimer
 Purch. Agent: Paul Northcott
 V. P.-Sales: M. A. Silverman M, RD

WALL COLMONOY CORP.
 19345 John R St., Detroit 3, Mich. (Tel. TWinbrook
 3-3800)
 Gen. Mgr.: G. A. Borris
 V. P.: R. L. Peaslee PS, M, RD
 Sales Mgr.: F. Cruise

WALL TUBE & METAL PRODUCTS CO.
 P. D. Box 330, Newport, Tenn. (Tel. 2391)
 Purch. Agent: James P. Masters
 V. P. & Gen. Sales Mgr.: Frank L. Dempsey

WALLACE & TIERNAN INC.
 25 Main St., Belleville 9, N. J. (Tel. PLYmouth
 9-8000)
 Purch. Agent: I. Gordon
 Asst. Purch. Agent: T. A. Moore
 V. P.-Sales: T. T. Quigley CT

WALLINGFORD STEEL CO., THE
 Valley St., Wallingford, Conn. (Tel. CDlany 9-3361)
 Purch. Agent: D. Norton Williams
 Asst. Purch. Agent: William Dennisan
 V. P.-Sales: G. J. Griffin S, PS, MS, M, RD

WALLS ASSOCIATES, INC.
 912 Westfield Ave., Elizabeth, N. J. (Tel. FLanders
 1-0700)
 Purch. Agent: S. S. Roston
 Sales Mgr.: A. S. Jaffe

WALTHAM ELECTRONICS CORP.
 751 Main St., Waltham 54, Mass. (Tel. TWinbrook
 4-7810)
 Purch. Agent: Irving Kodesh
 Asst. Purch. Agent: Helen Cooney
 Dir.-Sales: David Nadel, 1108 Beacon St., Newton
 Highlands 61, Mass. (Tel. WD 9-9150) MS, CT, TT, RD

WALTHAM PRECISION INSTRUMENT CO.
 221 Crescent St., Waltham, Mass. (Tel. TWinbrook
 3-4000)
 Purch. Agent: Donald Lyons
 Pres.: Louis R. Ripley
 Gen. Sales Mgr.: Fred M. Burmann G, RD

WALTHAM SCREW CO.
 77 Rumford Ave., Waltham 54, Mass. (Tel. TWinbrook
 3-5830)
 Pres.: Daniel F. Viles
 Treas.: Sheldon Viles M

WANG LABS, INC.
12 Huran Dr., Natick, Mass. (Tel. OLYmpic 3-3910)
Pres.: A. Wang RD

WARD LaFRANCE TRUCK CORP.
E. 11th St. & Grand Central Ave., Elmira Hgts., N. Y.
(Tel. REgent 3-5631)
Purch. Agent: John J. Valega MS
Dir.-Sales: P. A. Jenks

WARREN COMPONENTS, DIV.-EL-TRONICS, INC.
S. Irvine St., Warren, Pa. (Tel. RA 3-6200)
Purch. Agent: Richard Swanson
Material Control: Harry Anderson
Sales Mgr.: MacBain Sears M

WARREN WIRE CO.
Pownal, Vt. (Tel. VALley 3-7321)
V. P.-Sales: F. W. Kunzelmann

WARREN-KNIGHT CO.
136 N. 12th St., Philadelphia 7, Pa. (Tel. LOcust 7-3994)
Prod. Mgr.: Harry W. Fatkin
V. P.-Sales: John H. Warren, Jr. MS, CT, TT

WASHINGTON ALUMINUM CO., INC.
Pennsylvania RR & Knecht Ave., Baltimore 29, Md.
(Tel. Circle 2-1000)
Purch. Agent: Bruner Dicus S, RD
Sales Mgr.: Vincent Freeman

WASHINGTON MACHINE & TOOL WORKS, INC.
13111 Wayzata Blvd., Minneapolis 26, Minn. (Tel. Liberty 5-5611)
Purch. Agent: Bruce Smith
Prod. Mgr.: F. Lowell Pike
Pres. & Gen. Mgr.: E. W. Kulesh G

WASHINGTON STEEL CORP.
Woodland & Griffith Ave., Washington, Pa. (Tel. BALdwin 2-8000)
Purch. Agent: H. R. Fulton M
Sales Mgr.: John C. Richards

WASHINGTON TECHNOLOGICAL ASSOCIATES, INC.
979 Rollins Ave., Rockville, Md. (Tel. HAzelwood 7-7550)
Chief Purch. Agent: Ernest Tingle
Asst. Purch. Agent: John McPherson

WASLEY PRODUCTS, INC.
College Highway, Plainville, Conn. (Tel. SHERwood 7-2784)
V. P.-Purch. & Sales: A. Justin Wasley

WASSCO ELECTRIC PRODUCTS CORP.
2032 2nd Ave., S., St. Petersburg 12, Fla. (Tel. ORange 1-2948)
Pres.: Henry G. Wasserlein

WASTE KING CORP., TECHNICAL PRODUCTS DIV.
5550 Harbor St., Los Angeles 22, Calif. (Tel. RAymond 3-9601)
Chief-Material: D. W. McMaster
Buyers: R. F. Swan & Lucille Cheek
Mgr.-Customer Relations: Frank L. Spencer MS, G, RD

WATER COOLING CORP.
71 Nassau St., New York 38, N. Y. (Tel. COrtland 7-2264)
Purch. Agent: A. B. Tappen RD
Dir.-Sales: Robert Miller

WATERBURY COMPANIES, INC.
832 S. Main St., Waterbury, Conn. (Tel. PL 6-5551)
Purch. Agent: F. Johnson
Asst. Purch. Agent: J. F. Brennan
Dir.-Sales: G. A. Walker

WATERMAN HYDRAULICS CORP.
725 Custer Ave., P. O. Box 391, Evanston, Ill.
(Tel. GReenleaf 5-7045)
Purch. Agent: R. Rhoney PS, MS, CT
V. P.-Sales: H. Hedlund

WATERMAN PRODUCTS CO., INC.
2445 Emerald St., Philadelphia 25, Pa. (Tel. GARfield 6-8600)
Purch. Agent: S. Marritz CT

WATERS MFG., INC.
Boston Post Rd., Wayland, Mass. (Tel. ELmwood 8-2777)
Purch. Agent: M. P. Brown
Gen. Sales Mgr.: W. W. Bartell

WATERTOWN DIV., THE NEW YORK AIR BRAKE CO.
Starbuck Ave., Watertown, N. Y. (Tel. SUNset 2-7000)
Mgr.-Purch.: W. F. Slook
Purch. Asst.: H. A. Hardman
Buyers: K. R. Sawyer & R. H. Madden
Gen. Mgr.-STRATOPOWER, Aircraft Equipment
Sales: H. R. Daughy MS, G

WAUGH ENGR. CO
7842 Burnet Ave., Van Nuys, Calif. (Tel. TR 3-1055)
Purch. Agent: Joseph Stevens
Mktg. Mgr.: Robert E. Day

WAUKESHA FOUNDRY CO.
Lincoln Ave., Waukesha, Wisc. (Tel. LIberty 2-6657)
Purch. Agent: Joseph C. Kehoss
V. P.: John W. Weaver

WAVEGUIDE, INC.
1769 Placentia, Costa Mesa, Calif. (Tel. MADison 8-7786)
Purch. Agent: N. C. Glass
Sales Mgr.: John J. Bodley

WAVELINE, INC.
P. O. Box 718, W. Caldwell, N. J. (Tel. CApital 6-9100)
Purch. Agent: Walter Specht
Gen. Mgr.: Robert H. Koenig
Sales Mgr.: Louis R. Trummel G, CT

WAYNE FOUNDRY & STAMPING CO.
3100 Hubbard, Detroit 10, Mich. (Tel. TASHmoo 5-8226)
Purch. Agent: James Spadolare
Sales Mgr.: C. D. Todd, Jr.

WAYNE PUMP CO., THE, DIV.-SYMINGTON WAYNE CORP.
Herbert, Riverbend & Griffin Sts., Ft. Wayne 4, Ind. (Tel. EASTbrook 4664)
Purch. Agent: V. O. Pantius
Dir.-Sales: R. L. Burke, Jr.

WAYNE-GEORGE CORP.
588 Commonwealth Ave., Boston 15, Mass. (Tel. COpley 7-8425)
Buyer: R. MacDonald MS, TT, RD
V. P. & Dir.-Sales: D. G. Hunt

***WEATHERHEAD CO., THE**
300 E. 131st St., Cleveland 8, Ohio (Tel. GLENville 1-5200)
Purch. Mgr.: O. Leutz
Sales Mgr.: P. W. Morse
Special Products Div., Eastern Aircraft Products Div., 300 E. 131st St., Cleveland 8, Ohio
Sales Mgr.: P. W. Morse
Western Div., 1736 Standard Ave., Glendale 1, Calif.
Gen. Mgr.: S. C. Howell PS, MS, RD
*(See advertisement this issue)

WEAVER MFG. CO., DIV.-DURA CORP.
2171 S. 9th St., Springfield, Ill. (Tel. 2-8861)
Purch. Agent: O. W. Ellis
Asst. Purch. Agents: Tam Lawless & Mrs. Anna Dawell S

WEBA, INC.
1301 Fourth Ave., New Hyde Park, N. Y. (Tel. FLoral Park 2-3900)
Purch. Agent: Joseph Spinello
Sales Mgr.: Joseph Reddy S

WEBBER ENGR. CORP.
P. O. Box 217, Indianapolis 6, Ind. (Tel. MEIrose 2-1378)
Purch. Agent: V. L. Fagin
Pres. & Sales Mgr.: Robert C. Webber CT, RD

WEBBER MFG. CO., INC.
P. O. Box 217, Indianapolis 6, Ind. (Tel. MEIrose 2-1378)
Purch. Agent: V. L. Fagin
Pres. & Dir.-Sales: Robert C. Webber CT, RD

WEBCOR, INC., ELECTRONICS DIV.
816 N. Kedzie Ave., Chicago 51, Ill. (Tel. NEvada 2-3425)
Dir.-Purch.: C. S. Wybran MS, TT, RD
Dir.-Customer Relations: S. W. Tarnoff

WEBCOR, INC., GOVERNMENT DIV.
816 N. Kedzie Ave., Chicago 51, Ill. (Tel. NEvada 2-3425)
Dir.-Purch.: C. S. Wybran RD
Buyers: G. L. Scheel, P. S. Kibler & J. F. Frisby

WEBER AIRCRAFT CORP.
2820 Ontario St., Burbank, Calif. (Tel. VICToria 9-1181)
Dir.-Material: F. A. Good
Purch. Supvs.: R. E. Fulbright & J. W. Culbertson
Dir.-Sales: Harold G. Johnson S, MS, CT, RD, HSE

WECKESSER CO.
5701 Northwest Hwy., Chicago 46, Ill. (Tel. RO 3-6688)
Gen. Mgr.: Harry A. Ewalt
Sales Mgr.: Mrs. Mary Kay

WEEMS SYSTEM OF NAVIGATION, INC.
229 Prince George St., Annapolis, Md. (Tel. COLonial 3-6700)
Pres.: P. V. H. Weems
Exec. V. P.: Paul Miller
V. P.: G. D. Dunlap G

WEIGHING & CONTROL COMPONENTS, INC.
Industrial Park, E. County Line Rd., Hatboro, Pa.
(Tel. OSborne 5-0901)
Purch. Agent: Alfred Krieg
Sales Mgr.: Henry J. Oursler, Jr. CT

WEKSLER INSTRUMENTS CORP.
195 E. Merrick Rd., Freeport, L. I., N. Y. (Tel. MAYfair 3-0100)
Exec. V. P.: A. Marks
Purch. Agent: Milford Himmel
V. P.-Sales: F. J. Pla CT

A. W. WELCH MFG. CO., INC.
509 E. 29th St., Indianapolis 8, Ind. (Tel. WA 5-7878)
Pres.: A. W. Welch
Sales Mgr.: Jim Hutchison

W. M. WELCH SCIENTIFIC DIV., W. M. WELCH MFG. CO.
1515 Sedgwick St., Chicago 10, Ill. (Tel. MICHigan 2-2000)
Purch. Dept.: William Wolf, W. Feckler & R. Bailin
Dir.-Sales: J. Gutschied M

WELDED CONSTRUCTION INC.
2320 W. 15th Place, Cleveland 13, Ohio (Tel. MAIn 1-0103)
Purch. Agent: John Dufenez MS, RD
Sales: Joseph A. Thayer

WELDMATIC, DIV.-UNITEK CORP.
950 Royal Oaks Dr., Manrovia, Calif. (Tel. ELIott 9-8361)
Purch. Agent: Bob Mahoney
Sales Mgr.: Ott Sailer

WELLER ELECTRIC CORP.
601 Stone's Crossing Rd., Easton, Pa. (Tel. BLAckburn 3-3521)
Purch. Agent: T. Hester
Asst. Purch. Agent: E. Murphy
V. P.-Sales: C. R. Robertson

S. K. WELLMAN CO., THE
200 Egbert Rd., Bedford, Ohio (Tel. BEEdard 2-2400)
Purch. Agent: Frank C. Yehl
V. P.-Sales: W. E. Canfield M

WELLMAN BRONZE & ALUMINUM CO.
9401 Woodland Ave., Cleveland 4, Ohio (Tel. SWEetbriar 1-6900)
Purch. Agent: B. E. Weimer
V. P.-Chg. Sales: Glenn F. Ihrig S, PS, MS, G, RD

WELLS INDUSTRIES CORP.
6880 Troast Ave., North Hollywood, Calif. (Tel. TRiangle 7-3353)
Dir.-Purch.: H. Kussel Stomp
Chief Engr.-Hub Pat Div.: Robert H. Mellor
Chief Engr.-Basic Electronic Controls Div.: Stewart Tongret
V. P.-Engr. & Sales: Ernest O. Gibson, Jr. S, MS, CT, RD, HSE

WENZLAU ENGR. CO.
410 Solano Ave., Los Angeles 12, Calif. (Tel. CApital 2-3151)
Sales Mgr.: William D. Wenzlau MS, M

ALBERT WESLING & SONS INC.
2912 W. Lake St., Chicago 12, Ill. (Tel. KEdzie 3-2850)
V. P.-Sales: A. H. Wesling

WELTRONIC CO.
19500 W. Eight Mile Rd., Southfield, Mich. (Tel. KENwood 2-2800)
Dir.-Purch.: R. S. Johnston
Gen. Sales Mgr.: L. R. Broniak

CODING

Structures S
Propulsion System PS
Missile Support MS
Materials M
Guidance G
Checkout & Testing CT
Tracking & Telemetering TT
Research & Development RD
Human Space Engineering HSE

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WESREP CORP.

2022 S. Sepulveda Blvd., Los Angeles 25, Calif.
(Tel. BRadshaw 2-3757)
Pres.: Oudley V. Cossard
Sales Mgr.: Robert A. Hager S, PS, MS, M, G

WEST COAST ELECTRICAL MFG. CORP.

233 W. 116th Place, Los Angeles 61, Calif. (Tel. Plymouth 5-1138)
Purch. Agent: Erle Seal MS, G

WESTBERG MFG. CO.

Box 239, Napo, Calif. (Tel. BA 6-5218)
Purch. Agent: R. R. Westberg
Dir.-Sales: V. L. Westberg CT, RD

WESTERN AUTOMATIC MACHINE SCREW CO. DIV.-STANDARD SCREW CO.

377 Woodward Ave., Elyria, Ohio (Tel. FAirfax 3-3341)
Purch. Agent: A. Steller
V. P.-Chg. Sales: M. R. Sorensen M

WESTERN COATING CO.

P. O. Box 598, Oakridge Station, Royal Oak 3, Mich.
(Tel. JUniper 8-3311)
Dir.-Prod.: Franklin B. Evans
Pres. & Head-Sales: Arthur Aaron, 85 W. Union St., Pasadena, Calif. (Tel. MUrray 1-7828)
Western Sales Mgr.: L. W. Pickens, Jr. M

WESTERN COIL & ELECTRICAL CO.

215 State St., Racine, Wisc. (Tel. ME 2-4741)
Pres.: W. T. Lewis

WESTERN CONTROL CORP.

2533 S. West St., Wichita, Kans. (Tel. WHitehall 3-4238)
Purch. Agent: Henry A. Guerrero
Pres.: L. C. Smith M

WESTERN DESIGN, DIV.-U. S. INDUSTRIES, INC.

7701 Telegraph Rd., Montebello, Calif. (Tel. RAymond 3-2611)
Materials Mgr.: Fred Kupel
Purch. Agent: Barney Frohn & Gene Largent
Dir.-Sales: H. J. Fitzpatrick S, PS, MS, M, RD

WESTERN DESIGN DIV.-U.S. INDUSTRIES, INC.;

SANTA BARBARA DIV.
Santa Barbara Airport, Goleta, Calif. (Tel. WOODland 7-4571)
Purch. Agent: L. E. Saterstrom
Dir.-Mktg.: W. W. Harris

WESTERN DEVICES INC.

600 W. Florence Ave., Inglewood 1, Calif. (Tel. ORegan 8-7827)
Sales Engr.: N. L. VonDerstein
Sales Liaison: Bill Onelson MS, G, CT, TT, RD, HSE

WESTERN DIV., AEROQUIP CORP.

3015 Winona Ave., Burbank, Calif. (Tel. THornwall 5-1551)
Purch. Agent: L. J. Finley
Gen. Sales Mgr.: C. W. Sawhill S, PS, MS, CT, RD

WESTERN ELECTRIC CO., INC.

120 Broadway, New York, N. Y. (Tel. WOrth 4-2100)
Radio Div.: C. R. Smith

WESTERN ELECTRONIC PRODUCTS CO.

2420 N. Lake Ave., Altadena, Calif. (Tel. SYcamore 4-6379)
Sales Mgr.: A. P. Schreiber M

WESTERN FELT WORKS & ACADIA SYNTHETIC PRODUCTS DIV.

4021-4139 Ogden Ave., Chicago 23, Ill. (Tel. CRawford 7-8000)
Purch. Agent: L. W. Heide
Prod. Control: Gene Wojcik
Sales Mgr.: R. H. Butz M

WESTERN GEAR CORP.

P. O. Box 182, Lynwood, Calif. (Tel. NEvada 6-0911)
Purch. Agent: Ove Shlemmer
Mktg. Mgr.: Ron Hinman
Sales Mgr.: Dick Worl

WESTERN GEAR CORP., PRECISION PRODUCTS DIV.

2600 E. Imperial Hwy., Lynwood, Calif. (Tel. NEvada 6-0911)
Purch. Agent: J. R. Fortune
Buyers: Milton Gray & H. J. Maysler
Sales Mgr.: R. B. Worl PS, MS, RD

WESTERN GOLD & PLATINUM

525 Harbor Blvd., Belmont, Calif. (Tel. LYtell 3-3121)

Purch. Agent: Michael O. McKinney
Sales Mgr.: Harry Mason M

WESTERN INSULATED WIRE CO.

2425 E. 30th St., Los Angeles 58, Calif. (Tel. LUdlow 7-7103)
Mgr.-Purch.: Phil Ramos
V. P. & Gen. Mgr.: Ed Kanter
Asst. Sales Mgr.: R. O. Pollin

WESTERN IRON & FOUNDRY CO., INC.

702 E. Second St., Wichita 2, Kansas (Tel. HObart 4-2311)
V. P.-Purch.: G. L. Dabler
Pres. & Gen. Mgr.: E. E. Urban S, M

WESTERN PNEUMATIC TUBE CO.

P. O. Box 487, Kirkland, Wash. (Tel. VAndyke 2-2214)
Purch. Agent: N. E. Ludington
V. P.-Sales: Carson Eckmann M

WESTERN SEALANT OF CONN.

50 Isaac Pl., Norwalk, Conn. (Tel. TEMple 8-5446)
Purch. Agent: John Harding
Dir.-Sales: K. E. Middlebrook M

WESTERN SKY INDUSTRIES

21301 Cloud Way, Hayward, Calif. (Tel. JE 7-1334)
V. P.: A. T. Lundgren
Plant Supt.: Jack Douglass M, CT

WESTERN SKY INDUSTRIES, HYDRAULIC ACTUATION DIV.

416 N. Glendale Ave., Glendale 6, Calif. (Tel. CHopman 5-6867)
Managing Dir.: Richard O. Maystead

WESTERN TOOL & MFG. CO. INC.

1620 E. Pleasant St., Springfield, Ohio (Tel. FA 3-9151)
Pres.: Clark E. Patton
Sales Engr.: Edward J. Phelan M, RD

WESTERN UNION TELEGRAPH CO., THE

60 Hudson St., New York 13, N. Y. (Tel. WOrth 2-7300)
Gen. Purch. Agent: C. L. Hall
Asst. Gen. Purch. Agent: J. H. La Cas
Buyer: J. O. O'Connor
V. P.-Mktg.: George C. Creal MS, TT, RD

WESTFIELD METAL PRODUCTS CO., INC.

1040 Lower Union St., Westfield, Mass. (Tel. LOgon 2-3614)
Purch. Agent: James A. Pool
Sales Dept.: William H. Bulger S, PS, MS, G, CT, TT

WESTGATE LAB., INC.

506 S. High St., Yellow Springs, Ohio (Tel. RO 7-7375)
Dir.-Purch.: J. H. King
Dir.-Sales: G. M. Dembo MS, RD, HSE

WESTHOLT MFG. INC.

925 W. Horry St., P. O. Box 1714, Wichita, Kans. (Tel. AMherst 5-9668)
Purch. Mgr.: C. E. Fry
Sales Mgr.: Jack Duncan S, G

WESTINGHOUSE AIR BRAKE CO., INDUSTRIAL PRODUCTS DIV.

P. O. Box 36, Wilmerding, Pa. (Tel. BRandywine 1-1490)
Purch. Agent: W. O. Cole
Sales Mgr.: J. R. Smith MS

WESTINGHOUSE ELECTRIC CORP.

3 Gateway Center, P. O. Box 2278, Pittsburgh 30, Pa. (Tel. EXpress 1-2800)
V. P.-Purch.: A. M. Kennedy, Jr.
V. P.-Sales: J. H. Jewell PS, MS, M, G, TT, RD

WESTINGHOUSE ELECTRIC CORP., MICARTA DIV.

Hampton, S. C. (Tel. 2311)
Purch. Agent: O. E. Thompson
Engrg. Mgr.: C. B. Leape
Mktg. Mgr.: H. C. Smith S, M, RD

WESTLINE PRODUCTS DIV.-WESTERN LITHOGRAPH CO.

600 E. 2nd St., Los Angeles 54, Calif. (Tel. MADison 7-2641)
Dir.-Purch.: Laird Swan
Asst. Purch. Agent: Rudy Johnson
V. P. & Gen. Sales Mgr.: Maury Engle M

WESTON HYDRAULICS LTD., SUB.-BORG-WARNER CORP.

7500 Tyrone Ave., Van Nuys, Calif. (Tel. STate 1-4000)
Dir.-Purch.: Robert Stevens
Sr. Buyers: William Bulkin & Kit Johnson
Regional Sales Mgrs.: K. H. Knox & Fred T. Miller MS, G

WESTPORT DEVELOPMENT & MFG. CO., INC.

345 Boston Post Rd., Milford, Conn. (Tel. TRinity 4-6735)
Purch. Agent: Ray Oake
Sales Mgr.: William Leete

WESTRONICS INC.

3605 McCart St., Fort Worth, Tex. (Tel. WA 3-8211)
Purch. Agent: Keneth Skinner
V. P.-Sales: George W. Puckett CT

WESTWOOD CABLE CORP.

3440 Overland Ave., Los Angeles 34, Calif. (Tel. UP 0-4647)
Dir.-Purch.: Harry Harris
Buyer: Bernie Madriaga
Gen. Sales Mgr.: Lawrence O. Seerden M

WHEEL CRAFT INC.

1120 W. Foothill Blvd., Azusa, Calif. (Tel. EOGewood 4-1261)
Purch. Agent: Phil Backmiller
Sales Mgr.: Albin T. Sundeen

WHEELABRATOR CORP.

1469 S. Byrkit St., Mishawaka, Ind. (Tel. BLackburn 5-2141)
Dir.-Purch.: H. O. Books
Dir.-Mktg.: G. O. Pfaff

WHEELER ELECTRONIC CORP., SUB.-SPERRY RAND CORP.

150 E. Aurora St., Waterbury 20, Conn. (Tel. PLoza 4-5191)
Purch. Agent: W. A. Collier
Sales Mgr.: C. R. Frost CT, RD

WHEELER LABORATORIES, INC.

122 Cutter Mill Rd., Great Neck, N. Y. (Tel. HUnter 2-7876)
Chief Engr.: O. Oettinger G, RD

WHEELOCK SIGNALS INC.

273 Branchport Ave., Long Branch, N. J. (Tel. CApiatal 2-6880)
Purch. Agent: J. E. Gould
Sales Mgr.: H. J. Sundermeyer

WHITAKER CABLE CORP.

1301 Burlington St., North Kansas City 16, Mo. (Tel. GRand 1-4640)
Purch. Agent: M. O. Owinning
V. P.-Sales: O. E. Stewart
V. P.-Indsl. Sales: C. Croig Whitaker S, PS, MS, M

S. S. WHITE INDUSTRIAL DIV.

10 East 40th St., New York 16, N. Y. (Tel. MU 3-3015)
Dir.-Sales: Frank Zambetti RD

WHITE & BAGLEY CO., THE

170 Foster St., Worcester 8, Mass. (Tel. PLeasant 5-6151)
Purch. Agent: Ernest W. Foster
Sales Mgr.: Herbert P. Fleming M

WHITE DIESEL ENGINE DIV., THE WHITE MOTOR CO.

1401 Sheridan Ave., Springfield, Ohio (Tel. FA 3-4921), Cable SUPERIORESL)
Purch. Agent: William J. Lynch
Asst. Purch. Agents: Poul E. Ounn & Arthur Osseck
Buyer: Joe James
Sales Mgr.: J. H. Newton

WHITE INSTRUMENT LABS.

P. O. Box 9006, Allendale Sta., Austin 17, Texas (Tel. Glendale 3-8447)
Owner: G. E. White
Chief Engr.: A. N. McQuown
Sales Mgr.: Ward Robertson

WHITEHEAD STAMPING CO.

1661 W. Lafayette Blvd., Detroit 16, Mich. M

WHITING CORP.

157th & Lathrap Ave., Harvey, Ill. (Tel. EOIson 1-4000)
Purch. Agent: R. W. Begnoche
V. P.-Operations: W. Hebble
Sales Mgr.: A. M. Truc

WHITLOCK MFG. CO., THE

155 South St., West Hartford 10, Conn. (Tel. JACKson 2-4293)
Purch. Agent: H. F. Wolz
Asst. Purch. Agent: R. J. Londrigan
Mgt.-Sales: A. J. Jackson M, RD

WHITMAN & BARNES DRILLS & REAMERS
40600 Plymouth Rd., Plymouth, Mich. (Tel. GLenwood 3-5000)
Purch. Agent: Mrs. Jean Horvath
Sales Mgr.: C. W. Krueger

WHITNEY METAL TOOL CO.
724 Farbes St., Rockford, Ill. (Tel. WDodand 2-5571)
Purch. Agent: Arthur Manks
Sales Mgr.: Gerald Plumb

WHITON MACHINE CO., THE
190 Howard St., New London, Conn. (Tel. GI 3-4374)
Purch. Agent: Rad Smith
V. P.'s: Walter Beaney, Stanley Petersen
Sales Mgr.: Jack Flannogin PS

WHITSO, INC.
9330 Byron St., Schiller Park, Ill. (Tel. TEL GL 5-5297)
Mfg. Dir.: J. H. Campbell
Sales Mgr.: W. F. Brown M

WHITTAKER CONTROLS, DIV.-TELECOMPUTING CORP.
915 N. Citrus Ave., Los Angeles 38, Calif. (Tel. HDollywood 4-0181)
Supvr.-Purch.: Frank Kurvink, 3000 Imperial Hwy., Lynwood, Calif. (Tel. NEvada 6-9271)
Dir.-Field Engr. & Sales: George F. Anisman PS

WHITTAKER GYRO, DIV.-TELECOMPUTING CORP.
16217 Lindbergh St., Van Nuys, Calif. (Tel. TRiangle 3-1950)
Purch. Agent: Vince Underwood
Buyers: Ben Valucki & J. Schwien
Dir.-Mktg.: J. R. Canway

WILLIAM WHYTOCK CO.
40 Bay State Ave., Warwick, R. I. (Tel. REgent 7-8870) M

WIANKO ENCRG. CO.
255 N. Halstead Ave., Pasadena, Calif. (Tel. ELgin 5-7186)
Purch. Agent: V. Brindley
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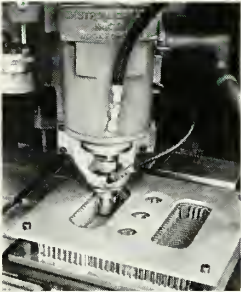
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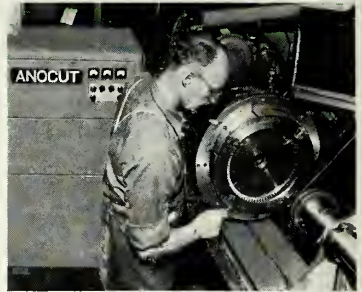
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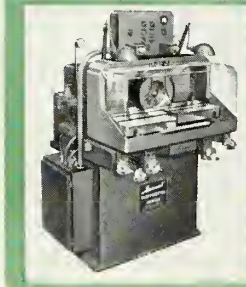
MACHINING POCKETS IN FRAGILE STAINLESS STEEL HONEY-COMB FREE OF LAYOVER AND BURR. PHOTO COURTESY EKSTROM, CARLSON & CO.

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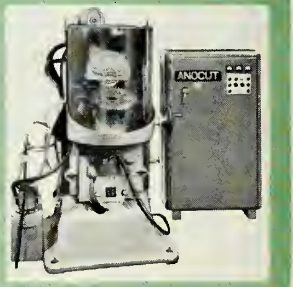


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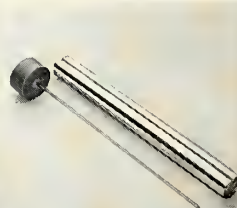
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 Hoskel Engr. & Supply Co.
 Herlo Corp.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
 Interstate Electronics Corp.
 Interstate Engr. Corp.
 Kemp Aero Products
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Lithium Corp. of America Inc., The Fulton-Irgan Div.
 Menasco Mfg. Co.
 National Tube Div.-United States Steel Corp.
 National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc.
 Noater Corp.
 Norris-Thermadar Corp.
 Oil-Dyne, Inc.
 Parker-Hannifin Corp.
 Peacock Engr. & Mfg. Co.
 Pressed Steel Tank Co.
 Ravenna Metal Products, Div.-Standard Screw Co.
 Ranson Hydraulic Units Corp.
 S-P Mfg. Corp., The
 Simmonds Aerocessories, Inc.
 Skytronics, Inc.
 Standard Steel Corp., Cambridge Div.
 Telex, Inc.
 Vickers Inc., Div.-Sperry Rand
 Vickers, Inc., Mich.
 Weatherhead Co., The
 Westholt Mfg. Inc.
 Young Development Div., Hercules Powder Co.

ACCUMULATORS, HYDRAULIC

Actuation Research Corp.
 *AEROJET-GENERAL CORP.
 Arnolt Corp.
 Bellfab Corp., The
 Bendix Aviation Corp.
 Bendix-Pacific Div., Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Bethlehem Steel Co.
 Bowser, Inc.
 Bruce Engr. Co.
 Cadillac Gage Co.
 California Stamping & Mfg. Co.
 Capital City Mfg. Co., Inc.
 Electrol Inc.
 General American Transportation Corp.
 Graver Tank & Mfg. Co., Div.-Union Tank Car Co.
 Hahn & Clay
 Hoskel Engr. & Supply Co.
 Herlo Corp.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
 Hydra-Power Corp.
 Integral Corp.
 Interstate Electronics Corp.
 Interstate Engr. Corp.
 Kelsey-Hoyes Co.
 Kemp Aero Products
 Martin Machine Works, Inc.
 McDowell-Wellman Companies, The
 Menasco Mfg. Co.
 National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc.
 Norris-Thermadar Corp.
 Northeast Metals Industries, Inc.
 Oil-Dyne, Inc.
 Ozone Metal Products Corp.
 Parker Hydraulics Div., Parker-Hannifin Corp.
 Parker-Hannifin Corp.

Peacock Engr. & Mfg. Co.
 Pyles Industries, Inc.
 Randall Engr. Corp.
 Ravenna Metal Products, Div.-Standard Screw Co.
 Redco Corp.
 Ranson Hydraulic Units Corp.
 S-P Mfg. Corp., The
 Simmonds Aerocessories, Inc.
 Skytronics, Inc.
 C. M. Smillie & Co.
 Standard Steel Corp., Cambridge Div.
 Sweetland Engr. Co.
 Topco Group, Thompson Romo Wooldrige Inc.
 Taylor Devices, Inc.
 Thompson Romo Wooldrige Inc.
 Vickers Inc.
 Vickers Inc., Div.-Sperry Rand
 Vickers, Inc., Mich.
 Vinson Mfg. Co., Inc.
 Weatherhead Co., The
 Western Design, Div.-U. S. Industries, Inc.
 Westholt Mfg. Inc.
 Wickfield, Inc.
 Young Development Div., Hercules Powder Co.

ACTUATORS

a. Electric
 b. Hydraulic
 c. Linear
 d. Pneumatic
 e. Rotary
 Acme Industrial Co., b.
 Actuation Research Corp., a, b, d.
 Actuator Products Div., Geartronics Corp., a thru e.
 Adel Precision Products of Calif., Div.-General Metals Corp., b.
 Aeroflex Labs. Div., Aeroflex Corp., e.
 Airborne Accessories Corp., a, c, e.
 Aircraft Accessory Turbine Dept.-General Electric Co., c, d, e.
 *AIRESEARCH MFG. OF ARIZONA, d.
 *AIRESEARCH CO., DIV.-THE GARRETT CORP., a, c, d, e.
 Alco Valve Co., a, b.
 Allied International Corp., a.
 Allison Div., General Motors Corp., a thru e.
 American Electronics, Inc., c.
 American Measurement & Control, Inc., b.
 *ANNIN CO., THE, a, b.
 Arkin Industries, Inc., b thru e.
 Armament Div.-Universal Match Corp., c, e.
 Arnolt Corp., b, d.
 Barber-Calman Co., a, c, d, e.
 Beaver Precision Products Inc., a, b, c, e.
 Bellafrom Corp., b, c, d.
 Belock Instrument Corp., a, e.
 Benbow Mfg. Corp., b, d.
 Bendix Aviation Corp., a thru e.
 *BENDIX AVIATION CORP., HAMILTON DIV., b, e.
 Bendix Aviation Corp., Montrose Div., e.
 Bendix-Pacific Div., Bendix Aviation Corp., a thru e.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., a, b, d.
 Bendix Utica Div., Bendix Aviation Corp., d.
 Bobrick Aero Missile Products, b, d.
 Bawser, Inc., b, d.
 Breeze Corporations, Inc., a, b, c, e.
 Bruce Engr. Co., b.
 Bruning Co., The, b, d.
 Cadillac Gage Co., b thru e.
 Chalco Engr. Corp., b, d.
 Chance Vought Aircraft, Inc., a thru e.
 Clark Equipment Co., b.
 Cleveite Ordnance, Div.-Clevite Corp., a, b.
 Compudyne Corp., a, b.
 Conoflow Corp., a, d.
 Consolidated Controls Corp., b thru e.

Cornell Deep Drawing Co., Div.-Lanes Industries Corp., d.
 Courter Products, Div., Model Engrg. & Mfg., Inc., a, c.
 James Cunningham Son & Co., Inc., c.
 Curtis Wright Corp., Electronics Div., e.
 Custom Component Switches Inc., b, d.
 George W. Dahl Co., Inc., d.
 Dalmo Victor Co., Div., Textron, Inc., a thru e.
 Joe Davidson & Associates, a, c, e.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., a, e.
 *DEL MAR ENGRG. LABS., a, c.
 Dukes Co., Inc., b.
 Dynamic Controls Corp., b, d.
 Eastern Industries Inc., b.
 Electric Autolite Co., The, a, c, e.
 Electro Precision Corp., e.
 Electron Inc., b thru e.
 Electronic Specialty Co., Eemco Div., a, c, e.
 Electro-Seal Corp., e.
 *EXCELCO DEVELOPMENTS INC., a thru d.
 Ex-Cell-O Corp., b, d, e.
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp., b, c.
 Fisher Governor Co., a, d.
 Ford Instrument Co., Div.-Sperry Rand Corp., a, e.
 Futurecraft Corp., b, d.
 Gabriel Co., Rocket Power-Talco, c, e.
 Galland Henning Mfg. Co., Nopak Div., b, d.
 Garwin, Inc., a, c, e.
 General American Transportation Corp., b, c.
 General Aniline & Film Corp., Ansco Div., e.
 General Controls Co., a.
 General Electro Mechanical Corp., a, e.
 General Regulator Corp., a, b, d.
 Gillfillan Bros. Inc., a thru e.
 Gorn Electric Co., Inc., Aircraft Controls Div., b.
 Gray Mfg. Co., The, c.
 Great Lakes Mfg. Corp., b, d.
 Guided Missile Div., The Firestone Tire & Rubber Co., d.
 B. H. Hadley, Inc., a thru e.
 Hamilton Standard, Div.-United Aircraft Corp., d.
 George E. Harris & Co., Inc., a, c, e.
 Haskel Engrg. & Supply Co., b thru e.
 A. W. Haydon Co., The, a, e.
 Herlo Corp., a, b, d.
 Hickok Electrical Instrument Co., The, a.
 Hoefner Corp., b, d.
 Hoffman Electronics Co., a.
 Hoover Electric Co., a, c, e.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP., b, d, e.
 Houdaille Industries, Inc., Buffalo Hydraulics Div., b, c, e.
 Huyck Systems Co., a thru e.
 Walter J. Hyatt Co., The, a, b, d, e.
 Hydro Power Corp., b thru e.
 Hydro-Aire Co., Div.-Crane Co., a, c, e.
 Hydromatics, Inc., a, b, d.
 Integral Corp., b, d.
 Interstate Electronics Corp., b.
 Interstate Engrg. Corp., b thru e.
 Jack & Heintz, Inc., a, b, c, e.
 Janitrol Aircraft Div., Midland-Ross Corp., d.
 Jordan Controls Inc., a, c, e.
 *KEARFOTT DIV., GENERAL PRECISION, INC., b, c, e.
 Kelsey-Hayes Co., b thru e.
 Kemp Aero Products, a thru e.
 Kidde Aero Space Div., Walter Kidde & Co., Inc., d.
 Kieley & Mueller, Inc., a, b, d.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., e.
 Langley Corp., b, d.
 Lear, Inc., a thru e.
 Leetronics, Inc., a, e.
 G. H. Leland, Inc., e.
 Lithium Corp. of America Inc., The Fulton-Irgon Div., Lundy Mfg. Corp., a, b, c, e.
 M-D Blowers, Inc., d.
 Mogral, Inc., a, e.
 Moragard Corp., The, a thru e.
 Martin Machine Works, Inc., c.
 Moson Electric Corp., e.
 Moson-Neilson, a, b, d.
 McDowell-Wellman Companies, The, b, d.
 Mechanics Research Div., American Machine & Foundry Co., d.
 Menosco Mfg. Co., b thru e.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div., d.
 National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc., b, d, e.
 New York Air Brake Co., The, Watertown Div., b.
 Oil-Dyne, Inc., b, d.
 Oriman-Miller Machine Co., Inc., b, d.
 Overload Control Co., a, e.
 Ozone Metal Products Corp., b thru e.
 Pacific Scientific Co., d.
 Parker-Hannifin Corp., b, d.

Peacock Engrg. & Mfg. Co., b, d.
 Pegasus Labs., Inc., b, c.
 Pesco Products Div.-Borg Warner Corp., b.
 Phillips Control Corp., a.
 Piau Engrg. Inc., a, b.
 Pressed Steel Tank Co., d.
 Randall Engrg. Corp., b, c, d.
 Ravenna Metal Products, Div.-Standard Screw Co., b, d, e.
 Regent Jack Mfg. Co., Inc., b.
 Republic Mfg. Co., b.
 Research, Inc., b.
 J. R. Robbins Co., b, d.
 Robot Industries Inc., a, b, d, e.
 Ranson Hydraulic Units Corp., b, d.
 S-F Mfg. Corp., The, b thru e.
 Sancar Corp., b.
 Sanders Associates, Inc., b.
 Sargent Engrg. Corp., b thru e.
 Servo-Tek Products Co., e.
 Sier-Bath Gear & Pump Co., Inc., c, e.
 Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp., a, b, d.
 Sigma Instruments, Inc., a, e.
 Simmonds Aerocessories, Inc., b, d.
 Singer Military Products Div.-The Singer Mfg. Co., e.
 Sirvalco Systems Corp., b, d, e.
 Skytronics, Inc., a, b, c, e.
 Skyvalve, Inc., a, b, d.
 C. M. Smillie & Co., b, d.
 South Wind Div., Stewart Warner Corp., a.
 Southwest Research Institute, c, e.
 Southwestern Industries, Inc.
 Sperry Farragut Co., Div.-Sperry Rand Corp., e.
 Spiroid Div., Illinois Tool Works, a, c, e.
 Steel Products Engrg. Co., Div.-Kelsey-Hayes Co., a, b, c, e.
 Stratots, Div.-Fairchild Engine & Airplane Corp., d.
 Summers Gyroscope Co., a thru e.
 Sun Electric Corp., Aeronautical Div., b thru e.
 Sundstrand Turbo
 Sweetland Engrg. Co., b, d.
 Talley Corp., The, a thru e.
 Tapco Group, Thompson Ramo Wooldridge Inc., a, b, e.
 Task Corp., a thru e.
 Thompson Ramo Wooldridge Inc., a, b, e.
 Transco Products, Inc., a, e.
 United Aircraft Products, Inc., b, c, d.
 United Control Corp., a, e.
 United Mfg. Co., The, a, b.
 U. S. Gear Corp., c, e.
 U. S. Industries, Inc., b, d.
 United States Chemical Milling Corp., a, b, d.
 Vacuum Research Co., d.
 Valcor Engrg. Corp., a.
 Vap-Air Aeronautical Products Div., Vapor Heating Corp., d.
 Vickers Inc., Div.-Sperry Rand, b, c, e.
 Vickers Inc., Electric Products Div., a.
 Vickers, Inc., Mich., b, c, e.
 Vinson Mfg. Co., Inc., b, d.
 Waste King Corp., Technical Products Div., a, c.
 Weatherhead Co., The, b, d.
 Weber Aircraft Corp., a, c, e.
 Western Design, Div.-U. S. Industries, Inc., b, c, d.
 Western Gear Corp., Precision Products Div., a, c, e.
 Western Sky Industries, b.
 Westinghouse Air Brake Co., Industrial Products Div., d.
 Westinghouse Electric Corp., a.
 Weston Hydraulics Ltd., Sub.-Borg Warner Corp., b, c, d.
 Whiton Machine Co., The, b, d.
 Whittaker Controls, Div.-Telecomputing Corp., a, b, d, e.
 Wickfield, Inc., b.

ADAPTERS

- a. Air
- b. Battery
- c. Crystal
- d. Field Sequential
- e. Foreign
- f. Lamp Socket
- g. Line & Dot Sequential
- h. Phase
- i. Plug
- j. Test
- k. Tube
- l. Tube Socket

Accessory Products Co., Div.-Textron Inc., a.
 Aeroquip Corp., Jackson Div., k.
 Air Filter Corp., a.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., b.
 Alton Products Co., j, k, l.
 American Instrument Co., Inc., j.
 Anaheim Electronics Div.-Electronic Engrg. Co. of Calif., j.

Barnes Development Co., j.
 Belmar Wheel & Machine Co., Inc., b.
 Bendix Aviation Corp., Cincinnati Div., h, j.
 Birnbach Radio Co., Inc., i.
 Cable Electric Products Inc., f, i.
 Cal Connector Co., i.
 Chase Brass & Copper Co., Inc., k.
 Coaxial Connector Co. Inc., c, g, i.
 Cole Electric Co., b, d, i, j.
 Collins Mfg. Corp., k.
 Diamond Antenna & Microwave Corp., c.
 Dill Mfg. Co., The, a.
 Dumont Engrg. Co., k.
 Eagle Electric Mfg. Co. Inc., e, f, i.
 Electronic Tube Corp., i.
 Farwest Mfg. Div., Inc., b, f, h, i, j.
 G-C Electronics Co., i, l.
 General Radio Co., i.
 B. H. Hadley, Inc., a.
 Haskel Engrg. & Supply Co., a.
 Herlo Corp., j.
 Hoke Inc., k.
 Huyck Systems Co., h.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., f, i, j.
 Keystone Electric Corp., b.
 Kings Electronics Co., Inc., i.
 Kulko Electric Corp., e, f, i.
 Lab-Tronics, Inc., i thru l.
 Langley Corp., a.
 Leviton Mfg. Co., Inc., f, i.
 Livingston Electronic Corp., l.
 *MARTIN CO., THE, DENVER DIV., a, b, h, i, j.
 Martin Machine Works, Inc., i, l.
 Meridian Metalcraft, Inc., c.
 James Millen Mfg. Co. Inc., c.
 Molded Insulation Co., f, i.
 Frank W. Morse Co., e, f.
 Norrich Plastics Corp., h, i, l.
 Norrich Screw Machine Products, g, h, k.
 Paul Nurches Co., c, i thru l.
 Peco Electronics Co., Inc., j, k.
 Parker Fittings & Hose Div., Parker-Hannifin Corp., k.
 Piasecki Aircraft Corp., b, f, i thru l.
 Pomona Electronics Co., Inc., i, j, k.
 Precision Apparatus Co., Inc., j.
 Precision Equipment Co., Inc., k.
 Royal Electric Corp., i.
 Sage Labs., Inc., c.
 Simpson Electric Co., j.
 C. M. Smillie & Co., a.
 Theto Instrument Corp., h.
 Varo Mfg. Co., Inc., h.
 Vector Electronic Co., Inc., j, l.
 Virginia Electronics Co., Inc., i, j.
 Warren Components, Div.-El-Tronics, Inc., l.
 Weatherhead Co., The, a.
 Western Div., Aeroquip Corp., k.
 Westinghouse Electric Corp.
 Winder Aircraft Corp. of Florida, a, b.

ADHESIVES, HIGH TEMPERATURE

Adhesive Engrg. Div.-Hiller Aircraft Corp.
 Ambroid Co., Inc.
 American Latex Products Corp.
 Aries Laboratories, Inc.
 Armstrong Cork Co.
 Avondale Co., The
 Bjorksten Research Labs. for Industry, Inc.
 Bloomingdale Rubber Co.
 Borden Chemical Co.
 Corborandum Co., The
 Connecticut Hard Rubber Co., The
 Corning Glass Works
 Daubert Chemical Co.
 Dayton Rubber Co., The
 Dennis Chemical Co.
 Dow Corning Corp.
 Duracote Corp.
 Emerson & Cuming, Inc.
 Epoxy Products, Inc., Div.-Joseph Waldman & Sons
 Food Machinery & Chemical Corp.-Epoxy Dept.
 Furone Plastics, Inc.
 B. F. Goodrich Industrial Products Co.
 Hastings Plastics, Inc.
 Instrumentation Associates, Inc.
 Johns-Manville Sales Corp.
 Kish Industries, Inc.
 Lam-Plly, Inc.
 Lebec Chemical Corp.
 Lord Mfg. Co.
 Morblette Corp., The
 *MINNESOTA MINING & MFG. CO.
 *MINNESOTA MINING & MFG. CO.-ADHESIVES, COATING & SEALERS DIV.
 Mitchell Rond Mfg. Corp.
 Monsanto Chemical Co.
 Morningstar-Paisley, Inc.
 C. P. Moyer Co.
 Narmco Materials Div., Narmco Industries, Inc.

Norrich Plastics Corp.
Norrich Screw Machine Products
Permacel
Permatex Co., Inc.
Philadelphia Quartz Co.
Protex-A-Cote, Inc.
Raybestos-Manhattan, Inc.
Rezolin, Inc.
Rubber & Asbestos Corp.
Sauerisen Cements Co.
Silicone Products Dept., General Electric Co., Dept. C.
Thermon Mfg. Co.
Topper Mfg. Co., Inc.
United Shoe Machinery Corp.
United States Plywood Corp.
United States Rubber Co.
Wasley Products, Inc.
Wesprep Corp.
Xylos Rubber Co., Div.-The Firestone Tire & Rubber Co.

ADHESIVES, METAL TO METAL

Adhesive Engrg. Div.-Hiller Aircraft Corp.
Aeronca Mfg. Corp.
American Latex Products Corp.
American Products Mfg. Co.
Aries Laboratories, Inc.
Armstrong Cork Co.
Armstrong Products Co.
Avondale Co., The
Bacon Industries, Inc.
Carl H. Biggs Co.
Bjorksten Research Labs. for Industry, Inc.
Bloomingdale Rubber Co.
Borden Chemical Co.
Corboline Co.
Cordo Chemical Corp.
Cox & Co., Inc.
Daubert Chemical Co.
Dayton Rubber Co., The
Dennis Chemical Co.
Emerson & Cuming, Inc.
L. W. Ferdinand & Co. Inc.
Food Machinery & Chemical Corp.-Epoxy Dept.
Furone Plastics, Inc.
B. F. Goodrich Aviation Products
B. F. Goodrich Industrial Products Co.
Grant-Lehr Corp.
Hastings Plastics, Inc.
Honeycomb Co. of America, Inc.
Horsey, Robson & Co., Inc.
Hughes Tool Co., Aircraft Div.
Johns-Manville Sales Corp.
Kish Industries, Inc.
Lam-Ply, Inc.
Lebec Chemical Corp.
Leffingwell Chemical Co.
Lord Mfg. Co.
Moos & Waldstein Co.
Morblette Corp., The

***MINNESOTA MINING & MFG. CO.**
***MINNESOTA MINING & MFG. CO.-ADHESIVES, COATING & SEALERS DIV.**

Morningstar-Paisley, Inc.
C. P. Moyné Co.
Narmco Materials Div., Narmco Industries, Inc.
New England Tape Co., Div.-United-Corr. Fastener Corp.
Pernocel
Pioneer Industries Div., Almor-York Co., Inc.
Plastic Film Co., Inc.
Portland Copper & Tank Works Inc.
Protex-A-Cote, Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Raybestos-Manhattan, Inc.
Rezolin, Inc.
Rubber & Asbestos Corp.
Sauerisen Cements Co.
Silicone Products Dept., General Electric Co., Dept. C.
Smooth-On Mfg. Co.
Sylvania-Corning Nuclear Corp.
Thermon Mfg. Co.
Topper Mfg. Co., Inc.
U B S Chemical Co., Div.-A. E. Staley Mfg. Co.
United States Plywood Corp.
Vorac Co., The
Wasley Products, Inc.
X-Pando Corp.
Xylos Rubber Co., Div.-The Firestone Tire & Rubber Co.

AFTERBURNERS

Allison Div., General Motors Corp.
B. H. Aircraft Co., Inc.
Budd Co., The
A. M. Byers Co.
Calcor Corp.
Crane Co., Special Products Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
ITE Circuit Breaker Co., Special Products Div.

Koiser Fleetwings, Inc.
***LAVELLE AIRCRAFT CORP.**
Lycorning Div., Avco Corp.
Morquardt Corp., The
McGregor Mfg. Corp.
Portland Copper & Tank Works Inc.
Solar Aircraft Co.
Southwest Research Institute

AFTERCOOLERS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
B. H. Aircraft Co., Inc.
Crane Co., Special Products Div.
Griscom-Russell Co., The
ITE Circuit Breaker Co., Special Products Div.
Joy Mfg. Co.
Manning & Lewis Eng. Co.
Marlo Coil Co.
McGregor Mfg. Corp.
Modine Mfg. Co.
Portland Copper & Tank Works Inc.
Rome-Turney Radiator Co., The
Southwest Research Institute
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Struthers Wells Corp.
Whitlock Mfg. Co., The
Worthington Corp.

AIR CONDITIONING EQUIPMENT

ACF Industries Inc.
Accessory Controls & Equipment Corp.
Air Filter Corp.
Airoterra
***AIRESEARCH MFG. OF ARIZONA**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Alco Valve Co.
Amco Engrg. Co.
American Air Filter Co., Defense Products Div.
American Electronics, Inc.
American Standard Industrial Div.
Barber-Colman Co.
Barnebey-Cheney Co.
Bendix Aviation Corp.
Bendix Utico Div., Bendix Aviation Corp.
Blowers Inc.
Budd Lewyt Electronics, Inc.
A. M. Byers Co.
Calcor Corp.
California Stamping & Mfg. Co.
Cambridge Filter Corp.
Carrier Corp.
Consolidated Diesel Electric Corp.
Crane Co., Special Products Div.
Joe Davidson & Associates
Dean & Benson Research, Div.-Benson Mfg. Co.
Desomatic Products, Inc.-Anders-Driline
Dreyer Hanson Div.-Crane Co.
Drico Industrial Corp.
Drymatic Corp.
Dunham-Bush Inc.
Ellis & Wotts Products, Inc.
Ellison Draft Gage Co., Inc.
Frick Co.
Great Lakes Mfg. Corp.
Gremco, Inc.
Hallcrafters Co., The
Hamilton Standard, Div.-United Aircraft Corp.
George E. Harris & Co., Inc.
Highland Engrg. Co.
C. G. Hokanson Co., Inc.

***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.**

Hunter Mfg. Co.
Hydro-Aire Co., Div.-Crane Co.
Junirol Aircraft Div.-Midland-Ross Corp.
Koppers Co., Inc., Metal Products Div.
Marlo Coil Co.
***MARTIN CO., THE, DENVER DIV.**
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.

Modine Mfg. Co.
Monrovia Aviation Corp.
On Mark Couplings, Inc.
D. W. Onan & Sons Inc.
Philco Corp.-Govt. & Industrial Group
Pioneer Industries Div., Almor-York Co., Inc.
Pre-Flite Industries Corp.-Sub.-Avco Mfg. Corp.
Pyle-National Co., The
Ready-Power Co., The
Recony Div.-Vincor Corp.
Roylyn Inc.
Shaw Burner Co.
Solar Aircraft Co.
South Wind Div., Stewart Warner Corp.
Southwest Research Institute
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Surface Combustion Div.-Midland-Ross Corp.
Task Corp.
Thermo King Corp.

Thermon Mfg. Co.
Tober Electronic Corp.
Torrington Mfg. Co., Inc., The, Specialty Blower Div.
Trane Co., The
Typhoon Air Conditioning Div., Hupp Corp.
United Control Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Universal Dynamics Corp.
Vilter Mfg. Co., The
Wells Industries Corp.
Wenzlauer Engrg. Co.
Westinghouse Electric Corp.
Worthington Corp.
York Div., Borg-Warner Corp.

AIR INLET GUIDE VALVES

Accessory Products Co., Div.-Textron Inc.
Capital City Mfg. Co., Inc.
Consolidated Controls Corp.
Ex-Cell-O Corp.
Futurecraft Corp.
B. H. Hadley, Inc.
Hoefner Corp.
Hydra-Power Corp.
Jarvis Corp.
Kelsey-Hayes Co.
Kemp Aero Products
Kolkast Industries-Div. Thompson Ramo Wooldridge Inc.
Lundy Mfg. Corp.
Ozone Metal Products Corp.
Ravenna Metal Products, Div.-Standard Screw Co.
Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp.
Sirvalco Systems Corp.
Solar Aircraft Co.
Southwestern Valve Corp.
Talley Corp., The
The United States Chemical Milling Corp.

AIR INLET SCREEN SUPPORTS

Allison Div., General Motors Corp.
B. H. Aircraft Co., Inc.
Beacon Steel Corp.
Calcor Corp.
Kentucky Metal Products Co.
Talley Corp., The

AIRBORNE LANDING SYSTEMS

All American Engrg. Co.
Allied International Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Aviation Corp.
Broadview Research Corp.
Brooks & Perkins, Inc.
A. M. Byers Co.
Calcor Corp.
Decker Corp., The
Edgerton, Germeshausen & Grier, Inc.
Emertton, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Gabriel Co., Rocket Power-Talco
General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept.
General Electric Co., Light Military Electronics Dept.
General Instrument Corp., Defense & Engrg. Products Group
Giffillon Bros. Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
Kemp Aero Products
Lab. for Electronics, Inc.
Leair, Inc.
Libroscope Div., General Precision, Inc.
Litton Industries, Maryland Div.
Minneapolis-Honeywell Regulator Co. Aeronautical Div.
Motorola, Inc.
Northrop Corp.
Ozone Metal Products Corp.
Rodalab Inc.
Radio Condenser Co.
***RADIO CORP. OF AMERICA**
Republic Aviation Corp., Missile Systems Div.
Skiatron Electronics & Television Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Tranco Products, Inc.
V & H Radio & Electronics
Western Design, Div.-U. S. Industries, Inc.

ALARM SYSTEMS

American District Telegraph Co.
American Electronics Inc., Toller-Cooper Div. & Data Systems Div.
American Instrument Co., Inc.
Arnoux Corp.
Avien, Inc.
Bell & Gossett Co.
Bendix Aviation Corp., Cincinnati Div.

Briggs Associates, Inc.
***BRISTOL CO., THE**
 Budd Co., The
 Budd Loyal Electronics, Inc.
 Compudyme Corp.
 Consolidated Controls Corp.
 Joe Davidson & Associates
 Daystrom, Inc., Control Systems Div.
 Decker Corp., The
 Devco Engrg., Inc.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
 Electronic Control Corp.
 Electro-Seal Corp.
 Ellison Draft Gage Co., Inc.
 Fenwal Inc.
 General Devices, Inc.
 Illinois Testing Laboratories, Inc.
 Interstate Electronics Corp.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Leach Corp.
 Lenkurt Electric Co., Inc.
 Leslie Co.
***MARTIN CO., THE, DENVER DIV.**
 Miller Associates
 Mine Safety Appliances Co.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
 Moore Associates, Inc.
 Motorola, Inc.
 National Electronics
 Notifier Corp.
 Photobell Co., Inc.
 Production Research Corp., Sub-Radio Condenser Co.
***RADIO CORP. OF AMERICA**
 Rockwood Sprinkler Co., Div.-The Gamewell Co.
 Santa Barbara Research Center
 Schoeplitz Engrg.
 H. H. Scott, Inc.
 Scott Aviation Corp.
 Secode Corp.
 Southwestern Industrial Electronics Co.
 Special Products Dept., Melpar, Inc.
 Spectra Electronics Corp.
 Telkor, Inc.
 Thermo Electric Co., Inc.
 Tracerlab Inc.
 Trepac Corp. of America
 United Control Corp.
 United Electric Controls Co.
 Vap-Air Aeronautical Products Div., Vapor Heating Corp.
 Voro Mfg. Co., Inc.
 Wells Industries Corp.
 Western Union Telegraph Co., The
 Wheelock Signals Inc.

ALARMS, AUTO

Advanced Electronics, Inc.
 Avien, Inc.
***BRISTOL CO., THE**
 California Plasteck Inc.
 Consolidated Controls Corp.
 Instrument Div., The Budd Co.
 Leach Corp.
 Leslie Co.
 Photobell Co., Inc.
***RADIO CORP. OF AMERICA**
 United Electric Controls Co.
 Wells Industries Corp.

ALLOYS, HIGH PERMEABILITY

American Smelting & Refining Co.
 Arnold Engrg. Co., The
 Avco Corp., Nashville Div.
 Belmont Smelting & Refining Works, Inc.
 Bram Metallurgical Chemical Co.
 Carpenter Steel Co., The
 Continental-EmSCO Co., Div.-The Youngstown Sheet & Tube Co.
 Crucible Steel Co. of America
 Driver-Harris Co.
 Electric Steel Foundry Co.
 Hamilton Watch Co.-Industrial Div.
 Hydroforming Co. of America Inc.
 Metals Div., Kelsey-Hayes Co.
 Springfield Brass Co., Inc.
 Techalloy Co. Inc.
 Telcon, Inc.
 Universal-Cyclops Steel Corp.
 Var-Lac-Oid Chemical Co.
 Vascoloy-Ramet Corp.
 Wallingford Steel Co.
 Westinghouse Electric Corp.

ALNICO

Aluminum Co. of America

Arnold Engrg. Co., The
 Barker Sales Co.
 Bram Metallurgical Chemical Co.
 Crucible Steel Co. of America
 General Magnetic Corp.
 Hamilton Watch Co.-Industrial Div.
 Permanent Magnet Co., Inc., The
 Var-Lac-Oid Chemical Co.
 Westinghouse Electric Corp.

ALTERNATORS

***AEROJET-GENERAL CORP.**
***AIRRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Allied International Corp.
 Allis-Chalmers
 Allison Div., General Motors Corp.
 American Electronics, Inc.
 Bendix Aviation Corp.
 Consolidated Diesel Electric Corp.
 Joe Davidson & Associates
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Eicor Div.-Scranton
 Electric Motors & Specialties, Inc.
 General Electric Co., Apparatus Sales Div.
 Genisco, Inc.
 Georator Corp.
 Paul E. Gerst & Co.
 George E. Harris & Co., Inc.
 Hal-Gar Mfg. Corp.
 Hoover Electric Co.
 William I. Horlick Co., Inc.
 Induction Heating Corp.
 Jack & Heintz, Inc.
 Leach Corp.
 Leece-Neville Co., The
 Leland Airborne Products, Div.-American Machine & Foundry Co.
 Motor Generator Corp.
 National Pneumatic Co., Inc., Holtz-Cabot Divs.
 D. W. Onan & Sons Inc.
 Pesco Products Div.-Borg-Warner Corp.
 Radio Development & Research Corp.
 Talley Corp., The
 Task Corp.
 U. S. Industries, Inc.
 V & H Radio & Electronics
 Voro Mfg. Co., Inc.
 Westinghouse Electric Corp.
 Worthington Corp.

ALTIMETERS, BAROMETRIC PRESSURE

***AIRRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Avco Corp., Crosley Div.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Pioneer-Central Div.
 A. Biederman, Inc.
 Bulova Research & Development Labs, Inc.
 Calvin Labs., Inc.
 Consolidated Controls Corp.
 Daystrom Inc., Pacific Div.
 Decker Corp., The
 Garwin, Inc.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hickok Electrical Instrument Co., The
 E. Vernon Hill & Co.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
***WALLACE O. LEONARD, INC.**
 A. Lietz Co., The
 Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
 Mitchell Camera Corp.
 New England Scientific Instruments Co.
 Newark Controls Co.
 Patterson Moos Research, Div.-Leeson Co.
 Rosemount Corp.
 Servomechanisms, Inc.
 Southwest Research Institute
 Specialties, Inc.
 Wallace & Tiernan Inc.
 Wang Labs., Inc.

ALTIMETERS, RADIO & RADAR

Advance Industries, Inc.
 Allied International Corp.
 American Electronics Inc., Toller-Cooper Div. & Data Systems Div.
 Avco Corp., Crosley Div.
 Bendix Aviation Corp.
 Bendix-Pacific Div., Bendix Aviation Corp.
 Bergen Labs., Inc.
 Bruno-New York Industries Corp.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.**
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Fla. Aircraft Radio & Marine
 Gray Mfg. Co., The
 Hickok Electrical Instrument Co., The
 Hoffman Electronics Co.

Huyck Systems Co.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Intercontinental Electronics Corp.
 Lab. for Electronics, Inc.
 Litton Industries, Maryland Div.
 W. L. Maxson Corp., The
 Motorola, Inc.
 Northrop Corp.
 Radalab Inc.
 Sanders Associates, Inc.
 Skiatron Electronics & Television Corp.
 Stewart-Warner Electronics Div.
 Taffet Electronics, Inc.
 Texas Instruments Inc.
 V & H Radio & Electronics

ALUMINUM

Aluminium Limited Sales, Inc.
 Aluminum Co. of America
 American Smelting & Refining Co.
 Artra Aluminum Foundry & Mfg. Co. Inc.
 Belmont Smelting & Refining Works, Inc.
 Bohn Aluminum & Brass Corp.
 Bond Metal Surplus Co.
 Bridgeport Brass Co.
 Calcor Corp.
 Chase Brass & Copper Co., Inc.
 Custom Tool & Mfg. Co.
 Dow Chemical Co., The
 Electronic Parts Mfg. Co., Inc.
 Hamilton Watch Co.-Industrial Div.
 Harvey Aluminum
 Hydroforming Co. of America Inc.
 Walter K. Jaros Aircraftrafters
 Earle M. Jorgensen Co.
 Kaiser Aluminum & Chemical Sales, Inc.
 Morris P. Kirk & Son, Inc.
 Light Metals, Inc.
 Metalpho Corp.
 Olin Mathieson Chemical Corp.-Metals Div.
 Olin Mathieson Chemical Corp., N. Y.
 R. H. Osbrink Mfg. Co.
 F. H. Paul & Stein Brothers, Inc.
 Pioneer Aluminum Inc.
 Ravenna Metal Products, Div.-Standard Screw Co.
 Revere Copper & Brass Inc.
 Reynolds Metals Co.
 Reynolds Metals Co., Sheffield Missile Plant
 Rodney Metals Inc.
 Scovill Mfg. Co.
 South River Metal Products Co., Inc.
 Sauthwire Co.
 Springfield Brass Co., Inc.
 United Smelting & Aluminum Co., Inc.
 U. S. Steel Supply Div., United States Steel Corp.
 Wyman-Gordon Co.

AMMETERS

Allen Electric & Equipment Co.
 Assembly Products, Inc.
 Bendix Aviation Corp., Cincinnati Div.
***BRISTOL CO., THE**
 Calvert Electronics Inc.
 Columbia Electric Mfg. Co.
 Daystrom Inc., Weston Instruments Div.
 Dejur-Amsco Corp., Electronic Sales Div.
 Electric Design & Mfg. Co.
 Electro Instruments, Inc.
 Epic, Inc.
 Esterline-Angus Co., The
 General Electric Co., Apparatus Sales Div.
 Greibach Instruments Corp.
 Hammett-Mercury-Rex Div.
 Hewlett-Packard Co.
 Hickok Electrical Instrument Co., The
 Hoyt Electrical Instrument Works, Inc., Burton Rogers Co.
 Ideal Precision Meter Co., Inc.
 International Instruments Inc.
 Marion Instrument Div.-Minneapolis-Honeywell Regulator Co.
 Meters Inc.
 National Electronics
 New England Scientific Instruments Co.
 Pace Electrical Instruments Co., Inc.
 Phaostron Instrument & Electronic Co.
 Q. V. S. Inc.
 Rochester Mfg. Co. Inc.
 Rochester Mfg. Co. Inc. of Calif.
 Sensitive Research Instrument Corp.
 Simpson Electric Co.
 Stewart-Warner Corp., Altemite Div.
 Sun Electric Corp., Aeronautical Div.
 Sunshine Scientific Instrument
 Triplett Electrical Instrument Co.
 Wacline, Inc.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co.
 Westinghouse Electric Corp.

AMPLIDYNES

Allis-Chalmers
Diehl Mfg. Co.
General Electric Co., Apparatus Sales Div.
Hoover Electric Co.

AMPLIFIERS

a. Antenna
b. Audio Subminiature
c. Booster
d. Cathode Follower
e. Compressor
f. Computer
g. Control
h. Data Recording
i. DC
j. Decade, Audio
k. Development
l. Differential
m. Distribution, Audio
n. Distribution, RF & IF
o. Encapsulated
p. Instrumentation
q. Integrating
r. Intermediate Frequency
s. Isolation
t. Limiting
u. Line
v. Line, Audio
w. Logarithmic
x. Magnetic
y. Microphone
z. Microwave
a-1. Mixing, Audio
b-1. Mixing, RF
c-1. Monitoring, Audio
d-1. Monitoring, RF
e-1. Noise-Suppressing
f-1. Operational
g-1. Oscilloscope
h-1. Parametric
i-1. Peak Limiting
j-1. Photocell
k-1. Plug-In
l-1. Power
m-1. Power, Special Service
n-1. Printed Circuit
o-1. Pulse
p-1. Recorder
q-1. Servo
r-1. Single-Sideband
s-1. Stabilizing
t-1. Strain Gage
u-1. Tone Control
v-1. Transistor
w-1. Ultrasonic
x-1. Vibration Pickup
y-1. Wideband, Audio
z-1. Wideband, RF
ACDC Electronics, Inc., x.
ACF Industries Inc., b, g, i, l, o, p, u, x, k-1, n-1, o-1, q-1, v-1, z-1.
Acme Electric Corp., f, h, k, o, x, n-1.
Acromag Inc., q, x, q-1, t-1.
Acton Laboratories Inc., j, l-1, m-1, y-1.
Activation Research Corp., k, x.
Adage, Inc., f, i, l, s, f-1, n-1.
Adler Electronics, Inc., z, f-1.
Advance Industries, Inc., f thru i, k, l, n thru r, x, z, n-1, o-1, q-1, v-1.
Advance Instrument Corp., q-1.
Advanced Electronics, Inc., x-1.
Aeroflex Labs. Div., Aeroflex Corp., k, q, q-1, v-1.
Aeronautical Electronics, Inc., k-1, f-1.
Aeronic Mfg. Corp.-Aerospace Div., f, g, h, o, q, f-1, o-1, o-1, q-1, v-1.
Aeroscience, Inc., p, t-1.
Aetna Electronics Corp., q-1, w-1.
Airborne Accessories Corp., g, i, x, f-1, q-1, v-1.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., q, r, f-1, h-1.
Aircrom Inc., a, z, h-1.
Aircraft Accessory Turbine Dept.-General Electric Co., g, q-1.
*AIRESARCH MFG. CO. DIV.-THE GARRETT CORP., x, q-1.
Airtap Electronics Inc., Cambridge Div., f, g, i, l, p, q, x, c-1, f-1, m-1, q-1, t-1.
Airtap Electronics Inc. Seminole Div., f, g, i, l, p, q, x, c-1, f-1, m-1, q-1, t-1.
Airtron, Div.-Litton Industries, n, z, b-1.
Alfred Electronics, p, z.
Allegheny Instrument Co., Inc., i, j, l, q, q-1, t-1.
Allied International Corp., o, o.
Allison Div., General Motors Corp., x.
Alto Scientific Co., Inc., r, v-1.
Amerac Inc., z.
American Electronic Labs, Inc., i.
American Electronics, Inc., f, g, x, o-1, f-1, q-1, v-1.

American Electronics Incorporated, p, q-1.
American Electronics Inc., Tuller-Cooper Div. & Data Systems Div., h, p-1.
American Latex Products Corp., o.
American Machine & Foundry Co., Government Products Group, e-1.
American Measurement & Control, Inc., i, q-1, t-1.
American Missile Products Co., Inc., b, t, n-1, v-1.
American Rectifier Corp., x.
American Research & Mfg. Corp., d, f, i, k, l, o, p, x, s, x, f, h-1, f-1, j-1, f-1, n-1, q-1, v-1, x-1.
Amplex Data Products Co., h, p.
Analogue Controls, Inc., q-1.
Andersen Labs, Inc., w-1, y-1, z-1.
Anlab Inc., h, p-1.
Applied Electronics Corp. of N. J., f, g, h, k, p, x, h-1, t-1, v-1.
Applied Research Inc., a, n, r, z, b-1, v-1, z-1.
Arnoux Corp., d, i, a, x, q, t-1.
Associated Engineers, Inc., p, r, v, x, o-1, c-1, d-1, k-1, n-1, v-1.
Astro Tech, i.
Raymond Atchley, Inc., q-1.
Atlas Engr. Co. Inc., g, i, x, f-1, m-1.
Audio Instrument Co., Inc., d, w.
Automatic Timing & Controls, Inc., q-1.
Avien, Inc., i, k, l, p, k-1, q-1, t-1, x-1.
B & F Instruments, Inc., h, p, t-1.
B & K Instruments, Inc., h, j, p, y, t-1, x-1.
Bearing Inspection, Inc., w-1.
Beckman Instruments, Inc., Berkeley Div., f, f-1.
Beckman-Systems Div., i, l.
Beech Aircraft Corp., g, n.
Behlman Engr. Co., l-1.
Bell & Gossett Co., f, g, i, k, p, f-1.
Belmor Wheel & Machine Co., Inc., f-1, m-1.
Belock Instrument Corp., c, f, i, k, o, q-1, v-1.
Bendix Aviation Corp., f, g, i, k, p, q, w, x, z, b-1, c-1, d-1, f-1, h-1, n-1, o-1, q-1, v-1, w-1, y-1, z-1.
Bendix Aviation Corp., Cincinnati Div., b, c, f thru n, p, q, r, t, x, o-1 thru e-1, g-1, i-1, k-1, f-1, m-1, o-1, q-1, s-1, v-1, w-1, x-1.
Bendix Corp., The Eclipse-Pioneer Div., f, g, x, q-1.
Bendix-Pacific Div., Bendix Aviation Corp., q-1.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., g, t.
Bergen Labs, Inc., x, q-1, v-1.
Beva Lab, Inc., i, o-1.
A. Biederman, Inc., p-1.
Blackstone Corp., w-1.
Blonder-Tongue Labs, Inc., a, c, n, u, b-1, z-1.
Blonder-Tongue Labs, Inc., Special Products Div., a thru e, k, m, n, t, v, w, y, o-1, b-1, c-1, h-1, n-1, o-1, r-1, u-1, v-1, z-1.
Bogue Electric Mfg. Co., i, x, f-1, q-1, v-1.
Bo Myte Co., Inc., The, n-1.
Boonton Electronics Corp., i, l.
Bowser, Inc., k.
Broch Mfg. Corp., a, g, i, p, t, x, f-1, f-1, m-1, q-1, s-1, v-1.
*BRISTOL CO., THE, p.
Bruno-New York Industries Corp., b, f, i, l, o, p, q, n-1, q-1, v-1.
Brush Instruments, Div.-Clevite Corp., h, i, p, p-1, t-1.
Budd Lewyt Electronics, Inc., o, b, d, f, g, h, n, h-1, v-1, y-1, z-1.
Budelman Electronics Corp., z, f-1, z-1.
Bulova Research & Development Labs, Inc., g, k, w, h-1, q-1, v-1.
Bulova Watch Co., Electronics Div., q-1.
Burr-Brown Research Corp., f, g, i, j, l, p, q, s, f-1, k-1, n-1, q-1, t-1, v-1, w-1, y-1.
Burton-Rodgers, Inc., f, g, i, k, o-1, k-1, n-1, z-1.
Bytrec Corp., p, p-1, q-1, t-1.
CBS Laboratories, Div.-Columbia Broadcasting System, o, b, d, h, j, k, o, x, y, z, b-1 thru e-1, p-1, r-1, t-1, v-1, y-1.
CG Electronics Corp., a, h, n-1, o-1.
CGS Labs, Inc., o, n, x.
Calcor Corp., a.
Cameraflex Div., The, Federal Mfg. & Engr. Corp., p.
Cedar Engr. Div.-Control Data Corp., x, q-1.
Central Safety Equip. Co., a.
Centralab, Div.-Globe-Union, Inc., b, n-1, v-1.
Century Electronics & Instruments, Inc., h, p, p-1, t-1.
Chalco Engr. Corp., b, d, e, g, h, i, k thru n, p, q, t, u, v, c-1, e-1, f-1, i-1, k-1 thru n-1, q-1, r-1, v-1.
Chance Vought Aircraft, Inc., o, f, q, y, e-1, h-1, f-1, n-1, q-1, s-1.
Chicago Electronic Engr. Co., Inc., x.
Circo Equipment Co., w-1.
Circo Ultrasonic Corp., w-1.
Cleveland Instrument Co., l.
Cleveland Metal Specialties Co., Electronics Div., b, n-1.
Clevite Ordnance, Div.-Clevite Corp., b, d, g, h, i, k, l, o, p, q, t, w, x, y, o-1, c-1, g-1, f-1, k-1, f-1, n-1, o-1, q-1, v-1, w-1, y-1.
Coil Co. of America, x.
Colorado Research Corp., f-1, q-1.

*COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., x.
Communication Accessories Co., i, x.
Communication Measurements Lab., Inc., f-1, y-1.
Community Engr. Corp., a, n, r, n-1, a-1, z-1.
Computer Engr. Associates, Inc., f thru i, l, p, q, s, t-1, x-1.
Computer Systems, Inc., h, i, p, o-1, p-1, q-1.
Consolidated Airborne Systems, Inc., k, l, q-1.
Consolidated Controls Corp., g, i, k, q-1.
*CONSOLIDATED ELECTRODYNAMICS CORP., h, p, n-1, p-1, t-1, v-1, x-1.
Continental Electronics Mfg. Co., Sub-Ling-Altec Electronics Inc., f-1, m-1, o-1, r-1, z-1.
Control Circuits Inc., f, g, i, k, o, p, k-1 thru n-1.
Control Data Corp., x, q-1.
Control Electronics Co., Inc., k, n, r, z, o-1, v-1.
Control Technology Co., d, f, g, k, l, o, p, r, s, t, x, f-1, q-1, s-1, v-1.
Courter Products, Div.-Model Engr. & Mfg., Inc., b.
Crescent Engr. & Research Co., g, k, o, p, s, y, k-1, n-1, q-1, t-1, v-1.
Crosby-Teletronics Corp., k, r-1.
Cycle Transformer Corp., x.
DBM Research Corp., p, h-1.
Dage Television Div., Thompson Ramo Wooldridge, Inc., o-1.
Dole Products, Inc., k, o, n-1.
Dolmo Victor Co., Div.-Textron, Inc., a, b, i, k, o, p, w, z, b-1, h-1, j-1 thru r-1, v-1, z-1.
Data-Control Systems, Inc., h, t-1.
Daven Co., The, b, c, d, g, i thru p, r, t, thru w, o-1 thru d-1, f-1, g-1, i-1, k-1, f-1, o-1, u-1, v-1, w-1, y-1, z-1.
Joe Davidson & Associates, g-1, f-1.
Doystrom, Inc., Control Systems Div., f, i, x.
Doystrom, Inc., Military Electronics Div.
Doystrom Inc., Pacific Div., k, q-1.
Doystrom Inc., Western Instruments Div., g, l, q, f-1.
Dayton Aircraft Products, Inc., g, k, l, q-1.
Dytronic Corp., h, p, p-1, t-1.
Decker Corp., The, d, k, l, a, p, r, t, x, q-1, v-1.
De Havilland Aircraft of Canada, Ltd., Special Products Div., x, w-1.
Dejur-Amsco Corp., Electronic Sales Div., f-1.
Delco Radio Div.-General Motors Corp., g, f-1, m-1, n-1, q-1, v-1.
Deltron Inc., g, i, w, f-1, m-1, q-1, v-1, y-1.
Designers for Industry, Inc., k, p, z, d-1, r-1, v-1, w-1.
Detecto Scales, Inc., f.
Diehl Mfg. Co., q-1.
Djeco, Div.-Djordjevic Engr. Co., f, g, i, l, q, w, x, f-1, m-1, o-1, v-1.
Don-Lan Electronics Inc., o, k.
Domer Scientific Co., i.
Dorne & Margolin, Inc., z.
Dorsett Electronic Labs, Inc., i, b-1, v-1.
Durdwallen Mfg. Co., Inc., The, e-1.
Du Kane Corp., b, f, g, i, k, m, o, r, v, y, o-1, c-1, k-1, n-1, u-1, v-1, y-1.
Dynamics Corp., p, t-1.
Dynamic Controls Corp., g, o, v-1.
Dynamics Instrumentation Co., f thru i, l, p, q, s, u, f-1, p-1, t-1, v-1, x-1.
Dyatronics, Inc., h, k, l, p, r, s, z, k-1, o-1, q-1, v-1.
Dytrons Co., j.
Eclipse-Pioneer Div., Bendix Aviation Corp., p, f-1, q-1.
Eitel-McCullough, Inc.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., p, z, q-1.
Elcor, Inc., d, i, k, l, q.
Eldorado Electronics, f-1.
Electro Instruments, Inc., f thru l, p, q, s, t, f-1, g-1, f-1 thru q-1, s-1, t-1, v-1 thru y-1.
Electro Precision Corp., f, i, l, p, q, t, f-1, k-1, f-1, q-1, s-1.
Electromation Co., Div.-Del Mar Engr. Labs., a thru z, o-1 thru z-1.
Electronic Applications, Inc., m, t, u, v, y, a-1, v-1.
Electronic Computer Co., Inc., f, i, l, q, t, f-1, f-1, t-1.
Electronic Control Corp., j-1.
Electronic Engr. Co. of California, p.
Electronic Measurements Corp., y-1.
Electronic Teches, Inc., n-1.
Electronic Tube Corp., k, l, p, g-1, k-1, f-1, o-1.
Electro-Pulse, Inc., o-1.
Elin Div., International Electronic Research Corp., f-1, m-1.
Emertron, Sub.-Emerson Radio & Phonograph Corp., o, h, k, p, t thru x, z, o-1 thru e-1, h-1, n-1, p-1, q-1, r-1, w-1, y-1, z-1.
Emhart Mfg. Co., Maxim Div., e-1.
Empire Products Sales Corp., k, p, z, b-1 thru e-1, z-1.
Endevco Corp., d, p, x-1.
Engr. Specialties, i, w, x.
Enso, Inc., f, i, w, f-1.
*EQUIPMENT DIV., RAYTHEON CO., o, x, z, h-1, f-1, m-1, v-1, w-1.
Erdco Engr. Corp., p, q-1, v-1.

Erie Instrumentation, Div.-Erie Resistor Corp., p, c-1.
FXR, Inc., z.
Fairchild Astronautics Div., Fairchild Engine & Airplane Corp., f, g, j, k.
Fairfield Engrg. Corp., o, g, i, k, x, l-1, m-1, q-1.
Farmer Electric Products Co., Inc., j-1.
Farwest Mfg. Div., Inc., o, p, y, g-1, j-1, l-1, n-1, t-1.
Feedback Controls, Inc., f, g, x, k-1, l-1, q-1, v-1.
Ferrotron Corp., Inc., b, k, o, p, r, s, u, v, y, o-1, k-1, l-1, q-1, y-1.
Ferroxcube Corp. of America, h, x, z.
Fidelity Instrument Corp., x.
Fisher Engrg., Inc., x.
Flo. Aircraft Radio & Marine, a, s.
Flight Support, Inc., f, thru i, k, w, x, c-1, f-1, v-1.
Flite-Tronics, Inc., m, v.
Ford Instrument Co., Div.-Sperry Rand Corp., f, g, i, k, a, p, u, x, f-1, j-1, l-1, n-1, q-1, s-1, v-1.
Foto-Video Labs, Inc., c, d, k, t, g-1, l-1, v-1.
Freed Transformer Co., Inc., x.
Friez Instrument Div., Bendix Aviation Corp., p-1, q-1.
Fugle-Miller Labs, Inc., n, x.
GPI Div.-General Precision, Inc., n.
Gates Radio Co., e, k, s thru v, a-1, c-1, i-1, l-1 thru o-1, r-1, v-1, w-1, y-1, z-1.
General Aniline & Film Corp., Anso Co. Div., z.
General Communication Co., z.
General Devices, Inc., f, h, i, k, l, o thru r, l-1, a-1, r-1, s-1, t-1, v-1.
General Electric Co., Apparatus Sales Div.
General Electric Co., Heavy Military Electronics Dept., a, z, z-1.
General Electric Co., Instrument Dept., p.
General Electric Co., Missile & Space Vehicle Dept., p.
General Instrument Corp., Defense & Engrg. Products Group, g, k, r, z, d-1, f-1, h-1, l-1, m-1, o-1, r-1, w-1.
General Magnetics, Inc., x, q-1.
General Plastics Corp., n-1.
General Radio Co., i, k, p, r, w, y, b-1, l-1, a-1, p-1, y-1.
Genisico, Inc., l-1, m-1, x-1.
Paul E. Gerst & Co., g, i, x.
Giffilian Bros. Inc., d, f, g, k, l, p thru s, w, z, f-1, h-1, n-1, o-1, v-1.
Gonset Div.-Young Spring & Wire Corp., r-1, u-1.
Good Electronic Corp., d, i, o, p, k-1, n-1, s-1, t-1.
Gordon Enterprises, h, p.
Gorham Electronics Div.-Gorham Mfg. Co., z.
Gray Mfg. Co., The, b, l-1, n-1, y-1.
Greenleaf Mfg. Div., The, Mandrel Ind. Inc., g, v-1.
Guided Missile Div., The Firestone Tire & Rubber Co., a, g, o-1, b-1, d-1, n-1, q-1, s-1, v-1, y-1, z-1.
Gulton Industries, Inc., d, f, h, k, o, p, q, x, p-1, q-1, t-1, v-1, x-1.
Gyrex Corp., The, k, a, k-1.
HRB-Singer, Inc., Sub.-Singer Mfg. Co., o, b, k, n, r, w, b-1, n-1, o-1, v-1, z-1.
Donald C. Harder Co., g, i, x.
B. H. Hadley, Inc., c, g, k, q-1.
Hogan Chemicals & Controls Inc., g, h, p, x.
Hallamco Electronics Co., Div.-Sieglar Corp., g, i, k, l, p.
Hallcrafters Co., The, h, r, z.
Hamilton Standard, Div.-United Aircraft Corp., n-1, q-1.
Hammarlund Mfg. Co., The, g, h, r, u, v, c-1, n-1, p-1, r-1, v-1.
Hammett-Mercury Rex Div., p, z, q-1, l-1, q-1.
Donald C. Harder Co., g, i, x.
George E. Harris & Co., Inc., o, h, p, x, o-1, k-1, l-1, q-1, v-1.
Hathaway Instruments, Inc., l, o, p, u, k-1, m-1, t-1, v-1.
Hoys Corp., The, q-1.
Hazeltine Electronics Div.-Hazeltine Corp., o, b, d, f, i, q thru t, x, f-1, k-1, n-1, o-1, v-1.
Hewlett-Packard Co., i, z, g-1, o-1, v-1, z-1.
Hickok Electrical Instrument Co., The, g-1.
Hoffman Electronics Co., o, v-1.
Hoover Electric Co., l-1, m-1, q-1, v-1.
Hoover Electronics Co., g, i, thru m, a, thru v, x, o-1, e-1, f-1, h-1, n-1, o-1, t-1, v-1, y-1.
Houston Fearless Corp., i.
Houston Instrument Corp., o.
Hughes Semiconductor Div.-Hughes Aircraft Co., h-1.
Huyck Systems Co., f, g, h, k, p, q-1, l-1, m-1, q-1.
Hydraulic Research & Mfg. Co., b, n, p, g-1, q-1.
ITT Electronics, Inc.
ITT Federal Div., International Telephone & Telegraph Corp., r, x, z, h-1, n-1, a-1, q-1, v-1, z-1.
Iconix Inc., f, f-1, n-1.
Illinois Testing Laboratories, Inc., p.
Image Instruments, Inc., o-1.
Indiana Gear Works, Inc., a.
Industrial Control Co., f, g, i, l, o, p, q, s, x, l-1, n-1, q-1, s-1, t-1, v-1.
Industrial Test Equipment Co., p, s, l-1, m-1, q-1, y-1.
Instrudon Corp., m-1.
Instrument Div., The W. L. Maxson Corp., r.
Instrument Labs., v-1.

Instruments for Industry, Inc., n, r, b-1, z-1.
Intercontinental Electronics Corp., u, x, o-1, v-1.
*INTERELECTRONICS CORP., b thru e, g thru k, m, a thru x, o-1, e-1, f-1, i-1 thru n-1, p-1, u-1, v-1, w-1.
Interstate Electronics Corp., b, c, i, j, p, u, v, w, o-1, o-1, v-1.
JEM Electronics Corp., j-1.
J.V.-M Microwave Co., n, z, b-1, d-1, z-1.
E. F. Johnson Co., r-1.
Jordan Controls Inc., k-1, l-1, n-1, q-1, v-1.
Jordan Electronics, Div.-Victoreen Instrument Co., i, v-1.
Kay Electric Co., b, j, q, a, k-1, v-1, y-1.
*KEARFOTT DIV., GENERAL PRECISION, INC., f, g, a, p, q, x, z, h-1, k-1, q-1, v-1.
Keithley Instruments, Inc., d, i, j, l, p, s, u, w, j-1, p-1, t-1, w-1, x-1, y-1.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., b, d, g, k, m, s thru v, y, a-1, c-1, f-1, i-1, k-1 thru n-1, u-1.
Kelsey-Hayes Co., q-1.
Ketay Dept., Norden Div., United Aircraft Corp., x, q-1, v-1.
Kin Tel Div.-Cohu Electronics, Inc., f, h, i, l, f-1, p-1, t-1, v-1.
Kistler Instrument Corp., w-1, x-1.
Kollmorgen Optical Corp., j.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., f, g, h, k, a, p, x, j-1, k-1, n-1, q-1, v-1.
L & R Mfg. Co., w-1.
Lab. far Electronics, Inc., g, u, x, z, h-1, q-1.
Lane Electronics Mfg. Corp., b, m, r, y, j-1 thru n-1, p-1, v-1.
Langevin Div., The W. L. Maxson Corp., b, m, v, a-1, c-1, l-1, y-1.
La Pointe Industries Inc., c, d, f, r, n-1, a-1.
Leach Corp., b, x, p-1, v-1.
Leak Div.-British Industries Corp., l-1.
Lehr, Inc., o thru z, a-1 thru f-1, h-1 thru q-1, s-1 thru z-1.
Lee Electric & Mfg. Co., x.
Leeds & Northrup Co., i, p-1, t-1.
Leil, Inc., a, d, k, n, r, t, u, w, z, b-1, h-1, r-1, v-1, z-1.
Leland Airborne Products, Div.-American Machine & Foundry Co., l-1, m-1.
Levinthal Electronic Products, Inc., z, l-1.
Liascope Div., General Precision, Inc., f, g, l, q, t, u, x, f-1, l-1 thru o-1, q-1.
Ling Electronics Div.-Ling-Altec Electronics, Inc., x-1.
Liquidometer Corp., The, g, p, q-1.
Lockheed Aircraft Corp., Missiles & Space Div., z, h-1, z-1.
J. M. Loge, Sound Engineers
lumen, Inc., f, g, i, l, o, p, q, x, j-1, l-1, p-1, q-1.
Lytle Corp., n-1.
MB Electronics, d, e, j, k, q, i-1, l-1, m-1, q-1, v-1, x-1.
MEG Products, Div.-Mandrel Industries, Inc., i.
Madigan Corp., a, f, g, h, k, p thru s, w, a-1, b-1, c-1, f-1, j-1, n-1, p-1, q-1, r-1, v-1, y-1.
Magnasynic Corp., f, h, v, o-1, c-1, l-1, v-1.
*MAGNAVOX CO., THE, b.
Magnetic Circuit Elements, Inc., i, l, x, l-1.
Magnetic Controls Co., g, o, x, v-1.
Magnetic Instrument Co., Inc., h, i, l, p, x, p-1, q-1.
Magnetic Research Corp., i, l, x, n-1, o-1, q-1, t-1.
Magnifico, Inc., f, g, x, q-1, v-1.
Maico Electronics, Inc., f-1.
P. R. Mallory & Co., Inc., b, a, k-1, n-1, r-1, v-1, y-1.
*MARTIN CO., THE, DENVER DIV., a thru e, g thru m, p thru s, x, a-1, c-1, g-1, j-1, k-1, l-1, n-1 thru q-1, t-1, x-1, y-1.
Mason Electric Corp., a thru d, m, n, a, x, y, z, o-1 thru f-1, i-1 thru p-1, r-1, s-1, u-1 thru z-1.
Mossa Div.-Cohu Electronics, Inc., i, l, p, k-1, p-1, t-1, v-1, w-1.
Master Mobile Mounts, Inc., o.
W. L. Maxson Corp., The, o, f, g, l, m, p, s, t, u, z, o-1, c-1, e-1, p-1, q-1, v-1, w-1, z-1.
McDonnell Aircraft Corp., b, d, a, p, o-1, f-1, k-1, q-1, v-1.
McKenna Labs., w-1.
Metoplast Co., Inc., n-1.
Micro Gee Products, Inc., d, f, g, h, k, l, p, q, t, x, f-1, k-1, l-1, m-1, q-1.
Micro Wave Associates, Inc., z, h-1.
Mid-West Coil & Transformer Co., b, a, x, k-1.
Midwestern Instruments, Inc., h, i, n, p, v, b-1, c-1, d-1, q-1.
Milgo Electronic Corp., f, h.
James Millen Mfg. Co. Inc., a, r, g-1, l-1, m-1.
Miro Controls Co., Inc., i, x.
Minneapolis-Honeywell, Helland Div., h, t-1, x-1.
Minneapolis-Honeywell Regulator Co., Boston Div., h, i, l, p, x, g-1, p-1, v-1.
Minneapolis-Honeywell Regulator Co., Industrial Systems Div., h, p-1.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div., f, g, h, p, p-1, t-1.
Mira Corp., The, h, i, l, p, t-1, v-1, x-1.
Mitchell Camera Corp.

Modern Design Div.-H. C. Schloer, Inc., b, d, f, h, i, a-1, c-1, m-1, n-1, v-1.
Moran Instrument Corp., h, q-1, t-1.
Moto Research Co., f, x.
Motorola, Inc., b, f, thru k, m thru u, w thru z, a-1 thru n-1, q-1 thru w-1, y-1, z-1.
Muirhead Instruments Inc., q-1, x-1.
Narda Microwave Corp., The, z.
National Co., Inc., o thru z, o-1 thru r-1, u-1, v-1, w-1, y-1, z-1.
National Scientific Labs., Inc., k, h-1, n-1, v-1.
National Ultrasonic Corp., w-1.
Navigation Computer Corp., f, g, h, n-1, o-1, p-1, v-1.
Nelf Instrument Corp., h, i, l, p, s, p-1, t-1, v-1.
Networks Electronic Corp., i, k, l, o, p, x, j-1, n-1, q-1, t-1, v-1, y-1.
New London Instrument Co. Inc., v, g-1, l-1, z-1.
Newton Co., The, i.
Northeast Electronics Corp., j, v, i-1.
Northeast Metals Industries, Inc., o.
Northern Plastics Corp., n-1.
Northrop Corp.
Nuclear-Chicago Corp., o-1.
Olfner Electronics Inc., i, l, p, s, k-1, m-1, t-1, v-1, x-1.
Orho Filter Corp., x.
Ohs Elevator Co., Defense & Industrial Div., f, k, p, v, w, q-1.
Overhaul & Aerosystems, Div.-Temco Aircraft, a, n, x, p-1, y-1, z-1.
Pace Engrg. Co., t-1.
Pacific Automation Products, Inc., n-1, v-1.
Pacific Magnetic Corp., a, p, x.
Packard Bell Computer Corp., h, i, k, l, p, q, s; f-1, n-1, t-1, v-1.
Paco Electronics Co., Inc., j.
M. V. Palmer, Inc., t, u, r-1.
Paraplegics Mfg. Co., Inc., m-1, n-1, q-1, v-1.
Pegasus Labs., Inc., i, q-1, v-1.
Penn Keystone Corp., v-1.
Penn-East Engrg. Corp., x, k-1.
Performance Measurements Co., f, g, h, l, p, q, w, j-1, l-1, a-1, q-1, t-1, v-1.
Permalux Products Co., b, m, s, v, a-1, c-1, v-1.
Piflux Corp.-Govt. & Industrial Group, c, d, f thru k, m thru p, r, u, v, x, y, z, a-1 thru d-1, h-1, k-1, l-1, n-1, o-1, q-1, v-1, y-1, z-1.
Photobell Co., Inc., j-1, k-1.
Photon Research Products, i, p.
Photon Instrument Co., f, h, i, p, f-1, k-1, p-1, s-1, t-1, x-1.
Piasecki Aircraft Corp., a, c, d, i thru m, r, v, y, z, k-1, l-1, n-1, t-1, v-1, w-1, y-1, z-1.
Piqua Engrg. Inc., q-1.
Pitometer Log Corp., g, z, v-1.
Plastic Age Sales, Inc., o.
Polaroid Electronics Corp., y, z.
Polyphase Instrument Co., f, x.
Potter Instrument Co., Inc., f, h, p-1.
Power Supplies Inc., i, l-1, m-1, n-1, q-1, v-1, w-1.
Precision Development Corp., j, r, b-1.
Pressman Associates Inc., l-1.
Process & Instruments i, p.
Projects Unlimited, Inc., b, d, g, j, q-1.
Quant-Tech Labs, Inc., i, j, l, s, g-1, t-1, v-1, y-1.
RS Electronics Corp., k, n, p, r, w, z, b-1, d-1, l-1, n-1, o-1, v-1, z-1.
Radolab Inc., y, g-1.
Radiophone Co., Inc., d, p, v-1, z-1.
Radiation, Inc., a, i, r, b-1, d-1, t-1.
Radiation Instrument Development Lab., Inc., i, a-1.
Radio City Products Co., Inc., k, n, r, b-1, a-1, z-1.
Radio Condenser Co., k, n, r, b-1, d-1, a-1, v-1, z-1.
*RADIO CORP. OF AMERICA, o thru z, o-1 thru s-1, u-1 thru z-1.
*RADIO CORPORATION OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, o, b, c, f, g, h, k, m, t, x, y, z, o-1, b-1, c-1, g-1, l-1, n-1 thru r-1, v-1, y-1, z-1.
*RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY, d, p, k-1, n-1, v-1.
Radio Development & Research Corp., g, i, x, l-1, m-1, v-1.
Radio Frequency Co., Inc., l-1, w-1.
Radio Receptor Co., Inc., Sub.-General Instrument Corp., g, k, r, z, f-1, h-1, l-1, m-1, o-1, r-1, w-1.
Railway Communications, Inc., g-1, r-1.
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., f, thru k, o, z, n-1, v-1.
Rangerone Inc., j, m, v, x.
Rantec Corp., z, b-1, d-1, h-1, r-1, z-1.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., o.
Reed Instrument Co., k, p, x-1.
Reed Research Inc., k, p, x-1.
Reeves Instrument Corp., c, d, f, g, i, l, o, q, t, f-1, n-1, q-1, v-1.
Remler Co., m, u, v, y, v-1.
Resdel Engrg. Corp., o, k, r, b-1, l-1, z-1.
Resdel Engrg., Inc., k-1, n-1, o-1, v-1.

Robertshaw-Fulton Controls Co., A & I Div., s-1.
 Ryan Aeronautical Co., n-1.
 Rytron Co., Inc., x.
 Sage Labs., Inc., z, b-1, h-1.
 Sage-Craft, Inc., n, z-1.
 Sanders Associates, Inc., g, p.
 Sangamo Electric Co., x.
 Santa Barbara Research Center, k, j-1, v-1.
 Schoewitz Engrg., q-1.
 Scientific-Atlanta, Inc., o, h, p, w, z, b-1, p-1, q-1.
 H. H. Scott, Inc., b, m, n, p, s, u, v, w, y, c-1, e-1, g-1, h-1, m-1, w-1, x-1, y-1.
 Secode Corp., u, v, k-1, v-1.
 Seaburg Corp., The, a-1, b-1, d-1, f-1, n-1, a-1, q-1.
 *SEMICONDUCTOR DIV., RAYTHEON CO., o, v-1.
 Servomechanisms, Inc., f, g, i, k, l, p, q, x, k-1, n-1, q-1, v-1.
 Servo-Tek Products Co., i, x, q-1, v-1.
 Sierra Electronic Corp., Div.-Philco Corp., z, f-1, z-1.
 Sigma Instruments, Inc., x.
 Signal Equipment Co., Inc., f-1, m-1.
 Singer Military Products Div.-The Singer Mfg. Co., o, k, z, q-1, v-1, y-1, k-1, k-1, n-1, v-1.
 Skiatron Electronics & Television Corp., i, v-1.
 Solar Aircraft Co., k, m, o, f-1, m-1, n-1, v-1.
 Sonex, Inc.
 Sonotone Corp., b, v-1.
 Southwest Research Institute, b, h, i, l, o, p, x, k-1 thru n-1, q-1, t-1, v-1, x-1.
 Southwestern Industrial Electronics Co.
 Special Products Dept., Melpar, Inc., q-1, v-1.
 Specialties, Inc., x.
 Specialty Electronics Development Corp., o, b, g, j, m, r, v, z, v-1, b-1, h-1.
 b, d, i, k, l, p, q, r, t, a-1 thru d-1, f-1, f-1, j-1, o-1, v-1, y-1, z-1.
 Spectra Electronics Corp.
 Spectralab Instruments, h-1, z-1.
 Spectral Electronics Corp., i, o, n-1, q-1, v-1.
 Spencer-Kennedy Labs., Inc., n, p, d-1, o-1, z-1.
 Sperry Electronic Tube Div., Sperry Rand Corp., z, z-1.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp., q-1.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., h-1.
 a, c, j, m, n, r thru v, x, y, o-1 thru e-1, i-1, f-1, m-1, o-1, n-1, s-1, u-1, v-1, w-1, y-1, z-1.
 Standard Electronics Div.-Reeves Instrument Corp.
 State Testing Laboratory Inc., u.
 Statham Development Corp., f, g, i, k, o, p, q, k-1, o-1, p-1, q-1, t-1, v-1.
 Statham Instruments, Inc., f, p, t-1, v-1.
 Stewart-Warner Electronics Div., f, r, t, z, b-1, e-1, o-1.
 Stramberg-Carlson Div.-General Dynamics Corp., m, r, v, z, a-1, c-1, h-1, h-1, n-1, n-1, v-1, y-1.
 Summers Gyroscope Co., q-1.
 Sun Electric Corp., Aeronautical Div., o, b, c, f thru i, l, n, p, r, s, t, w, x, g-1, j-1, h-1, n-1, o-1, q-1, v-1, x-1, z-1.
 Sunair Electronics, Inc., f-1, n-1, v-1.
 Superior Electric Co., The, o-1, v-1, z-1.
 B. K. Sweeney Mfg. Co., i, p, v-1, x-1.
 Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc., k, r, z, b-1, f-1, o-1, z-1.
 Sylvania Semiconductor Div., Sylvania Electric Products Inc., v-1.
 TRC, Inc., o, f, r, x, z, b-1, n-1, q-1.
 *TABER INSTRUMENT CORP., b, d, f thru m, o, p, q, s, t, v, y, o-1, c-1, f-1, g-1, j-1 thru n-1, p-1, q-1, t-1, v-1, x-1, y-1.
 Taffet Electronics, Inc., d, g, i, k, r, s, t, f-1, m-1.
 Tamar Electronics, Inc., o, c, n, o, p, r, s, z, b-1, c-1, d-1, f-1, o-1, v-1, v-1, z-1.
 Tapco Group, Thompson Ramo Wooldridge Inc., g, i, k, l, o, x, f-1, q-1, t-1, x-1.
 Technical Products Co., h, p, y, p-1, x-1.
 Technology Instrument Corp., e, j, p, l-1, y-1.
 Tektronix, Inc., i, l, p, g-1.
 Telechrome Mfg. Corp., b, d, f, h, k, o, p, r, u, v, o-1, c-1, f-1, k-1 thru n-1, t-1, u-1, v-1, z-1.
 Telectro Industries Corp., a, f, h, o-1, p-1.
 Telerad Mfg. Corp., z.
 Television Utilities Corp., j-1.
 Telex, Inc., i, m, o, v, x, n-1, v-1.
 Tel-Instrument Electronics Corp., n.
 Telkor, Inc., b, c, i, m, p, x, f-1, m-1, v-1.
 Texas Instruments Inc., h-1, q-1, t-1, v-1.
 Thermodar Electrical Mfg. Co., x.
 Thermo Electric Co., Inc., g, i, p, p-1, q-1.
 Thompson Ramo Wooldridge Inc., g, i, k, l, o, x, f-1, q-1, t-1, x-1.
 Topper Mfg. Co., Inc., o, q-1, v-1.
 Torwico Electronics, Inc., i, x, f-1, m-1, q-1.
 Tracerlab Inc., h.
 Transformers, Inc., x.
 Transicoil Div.-Daystrom Inc., q-1, v-1.
 Transistor Electronics Corp., v-1.
 Trepac Corp. of America, g, h, i, l, k-1, t-1, v-1.
 Tresco, Inc., o, x.
 Trio Laboratories, Inc., f, g, i, o, p, c-1, k-1, n-1, q-1,

v-1, y-1.
 United Control Corp., x, q-1, v-1.
 U. S. Industries, Inc., a.
 U. S. Science Corp., Div.-Topp Industries, Inc., c, f, k, l, o, x, f-1, h-1, q-1, r-1, v-1.
 United States Plywood Corp., k.
 Universal Toroid Coil Winding, Inc., x.
 Universal Transistor Products Corp., x.
 Universal Unlimited, Inc., a.
 Vap-Air Aeronautical Products Div., Vapor Heating Corp., i.
 Vari-L Co., Inc., x.
 Varo Mfg. Co., Inc., b, c, d, f thru j, l thru x, z, a-1 thru d-1, f-1, h-1, i-1, k-1 thru q-1, s-1 thru v-1, y-1, z-1.
 Vickers Inc., Electric Products Div., g, p, q, s, x, f-1, j-1, h-1, q-1, s-1, t-1.
 Victoreen Instrument Co., o-1.
 Video Instruments Co., Inc., b, d, h, i, l, o, p, q, s, k-1 thru n-1, p-1, q-1, f-1, v-1, x-1.
 Viking Industries Inc., x, n-1, q-1, v-1.
 Virginia Electronics Co., Inc., b, d, g, k, m, o, r thru v, y, a-1, b-1, c-1, k-1, l-1, n-1, o-1, v-1, y-1, z-1.
 Voi-Shan Electronics, o, g, l, q, x, f-1, q-1, v-1.
 Wahlgren Magnetics, Div.-Marshall Industries, x.
 Walkirt Co., b, f, l, o, k-1, n-1, o-1, v-1.
 Waliham Electronics Corp., d-1, z-1.
 Wasley Products, Inc., k.
 Waters Mfg., Inc., g.
 Wough Engrg. Co., q-1.
 A. W. Welch Mfg. Co., Inc., x.
 Wells Industries Corp., g, i, k, p, j-1, k-1, t-1.
 Wesrep Corp., i, h-1.
 Westgate Lab., Inc., g, p-1, q-1.
 Westinghouse Electric Corp., a, b, k, m, n, r, v, x, z, o-1, d-1, h-1, f-1, h-1, m-1, n-1, q-1, r-1, u-1, w-1, x-1.
 Weston Hydraulics Ltd., Sub.-Borg-Warner Corp., q-1.
 Westronics Inc., q-1.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp., b, k, m, o, u, v, x, f-1, n-1, o-1, p-1, v-1.
 White Instrument Labs., p, k-1.
 Wickes Engrg. & Construction Co., i, m, t, u, v, x, k-1, l-1, y-1.
 Winder Aircraft Corp. of Florida, a.
 Zacharias Electronics Corp., b, d, f, h thru l, p, q, s, y, c-1, f-1, g-1, k-1, l-1, m-1, p-1, q-1, v-1 thru y-1.

ANALYSIS EQUIPMENT, ELECTRO-CHEMICAL

American Instrument Co., Inc.
 Armament Div.-Universal Match Corp.
 Baird-Atomic, Inc.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Bjorksten Research Labs. for Industry, Inc.
 Computer Systems, Inc.
 *CONSOLIDATED ELECTRODYNAMICS CORP.
 *ENGIS EQUIPMENT CO.
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 Furane Plastics, Inc.
 Gardner Laboratory, Inc.
 Hanson-Van Winkle-Munning Co.
 Industrial Instruments Inc.
 Jarrell-Ash Co.
 Wayne Kerr Corp.
 Lear, Inc.
 Leeds & Northrup Co.
 New England Scientific Instruments Co.
 Perkin-Elmer Corp.
 Philips Electronic Instruments
 Southwest Research Institute
 State Testing Laboratory Inc.
 TRC, Inc.

ANALYZERS

a. Antenna Pattern
 b. Audio Amplifier
 c. Cable
 d. Capacitor
 e. Circuit
 f. Coincidence
 g. Crystal
 h. Differential
 i. Differential Computer
 j. Digital
 k. Dimensional
 l. Distortion
 m. Electrochemical
 n. Engine
 o. Flight
 p. Frequency
 q. Gas
 r. Ignition
 s. Infrared
 t. Intermodulation
 u. Internal Combustion
 v. Magnetic
 w. Microwave

x. Neutron Absorption
 y. Noise
 z. Phase
 a-1. Radar
 b-1. Servo
 c-1. Spectrum
 d-1. Spectrum, Nuclear
 e-1. Stress Surface
 f-1. Transducer
 g-1. Transistor
 h-1. Ultrasonic
 i-1. Vibration
 j-1. Wave
 k-1. Waveform

ASCOP Div., Electro-Mechanical Research, Inc., p, y, c-1.
 Acton Laboratories Inc., z.
 Advance Industries, Inc., f, h, i, j, a-1 thru d-1.
 Advanced Electronics, Inc., f-1.
 Aero Instrument Co., p.
 *AEROJET-GENERAL CORP., s.
 Aeronca Mfg. Corp.-Aerospace Div., j.
 Aerovox Corp., d.
 Aetna Electronics Corp., b-1.
 Air Logistics Corp., z, b-1.
 Air Products, Inc., q.
 Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., a, e, g, y.
 Aircorn Inc., w.
 Aircraft Armaments, Inc., o-1.
 Alitron, Div.-Litton Industries, w.
 All Star Products, Inc., d.
 Allen Electric & Equipment Co., n, r, u.
 Allied International Corp., h, n, o.
 Allison Labs., Inc., y.
 American Agile Corp., x.
 American Instrument Co., Inc., j, m, q, s, c-1.
 American Machine & Foundry Co., Government Products Group, n, p.
 American Machine & Foundry Co., Greenwich Engrg. Div., b-1.
 American Research & Mfg. Corp., i-1.
 American Tradair Corp., o.
 Antlab Inc., o.
 Applied Dynamics Corp., w, c-1.
 Applied Electronics Corp. of N. J., j.
 Applied Research Inc., c-1.
 Applied Research Labs., Inc., c-1.
 Armament Div.-Universal Match Corp., m.
 Arnoux Corp., f-1, q-1.
 Associated Engineers, Inc., s.
 Associated Research, Inc., d.
 Atlantic Research Corp., f-1.
 Atlas Precision Products, Co., h.
 Audio Instrument Co., Inc., t.
 B & F Instruments, Inc., f-1.
 B & K Instruments, Inc., b, l, p, y, c-1, i-1.
 Bausch & Lomb Optical Co., c-1.
 Bearing Inspection, Inc., y.
 Bendix Aviation Corp., o, n, o, q, r, z, o-1 thru d-1.
 Bendix Aviation Corp., Cincinnati Div., b, d, e, j, q, t, x, d-1.
 Bendix Computer Div.-Bendix Aviation Corp., i.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., n.
 Bendix Radio Div., Bendix Aviation Corp., a-1.
 Benson-Lehner Corp., j.
 Bergen Labs., Inc., m.
 Bevo Lab., Inc., f, d-1.
 Bogue Electric Mfg. Co., e, n.
 Bommar Instrument Corp., i.
 Briggs Associates, Inc., e, p, y, c-1, j-1.
 Bruno-New York Industries Corp., w.
 Brunswick Instruments, z.
 Brush Instruments, Div.-Clevite Corp., b-1.
 Budd Lewyt Electronics, Inc., i, j, z, a-1.
 Bulova Watch Co., Electronics Div., g.
 CBS Laboratories, Div.-Columbia Broadcasting System, b, g, m, v, f-1, g-1.
 CG Electronics Corp., o, j.
 CGS Labs., Inc., p.
 Chadwick-Helmuth Co., l, k-1.
 Chance Vought Aircraft, Inc., o.
 Chemalloy Electronics Corp., w.
 Cincinnati Cleaning & Finishing Machinery, h-1.
 Circo Equipment Co., h-1.
 Circo Ultrasonic Corp., h-1.
 G. L. Collins Corp., f-1.
 Collins Radio Co., c-1.
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., c-1.
 Computer Control Co., Inc., j.
 Consolidated Airborne Systems, Inc., n, o.
 *CONSOLIDATED ELECTRODYNAMICS CORP., m, q, f-1, i-1.
 Control Electronics Co., Inc., z.
 Convair Instruments, Convair Div.-General Dynamics Corp., n, f-1, j-1, k-1.
 Control Technology Co., b-1.
 Cornell-Dubilier Electric Corp., d.
 Cosa Corp., i-1.

Curtiss Wright Corp. Electronics Div., g-1.
 Dale Products, Inc., c, e.
 Daven Co., The, l.
 Davis Instruments, q.
 Daystrom Inc., Weston Instruments Div., j, p.
 Decker Corp., The, d, h, k, m, c-1, f-1, g-1, i-1, k-1.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., s.
 Delsen Corp., m.
 Designers for Industry, Inc., p, g-1, f-1.
 Dit-Mco, Inc., c, e.
 Allen B. Du Mont Labs., a-1.
 Dytronics Co., z.
 Eldorado Electronics, d-1.
 Electro Instruments, Inc., d, e, f, j, p, z, b-1, g-1.
 Electro Scientific Industries, d, b-1, f-1, g-1.
 Electronic Applications, Inc., b, d, p, t, w, y, c-1, d-1, k-1.
 Electronic Mechanics, Inc.
 Ellison Draft Gage Co., Inc., a.
 Emertron, Sub-Emerson Radio & Phonograph Corp.
 Empire Products Sales Corp., a, l, w, y, a-1, k-1.
 Engelhard Industries, Inc., p, q.
 *ENGIS EQUIPMENT CO., j, s, c-1, d-1.
 FAE Instrument Corp., h.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., g-1.
 Federal Products Corp., k.
 Federal Scientific Corp., c-1.
 Ferratran Electronics Co., Inc., y, g-1.
 Ferroxcube Corp. of America, v, w, f-1.
 Film Capacitors, Inc., d.
 Fisher Scientific Co., m.
 Flow Corp., j-1.
 Food Machinery & Chemical Corp., Ordnance Div., c, e.
 Ford Instrument Co., Div. Sperry Rand Corp., j.
 Foto Video Labs, Inc., a-1, g-1, k-1.
 Franklin Electronics Inc., j.
 Freed Transformer Co., Inc., l.
 Furane Plastics, Inc., m.
 General Communication Co., w, a-1.
 General Electric Co., Apparatus Sales Div., h.
 General Electric Co., Missile & Space Vehicle Dept., p, a.
 General Radio Co., b, d, e, l, p, y, z, c-1, f-1, j-1, k-1.
 Gow-Mac Instrument Co., j.
 Guided Missile Div., The Firestone Tire & Rubber Co., b-1.
 Gulton Industries, Inc., j, m, p, c-1, f-1, h-1, i-1.
 HRB-Singer, Inc., Sub-Singer Mfg. Co.
 Hallamore Electronics Co., Div.-Sieger Corp., c, a.
 Hammett-Mercury Res. Div., c, e, g thru j, n, p, r, v, w, a-1, b-1, g-1, j-1, k-1.
 George E. Harris & Co., Inc., d, b-1, f-1.
 Hays Corp., The, q.
 Herlo Corp., f-1.
 Hewlett-Packard Co., l, p, g-1, j-1, k-1.
 Hickok Electronic Instrument Co., The, p, q, y, g-1, f-1, j-1, k-1.
 ITT Federal Div., International Telephone & Telegraph Corp., c-1.
 Illinois Testing Laboratories, Inc., f-1.
 Industrial Acoustics Co., Inc., p, y.
 Industrial Control Co., b-1, c-1.
 Industrial Instruments Inc., q.
 Industrial Test Equipment Co., z.
 Infrared Industries, Inc., s.
 Instrument Labs., e.
 Instrumentation Associates, Inc., s.
 Instrument Div., The Budd Co., h-1.
 Integrated Dynamics Div., Globe Industries, Inc., a.
 *INTERELECTRONICS CORP., q.
 Interstate Electronics Corp., f, h.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, d-1.
 Johnson-Williams, Inc., q.
 Kahn & Co., Inc., f-1.
 Kay Electric Co., a, b, c, e, g, l, p, y, a-1, c-1, g-1 thru k-1.
 *KEARFOTT DIV., GENERAL PRECISION, INC., d, i, j, y, a-1, b-1.
 *KEARFOTT DIV., GENERAL PRECISION, INC., MICROWAVE PRODUCTS, c-1.
 Wayne Kerr Corp., d, y, g-1, f-1, j-1, k-1.
 Kingston Electronics Div.-Kingston Industries Inc., e, r.
 Kistler Instrument Corp., n, u, f-1, h-1, i-1.
 Lab. for Electronics, Inc., p, w.
 Lavioie Labs., Inc., c-1.
 Lear, Inc., b, d, e, h thru a, q, y, b-1, f-1, g-1, f-1, j-1.
 Leeds & Northrup Co., q, s.
 Librascope Div., General Precision, Inc., h, i, j, m, a, s, v, b-1.
 Ling Electronics Div.-Ling-Altec Electronics, Inc., f-1.
 Lockheed Aircraft Corp., Missiles & Space Div., j.
 Thomas J. Long, Inc., m.
 Loral Electronics Corp., p, w, a-1, c-1.
 MB Electronics, p, y, c-1, i-1.
 Madigan Corp., b, c, e, i, j, a, b-1, g-1.
 Magnaflex Corp., Sub-General Mills, Inc., v, e-1, h-1.
 Marconi Instruments, t, c-1, f-1.

*MARTIN CO., THE, DENVER DIV., c, d, e, j, k, l, n, a, s, v, y, z, b-1, f-1, i-1, j-1.
 Mechanics Research Div., American Machine & Foundry Co., k-1.
 Micro Gee Products, Inc., m, p, b-1.
 Microwave Associates, Inc., w.
 Milgo Electronic Corp., h, i, j.
 Mine Safety Appliances Co., q, s, y.
 Minneapolis-Honeywell Regulator Co., Boston Div., b-1.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div., p, y, c-1, i-1, j-1, k-1.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div., c, j.
 Modern Design Div.-H. C. Schloer, Inc., b.
 Motorola, Inc., g thru j, p, t, w, y, z, a-1, b-1, g-1, h-1.
 Muirhead Instruments Inc., b, l, p, y, z, b-1, h-1 thru k-1.
 National Instrument Laboratories, Inc., q.
 National Ultrasonic Corp., h-1.
 Networks Electronic Corp., s.
 Northeastern Engrg. Inc., c-1.
 Northrop Corp., e, h, i, j, f-1.
 Nuclear-Chicago Corp., d-1.
 Paul Nurches Co., b-1, g-1.
 Overhaul & Aerosystems, Div. Temco Aircraft, c-1.
 Owen Labs., Inc., e-1, g-1.
 Packard Bell Computer Corp., h, i, j.
 Paco Electronics Co., Inc., b, d.
 Panoramic Radio Products, Inc., c-1, h-1, i-1, j-1.
 Parabam, Inc., b-1.
 Patterson Moos Research, Div.-Leesona Corp., q, s.
 Performance Measurements Co., n.
 Perkin-Elmer Corp., m, q, s.
 Permotlux Products Co., b.
 Peschel Electronics, Inc., c, e.
 Photobell Co., Inc., k, l.
 Piasecki Aircraft Corp., a, b, d, e.
 Pioneer Industries Div., Almar-York Co., Inc., q, s, h-1.
 Piqua Engrg. Inc., b-1.
 Pitometer Log Corp., p, w.
 Polarad Electronics Corp., a, w, a-1, b-1, c-1, k-1.
 Polyphase Instrument Co., f-1.
 Polytechnic Research & Development Co., Inc., w.
 Potter Aeronautical Corp., f-1.
 Potter Instrument Co., Inc., j.
 Precision Apparatus Co., Inc., b, d, k-1.
 Probescope Co., Inc., g, l, n, p, t, y, c-1, h-1 thru k-1.
 Process & Instruments, q.
 Production Research Corp., Sub-Radio Condenser Co., a, j, s, c-1.
 Quan-Tech Labs, Inc., b, l, p, t, y, c-1, g-1, h-1, j-1, k-1.
 Radiation, Inc., j, l, b-1.
 Radiation Instrument Development Lab, Inc., f, d-1.
 Radio Condenser Co., d, e, p, s, g-1, h-1.
 Railway Communications, Inc., j-1.
 Ramo-Wooldrige, Div.-Thompson Ramo Wooldrige Inc., i, x, g-1.
 Rantec Corp., w.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., c-1.
 Rimak, Inc.
 Scientific & Process Instruments Div.-Beckman Instruments, Inc., q, s.
 Scientific-Atlanta, Inc., a, w.
 Scintilla Div., Bendix Aviation Corp., r, i-1.
 H. H. Scott, Inc., b, y, i-1.
 Servo Consultants Ltd., d, z, b-1.
 Servomechanisms, Inc., b-1.
 Sharples Corp., The, g.
 Shaw Process Development Corp., Div.-British Industries Corp., j.
 Sheffield Corp., The, Sub-Bendix Aviation Corp., k.
 Sierra Electronic Corp., Div.-Phico Corp., c, i, p, t, a-1, c-1, j-1.
 Skiatron Electronics & Television Corp., n.
 Solar Aircraft Co., h-1, f-1.
 Southwest Research Institute
 Special Products Dept., Melpar, Inc., c, s, c-1.
 Spectra Electronics Corp., p, y, c-1, h-1, f-1, j-1.
 Spectrum Instruments, Inc.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., w, c-1.
 Sprague Electric Co., d.
 Stromberg-Carlson Div.-General Dynamics Corp., c-1.
 H. W. Sullivan Ltd., d.
 Sun Electric Corp., Aeronautical Div., e, j, n thru r, u, e-1, f-1.
 TRG, Inc., a, s, w, x.
 Tamar Electronics, Inc., w, z, a-1.
 Technical Electronics Co. Div.-Consolidated Electronic Industries, e.
 Technical Material Corp., The, l.
 Technical Products Co., f-1.
 Telechrome Mfg. Corp., j, f-1.
 Telex, Inc., j.
 Tel-Instrument Electronics Corp., i-1.
 Theta Instrument Corp., z, b-1.
 Towaco Electronics, l.
 Tracerlab Inc., f, h, j.

Transistor Electronics Corp., g-1.
 Trans-Western Electronics, g-1.
 Triplett Electrical Instrument Co., e, r, g-1.
 U. S. Industries, Inc., a, y, c-1, k-1.
 U. S. Science Corp., Div.-Topp Industries, Inc., e, h, v, b-1, f-1.
 Varo Mfg. Co., Inc., f.
 Victor R. F. & Microwave Co., w.
 Victoreen Instrument Co., d-1.
 Victory Engrg. Corp., q.
 Virginia Electronics Co., Inc., e.
 Vitramon, Inc., d.
 Wallson Associates, Inc., g-1.
 Waltham Electronics Corp., e, p.
 Wang Labs., Inc., f, j.
 Westing Mfg. Co., n.
 Westinghouse Electric Corp., e, s, w.
 Weston Hydraulics Ltd., Sub-Borg-Warner Corp., b-1.
 Winkler Labs, f-1.

ANEMOMETERS

Advance Instrument Corp.
 Aero Research Instrument Co. Inc.
 Beckman & Whitley, Inc., Instrument Div.
 Bendix Aviation Corp.
 Decker Corp.
 The Dynamic Controls Corp.
 Ellison Draft Gage Co., Inc.
 Epic, Inc.
 Flow Corp.
 W. & L. E. Gurley
 Hickok Electrical Instrument Co., The
 E. Vernon Hill & Co..
 Illinois Testing Laboratories, Inc.
 A. Lietz Co., The
 The Mine Safety Appliances Co.
 M. C. Stewart
 Westberg Mfg. Co.

ANGLE DRIVES

Breeze Corporations, Inc.
 Dana Corp.
 FAE Instrument Corp.
 Hoover Electric Co.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
 Indiana Gear Works, Inc.
 Kelsey-Hayes Co.
 Lear, Inc.
 Link Belt Co.
 *MARTIN CO., THE, DENVER DIV.
 Metron Instrument Co.
 Micro Gee Products, Inc.
 Sargent Engrg. Corp.
 Spiriod Div., Illinois Tool Works
 Talley Corp., The
 Teleflex Inc.
 Theta Instrument Corp.
 Waste King Corp., Technical Products Div.
 Western Gear Corp.-Precision Products Div.

ANNUNCIATORS

American Electronics Inc., Taller-Cooper Div. & Data Systems Div.
 Eagle Electric Mfg. Co., Inc.
 Hammarlund Mfg. Co., The
 The H. R. Kirkland Co., The
 Lear, Inc.
 Marco Industries Co.
 Radar Relay, Inc.
 Scam Instrument Corp., The
 Sun Electric Corp., Aeronautical Div.
 United Control Corp.
 Wheelock Signals Inc.

ANODES, GRAPHITE

Division Lead Co.
 Great Lakes Carbon Corp.-Electrode Div.
 Hammett-Mercury-Rex Div.
 National Carbon Co., Div.-Union Carbide Corp.
 Norrich Screw Machine Products
 Ohio Carbon Co., The
 The Stackpole Carbon Co.
 United Carbon Products Co.
 Wallace & Tiernan Inc.

ANODES, METAL

Allied Research Products, Inc.
 Alpha Metals, Inc.
 Aluminum Co. Of America
 The American Brass Co., The
 The American Smelting & Refining Co.
 Belmont Smelting & Refining Works, Inc.
 J. Bishop & Co., Platinum Works
 Bram Metallurgical Chemical Co.
 Chase Brass & Copper Co., Inc.
 Division Lead Co.
 Daw Chemical Co., The
 Electronic Parts Mfg. Co., Inc.

Fansteel Metallurgical Corp.
Hammett-Mercury-Rex Div.
Handy & Harman
Hanson-Van Winkle-Munning Co.
Heil Process Equipment Corp.
W. L. Maxson Corp., The
Metal & Thermit Corp.
***RADIO CORP. OF AMERICA**
Rembar Co., Inc., The
Research Development Mfg. Inc.
Revere Copper & Brass Inc.
Texos Instruments Inc.
Wallace & Tiernan Inc.

ANTENNA FEED SYSTEMS

Ainslie Corp.
Aircorn Inc.
All Products Co.
American Machine & Foundry Co., Government Products Group
American Tube Bending Co., Inc.
Bendix Aviation Corp.
Bogue Electric Mfg. Co.
CG Electronics Corp.
CGS Labs, Inc.
Chance Vought Aircraft, Inc.
Dalmo Victor Co., Div.-Textron, Inc.
Diamond Antenna & Microwave Corp.
Dorne & Margolin, Inc.
Douglas Microwave Co., Inc.
Dynatronics, Inc.
Electronic Specialty Co.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
Gabriel Co., The, Gabriel Electronics Div.
General Bronze Electronics Corp.
General Electric Co., Heavy Military Electronics Dept.
General Electric Co., Ordnance Dept.
Gillfillan Bros. Inc.
Gorham Electronics Div.-Gorham Mfg. Co.
HRB-Singer, Inc., Sub.-Singer Mfg. Co.
Hallamore Electronics Co., Div.-Sieglar Corp.
Intercontinental Electronics Corp.
***KEARFOIT DIV., GENERAL PRECISION, INC.**
D. S. Kennedy & Co.
Iieco, Inc.
Litton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Lockheed Electronics Co., Stavid Div.
Mark Products Co.
***MARTIN CO., THE, DENVER DIV.**
Meridian Metalcraft, Inc.
Motorola, Inc.
Norrich Plastics Corp.
Norrich Screw Machine Products
Philco Corp.-Govt. & Industrial Group
Radalab Inc.
Radiation, Inc.
***RADIO CORP. OF AMERICA**
Rantec Corp.
Sanders Associates, Inc.
Scientific-Atlanta, Inc.
Special Products Dept., Melpar, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc.
TRG, Inc.
Tamar Electronics, Inc.
Technical Appliance Corp.
Tower Construction Co.
Transco Products, Inc.
Wind Turbine Co.

ANTENNA FITTINGS & ACCESSORIES

ACF Industries Inc.
Ainslie Corp.
Aircorn Inc.
All Products Co.
Amerac Inc.
American Latex Products Corp.
American Machine & Foundry Co., Greenwich Engrg. Div.
Bendix Aviation Corp.
CG Electronics Corp.
Calcor Corp.
Chance Vought Aircraft, Inc.
Copperweld Steel Co., Wire & Cable Div.
Corning Glass Works
Dalmo Victor Co., Div.-Textron, Inc.
Dayton Aircraft Products, Inc.
Diamond Antenna & Microwave Corp.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
Empire Products Sales Corp.
Gabriel Co., The, Gabriel Electronics Div.
General Bronze Electronics Corp.
General Radio Co.
Gorham Electronics Div.-Gorham Mfg. Co.
Isolanite Mfg. Corp.
Jovex Electronics
Kelsey-Hayes Co.

Kings Electronics Co., Inc.
Iieco, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Lycoming Div., Avco Corp.
Mark Products Co.
Marman Div., Aeroquip Corp.
Master Mobile Mounts, Inc.
McMillan Companies, The
Meridian Metalcraft, Inc.
Motorola, Inc.
National Moldite Co.
Norrich Plastics Corp.
North & Judd Mfg. Co.
Northeast Metals Industries, Inc.
Pegasus Labs, Inc.
Penn Metal Co., Inc.
Portland Copper & Tank Works Inc.
Prestalco Corp.
***RADIO CORP. OF AMERICA**
Rantec Corp.
Sanders Associates, Inc.
Scientific-Atlanta, Inc.
South River Metal Products Co., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stainless Inc.
Stanley Judd Div.-The Stanley Works
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc.
TRG, Inc.
Tamar Electronics, Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Technical Materiel Corp., The
Thompson Ramo Wooldridge Inc.
Thor Ceramics, Inc.
Tower Construction Co.
Transco Products, Inc.
Tri-Ex Tower Corp.
Vickers Inc.
Western Coil & Electrical Co.
Western Design, Div.-U. S. Industries, Inc.
Wind Turbine Co.

ANTENNA TOWER LIGHTING

Allied International Corp.
Bethlehem Steel Co.
E-Z Way Towers, Inc.
General Bronze Electronics Corp.
Hughey & Phillips, Inc.
E. F. Johnson Co.
Rohn Mfg. Co.
Specialty Electronics Development Corp.
Stainless Inc.
Tabel Mfg. Co., Inc.
Tower Construction Co.
Tri-Ex Tower Corp.
Westinghouse Electric Corp.
Wind Turbine Co.

ANTENNA TOWERS

a. Inflatable
b. Rigid, Fixed
c. Rigid, Portable
ACF Industries Inc.
Advanced Engineering Div., D. S. Kennedy & Co., b.
All Products Co., b, c.
Allied International Corp., b, c.
Allison Steel Mfg. Co., b.
Alpar Mfg. Corp., b, c.
American Car & Foundry Div., ACF Industries, inc., b, c.
American Conveyor Co.
American Electronic Labs., Inc., a, b, c.
American Machine & Foundry Co., Government Products Group, b.
American Machine & Foundry Co., Government Products, N. Y., a, b, c.
American Machine & Foundry Co., Greenwich Engrg. Div., b, c.
Anflab Inc.
Barker Sales Co.
Beacon Steel Corp., b, c.
Belmar Wheel & Machine Co., Inc., c.
Bethlehem Steel Co., b.
Birdair Structures, Inc., a.
Blaw-Knox Equipment, Div.-Blaw-Knox Co., b.
Calcor Corp., b, c.
Chance Vought Aircraft, Inc., b, c.
Colonial Aircraft Corp., b, c.
Continental-Emsco Co., Div.-The Youngstown Sheet & Tube Co., b, c.
Dresser-Ideco Co., Div.-Dresser Industries, Inc., b.
E-Z Way Towers, Inc., b, c.
Eastern Rotorcraft Corp., a, c.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Eubanks Industries, Inc., b, c.
General Bronze Electronics Corp., b, c.
HRB-Singer, Inc., Sub.-Singer Mfg. Co., b, c.
Houston Fearless Corp., c.
ITE Circuit Breaker Co., Special Products Div., a, b, c.

D. S. Kennedy & Co., b.
Lofstrand Co., The, b, c.
MEG Products, Div.-Mandrel Industries, inc., b, c.
Mark Products Co., b, c.
Northeast Metals Industries, Inc., b, c.
Opelika Welding, Machine & Supply Inc., b.
Philco Corp.-Govt. & Industrial Group, b.
Pmex, Inc.
Portland Copper & Tank Works Inc., b, c.
***RADIO CORP. OF AMERICA, b, c.**
Reynolds Metals Co., Sheffield Missile Plant, c.
Rimak, Inc., b, c.
Rohn Mfg. Co., b.
Sancor Corp., b, c.
Scientific-Atlanta, Inc., c.
Stainless Inc., a, b, c.
Tabel Mfg. Co., Inc.
Technical Appliance Corp., b, c.
Tower Construction Co.
Tri-Ex Tower Corp., b, c.
Wini Coach Co., Aircraft-Missiles, b, c.
United States Steel Corp., c.
Waco Aircraft Co., b, c.
Western Coil & Electrical Co.
Western Iron & Foundry Co., Inc.
Westinghouse Electric Corp., a.
Wind Turbine Co.
Winder Aircraft Corp. of Florida, b, c.
Young Development Div., Hercules Powder Co., c.

ANTENNAS

a. Direction Finding
b. Fixed Station
c. High Frequency
d. Loop-Direction Finder
e. Low Frequency
f. Microwave
g. Mobile Commercial
h. Mobile Communication
i. Radar
j. Radiation Test
k. Rotary Beam
l. Slotted Line
m. Ultra High Frequency
n. Very High Frequency
ACF Industries Inc., e, i, m, n.
Adler Electronics, Inc., f, h, m, n.
Admiral Corp., m, n.
Advanced Engineering Div., D. S. Kennedy & Co., f, i.
Aeronautical Electronics, Inc., b, g, h, m, n.
Aerona Corp., i.
Ainslie Corp., f, i, m.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., i.
Aircorn Inc., a, f, i, l, m, n.
Aircraft Armaments, Inc., f, l.
Airtron, Div.-Litton Industries, f, l.
All Products Co., a, b, c, e thru i, k, m, n.
Allied International Corp., a thru i, m, n.
Allied Research & Engrg., Div.-Allied Record Mfg. Co., f, i.
Alpar Mfg. Corp., b, c, e, f, i.
Amerac Inc., f, i.
American Electronic Labs., Inc., f, m, n.
American Machine & Foundry Co., Government Products Group, a, b, i.
American Machine & Foundry Co., Government Products, N. Y., a thru e, i, j, m, n.
American Machine & Foundry Co., Greenwich Engrg. Div., i.
***ANDREW CORP., b, c, e, f, h, m, n.**
Antenna Specialists Co., The, a, b, c, e, g, h, m, n.
Barker Sales Co., c, f, n.
Rex Bassett, Inc., h.
Belmar Wheel & Machine Co., Inc., a, d.
Bendix Aviation Corp., a thru n.
Bendix Corp., The, Eclipse-Pioneer Div., i.
Bendix Radio Div., Bendix Aviation Corp., i.
Bethlehem Steel Co., f, i.
Birdair Structures, Inc., h, i.
Blaw-Knox Equipment, Div.-Blaw-Knox Co., i.
Blonder-Tongue Labs. Inc., Special Products Div., m.
Bogart Mfg. Corp., c, f, m, n.
Bowser, Inc., a, b.
Bowser Inc., Defense Div., i.
Brach Mfg. Corp., n.
Brooks & Perkins, Inc., a, c, e, f, h, i, m, n.
Brunswick Balke Colander Co., The, Defense Products Div., e, f, i.
H. H. Buggie Div., Burndy Corp., g, h.
CG Electronics Corp., a, c, e, g, h, j, m, n.
Calcor Corp.
Central Safety Equip. Co., g, h.
Chance Vought Aircraft, Inc., a, b, c, e, f, h, i, j, l, m, n.
Collins Radio Co., b, c, d, f, i, k thru n.
Columbia Products Co., b, e, g, h, m, n.
Communications Research Co., b, h, n.
Conrad & Moser, a, d, i.
Control Electronics Co., Inc., d, f.

Cordo Chemical Corp. i.
Dalmo Victor Co., Div.-Textron, Inc., b, c, f, i, l, m.
Joe Davidson & Associates, f, i.
Daystrom, Inc., Military Electronics Div., i.
Dayron Aircraft Products, Inc., c.
Diamond Antenna & Microwave Corp., a, b, c, e, f, i,
l, m.
Don-Lan Electronics Inc., c, f, i, m, n.
Dorne & Margalin, Inc., a thru f, i, j, m, n.
Douglas Microwave Co., Inc., f, i.
Dresser-Ideco Co., Div.-Dresser Industries, Inc., b.
Dynatronics, Inc., a, c, f, i, k, m, n.
E-Z Way Towers, Inc., f.
Eclipse-Pioneer Div., Bendix Aviation Corp., a.
Electronic Specialty Co., c, f, l, m, n.
Electron-Radar Products, f, i, m.
Eljay Corp., i.
Emerson & Cuming, Inc., f, i.
Emertson, Sub.-Emerson Radio & Phonograph Corp.,
c, f, i, k thru n.
Empire Products Sales Corp.,
*EQUIPMENT DIV., RAYTHEON CO., f, i, k, l, m.
FXR, Inc., f.
Fairchild Aircraft & Missiles Div., Fairchild Engine &
Airplane Corp., i.
Fairchild Astrionics Div., Fairchild Engine & Airplane
Corp., a thru f, i, m, n.
Ferroxcube Corp. of America, f.
Finney Co., The, m, n.
Fla. Aircraft Radio & Marine
Freeman Co., The, c, k, n.
Gabriel Co., The, Gabriel Electronics Div., a thru d,
f thru n.
General Bronze Electronics Corp., a thru n.
General Communication Co., f.
General Controls Co.
General Electric Co., Missile & Space Vehicle Dept.,
p.
General Electric Co., Ordnance Dept., i.
General Instrument Corp., Defense & Engrg. Products
Group, f, i.
Gillilan Bros. Inc., f, i.
John Gambos Co., Inc., f.
Goodyear Aircraft Corp., f, i.
Gorham Electronics Div.-Gorham Mfg. Co., e, f, i.
Gulton Industries, Inc., b, c, f, k, l.
HRB-Singer, Inc., Sub.-Singer Mfg. Co., a, c, f, i, j, l,
m, n.
Hallowore Electronics Co., Div.-Sieglor Corp.
Hallcrafters Co., The, f, l, m, n.
Hammelt-Mercury-Rex Div., f, i.
Hazeltine Electronics Div.-Hazeltine Corp., a, b, f, h,
i, j, m, n.
Houston Fearless Corp., c, f.
Hughes Tool Co., Aircraft Div., i.
ITE Circuit Breaker Co., Special Products Div., a thru
n.
ITT Federal Div., International Telephone & Tele-
graph Corp., c, h, m, n.
Indiana Gear Works, Inc., m, n.
Indsl. Prod.-Danbury Knudsen Div.-Amphenol-Borg
Electronics Corp., g.
Interstate Electronics Corp., a.
J.V.-M Microwave Co., f, i.
E. F. Johnson Co., b, g, h.
K-W Engrg. Works, h.
*KEARFOTT DIV., GENERAL PRECISION, INC., a, f, i.
*KEARFOTT DIV., GENERAL PRECISION, INC.,
MICROWAVE PRODUCTS, f, i, m, n.
Kelsey-Hayes Co., c, i.
D. S. Kennedy & Co., f, i.
Kentucky Metal Products Co., f, i.
Kings Electronics Co., Inc., f.
Herb Kreckman Co., b, g, h, n.
Lear, Inc., a, d, i.
Ieco, Inc., f, i.
Litton Industries, Inc.
Litton Industries, Maryland Div., a thru f, i, k thru n.
Lockheed Aircraft Corp., Missiles & Space Div., i, l.
Lockheed Electronics Co., Stavid Div., f, i, m, n.
Lun Laminates, Inc., f, g, h.
Lycoming Div., Avco Corp., n.
MEG Products, Div.-Mandrel Industries, Inc., i.
*MAGNAVOX CO., THE, d, i.
Mark Products Co., b, c, e thru i, k, m, n.
*MARTIN CO., THE, DENVER DIV., b, f, m.
Martin Machine Works, Inc.
Master Mbbile Mounts, Inc., g, h, n.
W. L. Masson Corp., The, a, c, f, i, l, m, n.
Mc Donnell Aircraft Corp., f, l, m, n.
McC Millan Companies, The, f, i, m, n.
Meridian Metalcraft, Inc., f, i, j, l, m.
Microwave Associates, Inc., f.
*MINNESOTA MINING & MFG. CO., i.
Mosley Electronics, Inc., b, c, h, k, m, n.
Motorola, Inc., a thru i, k thru n.
Munston Electronic Mfg. Corp., a, d.
Narda Microwave Corp., The, f.
Normco Mfg. Co., f, i.
Norden Div., United Aircraft Corp., i.
Northeast Metals Industries, Inc., a thru f, i, l, m, n.

Northrop Corp.
Overhaul & Aerosystems, Div.-Temco Aircraft, a, c, e,
m, n.
Pacific Automation Products, Inc., m, n.
M. V. Palmer, Inc., b, f, m, n.
Rolph M. Parsons Co., The, Electronics Div., m, n.
Permax Products Div., Chisholm-Ryder Co., Inc., b, c,
g, h, m, n.
Philco Corp.-Govt. & Industrial Group, a, b, c, e, f,
h, l, m, n.
Phoenix Products Co., i.
Plastic Age Sales, Inc., i.
Polard Electronics Corp., f.
Portland Copper & Tank Works Inc., a, b, c, f thru i,
m, n.
Prodrelin Inc., f, g, h, m, n.
Production Research Corp., Sub.-Radio Condenser
Co.
Radolab Inc.
Radiation, Inc., d, f, i.
Radio City Products Co. Inc., a.
Radio Condenser Co., c, m, n.
*RADIO CORP. OF AMERICA, a thru n.
Ramo-Wooldridge, Div.-Thompson Ramo Wool-
dridge Inc., c, f, l, m, n.
Rantec Corp., f, i.
Reeves Instrument Corp., i.
Republic Aviation Corp., Missile Systems Div., a, b,
c, e, f, h, i, m, n.
Robot Industries Inc., a, i.
Sage Labs, Inc., f.
Sanders Associates, Inc., a, f, i, k.
Scala Radio Co., a, b, c, e, g, h, m, n.
Scientific-Atlanta, Inc., c, f, i, j, m, n.
Singer Military Products Div.-The Singer Mfg. Co.,
a, c, f, i, m.
Skyline Electric & Mfg. Co., f.
Southwest Research Institute, a.
Special Products Dept., Melpar, Inc., a, c, f, m, n.
Specialty Electronics Development Corp., a, f.
Spectra Electronics Corp., c, e, f, m, n.
Sperry Gyroscope Co., Div.-Sperry Rand Corp., f, i.
Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp., f, i, j, l.
Sperry Piedmont Co., Div.-Sperry Rand Corp., i.
Stainless Inc., f, i, l.
Standard Electronics Div.-Reeves Instrument Corp.,
c, n.
State Testing Laboratory Inc., b, c, g, h.
Steel Products Engrg. Co., Div.-Kelsey-Hayes Co. i.
Stewart-Warner Electronics Div., a, d, e, f, i, m.
Strand Engrg. Co., f, i, m.
Sylvania Electronic Systems, Div.-Sylvania Electric
Products Inc., a, f, i, l, m.
Systems Incorporated, d.
TRG, Inc., a thru f, i thru n.
Tamar Electronics, Inc., a, f thru i, m, n.
Tapco Group, Thompson Ramo Wooldridge Inc., f.
Technical Appliance Corp., b, c, f thru i, m, n.
Technical Materiel Corp., The, c.
Technicraft, Div.-Electronic Specialty Co., f, l.
Telectro Industries Corp., a, c, d.
Telrad Mfg. Corp., f, i.
Telkor, Inc., b, c, n.
Temco Aircraft Corp., f, m, n.
A. S. Thomas, Inc., a thru n.
Thompson Ramo Wooldridge Inc., a, f, i.
Tober Electronic Corp., a, f, i, l.
C. W. Torngren Co., Inc., f.
Tower Construction Co., f.
Transco Products, Inc., a, c thru f, h, i, j, m, n.
Tri-Ex Tower Corp., f, g, h.
United Shoe Machinery Corp., f, i.
U. S. Science Corp., Div.-Topp Industries, Inc., b, j, n.
United States Testing Co., Inc., c, e, f, l.
Universal Moulded Products Corp., a thru m.
Universal Unlimited, Inc.
Victor R. F. & Microwave Co., f.
Virginia Electronics Co., Inc., h.
Washington Aluminum Co., Inc., a thru n.
Waveline, Inc., f, i, l.
Western Gear Corp.-Precision Products Div., a, b, c,
f, i, l, m, n.
Westinghouse Electric Corp., c, f, i, m, n.
Wheeler Laboratories, Inc., b, e thru i, m, n.
Wind Turbine Co., k.
Winder Aircraft Corp. of Florida, c, i.

ANTIMONY

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
Alpha Metals, Inc.
American Smelting & Refining Co.
Barium & Chemicals, Inc.
Belmont Smelting & Refining Works, Inc.
Bios Labs, Inc.
Bow Solder Products Co., Inc.
Bram Metallurgical Chemical Co.
City Chemical Corp.
Delta Chemical Works, Inc.
Division Lead Co.

Harmon, Lichtenstein & Co.
Semi-Elements, Inc.
United Mineral & Chemical Corp.
Var-Lac-Oid Chemical Co.

ANTI-VIBRATION EQUIPMENT

American Fell Co.
American Latex Products Corp.
Anacoanda Metal Hose Div., The American Brass Co.
Armstrong Cork Co.
Bushing, Inc.
Chance Voight Aircraft, Inc.
Convair Instruments, Convair Div.-General Dynamics
Corp.
Daw-Elco, Inc.
Firestone Indsl. Products Co., Div.-Firestone Tire &
Rubber Co.
Houdaille Industries, Inc., Buffalo Hydraulics Div.
Industrial Acoustics Co., Inc.
K. W. Johnson & Co., Inc.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Lord Mfg. Co.
MB Electronics
Mechanics Research Div., American Machine & Foundry
Co.
Northrop Corp.
Owens-Corning Fiberglas Corp.
Propulsion Test Facilities Div.-MB Electronics
Seaman Products Div., Seaman Paper Co.
Southwest Research Institute
A. T. Stevens Co.
Uniform Hood Lace Co.
United States Rubber Co.
Vibration Isolation Products
Westinghouse Electric Corp.

ASBESTOS

Abesto Corp.
American Smelting & Refining Co.
Anchor Packing Co., The
Auburn Mfg. Co., The
General Gasket Inc.
Greene, Tweed & Co.
Insulation Mfrs. Corp.
Johns-Manville Sales Corp.
Raybestos-Manhattan, Inc.
Thermo-Div., H. K. Porter Co., Inc.
United States Rubber Co.
Zippertubing Co., The

ASPHALT

Biwax Corp.
Borden Chemical Co.
Mitchell Rand Mfg. Corp.
Southwest Research Institute
Standard Oil Co. of Indiana
Thermon Mfg. Co.
Zophor Mills Inc.

ASSEMBLY EQUIPMENT, AUTOMATIC

American Machine & Foundry Co., Greenwch Engrg.
Div.
Anchor Specialty Mfg. Co. Inc.
Barnes Development Co.
Bendix Aviation Corp.
E. W. Bliss Co.
Bulova Research & Development Labs, Inc.
Burklyn Co.
Eylet Tool Co. Inc.
Hydroforming Co. of America Inc.
Lear, Inc.
Lennox Tool & Machine Builders
Lepel High Frequency Labs. Inc.
Link-Belt Co.
*MARTIN CO., THE, DENVER DIV.
Modern Design Div.-H. C. Schloer, Inc.
George L. Nankers of America
Pylas Industries, Inc.
*RADIO CORP. OF AMERICA
Sheffield Corp., The, Sub.-Bendix Aviation Corp.
Southwest Research Institute
Special Products Dept., Melpar, Inc.
Squires Gage Co.
Taft-Peirce Mfg. Co., The
Thomson, Judson L.
Zippertubing Co., The

ASSEMBLY SHIELD, NUCLEAR

Armament Div.-Universal Match Corp.
Bar-Ray Products, Inc.
Bendix Aviation Corp.
E. W. Bliss Co.
Brooks & Perkins, Inc.
A. M. Byers Co.
Fonsteel Metallurgical Corp.
Flight Refueling, Inc.
General Electric Co., Missile & Space Vehicle Dept.
Industrial Equipment Div., Baldwin Lima Hamilton
Corp.
International Steel Co.

Jan Hardware Mfg. Co., Inc.
Portland Copper & Tank Works Inc.
Westinghouse Electric Corp.
Zippertubing Co., The

ATTENUATORS

- a. Audio
- b. Logarithmic
- c. Microwave
- d. Precision
- e. RF & IF

ACDC Electronics, Inc., e.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., d, e.
Aircor Inc., c, d, e.
Aitron, Div.-Litron Industries, c.
Allegheny Instrument Co., Inc.
Allison Labs, Inc., a.
Anflab Inc., b.
Applied Research Inc., c, e.
Blonder-Tongue Labs, Inc., e.
Blonder-Tongue Labs, Inc., Special Products Div., e.
Bogart Mfg. Corp., c.
Bruno-New York Industries Corp., c.
CG Electronics Corp., c.
Carborundum Co., Refractories Div., c.
Chance Vought Aircraft, Inc., c.
Chemalloy Electronics Corp., c.
Clevite Ordnance, Div.-Clevite Corp., a, b.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., c.**
Control Electronics Co., Inc., c.
Dalmo Victor Co., Div.-Textron, Inc., c.
Daven Co., The, a, e.
Joe Davidson & Associates, c.
Dell Optics Co., Ltd., c.
Demaray-Bonardi, c.
Diamond Antenna & Microwave Corp., c, d, e.
Don-Lan Electronics Inc., c, d, e.
Dorne & Margolin, Inc., c, e.
Double E Products Co., a thru e.
Douglas Microwave Co., Inc., c.
Du Kane Corp., a.
Electrical & Physical Instrument Corp., e.
Electro Scientific Industries, d.
Electromation Co., Div.-Del Mar Engrg. Labs, a thru e.
Electronic Applications, Inc., a, c, e.
Electron-Radar Products, c.
Elektro-Serv Co., c.
Empire Products Sales Corp., c, d, e.
***EQUIPMENT DIV., RAYTHEON CO., c.**
FXR, Inc., c.
General Aniline & Film Corp., Ansco Div., c.
General Communication Co., c.
General Instrument Corp., Defense & Engrg. Products Group, c.
General Radio Co., a, c, d.
Gillfillan Bros. Inc., c.
John Gombos Co., Inc., c.
Hammett-Mercury-Rex Div., c, d.
Hewlett-Packard Co., a, c, d, e.
***INTERELECTRONICS CORP., a.**
Interstate Electronics Corp., a.
J.V-M Microwave Co., c, e.
Jovax Electronics, a.
Kay Electric Co., a, b, d, e.
***KEARFOOT DIV., GENERAL PRECISION, INC., c.**
***KEARFOOT DIV., GENERAL PRECISION, INC., MICROWAVE PRODUCTS, c, d, e.**
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., a.
Kentucky Metal Products Co., c, e.
Wayne Kerr Corp., a, c, e.
Kings Electronics Co., Inc., e.
Lab. for Electronics, Inc., c.
lavoie labs, Inc., c.
lear, Inc., a, e.
lieco, Inc., c.
Lockheed Aircraft Corp., Missiles & Space Div., c.
Marconi Instruments, e.
***MARTIN CO., THE, DENVER DIV., e.**
W. L. Moxson Corp., The, a, c, e.
McMillan Companies, The, c.
Meridian Metalcraft, Inc., c, d.
Microlab, c, e.
Microphase Corp., c.
Microwave Associates, Inc., c.
Motorola, Inc., a, c.
Muirhead Instruments Inc., a, d, e.
Narda Microwave Corp., The, c, d.
National Co., Inc., a thru e.
New London Instrument Co., Inc., e.
Northrop Corp.
Omega Labs, Inc., c.
Overhaul & Aerosystems, Div.-Temco Aircraft, e.
Piasecki Aircraft Corp., a.
Pitometer Log Corp., c.
Polarad Electronics Corp., c.
Polytechnic Research & Development Co., Inc., c.

Projects Unlimited, Inc., a, e.
Pyroferic Co. Inc., c.
Radar Design Corp., c.
***RADIO CORP. OF AMERICA, a thru e.**
Radio Receptor Co., Inc., Sub-General Instrument Corp., c.
Rantec Corp., c.
Ray-O-Vac Co., Div.-Electric Storage Battery Co.
Republic Aviation Corp., Missile Systems Div.
Sage Labs, Inc., c.
Sanders Associates, Inc., c.
Servo Consultants Ltd., a, d.
Shallcross Mfg. Co., a, d.
Sierra Electronic Corp., Div.-Philco Corp., c, e.
Specialty Electronics Development Corp., a, c, d, e.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., c.
Stoddart Aircraft Radio Co., Inc., c, d, e.
a.
Stromberg-Carlson Div.-General Dynamics Corp., a, e.
Sun Electric Corp., Aeronautical Div.
Superior Electric Co., The, e.
Sylvania Electric Products Inc., Special Tube Operations, c.
Tamar Electronics, Inc., c, e.
Technicraft, Div.-Electronic Specialty Co., c.
Telchrome Mfg. Corp., a.
Teleraid Mfg. Corp., c.
Telex, Inc., d.
Telonic Industries, Inc., a, c, d, e.
Tober Electronic Corp., c.
Tranco Products, Inc., c, e.
Vernistat Div., The Perkin-Elmer Corp., d.
Victor R. F. & Microwave Co., c.
Virginia Electronics Co., Inc., a.
Waltham Electronics Corp., e.
Waveline, Inc., c.

AUTOMATIC CHECKOUT SYSTEMS

ACF Electronics Div., ACF Industries Inc.
Adage, Inc.
Adler Electronics, Inc.
Advance Industries, Inc.
Aerona Mfg. Corp.-Aerospace Div.
Air Logistics Corp.
Aircraft Armaments, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Alto Scientific Co., Inc.
Alwac Computer, Div.-El-Tronics Inc.
American Machine & Foundry Co., Government Products Group
American Missile Products Co., Inc.
Anaheim Electronics Div.-Electronic Engrg. Co. of Calif.
Anchor Specialty Mfg. Co. Inc.
Auto-Control Labs, Inc.
Autonotics, Div.-North American Aviation, Inc.
Avien, Inc.
Avtron Mfg., Inc.
Beckman-Systems Div.
Beech Aircraft Corp.
Belock Instrument Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Aviation Corp., York Div.
Bendix Corp., The, Eclipse Pioneer Div.
Bendix-Pacific Div., Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Radio Div., Bendix Aviation Corp.
Bogue Electric Mfg. Co.
Budd Lewyt Electronics, Inc.
Bulova Research & Development Labs., Inc.
Burton-Rodgers, Inc.
CBS Laboratories, Div.-Columbia Broadcasting System
California Plasteck Inc.
Cameralex Div., The, Federal Mfg. & Engrg. Corp.
Chance Vought Aircraft, Inc.
Computyne Corp.
Computer Systems, Inc.
Consolidated Diesel Electric Corp.
James Cunningham Son & Co., Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Dalmo Victor Co., Div.-Textron, Inc.
Daystrom, Inc., Control Systems Div.
Daystrom Inc., Pacific Div.
Designers for Industry, Inc.
Dit-Mco, Inc.
Douglas Aircraft Co., Inc.
Du Kane Corp.
Allen B. Du Mont Labs, Inc.
Dynamtronic, Inc.
Electro Instruments, Inc.
Electromation Co., Div.-Del Mar Engrg. Labs.
Electronics Div.-The National Cash Register Co.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
Enaco, Inc.
Epsco Inc.
***EQUIPMENT DIV., RAYTHEON CO.**
Erco Engrg. Corp.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
J. W. Fecker Div., American Optical Co.
Food Machinery & Chemical Corp., Ordnance Div.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept.
General Electric Co., Light Military Electronics Dept.
General Electric Co., Missile & Space Vehicle Dept., Pa.
Genisco, Inc.
Gillfillan Bros. Inc.
Guided Missile Div., The Firestone Tire & Rubber Co.
B. H. Hadley, Inc.
Hallamore Electronics Co., Div.-Sieglar Corp.
A. W. Hayden Co., The
Hazeltine Electronics Div.-Hazeltine Corp.
Hoover Electronics Co.
Hughes Tool Co., Aircraft Div.
Iconix Inc.
Industrial Control Co.
Intercontinental Dynamics Corp.
Lab. for Electronics, Inc.
lavoie labs, Inc.
Leach Corp.
Leair, Inc.
***WALLACE O. LEONARD, INC.**
Librascope Div., General Precision, Inc.
Litton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Lockheed Electronics Co., Stavid Div.
Lundy Mfg. Corp.
MEG Products, Div.-Mandrel Industries, Inc.
Madigan Corp.
Marquardt Corp., The
***MARTIN CO., THE, DENVER DIV.**
Mc Donnell Aircraft Corp.
Micro Gee Products, Inc.
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
Missile Div., North American Aviation, Inc.
Modern Design Div.-H. C. Schloer, Inc.
Motorola, Inc.
George I. Nankervis Co.
National Co., Inc.
Navigation Computer Corp.
Norden Div., United Aircraft Corp.
Northrop Corp.
Nortronics, Div.-Northrop Corp.
Optimized Devices, Inc.
Otis Elevator Co., Defense & Industrial Div.
Pacific Automation Products, Inc.
Packard Bell Computer Corp.
Packard-Bell Electronics Corp.
Performance Measurements Co.
Philco Corp.-Govt. & Industrial Group
Polarad Electronics Corp.
Potter Instrument Co., Inc.
REF Mfg. Corp.
Radiophone Co. Inc.
Radiation, Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORPORATION OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGR. FACILITY
Ramo-Wooldrige, Div.-Thompson Ramo Wooldrige Inc.
Republic Aviation Corp., Missile Systems Div.
Sanders Associates, Inc.
Secode Corp.
Servomechanisms, Inc.
Sierra Electronic Corp., Div.-Philco Corp.
Singer Military Products Div.-The Singer Mfg. Co.
Skydyne, Inc.
Slaughter Co., Inc.
Soroban Engrg., Inc.
Southwest Research Institute
Special Products Dept., Melpar, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Statham Development Corp.
Strand Engrg. Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Sun Electric Corp., Aeronautical Div.
Sundstrand Turbo
Syston Corp.
Tappo Group, Thompson Ramo Wooldrige Inc.
Thera Instrument Corp.
Thompson Ramo Wooldrige Inc.
Tranco Products, Inc.
Trio Laboratories, Inc.
U. S. Industries, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Varo Mfg. Co., Inc.
Video Instruments Co., Inc.
Wang Labs, Inc.
Wells Industries Corp.

Westinghouse Electric Corp.
Wiancko Engrg. Co.

AUTOMATIC PILOT CONTROL VALVES

*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
American Instrument Co., Inc.
Arkwin Industries, Inc.
Automatic Switch Co.
Bendix Aviation Corp.
Bendix Corp., The, Eclipse-Pioneer Div.
Bendix-Pacific Div., Bendix Aviation Corp.
Captive Seal Corp.
Chance Vought Aircraft, Inc.
Consolidated Controls Corp.
Custom Component Switches Inc.
George W. Dahl Co., Inc.
FAE Instrument Corp.
Fisher Governor Co.
Garwin, Inc.
General Controls Co.
B. H. Hadley, Inc.
Hoefner Corp.
Hydra-Power Corp.
Hydraulic Research & Mfg. Co.
Integral Corp.
Interstate Engrg. Corp.
Kemp Aero Products
Kieley & Mueller, Inc.
Kear, Inc.
*MARTIN CO., THE, DENVER DIV.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc.
OPW-Jordan
Pneu-Hydro Valve Corp.
Research Controls
Sargent Engrg. Corp.
Sperry Piedmont Co., Div.-Sperry Rand Corp.
Tactair Valve Div.-Aircraft Products Co.
Talley Corp., The
United Aircraft Products, Inc.
Weatherhead Co., The
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.
Whittaker Controls, Div.-Telecomputing Corp.

AUTOMATIC PILOTS, ELECTRONIC

*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Autonetics, Div.-North American Aviation, Inc.
Beech Aircraft Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Corp., The, Eclipse-Pioneer Div.
A. Biederman, Inc.
Chance Vought Aircraft, Inc.
Collins Radio Co.
Courtier Products, Div.-Model Engrg. & Mfg., Inc.
Daystrom Inc., Pacific Div.
Daystrom Inc., Transicoil Div.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Emertson, Sub.-Emerson Radio & Phonograph Corp.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept.
General Electric Co., Light Military Electronics Dept.
Guided Missile Div., The Firestone Tire & Rubber Co.
Integrated Dynamics Div., Globe Industries, Inc.
*KEARFOOT DIV., GENERAL PRECISION, INC.
Kear, Inc.
Mc Donnell Aircraft Corp.
Micro Gee Products, Inc.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
Northrop Corp.
Pacific Automation Products, Inc.
Paraplegics Mfg. Co., Inc.
Philco Corp., Govt. & Industrial Group
Sanders Associates, Inc.
Sperry Piedmont Co., Div.-Sperry Rand Corp.
TRC, Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Temco Aircraft Corp.
Texas Instruments Inc.
Thompson-Ramo Wooldridge Inc.
Westinghouse Electric Corp.
Whittaker Gyro. Div.-Telecomputing Corp.

AUTOMATIC PILOTS, HYDRAULIC

Bendix Aviation Corp.
Bendix Corp., The, Eclipse-Pioneer Div.
A. Biederman, Inc.
Chance Vought Aircraft, Inc.
Clevite Ordnance, Div.-Clevite Corp.
Consolidated Controls Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Garwin, Inc.
General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept.

General Electric Co., Light Military Electronics Dept.
Hoefner Corp.
Hydra-Power Corp.
Interstate Engrg. Corp.
Kemp Aero Products
Kieley & Mueller, Inc.
Kear, Inc.
*MARTIN CO., THE, DENVER DIV.
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
Northrop Corp.
Radio Development & Research Corp.
SKF Industries, Inc.
Sanders Associates, Inc.
Sperry Piedmont Co., Div.-Sperry Rand Corp.
Whittaker Controls, Div.-Telecomputing Corp.

AUXILIARY POWER SOURCES

Adel Precision Products of Calif., Div.-General Metals Corp.
Aircraft Accessory Turbine Dept.-General Electric Co.
*AIRESEARCH MFG. OF ARIZONA
*BENDIX AVIATION CORP., HAMILTON DIV.
Bendix-Pacific Div., Bendix Aviation Corp.
Bjorksten Research Labs. for Industry, Inc.
Carson Mach & Supply Co.
Clevite Ordnance, Div.-Clevite Corp.
Consolidated Diesel Electric Corp.
Cook Batteries, Sub.-Telecomputing Corp.
Datascan Inc.
Joe Davidson & Associates
De Havilland Aircraft of Canada, Ltd., Special Products Div.
Eagle-Picher Co., The
John Fluke Mfg. Co., Inc.
Food Machinery & Chemical Corp., Ordnance Div. Georator Corp.
Guided Missile Div., The Firestone Tire & Rubber Co.
Hamilton Standard, Div.-United Aircraft Corp.
Hammett-Mercury-Rex Div.
ITI Electronics, Inc.
*INTERELECTRONICS CORP.
Jack & Heintz, Inc.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Magnetic Research Corp.
*MARTIN CO., THE, DENVER DIV.
Sanford Miller Co.
*MINNESOTA MINING & MFG. CO.
Olin Mathieson Chemical Corp., N. Y.
Patterson Moos Research, Div.-Leesona Corp.
Pescos Products Div., Borg-Warner Corp., Calif.
Pre-Flite Industries Corp.-Sub.-Avco Mfg. Corp.
Radio Development & Research Corp.
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
Solar Aircraft Co.
Stewart & Stevenson Services, Inc.
Sun Electric Corp., Aeronautical Div.
Varo Mfg. Co., Inc.
Vickers Inc., Electric Products Div.
Wincharger Corp., Sub.-Zenith Radio Corp.

BADGES, RADIATION

Acromark Co., The
Adept Industries Inc.
American Electronics, Inc.
Bausch & Lomb Optical Co.
Corning Glass Works
Isotopes Specialties Co., Div.-Nuclear Corp. of America
Nuclear-Chicago Corp.
St. John X-Ray Laboratory
Sillocks-Miller Co.
Tracerlab Inc.

BAFFLES, AIR

Allied Witon Co. Inc.
Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
Carborundum Co., The
Colonial Aircraft Corp.
Hanlon & Wilson Co., The
Ludwig Honold Mfg. Co.
Industrial Acoustics Co., Inc.
Kling Metal Spinning & Stamping Co.
*LAVELLE AIRCRAFT CORP.
*MARTIN CO., THE, DENVER DIV.
Northeast Metals Industries, Inc.
Portland Copper & Tank Works Inc.
Rimak, Inc.
T. O. D. Mfg. Co. Inc.
Winder Aircraft Corp. of Florida
Woolf Aircraft Products, Inc.

BALANCING EQUIPMENT

R. B. Annis Co.
Bendix Aviation Corp.

Cosa Corp.
Decker Corp., The
Dynamics Corp.
Integrated Dynamics Div., Globe Industries, Inc.
Micro Balancing, Inc.
Performance Measurements Co.
Stewart-Warner Corp., Alemite Div.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.
Westinghouse Electric Corp.

BALL JOINTS

Aero Mfg. & Mach. Co., Inc.
Allegany Instrument Co., Inc.
Arkwin Industries, Inc.
Arrowhead Products, Div.-Federal Mogul-Bowber Bearings, Inc.
Barco Mfg. Co., Inc.
Bendix Aviation Corp.
California Stamping & Mfg. Co.
Capital City Mfg. Co., Inc.
Dana Corp.
Flight Refueling, Inc.
B. H. Hadley, Inc.
Hanlon & Wilson Co., The
Walter K. Jaros Aircrafters
Langley Corp.
Lear, Inc.
Marman Div., Aeroquip Corp.
Ohlson Empire Inc.
Solar Aircraft Co.
Southwest Products Co.
Weatherhead Co., The

BALL LATCHES

Aeroquip Corp., Jackson Div.
Capital City Mfg. Co., Inc.
George E. Harris & Co., Inc.
*MARTIN CO., THE, DENVER DIV.
Western Div., Aeroquip Corp.

BALUSTOCARDIOGRAPHS

Decker Corp., The
Gulton Industries, Inc.
Statham Instruments, Inc.

BARIUM

Barium & Chemicals, Inc.
Bram Metallurgical Chemical Co.
Hammett-Mercury-Rex Div.
King Labs, Inc.
United Mineral & Chemical Corp.
Var-Lac-Oid Chemical Co.

BAROGRAPHS

American Paulin System
Pimex, Inc.
Southwest Research Institute

BAROMETERS

American Paulin System
Bendix Aviation Corp.
A. Biederman, Inc.
*BRISTOL CO., THE
Bulova Research & Development Labs., Inc.
Decker Corp., The
Dynamics Corp.
*ENGIS EQUIPMENT CO.
Hass Instrument Corp., The
E. Vernon Hill & Co.
Ideal-Aerosmith, Div.-Royal Industries, Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
*WALLACE O. LEONARD, INC.
Narda Microwave Corp., The
Pimex, Inc.
Southwest Research Institute
Uehling Instrument Co.
Wallace & Tiernan Inc.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

BASES

- a. Antenna
- b. Diode
- c. Relay
- d. Transistor

ACF Industries Inc., a.
Alpar Mfg. Corp., a.
American Car & Foundry Div., ACF Industries, Inc., a.
American Machine & Foundry Co., Greenwich Engrg. Div., a.
Antlab Inc., a.
Armel Electronics, Inc., c.
Associated Engrg. & Mfg. Corp., d.
Belmar Wheel & Machine Co., Inc., a, b, d.
Bendix Aviation Corp., a, b, d.
Bendix Corp., The, Eclipse-Pioneer Div., a.
Blaw-Knox Equipment, Div.-Blaw-Knox Co., a.
E. W. Bliss Co., a.
Bowser Inc., Defense Div., a.

Brooks & Perkins, Inc., a.
 Bundy Corp., Omaton Div., c.
 CG Electronics Corp., a.
 Conrad & Maser, a.
 Corning Glass Works, b, d.
 Dalmo Victor Co., Div.-Textron, Inc., a.
 Dayton Aircraft Products, Inc., a.
 Diamond Antenna & Microwave Corp., a.
 Don-Ian Electronics Inc., a.
 *EQUIPMENT DIV., RAYTHEON CO., a.
 Falstrom Co., a.
 Hahn & Clay
 Hermetic Seal Corp., b, c, d.
 ITE Circuit Breaker Co., Special Products Div., a.
 Industrial Equipment Div., Baldwin Lima Hamilton
 a.
 Kellogg Switchboard & Supply Co., Communications
 Div.-IT&T Corp., c.
 Litton Industries, Maryland Div., a.
 Motorola, Inc., a, b, d.
 Nippert Electric Products Co., The
 Northeast Metals Industries, Inc., a.
 Portland Copper & Tank Works Inc., a.
 *RADIO CORP. OF AMERICA, a thru d.
 Reeves Instrument Corp., a.
 Rimak, Inc., a thru d.
 Robot Industries Inc., a.
 Milton Ross Metals Co., The, b, c, d.
 Scientific-Atlanta, Inc., a, b, d.
 Sinclair Mfg. Co., a.
 South River Metal Products Co., Inc.
 Specialty Electronics Development Corp., a.
 Stackpole Carbon Co., b.
 TRG, Inc., a.
 Tapco Group, Thompson Ramo Wooldridge Inc., a.
 Theron Mfg. Co., b, d.
 Thompson Ramo Wooldridge Inc., a.
 Tower Construction Co.
 Twin Coach Co., Aircraft-Missiles, a.
 U. S. Pipe & Foundry Co., Steel & Tubes Div., a.
 Warren Components, Div.-El-Tronics, Inc., d.
 Washington Aluminum Co., Inc., a.
 Westinghouse Electric Corp., a.

BATTERIES

- a. Atomic
- b. Cadmium
- c. Dry Cell
- d. Lead-Acid
- e. Mercury
- f. Nickel Alkaline
- g. Nickel-Cadmium
- h. Nuclear
- i. Silver
- j. Silver Zinc
- k. Transistor

Aircraft Accessory Turbine Dept.-General Electric
 Co.
 Allied International Corp., c, d, g.
 American Electronics, Inc., Nuclear Div., a.
 Beech Aircraft Corp.
 Bjorksten Research Labs. for Industry, Inc.
 Bowers Battery & Spark Plug Co., d.
 Bright Star Industries, c, k.
 Burgess Battery Co., Div.-Servel, Inc., c, e, g, k.
 Carbone Corp., The, c.
 Cook Batteries, Sub.-Telecomputing Corp., i, j.
 Eagle-Picher Co., The, b, f, g, i, j.
 Eastman Kodak Co.
 Electric Autolite Co., The, d.
 Electroid Corp., j.
 Elgin Micronics, West Coast Div.-Elgin National
 Watch Co., a, h.
 Esso Standard, Div.-Humble Oil & Refining Co., d.
 Eureka Williams Corp.
 Exide Industrial Div.-The Electric Storage Battery
 Co., j.
 General Electric Co., Ordnance Dept.
 Gordon Enterprises, b, f, g.
 Gulton Industries, Inc., g.
 Hammett-Mercury-Rex Div., b, d thru g.
 *INTERELECTRONICS CORP., f, g, i, j.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Madigan Corp., k.
 *MAGNAVOX CO., THE, j.
 P. R. Mallory & Co. Inc., c, e, i, k.
 Marathon Battery Co., c, k.
 D. B. Milliken Co., g.
 NUMEC-Nuclear Materials & Equipment Corp., a.
 Nicad Div., Gould-National Batteries, Inc., b, f, g.
 Nutron Mfg. Co. Inc., k.
 Ohmart Corp., The, a.
 Olin Mathieson Chemical Corp., N. Y., a, b.
 Pass & Seymour, Inc., Delense Div.
 Patterson Moos Research, Div.-Leeson Corp., a, h,
 k.
 Radiation Research Corp., a, h.
 *RADIO CORP. OF AMERICA, a, b, c, e, f, g, k.
 Ray-O-Vac Co., Div.-Electric Storage Battery Co., c.
 Sonatone Corp., g.
 Southwest Research Institute

Standard Electric Co., Inc., d.
 Tracerlab Inc., h.
 U. S. Industries, Inc., b, c.
 Willard Storage Battery Div., d.
 Yardney Electric Corp., b, i, j, k.

BATTERY BOXES, CRADLES, ETC.

Aerofil Products Co., Inc.
 American Latex Products Corp.
 Associated Co., Inc.
 Atkins & Merrill, Inc.
 Augat Brothers, Inc.
 Belmar Wheel & Machine Co., Inc.
 S. Blickman, Inc.
 Colonial Aircraft Corp.
 Cromer Mfg. & Engrg., Inc.
 Cutler Metal Products Co.
 Doak Aircraft Co. Inc.
 Elzee Metal Products Co., Inc.
 Guided Missile Div., The Firestone Tire & Rubber
 Co.
 Jeta, Inc.
 Kellett Aircraft Corp.
 Keystone Electronics Corp.
 Kirk & Blum Mfg. Co., The
 *MARTIN CO., THE, DENVER DIV.
 *MINNESOTA MINING & MFG. CO.
 Piasecki Aircraft Corp.
 Pneumafil Corp.
 Prewitt Aircraft Co.
 Rimak, Inc.
 Scientific-Atlanta, Inc.
 Structural Fibers, Inc.
 Telkor, Inc.
 Twin Coach Co., Aircraft-Missiles
 Waco Aircraft Co.
 Westholt Mfg. Inc.
 Winder Aircraft Corp. of Florida
 Wolverine Diesel Power Co.

BATTERY CHARGING & SERVICING EQUIPMENT

Acme Electric Corp.
 Allen Electric & Equipment Co.
 American Rectifier Corp.
 Automatic Switch Co.
 Bogue Electric Mfg. Co.
 Chatham Electronics Div.-Tung-Sol Electric Inc.
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
 THEON CO.
 Joe Davidson & Associates
 Djeco, Div.-Djordjevic Engrg. Co.
 Dresser Electric Co.
 Electric Autolite Co., The
 Electronic Measurements Corp.
 *EQUIPMENT DIV., RAYTHEON CO.
 Esso Standard, Div.-Humble Oil & Refining Co.
 John Fluke Mfg. Co., Inc.
 Gates Electronic Co.
 General Electric Co., Apparatus Sales Div.
 General Scientific Equipment Co.
 Gulton Industries, Inc.
 Hammett-Mercury-Rex Div.
 Hertner Electric Co., The
 Hobart Brothers Co.
 Hughes Electronics Co.
 Indiana Gear Works, Inc.
 *INTERELECTRONICS CORP.
 Jeta, Inc.
 Lee Electric & Mfg. Co.
 Leland Airborne Products, Div.-American Machine
 & Foundry Co.
 Lincoln Electric Co., The
 Macarr, Inc.
 Madigan Corp.
 P. R. Mallory & Co. Inc.
 *MARTIN CO., THE, DENVER DIV.
 Sanford Miller Co.
 Madel Rectifier Corp.
 Motor Appliance Corp.
 Motor Generator Corp.
 George I. Nankervis Co.
 D. W. Onan & Sons Inc.
 Opad Electric Co.
 M. V. Palmer, Inc.
 Sonatone Corp.
 Stewart & Stevenson Services, Inc.
 A. U. Stone & Co., Inc.
 Sun Electric Corp., Aeronautical Div.
 Technical Apparatus Builders
 Telkor, Inc.
 Terado Co.
 Westinghouse Electric Corp.
 Wickes Engrg. & Construction Co.
 Willard Storage Battery Div.
 Winder Aircraft Corp. of Florida
 Wolverine Diesel Power Co.
 Yardney Electric Corp.

BATTERY SERVICING EQUIPMENT

Electronic Applications, Inc.

Gates Electronic Co.
 General Scientific Equipment Co.
 *MARTIN CO., THE, DENVER DIV.
 Motor Generator Corp.
 George I. Nankervis Co.
 Opad Electric Co.
 Penn Keystone Corp.
 Q. V. S. Inc.
 Sonatone Corp.
 Winder Aircraft Corp. of Florida

BEACONS, RADIO

Advance Industries, Inc.
 Bendix Aviation Corp.
 Collins Radio Co.
 Dalmo Victor Co., Div.-Textron, Inc.
 Designers for Industry, Inc.
 Diamond Antenna & Microwave Corp.
 Dersett Electronic Labs, Inc.
 Du Kane Corp.
 Dynatronics, Inc.
 Eastman Kodak Co.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 *EQUIPMENT DIV., RAYTHEON CO.
 Fla. Aircraft Radio & Marine
 Gates Radio Co.
 General Communication Co.
 General Electric Co., Light Military Electronics Dept.
 General Electric Co., Missile & Space Vehicle Dept.,
 Pa.
 General Instrument Corp., Defense & Engrg. Products
 Group
 Gillfillan Bros. Inc.
 Hazeltine Electronics Div.-Hazeltine Corp.
 ITT Federal Div., International Telephone & Tele-
 graph Corp.
 Interstate Electronics Corp.
 Lear, Inc.
 Iel, Inc.
 Litton Industries, Maryland Div.
 Lockheed Electronics Co., Stavid Div.
 *MARTIN CO., THE, DENVER DIV.
 Motorola, Inc.
 National Co., Inc.
 Packard-Bell Electronics Corp.
 Production Research Corp., Sub.-Radio Condenser
 Co.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRON-
 ICS PRODUCTS
 Radio Receptor Co., Inc., Sub.-General Instrument
 Corp.
 Raven Industries Inc.
 Simmonds Aerocessories, Inc.
 Special Products Dept., Melpar, Inc.
 Tamar Electronics, Inc.
 Telectro Industries Corp.
 Telerad Mfg. Corp.
 Texas Instruments Inc.
 Virginia Electronics Co., Inc.

BEARINGS

- a. Ball
- b. Ball Miniature
- c. Jewel
- d. Needle
- e. Oilless
- f. Rod End
- g. Roller
- h. Roller Taper
- i. Self Aligning
- j. Special Purpose

Acme Industrial Co., j.
 Acorn Bearing Co., g, i, j.
 Aetna Ball & Roller Bearing Co., Div.-Parkersburg-
 Aetna Corp., a, g, j.
 Allison Div., General Motors Corp., j.
 American Latex Products Corp., j.
 American Standard Products, Inc., j.
 Amplex Div.-Chrysler Corp., e, i.
 Analogue Controls, Inc., e, j.
 Associated Engineers, Inc., j.
 Atlas Brass Foundry, e, i.
 Atlas Precision Products, Co., b.
 Barden Corp., The, a, b.
 Bearing Inspection, Inc., a, b, d, f thru j.
 Beryum Metals Corp., e.
 Beemer Engrg. Co., e, i, j.
 Bendix Filter Div., Bendix Aviation Corp., j.
 Richard H. Bird & Co., Inc., c.
 Bonny Mfg. Corp., j.
 Boaker-Cooper, Inc., j.
 Bound Brook Oil-Less Bearing Co., e, i, j.
 Bulova Watch Co., Inc., Turtle Mountain Div., c, j.
 Bunting Brass & Bronze Co., The, e, j.
 Bushings, Inc., e, i, j.
 A. M. Byers Co., a, g.
 CBS Laboratories, Div.-Columbia Broadcasting Sys-
 tem, b, j.
 Capital City Mfg. Co., Inc., j.
 Carbone Corp., The, e, j.

Corning Glass Works, j.
 Custom Products Corp., f.
 Derby Castings Co., The, j.
 Dixon Corp., e.
 Dodge Mfg. Corp., a, g thru j.
 Elgin Micronics, West Coast Div.-Elgin National Watch Co., c.
 Ex-Cell-O Corp., g, i, j.
 Fafnir Bearing Co., The, a, b, f, g, i, j.
 Federal Bearings Co. Inc., The, a, i, j.
 Ford Instrument Co. Div.-Sperry Rand Corp., j.
 Freeman Co., The, f.
 Garlock Packing Co., e.
 General Electric Co., Apparatus Sales Div., c.
 General Plastics Corp., j.
 Gladding, McBean & Co., j.
 Graphite Metallizing Corp., e, i, j.
 Gries Reproducer Corp., j.
 Gwilliam Co., The, a, g, i, j.
 Hamilton Watch Co., Military Products Div., c.
 Hammett-Mercury-Rex Div., a, g, h.
 Hyatt Bearings Div., General Motors Corp., g, h, i.
 Walter K. Jaros Aircrafters, a thru g, i.
 Jaclin Mfg. Co., The, j.
 Kaydon Engrg. Corp., The, a, d, g, h, j.
 *KEARFOTT DIV., GENERAL PRECISION, INC., a, b, j.
 Hugo P. Keller, Jr., c.
 Kennometal Inc., e.
 Keystone Carbon Co., e, i.
 Kwikset Powdered Metal Products, e, j.
 Landis & Gyr, Inc., a, b, g, i, j.
 Lear, Inc., j.
 Link-Belt Co., a, g, i, j.
 Marlin Rockwell Corp., a, b, f, g, i, j.
 Mc Gill Mfg. Co. Inc., Bearing Div., a, d, g.
 Microtech Div., Federal-Mogul-Bower Bearings, Inc., b.
 Miniature Precision Bearings, Inc., a, b, i, j.
 Morgante, Inc., e, j.
 National Beryllium Corp., j.
 *NEW DEPARTURE DIV., GENERAL MOTORS CORP., a, b, i, j.
 New Hampshire Ball Bearings, Inc., b.
 Nice Ball Bearing Co., a, j.
 Norich Plastics Corp., j.
 Norrich Screw Machine Products, j.
 Ohio Carbon Co., The, j.
 Polymer Corp., The, e, j.
 Radial Bearing Corp., e, i, j.
 Randall Graphite Bearings, Inc., i, j.
 Raway Bearing Co., Inc., a, b, d, f, g, i, j.
 Research Development Mfg. Inc., j.
 J. R. Robbins Co., i.
 Rogers Corp., j.
 Roller Bearing Co. of America, d, g, i.
 Rollway Bearing Co., Inc., g, j.
 SKF Industries, Inc., a, b, g thru j.
 St. Marys Carbon Co., e, i, j.
 St. Regis Paper Co., Panelyte Div., e, i.
 Shafer Bearings, Chain Belt Co., f, g, i, j.
 Southwest Products Co., a, j.
 Split Ballbearing Div.-MPB, j.
 Springfield Brass Co., Inc.
 Squiers Gage Co., j.
 Stackpole Carbon Co., j.
 *STEPHENS ADAMSON MFG. CO., SEAL MASTER BEARING DIV., a, f, i.
 Swiss Jewel Co., c.
 Synthane Corp., a, j.
 Timken Roller Bearing Co., The, h.
 Torrington Co., The, a, d, g thru j.
 United Supply Co., a, b, d, f, g, h.
 Westinghouse Electric Corp., j.

BELLOWS

Aero Leather Products Co.
 Allied Plastics Supply Corp.
 Alloy Bellows Inc.
 American Potash & Chemical Corp., National Northern Div.
 American Tubing Co., Inc.
 Anaconda Metal Hose Div., The American Brass Co. Avaca Corp.
 Ballfab Corp., The
 Bendix Aviation Corp.
 *BENDIX AVIATION CORP., HAMILTON DIV.
 Breeze Corporations, Inc.
 Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co.
 Bulova Research & Development Labs., Inc.
 California Aircraft Products
 Cartriseal Corp.
 Chicago Gasket Co.
 Chicago Rawhide Mfg. Co.
 Components Corp.
 Emerson Plastics Corp.
 FAE Instrument Corp.
 Falcon Machine & Tool Co.
 Firestone Indsl. Products Co., Div.-Firestone Tire & Rubber Co.

Flexible Metal Hose Mfg. Co.
 Flexible Tubing Corp.
 Flexonics Corp.
 Flight Relueing, Inc.
 Gits Brothers Mfg. Co.
 Glasco Instrument Co.
 B. F. Goodrich Aviation Products
 Hallett Mfg. Co.
 Hanlon & Wilson Co., The
 Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
 Lear, Inc.
 Leemath Inc.
 Marman Div., Aeroquip Corp.
 Minnesota Rubber Co.
 J. J. Monaghan Co., Inc.
 Parts Engrg. Co., Inc.
 Resistoflox Corp.
 Robertshaw-Fulton Controls Co., Fulton Sylinder Div.
 Rubbercraft Corp. of California
 Seaman Products, Div.-Seaman Paper Co.
 Solar Aircraft Co.
 Southwest Products Co.
 Standard-Thomson Corp., Clifford Mfg. Co. Div.
 Tetrafluor, Inc.
 Trans-Sonics, Inc.
 Uni-Flex Mfg. & Engrg. Inc.
 United States Chemical Milling Corp.
 United States Rubber Co.
 Westport Development & Mfg. Co., Inc.

BELLS & BUZZERS

Cable Electric Products Inc.
 Eagle Electric Mfg. Co. Inc.
 *MARTIN CO., THE, DENVER DIV.
 Telkor, Inc.
 Wheelock Signals Inc.

BELTS, DIAL DRIVE

American Felt Co.
 Lear, Inc.
 A. T. Stevens Co.
 United States Rubber Co.

BERYLLIUM

Belmont Smelting & Refining Works, Inc.
 Belock Instrument Corp.
 Bios Labs., Inc.
 Bram Metallurgical Chemical Co.
 Bridgeport Brass Co.
 Brush Beryllium Co., The
 Budd Co., The
 City Chemical Corp.
 Custom Tool & Mfg. Co.
 Delta Chemical Works, Inc.
 Hammett-Mercury Rex Div.
 Hughes Tool Co., Aircraft Div.
 Kerns Mfg. Corp.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lycoming Div., Avco Corp.
 P. R. Mallory & Co. Inc.
 NUMEC Nuclear Materials & Equipment Corp.
 Rodney Metals Inc.
 Standard Pressed Steel Co.
 Stauffer Chemical Co.
 Sylvania Carning Nuclear Corp.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 United Mineral & Chemical Corp.
 Var-Lac-Oid Chemical Co.
 Wyman-Gordon Co.

BEZELS

Adept Industries Inc.
 Allied Plastics Supply Corp.
 Amatom Electronic Hardware Co. Inc.
 Anchor Metal Spinning Co., The
 Apahouser Corp. of N. E.
 Baird-Atomic, Inc.
 L. J. Barwood Mfg. Co. Inc.
 A. Biederman, Inc.
 Croname Inc.
 Jan Hardware Mfg. Co., Inc.
 Kling Metal Spinning & Stamping Co.
 Libroscope Div., General Precision, Inc.
 James Millen Mfg. Co. Inc.
 Penn Keystone Corp.
 Milton Ross Metals Co., The
 Sillocks-Miller Co.

BIMETALS, THERMOSTATIC

American Instrument Co., Inc.
 Bendix Aviation Corp.
 J. Bishop & Co., Platinum Works
 Bram Metallurgical Chemical Co.
 Bridgeport Brass Co.
 Carpenter Steel Co., The
 Chicago Development Corp.
 Engelhard Industries, Inc.
 Fansteel Metallurgical Corp.

Fasco Industries Inc.
 Texas Instruments Inc.

BINDERS, LIQUID

Food Machinery & Chemical Corp.-Epoxy Dept.
 B. F. Goodrich Chemical Co.
 *MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
 Monsanto Chemical Co.
 Philadelphia Quartz Co.

BINDING POSTS

Accurate Electronics Corp.
 Amatom Electronic Hardware Co. Inc.
 Bead Chain Mfg. Co., The
 Birnbach Radio Co., Inc.
 Federal Screw Products Inc.
 G-C Electronics Co.
 General Radio Co.
 Graphite Metallizing Corp.
 Grayhill, Inc.
 Hermetic Seal Corp.
 E. F. Johnson Co.
 Kings Electronics Co., Inc.
 Malco Mfg. Co.
 James Millen Mfg. Co. Inc.
 Molded Insulation Co.
 Norrich Screw Machine Products
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.
 Milton Ross Metals Co., The
 Standard Electric Time Co., The
 Superior Electric Co., The
 Whitco, Inc.

BINS

Aerocal Div., Aerona Mfg. Corp.
 American Conveyor Co.
 Anchor Metal Spinning Co., The
 Bethlehem Steel Co.
 S. Blickman, Inc.
 Corrugated Paper Products, Inc.
 Deluxe Metal Products Co.
 General American Transportation Corp.
 International Steel Co.
 Kirk & Blum Mfg. Co., The
 *MARTIN CO., THE, DENVER DIV.
 Nooter Corp.
 Republic Steel Corp.
 Stackbin Corp.
 Standard Pressed Steel Co.
 United Industries, Inc.
 United States Steel Corp.

BLADDERS, FUEL

Dilectrix Corp.
 General Plastics Corp.
 B. F. Goodrich Aviation Products
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Jaclin Mfg. Co., The
 McGreggor Mfg. Corp.
 *MINNESOTA MINING & MFG. CO.
 United States Rubber Co.

BLADES

a. Compressor
 b. Stator
 c. Turbine
 ABA Tool & Die Co., a, b, c.
 All American Engrg. Co., c.
 Allison Div., General Motors Corp., a, b, c.
 Austenal Co., Div. Howe Sound Co.-Microcast Products, a, b, c.
 Belmar Wheel & Machine Co., Inc., b.
 A. M. Byers Co., c.
 Calcor Corp.
 Christie Machine Works, c.
 Curtiss-Wright Corp., Metals Processing Div., a, b, c.
 Custom Tool & Mfg. Co., a, b, c.
 *DEL MAR ENGRG. LABS., c.
 Ex-Cell-O Corp., a, b, c.
 George Gorton Machine Co., a, b, c.
 Haynes Stellite Co., Div.-Union Carbide Corp., a, b, c.
 ITE Circuit Breaker Co., Special Products Div., a, b, c.
 Jarvis Corp., a, b, c.
 Kerns Mfg. Corp., a, b, c.
 Kolcast Industries-Div. Thompson Ramo Wooldridge Inc., a, b, c.
 Kwikset Powdered Metal Products, b.
 Ladish Co., a, b, c.
 Lapointe Machine Tool Co., The, a, b, c.
 Lycoming Div., Avco Corp., a, b.
 Napier Engines Inc., a, b, c.
 New England Aircraft Products Co., a, b, c.
 Portland Copper & Tank Works Inc., a, b, c.
 Prewitt Aircraft Co., a, b, c.
 Schellens-True Corp., a, b, c.
 Solar Aircraft Co., a, b, c.

Stalker Corp., The, a, b, c.
Steel Improvement & Forge, The
Structural Fibers, Inc., a, b, c.
T. O. D. Mfg. Co. Inc., c.
Tapco Group, Thompson Ramo Wooldridge Inc.,
a, b, c.
Thompson Ramo Wooldridge Inc., a, b, c.
Veet Industries, a, b, c.
Walbar Machine Products, Inc., a, c.
Westinghouse Electric Corp., a, b, c.
Whiton Machine Co., The, c.

BLAST DEFLECTOR, PADS & TUBES

*AEROJET-GENERAL CORP.
American Latex Products Corp.
American Machine & Foundry Co., Greenwich Engrg.
Div.
Anchor Metal Spinning Co., The
Beacon Steel Corp.
Bethlehem Steel Co.
A. M. Byers Co.
Calcor Corp.
Carborundum Co., The
Chicago Bridge & Iron Co.
Continental Diamond Fibre Corp.
Continental-Emco Co., Div.-The Youngstown Sheet
& Tube Co.
Daystrom, Inc., Military Electronics Div.
Food Machinery & Chemical Corp., Ordnance Div.
Guided Missile Div., The Firestone Tire & Rubber Co.
Kentucky Metal Products Co.
Lukens Steel Co.
Lycoming Div., Avco Corp.
Marquardt Corp., The
*MINNESOTA MINING & MFG. CO.
National Forge Co.
Opelika Welding, Machine & Supply Inc.
Pittsburgh Corning Corp.
Portland Copper & Tank Works Inc.
Prewitt Aircraft Co.
Swedlow Inc.
Thermon Mfg. Co.
U. S. Pipe & Foundry Co., Steel & Tubes Div.
United States Steel Corp.
Waco Aircraft Co.
Wells Industries Corp.

BLISTERS

Anchor Metal Spinning Co., The
Emeloid Co., Inc., The
*MARTIN CO., THE, DENVER DIV.
REF Mfg. Corp.
Sillcocks-Miller Co.
Texstar Plastics, Div.-The Texstar Corp.

BLOWERS

Accessory Controls & Equipment Corp.
Aero Supply Mfg. Inc.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Air-Marine Motors, Inc.
Amco Engrg. Co.
American Electronics, Inc.
American Standard Industrial Div.
Beacon Steel Corp.
Benson Mfg. Co.
Blowers Inc.
Bogue Electric Mfg. Co.
Breeze Corporations, Inc.
Bud Radio, Inc.
Budd Lewyt Electronics, Inc.
Clark Bros. Co., Div.-Dresser Operations, Inc.
Coppus Engrg. Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Joe Davidson & Associates
Dean & Benson Research, Div.-Benson Mfg. Co.
Detroit Stamping Co.
Diehl Mfg. Co.
Dynamic Air Engrg., Inc.
Eclipse Fuel Engrg. Co.
Eicor Div.-Scranton
Fuller Co.
Garden City Fan & Blower Co.
General American Transportation Corp.
Hammett-Mercury-Rex Div.
Heil Process Equipment Corp.
Highland Engrg. Co.
Holub Industries, Inc.
Hoover Electric Co.
ILG Electric Ventilating Co.
IMC Magnetics Corp.
Invincible Vacuum Cleaner Mfg. Co.
Joy Mfg. Co.
Lanson Corp., The
Leiman Brothers, Inc.
M-D Blowers, Inc.
*MARTIN CO., THE, DENVER DIV.
Martindale Electric Co.
McLean Engrg. Laboratories
Heinz Mueller Eng. Co. Inc.
Nevada Air Products Co.

John Oster Mfg. Co., Avionic Div.
Peerless Electric Div.-H. K. Porter Co., Inc.
Radex Corp.
Ripley Co., Inc.
Rorron Mfg. Co.
Schutte & Koering Co.
Small Motors Inc.
Solar Aircraft Corp.
Spencer Turbine Co.
Task Corp.
Torit Mfg. Co.
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
U. S. Industries, Inc.

BOARDS, CAPACITOR OR RESISTOR

Accurate Electronics Corp.
Belock Instrument Corp.
Chalco Engrg. Corp.
Consolidated Airborne Systems, Inc.
Corning Glass Works
Courter Products, Div.-Model Engrg. & Mfg., Inc.
Daystrom, Inc., Military Electronics Div.
Double E Products Co.
Excellex Electronics Inc.
Film Capacitors, Inc.
Graflex Inc.
Graphik Circuits, Div.-Cinch Mfg. Co.
George E. Harris & Co., Inc.
Keystone Electronics Corp.
Lycoming Div., Avco Corp.
*MARTIN CO., THE, DENVER DIV.
J. W. Miller Co.
*MINNESOTA MINING & MFG. CO.
Piasecki Aircraft Corp.
Precision Metal Products Co. Inc.
Projects Unlimited, Inc.
*RADIO CORP. OF AMERICA
*RADIO CORP. OF AMERICA, DEFENSE ELECTRON-
ICS PRODUCTS
Seaelectro Corp.
Satham Development Corp.
Telkor, Inc.
Westinghouse Electric Corp.

BOARDS, PLOTTING

Accurate Electronics Corp.
Aeronca Mfg. Corp.-Aerospace Div.
Belock Instrument Corp.
Bendix Aviation Corp.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Brooks & Perkins, Inc.
Budd Lewyt Electronics, Inc.
California Plastek Inc.
Daystrom, Inc., Military Electronics Div.
Allen B. Du Mont Labs, Inc.
Dura Plastics of N. Y., Inc.
Electro Instruments, Inc.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Ludwig Hanold Mfg. Co.
Libroscope Div., General Precision, Inc.
A. Lietz Co., The
Liton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Madigan Corp.
*MARTIN CO., THE, DENVER DIV.
Motorola, Inc.
Norrich Screw Machine Products
*RADIO CORP. OF AMERICA
Seaelectro Corp.
Servo Consultants Ltd.
Sillcocks-Miller Co.
Special Products Dept., Melpar, Inc.
Sunshine Scientific Instrument
Universal Unlimited, Inc.
Virginia Plak Co.

BOARDS, PLUG

Accurate Electronics Corp.
Brook Molding Corp.
Burndy Corp., Omaton Div.
Comco Plastics Inc.
Daystrom, Inc., Military Electronics Div.
Emerson Plastics Corp.
General Products Corp.
Graphik Circuits, Div.-Cinch Mfg. Co.
Hammett-Mercury-Rex Div.
Thomas J. Long, Inc.
Madigan Corp.
*MARTIN CO., THE, DENVER DIV.
Norrich Plastics Corp.
Norrich Screw Machine Products
*RADIO CORP. OF AMERICA
Seaelectro Corp.
Special Products Dept., Melpar, Inc.
Standard Electric Time Co., The
Vector Electronic Co., Inc.

BOBBINS, COIL WINDING

A. P. W. Co.

Bonny Mfg. Corp.
Christie Machine Works
Comca Plastics Inc.
Courter Products, Div.-Model Engrg. & Mfg., Inc.
Du-Co Ceramics Co.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Form-It Products, Inc.
Franklin Fibre-Lamitex Corp.
Garde Mfg. Co.
Gries Reproducer Corp.
Walter J. Hyatt Co., The
Hydro Molding Co. Inc.
Insulation Mfrs. Corp.
James Electronics, Inc.
Lamtex Industries Inc.
Leor, Inc.
Leetronics, Inc.
Thomas J. Long, Inc.
*MARTIN CO., THE, DENVER DIV.
James Millen Mfg. Co. Inc.
Molding Corp. of America
Mycalex Corp. of America
Norrich Plastics Corp.
Norrich Screw Machine Products
Plastic Age Sales, Inc.
Milton Ross Metals Co., The
Roy A. Scharer & Co.
Spaulding Fibre Co., Inc.
Stevens Products, Inc.
Stratfield Co., The
Tetrafluor, Inc.
Thor Ceramics, Inc.
Topper Mfg. Co., Inc.
U. E. Electronics Corp.
U. S. Plastic Molding Corp.
Waterbury Companies, Inc.
Westinghouse Electric Corp., Micarta Div.

BOBBINS, TRANSFORMER WINDING

Bonny Mfg. Corp.
Christie Machine Works
Emerson Plastics Corp.
Franklin Fibre-Lamitex Corp.
Garde Mfg. Co.
Hydro Molding Co. Inc.
Isolanite Mfg. Corp.
Lamtex Industries Inc.
*MARTIN CO., THE, DENVER DIV.
Norrich Plastics Corp.
Norrich Screw Machine Products
Milton Ross Metals Co., The
Stevens Products, Inc.
Stratfield Co., The
Thor Ceramics, Inc.
Topper Mfg. Co., Inc.
U. S. Plastic Molding Corp.
Waterbury Companies, Inc.
Westinghouse Electric Corp., Micarta Div.

BOLT CARTRIDGES, EXPLOSIVE

*AEROJET-GENERAL CORP.
Aerojet-General Corp., Downey Plant
American Potash & Chemical Corp., National North-
ern Div.
Armament Div.-Universal Match Corp.
Bermite Powder Co.
Joe Davidson & Associates
Gabriel Co., Rocket Power-Talco
Hercules Powder Co., Chemical Propulsion Div.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON
FEARLESS CORP.
Lithium Corp. of America Inc., The Fulton-Irgon Div.
*MARTIN CO., THE, DENVER DIV.
Mc Cormick Selpah Associates
Olin Mathieson Chemical Corp., N. Y.
Olin Mathieson Chemical Corp., Winchester-
Western Div.
Ordnance Research & Development Co., Div.-Bermite
Powder Co.
Propellux Chemical Div., Chromalloy Corp.
Roy A. Scharer & Co.
Thiakol Chemical Corp.
Tober Electronic Corp.

BOLTS, LOCK

Aero Bolt & Screw Co., Inc.
Aero Spars, Inc.
Airhardware, Inc.
All Specs Corp.
American Standard Products, Inc.
Bland Burner Co., The
Capital City Mfg. Co., Inc.
Chandler Products Corp.
Cherry River Div.-Townsend Co.
Continental Screw Co.
Eaton Mfg. Co., Reliance Div.
George E. Harris & Co., Inc.
Hi-Shear Rivet Tool Co.
Huck Mfg. Co.

Keystone Bolt & Nut Corp.
Mercury Air Parts Co., Inc.
National Screw & Mfg. Co., The
Nylak Corp., The
Ohlson Empire Inc.
Republic Steel Corp.
Standard Pressed Steel Co.
Star Stainless Screw Co.
Thompson-Brewer & Co. Div. American Machine & Laundry Co.
Tober Electronic Corp.
Townsend Co., Cherry Rivet Div.
Voi-Shan Mfg. Co., Div. Voi-Shan Industries, Inc.

BOLTS, SPADE

All Specs Corp.
Allmetal Screw Products Co., Inc.
Amatom Electronic Hardware Co. Inc.
Birnback Radio Co., Inc.
R. C. Dudek & Co.
Federal Screw Products Inc.
G-C Electronics Co.
H. M. Harper Co.
National Screw & Mfg. Co., The
Ohlson Empire Inc.
Tober Electronic Corp.

BOLTS, TOGGLE OR EXPANSION

Ackerman-Johnson Co.
Aero Spares, Inc.
All Specs Corp.
Alvo Nut & Bolt Co., Inc.
Arro Expansion Bolt Co.
Atlas Screw & Specialty Co.
Aviation Textile Associates
Capital City Mfg. Co., Inc.
Chase Brass & Copper Co., Inc.
Chicago Expansion Bolt Co.
Commercial Shearing & Stamping Co.
Continental Screw Co.
Federal Screw Products Inc.
Hammett-Mercury Rex Div.
Hi-Shear Rivet Tool Co.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Keystone Bolt & Nut Corp.
Manhattan Lighting Equipment Co., Inc.
Norrich Plastics Corp.
Ohlson Empire Inc.
Ravenna Metal Products, Div. Standard Screw Co.
Republic Steel Corp.

BONDING MATERIALS

Adhesive Engrg. Div. Hiller Aircraft Corp.
American Latex Products Corp.
Armstrong Cork Co.
Carl H. Biggs Co.
Bjorksten Research Labs. For Industry, Inc.
Borden Chemical Co.
Connecticut Hard Rubber Co., The
Corning Glass Works
Daystrom, Inc., Military Electronics Div.
Emerson & Cuming, Inc.
Farwest Mfg. Div., Inc.
Farane Plastics, Inc.
B. F. Goodrich Industrial Products Co.
Hastings Plastics, Inc.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Lamtex Industries Inc.
Lebec Chemical Corp.
*MARTIN CO., THE, DENVER DIV.
*MINNESOTA MINING & MFG. CO.
*MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
Mitchell Rand Mfg. Corp.
Norrich Plastics Corp.
Pioneer Industries Div., Almar, York Co. Inc.
Silicone Products Dept., General Electric Co., Dept. C.
Silicones Div.-Union Carbide Corp.
Synthane Corp.
Topper Mfg. Co., Inc.
Wasley Products, Inc.
Wesrep Corp.

BOOSTERS, GAS PRESSURE

Accessory Controls & Equipment Corp.
American Instrument Co., Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Clark Bros. Co., Div. Dresser Operations, Inc.
Cornell Deep Drawing Co., Div. Lames Industries Corp.
Eclipse Fuel Engrg. Co.
Gabriel Co., Rocket Power-Talco
Haskel Engrg. & Supply Co.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Joy Mfg. Co.
Kaiser Fleetwings, Inc.
Leimon Brothers, Inc.
Lycoming Div., Avco Corp.

*MARTIN CO., THE, DENVER DIV.
Pressed Steel Tank Co.
Propellex Chemical Div., Chromalloy Corp.
S P Mfg. Corp., The
Schutte & Koerting Co.
Southwest Research Institute
Weatherhead Co., The
Worthington Corp.

BOOSTERS, MISSILE, LIQUID FUELED

*AEROJET-GENERAL CORP.
Allison Div., General Motors Corp.
American Potash & Chemical Corp., National Northern Div.
Bell Aircraft Corp., Niagara Frontier Div.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bermite Powder Co.
A. M. Byers Co.
Douglas Aircraft Co., Inc.
General Electric Co., Rocket Engine Section
Guided Missile Div., The Firestone Tire & Rubber Co.
Haskel Engrg. & Supply Co.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Hydro-Aire Co., Div.-Crane Co.
Kaiser Fleetwings, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Lycoming Div., Avco Corp.
Marquardt Corp., The
Missile Div., North American Aviation, Inc.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Pratt & Whitney Aircraft Div., United Aircraft Corp.
Pressed Steel Tank Co.
Reynolds Metals Co., Shellfield Missile Plant
Southwest Research Institute
Spaceatomics Div., The Budd Co.

BOOSTERS, MISSILE, SOLID FUELED

*AEROJET-GENERAL CORP.
Allison Div., General Motors Corp.
Ancel Propulsion Inc.
American Car & Foundry Div., ACF Industries, Inc.
American Potash & Chemical Corp., National Northern Div.
Arde Portland, Inc.
Bell Aircraft Corp., Niagara Frontier Div.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bermite Powder Co.
Brunswick Balke Collender Co., The, Delense Products Div.
A. M. Byers Co.
Cosmic Instruments Inc.
Daystrom, Inc., Military Electronics Div.
Douglas Aircraft Co., Inc.
*EXCELCO DEVELOPMENTS INC.
Gabriel Co., Rocket Power-Talco
B. F. Goodrich Aviation Products
Goodyear Aircraft Corp.
Grand Central Rocket Co.
Hercules Powder Co., Chemical Propulsion Div.
Hicks Corp., The
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kaiser Fleetwings, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Lycoming Div., Avco Corp.
Marquardt Corp., The
Norrish Thermador Corp.
Olin Mathieson Chemical Corp., N. Y.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Pratt & Whitney Aircraft Div., United Aircraft Corp.
Pressed Steel Tank Co.
Propellex Chemical Div., Chromalloy Corp.
Solid Propulsion Ops., Rocketdyne Div., North American Aviation
Southwest Research Institute
Spaceatomics Div., The Budd Co.
Thickol Chemical Corp., Hunter-Bristol Div.
U. S. Pipe & Foundry Co., Steel & Tubes Div.
United States Steel Corp.
United Technology Corp.
Universal Moulded Products Corp.
Waste King Corp., Technical Products Div.
Young Development Div., Hercules Powder Co.

*MARTIN CO., THE, DENVER DIV.
Pressed Steel Tank Co.
Propellex Chemical Div., Chromalloy Corp.
S P Mfg. Corp., The
Schutte & Koerting Co.
Southwest Research Institute
Weatherhead Co., The
Worthington Corp.

BORON

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Potash & Chemical Corp.
American Potash & Chemical Corp., National Northern Div.
Bell Aircraft Corp., Niagara Frontier Div.
Bram Metallurgical Chemical Co.
Callery Chemical Co.
Delta Chemical Works, Inc.

General Electric Co., Rocket Engine Section
Olin Mathieson Chemical Corp., N. Y.
Semi-Elements, Inc.
Southwest Research Institute
Stauffer Chemical Co.
United Mineral & Chemical Corp.
Var-Lac-Oid Chemical Co.

BOXES

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Alpicat, Inc.
Althor Products
Arch Gear Works Inc.
Benson Mfg. Co.
Brooks & Perkins, Inc.
Bud Radio, Inc.
Calcor Corp.
California Stamping & Mfg. Co.
Clover Industries, Inc.
Commercial Services Co., Inc.
Corrugated Paper Products, Inc.
Cutler Metal Products Co.
Daak Aircraft Co. Inc.
Dura Plastics of N. Y., Inc.
George D. Ellis & Sons, Inc.
Elzee Metal Products Co., Inc.
Eubanks Industries, Inc.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Falstrom Co.
Farwell Metal Fabricating
General Box Co.
Goldman
Henry & Miller Industries, Inc.
Hinde & Dauch Div., West Virginia Pulp & Paper
International Steel Co.
Kirk & Blum Mfg. Co., The
Lyon Aircraft Services
J. E. Menough Co.
Metal Edge Industries
Muckle Mfg. Co.
Northeast Metals Industries, Inc.
Piasecki Aircraft Corp.
Pneumafit Corp.
Ravenna Metal Products, Div. Standard Screw Co.
Rmak, Inc.
Roberts Industries Inc.
Sillocks Miller Co.
Skydyne, Inc.
Stackbin Corp.
Standard Molding Corp.
Telkor, Inc.
Twin-Coach Co., Aircraft-Missiles
Twix Mfg. Co., Inc.
Unified Industries, Inc.
United States Chemical Milling Corp.
United States Steel Corp.
Victor Tool & Mfg., Inc.
Waco Aircraft Co.
Wesrep Corp.
Westhott Mfg. Inc.
Winder Aircraft Corp. of Florida

BOXES, JUNCTION

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Accurate Electronics Corp.
Aerostat Laboratories, Inc.
Artisan Metal Works Co.
Associated Co., Inc.
Bendix Aviation Corp.
Benico Engrg. Corp.
Brooks & Perkins, Inc.
Bud Radio, Inc.
Cable Electric Products Inc.
Chance Vought Aircraft, Inc.
Daven Co., The
Elzee Metal Products Co., Inc.
Engrg. Specialties
Falstrom Co.
Farwest Mfg. Div., Inc.
Flight Refueling, Inc.
Grimes Mfg. Co.
Guided Missile Div., The Firestone Tire & Rubber Co.
Heldor Mfg. Co., Inc.
Henry & Miller Industries, Inc.
Hoffman Engrg. Corp.
Hoover Electronics Co.
Indiana Gear Works, Inc.
International Electric Industries, Inc.
Janco Corp.
Javex Electronics
Kirk & Blum Mfg. Co., The
Koiton Electric Mfg. Co.
*LAVELLE AIRCRAFT CORP.
Lear, Inc.
Lycoming Div., Avco Corp.
Manhattan Lighting Equipment Co., Inc.
*MARTIN CO., THE, DENVER DIV.

Motorola, Inc.
Nelson Electric Mfg. Co.
Olympic Plastics Co., Inc.
Piasecki Aircraft Corp.
Pneumafil Corp.
REF Mfg. Corp.
Radio City Products Co. Inc.
Radio Condenser Co.
Skyline Electric & Mfg. Co.
Specialty Electronics Development Corp.
Telkor, Inc.
Tober Electronic Corp.
Twin Coach Co., Aircraft-Missiles
Waco Aircraft Co.
Westholt Mfg. Inc.
Winder Aircraft Corp. of Florida
Woolf Aircraft Products, Inc.

BOXES, STORAGE

A&P Metal Products Mfg. Corp.
American Car & Foundry Div., ACF Industries, Inc.
American Conveyor Co.
Benson Mfg. Co.
Brooks & Perkins, Inc.
California Stamping & Mfg. Co.
Clover Industries, Inc.
Commercial Services Co., Inc.
Culler Metal Products Co.
Deluxe Metal Products Co.
Dempster Brothers, Inc.
Doak Aircraft Co. Inc.
Dudwallen Mfg. Co., Inc., The
Eubanks Industries, Inc.
Falstrom Co.
Farwell Metal Fabricating
Gateway Products, Inc.
Goldsmen
Hammett-Mercury-Rex Div.
Hardman Tool & Engrg. Co.
Henry & Miller Industries, Inc.
International Steel Co.
Jeto, Inc.
Kellett Aircraft Corp.
Kirk & Blum Mfg. Co., The
***MARTIN CO., THE, DENVER DIV.**
Metal Edge Industries
Northrop Corp.
Piasecki Aircraft Corp.
Pneumafil Corp.
Prewitt Aircraft Co.
Pry Welding & Mfg., Inc.
REF Mfg. Corp.
Royal Jet, Div.-Royal Industries, Inc.
Skydyme, Inc.
Stackbin Corp.
Tober Electronic Corp.
Twin Coach Co., Aircraft-Missiles
Twix Mfg. Co., Inc.
Waco Aircraft Co.
Westholt Mfg. Inc.
Young & Rioux Woodworking Co., Inc.

BRACKETS, HARDWARE

ABA Tool & Die Co.
A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Adel Precision Products, Div.-General Metals Corp
Alden Products Co.
Allied Plastics Supply Corp.
Alpatec, Inc.
Amatom Electronic Hardware Co. Inc.
Anchor Metal Spinning Co., The
Artisan Metal Works Co.
Augat Brothers, Inc.
Wallace Barnes Div. Associated Spring Corp.
Belmar Wheel & Machine Co., Inc.
Benson Mfg. Co.
Bernco Engrg. Corp.
Brooks & Perkins, Inc.
Bruce Engrg. Co.
Bud Radio, Inc.
Burklyn Co.
California Stamping & Mfg. Co.
Dana Corp.
Doak Aircraft Co. Inc.
***EXCELCO DEVELOPMENTS INC.**
Flight Refueling, Inc.
General Logistics Div., Aeroquip Corp.
Hardman Tool & Engrg. Co.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kellogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.
Keystone Electronics Corp.
Leece-Neville Co., The
Malco Mfg. Co.
Marman Div., Aeroquip Corp.
***MARTIN CO., THE, DENVER DIV.**
Paul & Beekman, Inc.
Richard Philip Co.
Piasecki Aircraft Corp.
Precision Metal Products Co. Inc.

***RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.**
J. H. Sessions & Son
South River Metal Products Co., Inc.
Stanley-Judd Div.-The Stanley Works
TA Mfg. Corp.
T. O. D. Mfg. Co. Inc.
Tober Electronic Corp.
Vector Electronic Co., Inc.
Victor Tool & Mfg., Inc.
Waco Aircraft Co.
Winder Aircraft Corp. of Florida

BRACKETS, MOUNTING

ABA Tool & Die Co.
A & E Metal Specialties Inc.
A & P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Adel Precision Products, Div.-General Metals Corp.
Allied Plastics Supply Corp.
Alpatec, Inc.
Amatom Electronic Hardware Co. Inc.
Amco Engrg. Co.
American Conveyor Co.
Anchor Metal Spinning Co., The
Artisan Metal Works Co.
Augat Brothers, Inc.
B. H. Aircraft Co., Inc.
Wallace Barnes Div. Associated Spring Corp.
Belmar Wheel & Machine Co., Inc.
Benson Mfg. Co.
Bernco Engrg. Corp.
Brooks & Perkins, Inc.
Bruce Engrg. Co.
Bud Radio, Inc.
Burklyn Co.
California Stamping & Mfg. Co.
Commercial Shearing & Stamping Co.
Culler Metal Products Co.
Dana Corp.
Doak Aircraft Co. Inc.
***ENGIS EQUIPMENT CO.**
***EXCELCO DEVELOPMENTS INC.**
Flight Refueling, Inc.
General Logistics Div., Aeroquip Corp.
Hobson Brothers, Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kellett Aircraft Corp.
Kellogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.
Kirk & Blum Mfg. Co., The
Lear, Inc.
Leece-Neville Co., The
Link-Belt Co.
Lycoming Div., Avco Corp.
Malco Mfg. Co.
Marman Div., Aeroquip Corp.
***MARTIN CO., THE, DENVER DIV.**
Ohlson Empire Inc.
Paul & Beekman, Inc.
Richard Philip Co.
Piasecki Aircraft Corp.
Premier Metal Products Co.
Prewitt Aircraft Co.
REF Mfg. Corp.
Radio City Products Co. Inc.
Raybestos-Manhattan, Inc.
***RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.**
Regent Jack Mfg. Co., Inc.
Rimak, Inc.
South River Metal Products Co., Inc.
Stanley-Judd Div.-The Stanley Works
Stone City Products Co.
TA Mfg. Corp.
T. O. D. Mfg. Co. Inc.
Thomas & Betts Co., Inc., The
Tober Electronic Corp.
Twix Mfg. Co., Inc.
United Mfg. Co., The
Vector Electronic Co., Inc.
Victor Tool & Mfg., Inc.
Waco Aircraft Co.
Warren Components, Div.-El-Tronics, Inc.
Webb, Inc.
Winder Aircraft Corp. of Florida
Woolf Aircraft Products, Inc.

BRAKE CONTROL UNITS

Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Budd Co., The
General Electro-Mechanical Corp.
B. F. Goodrich Aviation Products
Guidance Controls Corp.
Hydra-Power Corp.
Hydraulic Research & Mfg. Co.
Hydro-Aire Co., Div.-Crane Co.
***MARTIN CO., THE, DENVER DIV.**
J. R. Robbins Co.
Ronson Hydraulic Units Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.

Thompson Ramo Wooldridge Inc.
United Mfg. Co., The
Western Design, Div.-U. S. Industries, Inc.
Westinghouse Air Brake Co., Industrial Products Div.
Westinghouse Electric Corp.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.

***AMERICAN STEEL FOUNDRIES, HAMMOND DIV., a thru d.**
Auto Specialties Mfg. Co., Inc., a thru d.
Autotronics Inc., b.
Bendix Aviation Corp., c, d.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., c, d.**
Budd Co., The
Clark Controller Co., The, a, b, c.
Joe Davidson & Associates, a, b.
Dial Products Co., a, b.
Dynamic Instrument Corp., b.
Eaton Mfg. Co., a, b.
Eicor Div.-Scranton, a, c.
FAE Instrument Corp., a, b, c.
Ford Instrument Co., Div.-Sperry Rand Corp., b.
General Electric Co., Apparatus Sales Div., a, b.
General Electro-Mechanical Corp., a, b.
B. F. Goodrich Aviation Products
Goodyear Tire & Rubber Co., The, Aviation Products Div., c, d.
Guidance Controls Corp., a, b, c.
Hammett-Mercury-Rex Div., a, b.
George E. Harris & Co., Inc., c.
Hobbs Mfg. Co., a, b.
Hoover Electric Co., a, b.
Hydra-Power Corp., d.
ITE Circuit Breaker Co., Special Products Div., b.
***KEARFOTT DIV., GENERAL PRECISION, INC., a, b.**
Kidde Aero-Space Div., Walter Kidde & Co., Inc., d.
Kollman Instrument Corp., Sub.-Standard Coil Products Co. Inc., a, b.
Lear, Inc., a, b.
Link-Belt Co., c.
Magtrol, Inc., a, b.
Radio Condenser Co., b.
Reeves Instrument Corp., b.
Robot Industries Inc., a, b, c.
Rockwell-Standard Corp., Brake Div., c, d.
Safety Electrical Equipment Corp., a, b, c.
Southwest Research Institute, c.
Technology Instrument Corp., b.
Trombetta Solenoid Corp., a, b, d.
United Mfg. Co., The, o, c.
U. S. Science Corp., Div.-Topp Industries, Inc., b.
Van Zelm Associates, Inc., c, d.
Vickers Inc., Electric Products Div., b.
Western Design, Div.-U. S. Industries, Inc., c.
Westinghouse Electric Corp., a, b.
Zurn Industries, Inc., a thru d.

BRAKESHOOES

ACF Industries Inc.
American Brake Shoe Co.
American Felt Co.
***AMERICAN STEEL FOUNDRIES, HAMMOND DIV.**
Auto Specialties Mfg. Co., Inc.
Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**

BRAKE DRUM

Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
B. F. Goodrich Aviation Products
Robot Industries Inc.
Southwest Research Institute
United Mfg. Co., The

BRAKE LININGS

American Brake Shoe Co.
American Felt Co.
Anchor Packing Co., The
Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
B. F. Goodrich Aviation Products
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Raybestos-Manhattan, Inc.
Russell Mfg. Co.
Southwest Research Institute
Thermoid Div.-H. K. Porter Co., Inc.
S. K. Wellman Co., The

BRAKES

- o. Electrical
- b. Magnetic
- c. Mechanical
- d. Pneumatic

Airborne Accessories Corp.
American Felt Co., c.
American Rectifier Corp., a.

B. F. Goodrich Aviation Products
Raybestos-Manhattan, Inc.
Southwest Research Institute

BRASS

American Brass Co., The
American Brazing Alloys Corp.
Ampco Metal, Inc.
Bohn Aluminum & Brass Corp.
Bond Metal Surplus Co.
Bram Metallurgical Chemical Co.
Bridgeport Brass Co.
Bristol Brass Corp., The
Custom Tool & Mfg. Co.
Electronic Parts Mfg. Co., Inc.
C. G. Hussey & Co., Div.-Copper Range Co.
Kwikset Powdered Metal Products
Laminated Shim Co., Inc.
National Copper & Smelting Co.
Olin Mathieson Chemical Corp., Metals Div.
Olin Mathieson Chemical Corp., N. Y.
Phelps Dodge Copper Products Corp.
Revere Copper & Brass Inc.
Roovers-Latsch Corp.
Scovill Mfg. Co.
Seymour Mfg. Co., The
Springfield Brass Co., Inc.
Titan Metal Mfg. Co., Div.-Cerro de Pasco Corp.
United Wire & Supply Corp.
Utility Brass & Copper Corp.

BRAZING ALLOYS

Alloys Unlimited Inc.
American Brass Co., The
American Brazing Alloys Corp.
Ampco Metal, Inc.
Engelhard Industries, Inc.
Eutectic Welding Alloys Corp.
Fusion Engrg.
General Electric Co., Metallurgical Products Dept.
Goldsmith Bros. Div., National Lead Co.
Handy & Harman
Hughes Tool Co., Aircraft Div.
Huntington Alloy Products Div.-The International
Nickel Co., Inc.
Kerns Mfg. Corp.
Leach & Gardner Co., Indsl. Div.
NUMEC-Nuclear Materials & Equipment Corp.
Rimat, Inc.
Solar Aircraft Co.
Texas Instruments Inc.
United Wire & Supply Corp.
Vac-Hyd Processing Corp.
Wall Colmonoy Corp., Stainless Processing Div.
Western Gold & Platinum Co.

BREADBOARD KITS, ELECTRONIC

Alden Products Co.
Associated Engineers, Inc.
Courter Products, Div.-Model Engrg. & Mfg., Inc.
FAE Instrument Corp.
General Instrument Corp., Defense & Engrg. Products
Group
Lifton Industries, Maryland Div.
Madigan Corp.
*MARTIN CO., THE, DENVER DIV.
National Co., Inc.
Rimat, Inc.
Sonex, Inc.
Specific Products
Transistor Electronics Corp.
Unified Industries, Inc.
Vector Electronic Co., Inc.

BREAK-AWAY MECHANISMS

Aerojet-General Corp., Downey Plant
Aeroquip Corp., Jackson Div.
American Latex Products Corp.
Bermite Powder Co.
Conax Corp.
Joe Davidson & Associates
Dayton Aircraft Products, Inc.
Gabriel Co., Rocket Power-Talco
Guidance Controls Corp.
Guided Missile Div., The Firestone Tire & Rubber Co.
B. H. Hadley, Inc.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON
FEARLESS CORP.
Lockheed Aircraft Corp., Missiles & Space Div.
Marman Div., Aeroquip Corp.
*MARTIN CO., THE, DENVER DIV.
Northrop Corp.
Ordnance Research & Development Co., Div.-Bermite
Powder Co.
Prapellex Chemical Div., Chromalloy Corp.
United Mfg. Co., The
Weatherhead Co., The
Weber Aircraft Corp.
Western Div., Aeroquip Corp.

BREAKERS, CIRCUIT

Aero Spares, Inc.
Airpax Electronics Inc., Cambridge Div.
Airpax Electronics Inc., Seminole Div.
Allis-Chalmers
General Electric Co., Apparatus Sales Div.
Hammett-Mercury-Rex Div.
George E. Harris & Co., Inc.
Heinemann Electric Co.
Leach Corp.
Lear, Inc.
*MARTIN CO., THE, DENVER DIV.
Mechanical Products, Inc.
Restron Labs, Inc.
Sangama Electric Co.
Shallcross Mfg. Co.
Texas Instruments Inc.
Westinghouse Electric Corp.

BREATHERS, ENGINE

Bendix Filter Div., Bendix Aviation Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Southwest Research Institute

BRIDGES

- Capacitance
- Cathode Interface Impedance
- Impedance
- Inductance
- Resistance
- RF
- Self-Balancing
- Standing Wave
- Synchra
- VHF
- Wheatstone

Aerovox Corp., a.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.,
f.
All Products Co., h.
Allegany Instrument Co., Inc., k.
Arioux Corp., e, k.
Associated Engineers, Inc., c, d.
Astro Tech, e, k.
Avien, Inc., a, g.
B & F Instruments, Inc., g.
Barnes Development Co., e, k.
James G. Biddle Co., e.
Boonton Electronics Corp., a, d.
Briggs Associates, Inc., b.
*BRISTOL CO., THE
Bruno-New York Industries Corp., f.
Brunswick Instruments, e, g.
Bytrec Corp., g.
Clegg Labs., Div.-Clegg, Inc., a thru e.
Consolidated Airborne Systems, Inc., a, c, d, e, g, i.
Datascan Inc., a.
Daven Co., The, e.
Daystrom Inc., Weston Instruments Div., g.
Decker Corp., The, a, f.
Dytronics Co., a, c, d, e.
Electro Instruments, Inc., a, c, d, e.
Electro Scientific Industries, a, c, d, e, i, k.
Electronic Applications, Inc., a, c, d, e, h, k.
Epic, Inc., a, d, e, k.
Erdco Engrg. Corp., a.
Freed Transformer Co., Inc., a, d.
General Communication Co., f, g.
General Electric Co., Apparatus Sales Div., k.
General Radio Co., a, c thru h, j, k.
Gulon Instrument Co., e, i, k.
Horton Industries, Inc., a.
Hammett-Mercury-Rex Div., d, e, f, i, j, k.
Hewlett-Packard Co., c, j.
Hickory Electrical Instrument Co., The, a, d.
Industrial Control Co., a, g.
Industrial Instruments Inc., a, c, e, k.
Instrument Div., The Budd Co., e.
International Steel Co.
E. F. Johnson Co., h.
Kahn & Co., Inc., a, e, k.
Kanarr Corp., k.
*KEARFOTT DIV., GENERAL PRECISION, INC., c, e,
i, k.

Keithley Instruments, Inc., e.
Wayne Kerr Corp., a, c thru f, j.
Leeds & Northrup Co., a, d, e, g, k.
Liquidometer Corp., The, g.
Mac Lead & Hanopol, Inc., a.
Marconi Instruments, a, c thru f, j.
*MARTIN CO., THE, DENVER DIV., a thru k.
James Millen Mfg. Co., Inc., c, f, h.
Millistep Corp., e.
Muirhead Instruments Inc., a, c, d, e, i, k.
Narda Microwave Corp., The, c.
New England Scientific Instruments Co., a, c, e, k.
Northrop Corp.
Paco Electronics Co., Inc., a, e.
Performance Measurements Co., e, i.
Pimex, Inc., k.

Precision Apparatus Co., Inc., a, b, e.
Radalab Inc., f, h, j, k.
Radio City Products Co. Inc., e.
*RADIO CORP. OF AMERICA, a thru k.
Rinco, Inc., a, c, d, e, k.
Shallcross Mfg. Co., e, k.
Sierra Electronic Corp., Div.-Philco Corp., f.
Southwestern Industrial Electronics Co., a, c, d, e.
Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp., h.
Standard Electronics Div.-Reeves Instrument Corp.,
f, j.
Herman H. Sticht Co., Inc., e, k.
H. W. Sullivan Ltd., a, c, d, e, k.
B. K. Sweeney Mfg. Co., a.
Taffet Electronics, Inc., a, c, d, e.
Tamar Electronics, Inc., f.
Technology Instrument Corp., a, c, d, e.
Teletone Mfg. Corp., e, g.
Telectro Industries Corp., a, c, d.
Theta Instrument Corp., i.
Transformers, Inc., c, d.
Trans-Sonics, Inc., e.
Varo Mfg. Co., Inc., i.
Virginia Electronics Co., Inc., a, c, d, e.
Waters Mfg., Inc., b, c, d.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.,
k.
Winder Aircraft Corp. of Florida, c, d, e.

BRONZE

American Brake Shoe Co.
American Brass Co., The
American Brazing Alloys Corp.
American Smelting & Refining Co.
Ampco Metal, Inc.
Amplex Div.-Chrysler Corp.
Allos Brass Foundry
Barium Metals Corp.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical Chemical Co.
Bridgeport Brass Co.
Bristol Brass Corp., The
Bunting Brass & Bronze Co., The
Chase Brass & Copper Co., Inc.
Custom Tool & Mfg. Co.
Derby Castings Co., The
Kwikset Powdered Metal Products
Olin Mathieson Chemical Corp., N. Y.
Phelps Dodge Copper Products Corp.
Revere Copper & Brass Inc.
Saginaw Bearing Co.
Scovill Mfg. Co.
Seymour Mfg. Co., The
Shenango Furnace Co., The, Centrifugally Cast Pro-
ducts Div.
Springfield Brass Co., Inc.
Titan Metal Mfg. Co., Div.-Cerro de Pasco Corp.
Utility Brass & Copper Corp.
Var-Lac-Oid Chemical Co.

BRONZE, PHOSPHOR

American Brake Shoe Co.
American Brass Co.
The American Brazing Alloys Corp.
American Smelting & Refining Co.
Ampco Metal, Inc.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical Chemical Co.
Bridgeport Brass Co.
Bristol Brass Corp., The
Bunting Brass & Bronze Co., The
Chase Brass & Copper Co., Inc.
Derby Castings Co., The
Olin Mathieson Chemical Corp.-Metals Div.
Phelps Dodge Copper Products Corp.
Revere Copper & Brass Inc.
Rodney Metals Inc.
Scovill Mfg. Co.
Seymour Mfg. Co., The
Shenango Furnace Co., The, Centrifugally Cast Pro-
ducts Div.
Utility Brass & Copper Corp.

BRUSHES, MOTOR

Carbone Corp., The
Joe Davidson & Associates
Eagle Electric Mfg. Co. Inc.
Gibson Electric Co.
Graphite Metallizing Corp.
Hammett-Mercury-Rex Div.
Hanson-Van Winkle-Munning Co.
Helwig Carbon Products, Inc.
Keystone Carbon Co.
Lear, Inc.
Heinz Mueller Engr. Co. Inc.
National Carbon Co., Div.-Union Carbide Corp.
J. M. Ney Co., The
Ohio Carbon Co., The
Pacific Scientific Co.

St. Marys Carbon Co.
Stackpole Carbon Co.
Superior Carbon Products Inc.
United States Graphite Co., The, Div.-The Wickes Corp.
Westinghouse Electric Corp.

BRUSHES, SOUND REPRODUCTION EQUIPMENT

Airflyte Electronics Co.
Carbone Corp., The
*MARTIN CO., THE, DENVER DIV.

BUFFERS & GRINDERS

Fisher Scientific Co.
Hanson-Van Winkle-Munning Co.
Merit Products Inc.
*MINNESOTA MINING & MFG. CO.
Schlegel Mfg. Co.
U. S. Electrical Tool Co.
Wyzenbeek & Staff, Inc.

BULBS, TEMPERATURE RESISTANT

Barber-Colman Co.
*BRISTOL CO., THE
Corning Glass Works
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co.
Leor, Inc.
Leads & Northrup Co.
Rosemount Engrg. Co.
Trans-Sonics, Inc.
Westinghouse Electric Corp.

BUSHINGS

*ACE DRILL BUSHING CO. INC.
Acme Industrial Co.
Aero Bolt & Screw Co., Inc.
Aero Spares, Inc.
Alite Div., U. S. Stoneware Co.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Brake Shoe Co.
American Felt Co.
American Standard Products, Inc.
*AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
Ampeco Metal, Inc.
Amplex Div.-Chrysler Corp.
Atlas Brass Foundry
Bearing Metals Corp.
Beemer Engrg. Co.
Bergen Carbide Co.
Birnback Radio Co., Inc.
Bonny Mfg. Corp.
Bruce Engrg. Co.
Buchanan Electrical Products Corp.
Bunting Brass & Bronze Co., The
Bushings, Inc.
California Stamping & Mfg. Co.
Derby Castings Co., The
Du-Co Ceramics Co.
Eagle Electric Mfg. Co. Inc.
Emerson Plastics Corp.
Ex-Cell-O Corp.
Federal Screw Products Inc.
Flight Refueling, Inc.
Graphite Metallizing Corp.
Heyman Mfg. Co.
Honti Engrg. & Mfg. Co.
Jan Hardware Mfg. Co., Inc.
Joelin Mfg. Co., The
Kelleit Aircraft Corp.
Kennebmet Inc.
Keystone Carbon Co.
Keystone Electronics Corp.
Kwikset Powdered Metal Products
Lapp Insulator Co., Inc., Radio Specialties Div.
Leor, Inc.
Link-Belt Co.
*MARTIN CO., THE, DENVER DIV.
Metal Carbides Corp.
Norrich Plastics Corp.
Norrich Screw Machine Products
Ohio Carbon Co., The
Ohlson Empire Inc.
Richard Philip Co.
Polymer Corp., The
Randall Graphite Bearings, Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Research Development Mfg. Inc.
Saginaw Bearing Co.
Shenango Furnace Co., The, Centrifugally Cast Products Div.
Sinclair Mfg. Co.
C. M. Smillie & Co.
Southwest Products Co.
Springfield Brass Co., Inc.
Stevens Co. Inc.
Superior Industrial Machine Co.
Thor Ceramics, Inc.
Waterbury Companies, Inc.

Wilmington Fibre Specialty Co.

BUSHINGS, HERMETIC

A. P. M. Corp.
Alite Div., U. S. Stoneware Co.
Arnoux Corp.
Bonny Mfg. Corp.
Carborundum Co., The
Ceramaeol, Inc.
Cosmic Instruments Inc.
Hermetic Seal Corp.
Honti Engrg. & Mfg. Co.
Joelin Mfg. Co., The
Lapp Insulator Co., Inc., Radio Specialties Div.
Mitronics Inc.
Norrich Plastics Corp.
Norrich Screw Machine Products
Ravenna Metal Products, Div.-Standard Screw Co.
Sphere Co. Inc., The
Thor Ceramics, Inc.
Torwico Electronics, Inc.

BUSHINGS, METALLIC

Acme Industrial Co.
Aero Bolt & Screw Co., Inc.
Aero Mfg. & Mach. Co., Inc.
Aero Spares, Inc.
Aetna Ball & Roller Bearing Co., Div.-Parkersburg-Aetna Corp.
Airhardware, Inc.
Alite Div., U. S. Stoneware Co.
American Brake Shoe Co.
American Standard Products, Inc.
*AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
Ampeco Metal, Inc.
Amplex Div.-Chrysler Corp.
Atlas Brass Foundry
Bearing Metals Corp.
Beemer Engrg. Co.
Belmont Smelting & Refining Works, Inc.
Bendix Filter Div., Bendix Aviation Corp.
Birnback Radio Co., Inc.
J. Bishop & Co., Platinum Works
Bohn Aluminum & Brass Corp.
Boston Gear Works
Bunting Brass & Bronze Co., The
California Stamping & Mfg. Co.
Chase Brass & Copper Co., Inc.
Collins Mfg. Corp.
Derby Castings Co., The
Division Lead Co.
R. C. Dudek & Co.
Electric Steel Foundry Co.
Ex-Cell-O Corp.
Federal Screw Products Inc.
Graphite Metallizing Corp.
B. H. Hadley, Inc.
Heli-Coil Corp.
Honti Engrg. & Mfg. Co.
Kelleit Aircraft Corp.
Keystone Carbon Co.
Keystone Electronics Corp.
Leor, Inc.
*MARTIN CO., THE, DENVER DIV.
Morganite, Inc.
Norrich Plastics Corp.
Norrich Screw Machine Products
Ohlson Empire Inc.
Richard Philip Co.
Precision Metal Products Co. Inc.
Randall Graphite Bearings, Inc.
Rattan Mfg. Co., The
Ravenna Metal Products, Div.-Standard Screw Co.
Research Development Mfg. Inc.
J. R. Robbins Co.
Roller Bearing Co. of America
St. Marys Carbon Co.
Shenango Furnace Co., The, Centrifugally Cast Products Div.
Sinclair Mfg. Co.
C. M. Smillie & Co.
Southwest Products Co.
Springfield Brass Co., Inc.
Stevens Co. Inc.
Superior Industrial Machine Co.
Thomas & Betts Co., Inc., The
Thor Ceramics, Inc.
True Alloys Inc.
United States Graphite Co., The, Div.-The Wickes Corp.
Victor Tool & Mfg., Inc.
Wrought Washer Mfg. Co.

BUSHINGS, NON METALLIC

Ace Plastic Co.
Acme Industrial Co.
Aero Bolt & Screw Co., Inc.
Aero Spares, Inc.
Alite Div., U. S. Stoneware Co.
Allied Plastics Supply Corp.

Amatom Electronic Hardware Co. Inc.
American Brake Shoe Co.
American Felt Co.
American Latex Products Corp.
American Standard Products, Inc.
Anti-Corrosive Metal Products Co., Inc.
Auburn Mfg. Co., The
Beemer Engrg. Co.
Bergen Carbide Co.
Birnback Radio Co., Inc.
Bonny Mfg. Corp.
Bushings, Inc.
Calinoy-Div.-Illinois Tool Works
Carbone Corp., The
Carborundum Co., The
Chemplast, Inc.
Comco Plastics Inc.
Continental Rubber Works
Deil Optics Co., Ltd.
Duramic Products, Inc.
Eagle Electric Mfg. Co. Inc.
Emerson Plastics Corp.
Ex-Cell-O Corp.
Franklin Fibre-Lamitex Corp.
Frenchtown Porcelain Co.
General Gasket Inc.
General Plastics Corp.
Gits Brothers Mfg. Co.
Gladding, McBean & Co.
Goshen Rubber Co., Inc.
Graphite Metallizing Corp.
Gries Reproducer Corp.
Heyman Mfg. Co.
Honti Engrg. & Mfg. Co.
Insulation Mfrs. Corp.
Isolanite Mfg. Corp.
Joelin Mfg. Co., The
Keystone Electronics Corp.
M. Kirchberger & Co., Inc.
Lapp Insulator Co., Inc., Radio Specialties Div.
*MARTIN CO., THE, DENVER DIV.
Mico Insulator Div.-Minnesota Mining & Mfg. Co.
James Millen Mfg. Co. Inc.
*MINNESOTA MINING & MFG. CO.
Morganite, Inc.
National Carbon Co., Div.-Union Carbide Corp.
Norrich Plastics Corp.
Norrich Screw Machine Products
Ohio Carbon Co., The
Polymer Corp., The
Ratan Mfg. Co., The
Ravenna Metal Products, Div.-Standard Screw Co.
Refractories Div., The, Ferro Corp., Louthan Plant
J. R. Robbins Co.
Roberts Toledo Rubber Co., The
Rogers Corp.
Rubbercraft Corp. of California
St. Marys Carbon Co.
Ray A. Scharer & Co.
Sinclair Mfg. Co.
Southern Plastics Co.
Southwest Products Co.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co.
Spaulding Fibre Co., Inc.
Sphere Co. Inc., The
Stackpole Carbon Co.
Superior Seatite & Ceramic Corp.
Synthane Corp.
Tetrafluor, Inc.
Thomas & Betts Co., Inc., The
Thor Ceramics, Inc.
Torwico Electronics, Inc.
United States Graphite Co., The, Div.-The Wickes Corp.
Victor Tool & Mfg., Inc.
Wilmington Fibre Specialty Co.
Zirconium Corp. of America

CABINETS

- Metal
- Plastic
- Speaker
- Temperature Test
- Wood

A & E Metal Specialties Inc., a.
A&P Metal Products Mfg. Corp., a.
Abalon Precision Mfg. Corp., a.
Aerocal Div., Aeronca Mfg. Corp., a.
Aerol Products Co., Inc., a.
Aircraft Armaments, Inc., a.
Albano Co. Inc., a.
Alden Products Co., a.
Allen Electric & Equipment Co., a.
Allied Plastics Supply Corp., b.
Alptec, Inc., a.
Althor Products, b.
Aluminum Co. of America, a.
Amco Engrg. Co., a.
American Agile Corp., b.
American Aluminum Co., a.
American Beryllium Co., a.

American Electronics Inc., Teller-Cooper Div. & Data Systems Div., a.
 American Insulator Corp., b.
 American Latex Products Corp., b.
 American Machine & Foundry Co., Government Products Group, a.
 American Machine & Foundry Co., Government Products, N. Y., a, b, d.
 American Research Group
 Anchor Metal Spinning Co., The, a.
 Anchor Specialty Mfg. Co. Inc., a, b, d, e.
 Apex Reinforced Plastics, Div.-White Sewing Machine Corp., b.
 Applied Design Co., a.
 Armament Div.-Universal Match Corp., o.
 Aro Equipment Corp., The, d.
 Artisan Metal Works Co., a.
 Associated Engineers, Inc., a.
 Associated Testing Labs., Inc., d.
 Atkins & Merrill, Inc., b.
 Atlas Engrg. Corp., d.
 Atlas Sound Corp., c.
 Auto-Control Labs. Inc., a, d.
 Babco Mfg. Inc., o, c.
 Basic Tool Industries, Inc., a.
 Beacon Steel Corp., a.
 Bell Aircraft Corp., Niagara Frontier Div., a.
 Belmar Wheel & Machine Co., Inc., a, c.
 Benson Mfg. Co., o.
 J. F. Bingham Mfg. Co., o.
 S. Blickman, Inc., o.
 Blue M Electric Co., d.
 Bawser, Inc., o.
 Brooks & Perkins, Inc., a.
 Brunswick Balke Collender Co., The, Defense Products Div., b.
 Bud Radio, Inc., o, c.
 Budd Lewyt Electronics, Inc., o.
 Burton Rodgers, Inc., o, b, e.
 Calcor Corp., a.
 California Stamping & Mfg. Co., o.
 Cincinnati Sub Zero Products, d.
 Cole Electric Co., a.
 Colonial Aircraft Corp., a.
 Conco Plastics Inc., b.
 Conrad & Moser, o.
 Craig Systems, Inc., a.
 Crane Co., Special Products Div., a.
 Croname, Inc., o, c.
 Cutler Metal Products Co., a, c.
 Dahlstrom Metallic Door Co., o.
 Daystrom, Inc., Military Electronics Div., a.
 Deluxe Metal Products Co., a.
 Devco Engrg. Inc., o.
 Development Engrg. Co., Inc., d.
 Doak Aircraft Co. Inc., a, b.
 Donnelly Mfg. Co., o.
 Douglas Aircraft Co., Inc., a.
 Durawallen Mfg. Co., Inc., The, a.
 Dura Plastics of N. Y., Inc., b.
 Eljay Corp., b.
 Elzeem Metal Products Co., Inc., o.
 Emeloid Co., Inc., The, b.
 Erie Resistor Corp., b.
 Exbanks Industries, Inc., b.
***EXCELCO DEVELOPMENTS INC., a.**
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp., o, b.
 Falstrom Co., a.
 Farwell Metal Fabricating, a.
 Flight Refueling, Inc., o.
 Fouch Electric Mfg. Co., Inc., a.
 Gardner Laboratory, Inc., d.
 Gates Radio Co., o.
 Gatewood Products, Inc., e.
 General American Transportation Corp., b.
 General Bronze Electronics Corp., a.
 General Metal Products Co., a.
 Goldsman, e.
 Gremco, Inc., a.
 Guardite Co., Div.-American-Marietta Co., d.
 Halliburton, Inc., Mfg. Div., a.
 Hardman Tool & Engrg., Co., a, b.
 Harris Refrigeration Co., d.
 Helder Mfg. Co., Inc., a.
 Henry & Miller Industries, Inc., a.
 Hoffman Engrg. Corp., o.
***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP., a.**
 Ludwig Honold Mfg. Co., o.
 Houston Fearless Corp., o.
 Hydroforming Co. of America Inc., a.
 Industrial Acoustics Co., Inc., a.
 Industrial Engrg. Corp., a.
 International Steel Co., o, d.
***ITEMCO, INC., d.**
 Jeta, Inc., o.
 Kelleit Aircraft Corp., a, e.
 Kelsey-Hayes Co., a.
 Kerrco, b.
 Alfred B. King Co., The, o.

Kirk & Blum Mfg. Co., The, o.
 Lamtex Industries Inc., b.
 Lancaster Glass Corp., b.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., a.
***LAVELLE AIRCRAFT CORP., a.**
 Lolstrand Co., The, o.
 Lone Star Plastics Co. Inc., b.
 Lunn Laminates, Inc., b.
 R. H. Lynch Mfg. Co., o.
 Lyon Metal Products, Inc., a.
 MEG Products, Div.-Mandrel Industries, Inc., a.
 Magee-Bralla & Associates, a, b, d.
 Magnesium Co. of America, a.
***MARTIN CO., THE, DENVER DIV., a, d.**
 McCathron Boiler Works Co., Inc., o.
 McGregor Mfg. Corp., a.
 Meridian Metalcraft, Inc., a.
 Metal Fabricators Corp., o.
 Mid-West Metal Products, Inc., o.
 Molded Insulation Co., b.
 Monrovia Aviation Corp., a.
 Muckle Mfg. Co., a.
 Mullenbach Div.-Electric Machinery Mfg. Co., a.
 Murphy & Miller Inc., d.
 George L. Nankervis Co., o.
 Narco Mfg. Co., b.
 National Co., Inc., a.
 Navigation Computer Corp., a.
 Nevada Air Products Co., a.
 Northeast Metals Industries, Inc., o.
 Northeastern Engrg. Inc., a.
 Northrop Corp., o, b.
 Olympic Plastics Co., Inc., b.
 P. B. R. Mfg. Co., o.
 Parkway Specialties Co., c.
 Parsons Corp., Special Products Div., b.
 Permaflux Products Co., c.
 Piasecki Aircraft Corp., o.
 Plastic Age Sales, Inc., b.
 Pneumafil Corp., a.
 Portland Copper & Tank Works Inc., a.
 J. J. Powers Co., c.
 Premier Metal Products Co., o, c.
 Prewitt Aircraft Co., b.
 Projects Unlimited, Inc., o.
 Protectoseal Co., The, o.
 Fry Welding & Mfg., Inc., a.
 REF Mfg. Corp., a, b.
 Radiophone Co. Inc., o.
 Radio City Products Co. Inc., a.
 Ravenna Metal Products, Div.-Standard Screw Co., a, d.
 Republic Steel Corp., a.
 Rimak, Inc., o, c, d.
 Roberts Industries Inc., e.
 Milton Ross Metals Co., The, b.
 Santa Anita Engrg. Co., a.
 H. M. Scott Co., The, b.
 Sheltered Workshops, a, c, e.
 Skydne, Inc., o, b, e.
 Skyline Electric & Mfg. Co., a.
 Lyline Products, Inc., a.
 L. B. Smith Aircraft Corp., o, e.
 Southwestern Industrial Electronics Co., a.
 Standard Cabinet Co., Inc., d.
 Standard Pressed Steel Co., a.
 State Testing Laboratory Inc., d.
 Stromberg-Carlson Div.-General Dynamics Corp., c.
 Structural Fibers, Inc., b.
 Sun Electric Corp., Aeronautical Div., o.
 T. O. D. Mfg. Co. Inc., a, e.
 Technical Material Corp., The, o, c.
 Technical Products Co., a.
 Telkor, Inc., a.
 Temperature Engrg. Corp., d.
 Templet Industries Inc., a.
 Tenney Engrg., Inc., d.
 Textstar Plastics, Div.-The Textstar Corp., b.
 Thermon Mfg. Co., d.
 Twin Coach Co., Aircraft-Missiles, a, b, e.
 Twix Mfg. Co., Inc., a.
 Unified Industries, Inc., a, c.
 United Aircraft Products, Inc., a, d.
 United Mfg. Co., Div., The W. L. Maxson Corp., o.
 U. S. Plastic Molding Corp., b.
 U. S. Science Corp., Div.-Topp Industries, Inc., o.
 United States Chemical Milling Corp., o, b.
 United States Testing Co., Inc., d.
 Universal Unlimited, Inc., b.
 University Loudspeakers, Inc., c, e.
 Victor Tool & Mfg., Inc., a.
 Waco Aircraft Co., o.
 Washington Aluminum Co., Inc., a.
 Wasley Products, Inc., o.
 Waterbury Companies, Inc., b.
 Webber Engrg. Corp., d.
 Webber Mfg. Co., Inc., d.
 Weber Aircraft Corp., o.
 Welded Construction Inc., o.
 Wells Industries Corp., o.

Wenzlau Engrg. Co., a.
 Westholt Mfg. Inc., a.
 Wickes Engrg. & Construction Co., a.
 Winder Aircraft Corp. of Florida, a, b.
 Wolverine Diesel Power Co., a, b.
 Wyco Metal Products, a.
 Young & Rioux Woodworking Co., Inc., e.
 Zero Mfg. Co., a, d.

CABLE

- a. Antenna Transmission
- b. Clamps & Clips
- c. Coaxial Flexible
- d. Coaxial Rigid
- e. Control
- f. Delay
- g. Disconnects
- h. Flat Woven Ground
- i. Guards
- j. Guillatines
- k. Hangars
- l. High Temperature Coaxial
- m. Ignition
- n. Markers
- a. Microphone
- p. Shielded
- q. Solid Dielectric
- r. Splicers
- s. Tensioners
- t. Transmission Line

Abalon Precision Mfg. Corp., b, k.
 Acromark Co., The, n.
 Actioncraft Products, n.
 Adept Industries Inc., n.
 Aero Bolt & Screw Co., Inc, b.
 Aerolite Electronics Corp., b.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., c, g, l, m, p.**
 Airhardware, Inc., b.
 Alden Products Co., g, p.
 All Products Co., o.
 Allison Steel Mfg. Co., d.
 Alpha Wire Corp., o, p.
 Aluminum Co. of America, p, t.
 Amatom Electronic Hardware Co. Inc., b.
 American Chain & Cable Co., Inc., t.
 American Electric Cable Co., c, m, a, p.
 American Lotex Products Corp., t.
 American Machine & Foundry Co., j.
 American Potash & Chemical Corp., National Northern Div., g, m.
 American Steel & Wire Div.-United States Steel Corp., e.
 American Super-Temperature Wires, Inc., c, e, l, p, q, t.
 American Tube Bending Co., Inc., o, c, l.
 Anaconda Wire & Cable Co., o thru e, l thru q, t.
***ANDREW CORP., a, c, d, k, q, t.**
 Ansonia Wire & Cable Co., The, a, c, d, e, m, p, q, r.
 Associated Co., Inc., e, g, p.
 Augat Brothers, Inc., b.
 Automotive & Aircraft Div.-American Chain & Cable Co., Inc., e.
 Avco Corp., Crosley Div., e, g.
 Balden Mfg. Co., c, e, h, a, p, t.
 Belmar Wheel & Machine Co., Inc., b, i, k, p.
 Bendix Aviation Corp., g.
 Bendix Aviation Corp., Cincinnati Div., e, m, p.
 Bergen Wire Rope Co., o, b, e.
 Berkshire Electric Cable co., c, d, a, p, q.
 Bermite Powder Co., m.
 Birnbach Radio Co., Inc., a, b, c, l, m, a, p, t.
 Bjorksten Research Labs. for Industry, Inc.
 Boston Insulated Wire & Cable Co., c.
 W. H. Brady Co., n.
 William Brand, Rex Div.-American Enka Corp., o, c thru f, n thru q, t.
 Breeze Corporations, Inc., h.
 H. H. Buggie Div., Burdy Corp., b, g.
 Burdy Corp., Omaton Div., b, g, k, r.
 Butler Mfg. Co., o thru i.
 Cable Electric Products Inc., c, e, p.
 Cal Connector Co., b, g.
 Calcon Mfg. Co., Inc., o, c, e, l, o, p, q, t.
 Chance Vought Aircraft, Inc., o.
 Chester Cable Corp., Sub.-Miami Copper Co., c, d, e, l, m, a, p, q, t.
 Collyer Insulated Wire Co., e.
 Columbia Technical Corp., f.
 Continental Wire Sales Corp., c, d, e.
 Co-Operative Industries, Inc., m.
 Copperweld Steel Co., Wire & Cable Div., k.
 Cornish Wire Co. Inc., o, p.
 Cosmic Instruments Inc., b, c.
 R. E. Darling Co., Inc., a, p.
 Dayton Aircraft Products, Inc., o.
***DEL MAR ENGRG. LABS., j.**
 Deutsch Co., The, Electronic Components Div., b, g.
 Don-Lan Electronics Inc., o, c, d, g.
 Douglas Aircraft Co., Inc., c.
 Duralith Corp., n.

Duramark, Inc.,
 Eastern Aircraft Corp., s.
 Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., a, d, l.
 Elco Corp., g.
 Electric Autolite Co., The, c, l, m, p.
 Electronic Applications, Inc., a, p.
 Emeloid Co., Inc., The, n.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., a thru g, l, p, q, t.
 Essex Wire Corp., e, t.
 FAE Instrument Corp., b.
 Farwest Mfg. Div., Inc.
 G-C Electronics Co., b.
 General Cable Corp., c, d, e, l, m, a, p, q, t.
 General Plastics Corp., a.
 General Radio Co., c, d, a, p.
 Duncan M. Gillies Co., Inc., n.
 Gries Reproducer Corp., b.
 Guided Missile Div., The Firestone Tire & Rubber Co., a.
 Gulton Industries, Inc., p.
 Hallett Mfg. Co., b, c, g, h, m, p.
 Hammett-Mercury-Rex Div., c, d.
 George E. Harris & Co., Inc., g.
 Heyman Mfg. Co., b.
 Hitemp Wires Inc., c, h, l, m, p.
 Holub Industries, Inc., b.
 Holyoke Wire & Cable Corp., a, c, e, h, a, p, q, t.
 Hunter Spring Co., Div.-American Machine & Metals, Inc., b.
 Walter J. Hyatt Co., The, b, g.
 Illumitronic Engrg. Co., b.
 Inso Electronic Products, Inc., l.
 Interstate Electronics Corp.
 Interstate Electronics Inc., a, c, l, a, p, t.
 Walker K. Jaros Aircrafters, b, e, g.
 Javex Electronics, g.
 Jefferson Electronic Products, a.
 Jefferson Wire & Cable Corp., a, c, d, a, p, q, t.
 Jennings Machine Corp., l.
 Joy Mfg. Co., r.
 Kaiser Aluminum & Chemical Sales, Inc., a, c, d, e, h, l, m, p, t.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., e, p, t.
 Kennedy Aircraft Supply Co., e.
 Kickhafer Mfg. Co., b, k.
 Lab-Tronics, Inc., c, e, a, p.
 Lear, Inc., a.
 Lenz Electric Mfg. Co., c, e, a, p.
 Lewis Engrg. Co., The, c, l.
 Lieco, Inc., c, d.
 Lithium Corp. of America Inc., The Fulton-Irgon Div., g, j.
 Litton Industries, Inc.
 Lunn Laminates, Inc., b.
 MEG Products, Div.-Mandrel Industries, Inc., e, m, p.
 Malco Mfg. Co., b.
 Manger Electric Co., Inc., n.
 Manhattan Lighting Equipment Co., Inc., c, d, k.
 *MARTIN CO., THE, DENVER DIV., a, b, i, j, t.
 Microdot Inc., c, d.
 *MINNESOTA MINING & MFG. CO., r.
 Mohawk Wire & Cable Corp., c, o, p, q, t.
 New England Electrical Works, Inc., h, q.
 Normandy Electric Wire Corp., a, c thru f, l, a, p, q, t.
 Northeast Metals Industries, Inc., a, c.
 Nugent Electronics Co., Inc., r.
 Okonite Co., The, Sub.-Kennecott Copper Corp., a, c, e, m, a, p, q, t.
 Ordinance Research & Development Co., Div.-Bermite Powder Co., m.
 Pacific Automation Products, Inc., a, c thru f, h, k, l, m, p, q, t.
 Pacific Scientific Co., g, s.
 Packard Electric Div.-General Motors Corp., m, p.
 Panduit Corp., b.
 Phalo Plastics Corp., c, a, p, q.
 Phelps Dodge Copper Products Corp., a, c thru f, l, p, q, t.
 Precision Tube Co., Inc., a, d, p, q, t.
 Pradelin, Inc., c, d, l, t.
 Propellex Chemical Div., Chromalloy Corp., j.
 *RADIO CORP. OF AMERICA, a, c thru f, h, l, n thru q, t.
 Revere Corp. of America, Sub., Neptune Meter Co., c, e, l, m, p.
 Reynolds Metals Co., t.
 Robins Industries Corp., a.
 Rockbestos Wire & Cable Co., Div.-Cerro de Pasco Corp., c, e, l, p, q.
 John A. Roebling's Sons Div., The Colorado Fuel & Iron Corp., e, p, t.
 Rome Cable Div.-Alcoa, e, k, p, t.
 Roovers-Lotsch Corp., n.
 Royal Electric Corp., c, e, f, m, a, p, q, t.
 Scintilla Div., Bendix Aviation Corp., g, m, p.
 Seeger-Williams, Inc.
 Servicair Co., b.
 Silcocks-Miller Co., n.

Simmonds Aerocessories, Inc., e, g.
 C. Sjoberg & Son, b, n, r.
 Skytronics, Inc., m, p.
 E. C. Smith Mfg. Co., Inc., b, d, l.
 South River Metal Products Co., Inc., e.
 Southwest Products Co.,
 Southwire Co., t.
 Spectra-Strip Wire & Cable Corp., c, a, p.
 Stanley-Judd Div.-The Stanley Works, b, k.
 Stow Mfg. Co., e.
 Supa Insulations Inc., c, p.
 Superior Cable Corp., c, e, a, p, q, t.
 Surprenant Mfg. Co., c, d, l, a, p, q, t.
 TA Mfg. Corp., b.
 Tamar Electronics, Inc., g.
 Tape Cable Corp., p, q.
 Technical Appliance Corp., a.
 Telcon, Inc., a, c, f, l, q, t.
 Telectro Industries Corp., a.
 Teleflex Inc., e, l.
 Tensolite Insulated Wire Co., Inc., c, e, l, p, q.
 Textstar Plastics Div.-The Textstar Corp., e, m, p.
 Thermax Wire Corp., c, l, m, a, p, q, t.
 Thomas & Betts Co., Inc., The, b, g, k, r.
 Thor Ceramics, Inc., b, m.
 Times Wire & Cable Co., Inc., a, c, d, e, l, a, p, q, t.
 Timmerman Products, Inc., b.
 Titelflex, Inc., m.
 Tobler Electronic Corp., a, d, g, t.
 Topper Mfg. Co., Inc., e.
 Tower Construction Co., a.
 Tri-Ex Tower Corp., b.
 Twix Mfg. Co., Inc., b, g, h, i.
 U. S. Science Corp., Div.-Topp Industries, Inc., t.
 United States Steel Corp., e.
 United States Wire & Cable Corp., a, c, e, a, p, t.
 Vector Mfg. Co., c, e, a, p, q.
 Victor Electric Wire & Cable Corp., a, c, l, a, p, t.
 Warren Wire Co., c.
 Weckesser Co., b.
 Western Insulated Wire Co., c, e, p.
 Westline Products Div.-Western Lithograph Co., n.
 Westwood Cable Corp., a, c, d, e, g, h, l, a, p, q.
 Whitaker Cable Corp., h.
 Whitehead Stamping Co., b.
 Whitso, Inc., b.
 Wirecraft Products, Inc., l, p.
 Zierick Mfg. Corp., b.
 Zippertubing Co., The, b, c, i, k, n, p.

CABLE ASSEMBLIES, ELECTRICAL

Acme Electric Corp.
 Advance Industries, Inc.
 Advance Instrument Corp.
 Advanced Electronics, Inc.
 Aerolite Electronics Corp.
 Aircraft Tools, Inc.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 All Specs Corp.
 Allen Electric & Equipment Co.
 Aluminum Co. of America
 American Electric Cable Co.
 American Research & Mfg. Corp.
 Anacoanda Wire & Cable Co.
 Anchor Specialty Mfg. Co. Inc.
 Arnoux Corp.
 Associated Engineers, Inc.
 Belden Mfg. Co.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Bergen Wire Rope Co.
 Berkshire Electric Cable Co.
 Bernco Engrg. Corp.
 Birnbach Radio Co., Inc.
 Brach Mfg. Corp.
 William Brand, Rex Div.-American Enka Corp.
 H. H. Buggie Div., Burndy Corp.
 Burndy Corp., Omoton Div.
 Burton-Rodgers, Inc.
 CG Electronics Corp.
 Cable Electric Products Inc.
 Calcon Mfg. Co., Inc.
 Carol Electronics Corp.
 Chalco Engrg. Corp.
 Chance Vought Aircraft, Inc.
 Clevite Ordnance, Div.-Clevite Corp.
 Cole Electric Co.
 Co-Operative Industries, Inc.
 Cornish Wire Co. Inc.
 Cosmic Instruments Inc.
 Courier Products, Div.-Model Engrg. & Mfg., Inc.
 Dale Products, Inc.
 Dalmo Victor Co. Div.-Textron, Inc.
 R. E. Darling Co., Inc.
 Daystrom, Inc., Military Electronics Div.
 *DEL MAR ENGRG. LABS.
 Dit-Mco, Inc.
 Du Kane Corp.
 Allen B. Du Mont Labs., Inc.
 Eagle Signal Co.
 Elco Corp.

Electric Autolite Co., The
 Electric Cords & Supply Corp.
 Electromath Corp.
 Electronic Brazing Co.
 Electronic Paris Mfg. Co., Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Empire Electronics Co., Inc.
 Engrg. Specialties
 Essex Wire Corp.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Farwest Mfg. Div., Inc.
 Flight Refueling, Inc.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 General Aniline & Film Corp., Anasco Div.
 General Mills, Inc.
 General Products Corp.
 General Radio Co.
 Gilfillan Bros. Inc.
 Good Electronic Corp.
 Graflex Inc.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Gulton Industries, Inc.
 Hallamare Electronics Co., Div.-Sieglor Corp.
 Hallett Mfg. Co.
 Hammett-Mercury-Rex Div.
 Harco Labs., Inc.
 Hitemp Wires Inc.
 Holyoke Wire & Cable Corp.
 Huyck Systems Co.
 IIT Electronics, Inc.
 IIT Federal Div., International Telephone & Telegraph Corp.
 Indiana Gear Works, Inc.
 Insl. Prod.-Danbury Knudsen Div.-Amphenol-Borg Electronics Corp.
 Intercontinental Dynamics Corp.
 International Electric Industries, Inc.
 Interstate Electronics Corp.
 Jack & Heintz, Inc.
 Janco Corp.
 Jefferson Electronic Products
 Jela, Inc.
 Jetron Products, Inc.
 Kahn & Co., Inc.
 Kaiser Aluminum & Chemical Sales, Inc.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kings Electronics Co., Inc.
 Lab-Tronics, Inc.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc.
 Lear, Inc.
 Lee Electric & Mfg. Co.
 Lewis Engrg. Co., The
 Libroscope Div., General Precision, Inc.
 Litton Industries, Maryland Div.
 Lycoming Div., Avco Corp.
 Lytle Corp.
 MEG Products, Div.-Mandrel Industries, Inc.
 Manger Electric Co., Inc.
 *MARTIN CO., THE, DENVER DIV.
 Mc Donnell Aircraft Corp.
 Microdot Inc.
 Modelectric Products Corp.
 Molded Insulation Co.
 Chester Morton Electronics Corp.
 Multron Corp.
 Normandy Electric Wire Corp.
 Norrich Screw Machine Products
 Northeast Metals Industries, Inc.
 Northeastern Engrg. Inc.
 Nugent Electronics Co., Inc.
 Paul Nurches Co.
 Opad Electric Co.
 Pacific Automation Products, Inc.
 Packard Electric Div.-General Motors Corp.
 Paco Electronics Co., Inc.
 Paraplegics Mfg. Co., Inc.
 Permolux Products Co.
 Phalo Plastics Corp.
 Philco Corp.-Govt. & Industrial Group
 Piasecki Aircraft Corp.
 Piqua Engrg. Inc.
 Pomona Electronics Co., Inc.
 Precise Development Corp.
 Projects Unlimited, Inc.
 Pyle-National Co., The
 Radiophone Co. Inc.
 *RADIO CORP. OF AMERICA
 *RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY
 Raven Industries Inc.
 Ravenna Metal Products, Div.-Standard Screw Co.
 Republic Aviation Corp., Missile Systems Div.
 Revere Corp. of America, Sub., Neptune Meter Co.
 Rimak, Inc.
 Robertshaw-Fulton Controls Co., A & I Div.
 Rome Cable Div.-Alcoa
 Milton Ross Metals Co., The
 Royal Electric Corp.
 Schaffer Air Industries, Inc.

Scintilla Div., Bendix Aviation Corp.
 Seeger-Williams, Inc.
 Servicair Co.
 Shallcross Mfg. Co.
 Sheltered Workshops
 Skyline Electric & Mfg. Co.
 Skytronics, Inc.
 Southwestern Industrial Electronics Co.
 Specialty Electronics Development Corp.
 Spectra-Strip Wire & Cable Corp.
 State Testing Laboratory Inc.
 Stewart-Warner Electronics Div.
 Sunshine Scientific Instrument
 Superex Electronics Corp.
 Surprenant Mfg. Co.
 Taffet Electronics, Inc.
 Tamar Electronics, Inc.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Telex, Inc.
 Telkor, Inc.
 Tensolite Insulated Wire Co., Inc.
 Thomas Electronics, Inc.
 Thompson Ramo Wooldridge Inc.
 Thor Ceramics, Inc.
 Times Wire & Cable Co., Inc.
 Tober Electronic Corp.
 Topper Mfg. Co., Inc.
 Tucson Instrument Corp.
 Twix Mfg. Co., Inc.
 U. S. Plastic Molding Corp.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 Vector Mfg. Co.
 Vicon Corp. Sub-Insul-8-Corp.
 Victor Electric Wire & Cable Corp.
 Victor R. F. & Microwave Co.
 Virginia Electronics Co., Inc.
 Westwood Cable Corp.
 Wheeler Electronic Corp., Sub-Sperry Rand Corp.
 Whitaker Cable Corp.
 Winder Aircraft Corp. of Florida
 Wolverine Diesel Power Co.

CABLE ASSEMBLIES, THERMOCOUPLE

Advanced Electronics, Inc.
 Aircraft Tools, Inc.
 Arnoux Corp.
 Berkshire Electric Cable Co.
 Bernco Engr. Corp.
 William Brand, Rex Div.-American Enka Corp.
 Colcon Mfg. Co., Inc.
 Conax Corp.
 Co. Operative Industries, Inc.
 Cosmic Instruments Inc.
 Electric Cords & Supply Corp.
 Electronic Parts Mfg. Co., Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Claud S. Gordon Co.
 Hallett Mfg. Co.
 Harco Labs, Inc.
 Jefferson Electronic Products
 Kohn & Co., Inc.
 Leeds & Northrup Co.
 Lewis Engr. Co., The
 MEG Products, Div.-Mandrel Industries, Inc.
 *MARTIN CO., THE DENVER DIV.
 Chester Morton Electronics Corp.
 Normandy Electric Wire Corp.
 Pacific Automation Products, Inc.
 Piasecki Aircraft Corp.
 *RADIO CORP. OF AMERICA
 Reverse Corp. of America, Sub. Neptune Meter Co.
 Scintilla Div., Bendix Aviation Corp.
 E. C. Smith Mfg. Co., Inc.
 Spectra-Strip Wire & Cable Corp.
 Surprenant Mfg. Co.
 Teleflex Inc.
 Telkor, Inc.
 Thermo Electric Co., Inc.
 Theron Mfg. Co.
 Tober Electronic Corp.
 Westwood Cable Corp.
 Wheeler Electronic Corp., Sub-Sperry Rand Corp.
 Winder Aircraft Corp. of Florida

CADMIUM

Accurate Specialties Co. Inc.
 Allied Research Products, Inc.
 Alloys Unlimited Inc.
 American Brass Co., The
 Belmont Smelting & Refining Works, Inc.
 Bios Labs, Inc.
 Bow Solder Products Co., Inc.
 Bram Metallurgical Chemical Co.
 Chromium Corp. of America
 City Chemical Corp.
 Delta Chemical Works, Inc.
 Division Lead Co.
 Eagle-Picher Co., The
 Harmon, Lichtenstein & Co.
 Morris P. Kirk & Son, Inc.
 Semi-Elements, Inc.
 Udyite Corp., The

Var-Lac-Oid Chemical Co.

CALCIUM

Belmont Smelting & Refining Works, Inc.
 Bios Labs, Inc.
 Bram Metallurgical Chemical Co.
 City Chemical Corp.
 Delta Chemical Works, Inc.
 Metal Hydrals Inc.
 Nelco Metals, Inc.
 Semi-Elements, Inc.
 Union Carbide Metals Co., Div.-Union Carbide Corp.
 United Mineral & Chemical Corp.
 Var-Lac-Oid Chemical Co.

CALIBRATORS

a. Crystal
 b. Farce
 c. Frequency
 d. Radar Device
 e. Radar Range
 f. Sweep
 g. Transducer
 h. Voltage
 i. UHF
 j. VSWR

Advance Industries, Inc., d, e, f.
 Aeroscience, Inc., b, g.
 Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
 a, c.
 Aircom Inc., a, j.
 Airpox Electronics Inc., Cambridge Div., c.
 Airpox Electronics Inc., Seminole Div., c.
 All Products Co., j.
 Allegony Instrument Co., Inc., g.
 Allied International Corp., d, e, i.
 Amerac Inc., c.
 American Machine & Foundry Co., Government Products, N. Y., c, d, e, g, h.
 Arkay Engrg., Inc., c.
 Arnoux Corp., g.
 B & K Instruments, Inc., g.
 Beckman Instruments, Inc., Berkeley Div., c.
 Beckman-Systems Div., h.
 Bendix Aviation Corp., c thru f, h.
 Bendix Aviation Corp., Cincinnati Div., c, h.
 Bergen Labs, Inc., b.
 Bruno-New York Industries Corp., d, i.
 Budd Lewyt Electronics, Inc., e, f.
 Bytrex Corp., b, g.
 Calvert Electronics Inc., c, h.
 Clegg Labs., Div.-Clegg, Inc., c, h.
 G. L. Collins Corp., g.
 Control Electronics Co., Inc., a, c, d, e.
 Crescent Engrg. & Research Co., g.
 Data-Control Systems, Inc., c, h.
 Davenport Mfg. Co., h.
 Daystrom Inc., Weston Instruments Div., h.
 Dejour-Amsco Corp., Electronic Sales Div., g.
 Designers for Industry, Inc., a, c.
 Djeco, Div.-Djordjevic Engrg. Co., h.
 Dorsett Electronic Labs, Inc., g.
 Du Kane Corp., c.
 Dynatronics, Inc., c, h.
 Electro Instruments, Inc., c, h.
 Electro Scientific Industries, h.
 Electronic Applications, Inc., a, c, f, i, j.
 Elin Div., International Electronic Research Corp., h.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., d, e.
 Erie Resistor Corp., c.
 John Fluke Mfg. Co., Inc., h.
 General Communication Co., c, d, h.
 General Radio Co., a, c, g.
 Gilmore Industries, Inc., b, g.
 Gulton Industries, Inc., a, c, g.
 Gyrex Corp., The, c, g.
 Hallamore Electronics Co., Div.-Sieglar Corp., g.
 Hammett-Mercury-Rex Div., d, e.
 Hewlett-Packard Co., h.
 Hickok Electrical Instrument Co., The, f.
 Hunter Spring Co., Div.-American Machine & Metals, Inc., b.
 I-L-S Instrument Div., The Meriam Instrument Co., c.
 ITI Electronics, Inc., e.
 Instruments for Industry, Inc., c, i.
 E. F. Johnson Co., j.
 Kay Electric Co., h.
 Kin Tel Div.-Cohu Electronics, Inc., h.
 James Knights Co., The, a.
 Lab. for Electronics, Inc., c, d.
 Lampkin Labs., Inc., M. R. Div., c, i.
 Lear, Inc., b, g.
 Leeds & Northrup Co., h.
 *WALLACE O. LEONARD, INC., g.
 Loral Electronics Corp., a, e, f.
 MB Electronics, g.
 *MARTIN CO., THE DENVER DIV., a, b, c, f thru j.
 Matronix, Inc., Sub.-Assembly Products, Inc., a.
 Micro Gee Products, Inc., c, g.
 James Millen Mfg. Co. Inc., j.

Mitchell Camera Corp., g.
 Morehouse Machine Co., b.
 Motorola, Inc., a, c thru f, h, i, j.
 National Co., Inc., c.
 National Instrument Laboratories, Inc., h.
 Ernest Norman Laboratories, a, c.
 Northrop Corp.
 Orbitron Co., Inc., b, e.
 Palmer Instruments, a.
 Performance Measurements Co., b, g, j.
 Photocon Research Products, c, g.
 Polaroid Electronics Corp., j.
 Probescope Co., Inc., a.
 Projects Unlimited, Inc., e.
 Radalab Inc., a, c, d, i, j.
 Radar Design Corp., j.
 Radio City Products Co. Inc., e.
 *RADIO CORP. OF AMERICA, a, c thru j.
 *RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY, c, h.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., a, c.
 Rawson Electrical Instrument Co., h, i.
 Rese Engr., Inc., h.
 Schoevitz Engr., b, g.
 Scientific-Atlanta, Inc., j.
 Sensitive Research Instrument Corp., h.
 Servomechanisms, Inc., g.
 Sierra Electronic Corp., Div.-Philo Corp., j.
 Simpson Electric Co., h.
 Skidmore-Wilhelm Mfg. Co., b.
 Spectrd Electronics Corp., d, e, i, j.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., b, c, d, e, j.
 Statham Instruments, Inc., g.
 Steel City Testing Machines, Inc., c, e, i, j.
 Sun Electric Corp., Aeronautical Div.
 TRG, Inc., c.
 Technical Material Corp., The a.
 Technology Instrument Corp., g.
 Technoproducts, Inc., b, g.
 Unholtz-Dickie Corp., g.
 Valpey Crystal Corp., a, c.
 Varo Mfg. Co., Inc., c.
 Video Instruments Co., Inc., g.
 Waltham Electronics Corp., c.
 Wiancko Engr. Co., g.

CALLING SYSTEMS, SELECTIVE, NAVIGATION

Advance Industries, Inc.
 Allied International Corp.
 Bell & Gossett Co.
 Bendix Aviation Corp.
 Broadview Research Corp.
 Bruno-New York Industries Corp.
 Collins Radio Co.
 *DEL MAR ENGRG. LABS.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 *EQUIPMENT DIV., RAYTHEON CO.
 General Instrument Corp. Defense & Engrg. Products Group.
 Hammarlund Mfg. Co., The
 Huyck Systems Co.
 Litton Industries, Maryland Div.
 Madigan Corp.
 *MOTOROLA, INC.
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Southwest Research Institute
 Stromberg-Carlson Div.-General Dynamics Corp.
 Varo Mfg. Co., Inc.

CAMERA AUXILIARY EQUIPMENT

American Optical Co.
 Ball Brothers Research Corp.
 Beattie-Coleman, Inc.
 Beckman & Whitley, Inc. Instruments Div.
 Belock Instrument Corp.
 Benson-lehner Corp.
 Cameraflex Div., The Federal Mfg. & Engrg. Corp.
 Chance Vought Aircraft, Inc.
 DBM Research Corp.
 Joe Davidson & Associates
 Dejour-Amsco Corp., Electronic Sales Div.
 *DEL MAR ENGRG. LABS.
 Allen B. Du Mont Labs, Inc.
 Eastman Kodak Co.
 Electroid Corp.
 Electronic Engrg. Co. of California
 Fairchild Camera & Instrument Corp.
 Fairchild Camera & Instrument Corp., Industrial Products Div.,
 J. W. Fecker Div., American Optical Co.
 Flight Research, Inc.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 Gordon Enterprises
 Guidance Controls Corp.
 Herlo Corp.

Magnasyn Corp.
*MARTIN CO., THE, DENVER DIV.
D.B. Milliken Co.
Northrop Corp.
Optomechanics Inc.
Sterling Glass Corp.
Traid Corp.
U.S. Science Corp., Div.-Topp Industries, Inc.
Viewlex, Inc.
Winder Aircraft Corp. of Florida
Zoomar Inc.

CAMERA MOUNTS

Aeroflex labs. Div., Aeroflex Corp.
American Latex Products Corp.
American Machine & Foundry Co., Greenwich
Engrg. Div.
American Optical Co.
Associated Co., Inc.
Beattie-Coleman, Inc.
Benson-Lehner Corp.
Chance Vought Aircraft, Inc.
Christie Machine Works.
DBM Research Corp.
Fairchild Camera & Instrument Corp.
Fairchild Camera & Instrument Corp., Industrial
Products Div.
J.W. Fecker Div., American Optical Co.
General Electric Co., Missile & Space Vehicle
Dept., Pa.
Gordon Enterprises
Herlo Corp.
Interstate Electronics Corp.
*MARTIN CO., THE, DENVER DIV.
D.B. Milliken Co.
Mitchell Camera Corp.
Northeast Metals Industries, Inc.
Optomechanics Inc.
Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.
Traid Corp.
Vibration Isolation Products
Viewlex, Inc.
Waldick Engrg. Co.
Weba, Inc.
Winder Aircraft Corp. of Florida
Zoomar Inc.

CAMERAS

a. Data Recording
b. High Speed
c. Motion Picture
d. Oscilloscope
e. Recording, Radar & Oscilloscope
f. Sequence, Pulse
g. Television
h. X-Ray
*ABRAMS INSTRUMENT CORP., a, e.
Advance Industrial X-Ray Labs., Inc., h.
Allegany Instrument Co., Inc., a, d.
American Instrument Co., Inc., d.
American Optical Co., g.
*ASKANIA WERKE, U.S. BRANCH OFFICE, a.
Associated Engineers, Inc., a, b, e.
Avco Corp.-Research & Advanced Development
Div., a, b.
Bach Auricon, Inc., a, c, e, g.
Beattie-Coleman, Inc., a, d, e, f, h.
Beckman & Whitley, Inc., Instrument Div., b, d.
Benson-Lehner Corp., a, b, c, d, e, f.
Blonder-Tongue Labs., Inc., g.
Blonder-Tongue Labs. Inc., Special Products Div., g.
CBS Laboratories, Div.-Columbia Broadcasting
System b, g, h.
Cameraflex Div., The, Federal Mfg. & Engrg. Corp.,
a, c, e.
Century Electronics & Instruments, Inc., a.
Chadwick-Helmuth Co., b, f.
Christie Machine Works b.
DBM Research Corp., a, c, e.
Dage Television Div., Thompson Ramo Wooldridge,
Inc., g.
Dejux-Amsco Corp., Electronic Sales Div., c.
Diamond Power Specialty Corp., g.
Allen B. Du Mont Labs., Inc., a, d, e, g.
Eastman Kodak Co., a, c, e, f.
Edgerton, Germeshausen & Grier, Inc., d.
Edmund Scientific Co.
Electro-Medical Lab., Inc., d.
Electronic Tube Corp., d, e.
*ENGIS EQUIPMENT CO., h.
Fairchild Camera & Instrument Corp., a, b, c, d, e, h.
Fairchild Camera & Instrument Corp., Industrial pro-
ducts Div., a, b, c, e, h.
J.W. Fecker Div., American Optical Co., a, c.
Flight Research, Inc., a, c, d, e, f, g.
Foto-Video Labs., Inc., g, h.
GPL Div.-General Precision, Inc., g.
General Electric Co., Missile & Space Vehicle Dept.
Pa., a, b, c.
General Electric Co., X-Ray Dept., a, b, e, h.
Gordon Enterprises, b, c, d, e, f, g.

Hollamore Electronics Co., Div.-Siegler Corp., g.
Haloid Xerox Inc.
Hammett-Mercury-Rex Div., h.
Hathaway Instruments, Inc., d.
Herlo Corp.
Hewlett-Packard Co., d.
Image Instruments, Inc., f, g.
Instrument Div., The Budd Co., h.
Intercontinental Electronics Corp., g.
Interstate Electronics Corp., g.
Kin Tel Div.-Cohu Electronics, Inc., g.
Libroscope Div., General Precision, Inc., a, b.
Lockheed Aircraft Corp., Missiles & Space Div., g.
*MARTIN CO., THE, DENVER DIV., a, b.
J.A. Mauer, Inc., a, b, c, d, e, f.
D.B. Milliken Co., a, b, c, d, e, f.
Mitchell Camera Corp., b, c.
Norden Div., United Aircraft Corp., g.
Optomechanics Inc., a, d, e, f.
Paragon-Revolute, Div.-Charles Bruning Co., Inc.
Peerless Photo Products Inc., a.
Perkins-Elmer Corp., a.
Philco Corp.-Govt. & Industrial Group, g.
Philips Electronic Instruments h.
*RADIO CORP. OF AMERICA, e, g, h.
Resitron Labs., Inc., g.
Singer Military Products Div.-The Singer Mfg. Co., e.
Southwestern Industrial Electronics Co., e.
Specialties, Inc.
Strand Engrg. Co., a, e.
Tekttron, Inc., d.
Thompson Ramo Wooldridge Inc., g.
Tracerlab Inc., h.
Traid Corp., a, b, c, d, f.
Vicon Corp., Sub-Insul-B-Corp., g.
Viewlex, Inc., a, b, c, d, e.
Westinghouse Electric Corp., h.
Wallensok Optical Co., a, b, c, d, e, f.
Zoomar Inc., g.

CANS, HERMETICALLY SEALED

American Aluminum Co.
Morris Bean & Co.
Brooks & Perkins, Inc.
Calcor Corp.
California Stamping & Mfg. Co.
Cornell Deep Drawing Co., Div.-Lanes Industries
Corp.
Corning Glass Works.
Courtier Products, Div.-Model Engrg. & Mfg., Inc.
Deutsch Co., The, Electronic Components Div.
Double E Products Co.
George D. Ellis & Sons, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
Graflex Inc.
Heldor Mfg. Co., Inc.
Hermetic Seal Corp.
Hudson Tool & Die Co., Inc.
Icar, Inc.
*MARTIN CO., THE, DENVER DIV.
Ordnance Research & Development Co., Div.-
Bermit Powder Co.
Paul & Beekun, Inc.
Portland Copper & Tank Works Inc.
Milton Ross Metals Co., The.
Royal Jet, Div.-Royal Industries, Inc.
Southwestern Industrial Electronics Co.
Sphere Co. Inc., The.
Stevens Co., Inc.
Warren Components, Div.-El-Tronics, Inc.
Wesrep Corp.
Zero Mfg. Co.

CAPACITOR SPECIALTIES MEASUREMENT

Double E Products Co.
Electro Instruments, Inc.
Electro Scientific Industries
Industrial Instruments Inc.,
*MARTIN CO., THE, DENVER DIV.
Paul & Beekun, Inc.
Radio Condenser Co.

CAPACITORS

a. Ceramic
b. Composition
c. Decode
d. Electrolytic
e. Feed-Through
f. Fixed
g. Gas-Filled
h. Glass
i. High Temperature
j. High Voltage
k. Metallized Paper
l. Mica
m. Miniature
n. Mylar
o. Oil Filled
p. Piston
q. Plastic-Insulated
r. Precision

s. Printed Circuit
t. Receiver Tuning
u. Tantalum
v. Teflon
w. Temperature Compensated
x. Transmitter Tuning
y. Trimmer
z. Vacuum Type
a-1. Variable
ACF Industries Inc., m, n, q, s.
AMP Inc., j, n, o, v, w.
Aerovox Corp., a, d, e, f, i thru o, q, s, t, u, w, x, y.
Aetna Electronics Corp., x.
Airborne Accessories Corp., e, i, k thru n, v.
All Star Products Inc., a, a-1.
American Agile Corp., q.
American Lava Corp., a, e, w, y.
American Machine & Foundry Co., Government
Products Group, i.
Associated Engineers, Inc., j, k, l, s, v.
Astron Corp., a, d, e, f, i, j, k, m, n, o, q, s, u, v, w.
Atlee Corp., a-1.
Axel Electronics Div. Axel Bros. Inc., e, f, i, j, m, n,
o, q, v, w.
Barco, Inc., d, u.
Bendix Aviation Corp., o, i, l.
Bendix Aviation Corp., Cincinnati Div., q.
Bud Radio, Inc., x, a-1.
Cambridge Thermionic Corp., e, f, a-1.
Centralab, Div.-Glove-Union, Inc., a, e, f, i, j, m,
q, r, s, w, y.
Chemical Micro Milling Co., s.
Consolidated Airborne Systems, Inc., r, w.
Continental Electronics Mfg. Co., Sub.-Ring-Altec
Electronics Inc., j.
Cornell-Dubilier Electric Corp., a Thru f, i Thru o,
q, r, s, u, v, w.
Corning Glass Works, a, f, h, i, j, m, y.
Corson Electric Mfg. Corp., f, i, j, l, n, o, q, v.
Courtier Products, Div.-Model Engrg. & Mfg., Inc., i.
Dearborn Electronic Labs., Inc., b, f, h, i, j, m, n, o,
r, v, w.
Dolinko & Wilkens, Inc., j, z.
Double E Products Co., a, b, c, e thru o, q thru t,
v thru z, a-1.
Eastman Kodak Co., n.
Ed-Berl Products, Inc., d.
Elcon, Inc., c, d, f, i, j, k, m, n, q, r, s, u, v, w.
Electra Mfg. Co., a, m, r, s, w.
Electro Scientific Industries, c.
Electro-Capacitors Co., d.
Electron Products Div.-Marshall Industries, f, i, j, k,
m, n, o, v.
Electronic Applications, Inc., c.
Emertron, Sub.-Emerson Radio & Phonograph Corp.,
s.
Epic, Inc., g, j, l.
Erie Resistor Corp., a, e, f, i, l, r, s, u, w, x, y, a-1.
Fansteel Metallurgical Corp., d, f, i, j, m, r, u.
Ferroxcube Corp. of America, a.
Film Capacitors, Inc., c, e, f, i, j, k, m, n, o, q, r, s,
v, w.
Filtron Co., Inc., e, f, i, j, k, m, n, o, q, v.
Freed Transformer Co., Inc., c.
General Electric Co., Apparatus Sales Div., b, d, e,
j, m, o, q, u, v.
General Laboratory Associates, Inc., f, i, j, l, n, o, v.
General Products Corp., f, q.
General Radio Co., c, f, r, a-1.
Genitron, Inc., e.
Girard-Hopkins, f, n, o.
Good-All Electric Mfg. Co., o, d, f, m, n, o, q, s.
Gudeman Co., The, d, e, f, i, j, k, m, n, o, q, r, s,
v, w.
Gulton Industries, Inc., a, i, m, w.
Hallett Mfg. Co., e.
Hammarlund Mfg. Co., The, j, r, t, x, y, a-1.
George E. Harris & Co., Inc., a, b, d, f, i, k, n, u.
Hi Q Div., Aerovox Corp., a, e, f, i, j, m, r, s, w, y.
Hopkins Engrg. c, o, e, f, i, k, m, n, o, r, s, v, y.
Hughes Semiconductor Div.-Hughes Aircraft Co.,
a-1.
ITT Components Div., International Telephone &
Telegraph Corp., u.
Induction Heating Corp., o.
*INTERNATIONALELECTRONICS CORP., b, f, i, j, k, m, n, o,
q, v, w.
International Electronic Industries, Inc., d, e, f, m, s, u.
International Rectifier Corp., a-1.
Interstate Electronics Inc., a Thru f, h Thru r, u, v, w,
y, a-1.
JFD Electronics Corp., o, g thru j, m, p thru t, w,
y, z, a-1.
Jeffers Electronics Div., Speer Carbon Co., b.
Jennings Radio Mfg. Corp., j, z, a-1.
E.F. Johnson Co., i, j, m, s, x, y, a-1.
Kemet Co., Div.-Union Carbide Corp., u.
Wayne Kerr Corp., f, r, z.
La Pointe Industries, Inc., s, a-1.
Lapp Insulator Co., Inc., Radio Specialties Div., f, g, j,
x, a-1.
Lear, Inc., a, b, u, y.

Leeds & Northrup Co., l, r.
 Line Material Industries-Mc Graw-Edison Co., j, a.
 Lockheed Aircraft Corp., Missiles & Space Div., o, m.
 *MAGNAVOX CO., The, d, u.
 Maida Development Co., a, e, f, i, j, m, r, w, y.
 P.R. Mallory & Co. Inc., a, d, e, f, i, m, a, s, u.
 Mc Coy Electronics Co., a-1.
 Mica Fabricated Co., l.
 Micromold Electronics Mfg. Corp., d, e, f, i, thru o,
 q, s, u, v.
 James Millen Mfg. Co. Inc., m, p, r, t, x, y, a-1.
 *MINNESOTA MINING & MFG. CO., a-1.
 Mucon Corp., a, s, w.
 Muirhead Instruments Inc., c, f, l, r, a-1.
 Nameplates Inc., s.
 National Carbon Co., Div.-Union Carbide Corp., u.
 National Co., Inc., r, t, x.
 New England Scientific Instruments Co., g.
 New York Cail Co., Inc., n.
 Ononadga Electronics Div., Speer Carbon Co., a, f,
 s, w.

Packard-Bell Electronics Corp., a.
 Patterson Moos Research, Div.-Leesona Corp., n, v.
 Paul & Beekman, Inc., d.
 Pimex, Inc., q.
 Plastic Age Sales, Inc., q.
 Plastic Capacitors, Inc., a, b, f, i, j, k, m, n, o, q, v, w.
 Pyramid Electric Co., d, e, f, i, j, k, m, n, a, q, s, u.
 Q-Circuits, Div.-Etching Co. of Calif., s.
 Quality Components, Inc., b.
 Radio Condenser Co., r, t, w, x, y, a-1.
 *RADIO CORP. OF AMERICA, m, s, t, x.
 Radio Frequency Co., Inc., a.
 Radio Industries, Inc., a, e, s, w.
 Resitron Labs, Inc., z.
 San Fernando Electric Mfg. Co., e, f, i, k, m, n, v.
 Sangamo Electric Co., b, d, e, f, i, j, l, thru o, q, r, v, w.
 Ray A. Scherer & Co., v.
 Scintilla Div., Bendix Aviation Corp., f, i, l.
 Servomechanisms, Inc., a.
 W.S. Shamban & Co., s.
 Solar Mfg. Corp., a, e, f, j, m, y.
 Southern Electronics Corp., c, f, j, n, q, r, s, v, a-1.
 Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co., v.
 Sprague Electric Co., a, c thru f, i, thru o, q, s, u, v, w.
 Stackpole Carbon Co., b, f.
 Standard Condenser Corp., f, j, m, n, a, q, r, s.
 Standard Pressed Steel Co., a, d, m, u.
 H. W. Sullivan Ltd., c, f, l, r, a-1.
 Taffet Electronics, Inc., a-1.
 Transistor Electronics, Inc., u.
 Technical Apparatus Builders, d, f, i thru l, o, z.
 Tetrafluor, Inc., q, v.
 Texas Capacitor Co., Div.-K-C-K Corp., f, m, n, q,
 r, v.
 Texas Instruments Inc., d, f, i, j, m, n, r, s, u.
 Therman Mfg. Co., i, w.
 Transifron Electronic Corp.
 Underwood Electric & Mfg. Co., Inc., l, y.
 Union Asbestos & Rubber Co., v.
 United Electronic Mfg. Corp., d.
 United Mineral & Chemical Corp.
 U. S. Semiconductor Products Div.-United Industrial
 Corp., u.
 Universal Condenser Co., c, e, f, i, j, k, m, n, a, q, r,
 s, v.
 Vacap Corp., z, a-1.
 Vitramon, Inc., a, e, f, i, m, r, s.
 Waterbury Companies, Inc., q.
 Westinghouse Electric Corp., f, j.

CAPS, TUBE

Alden Products Co.
 American Brass Co., The
 The Clover Industries, Inc.
 Collins Mfg. Corp.
 General Electric Co., Lamp Metals & Components
 Dept.
 Hobson Brothers, Inc.
 E. F. Johnson Co.
 King Metal Spinning & Stamping Co.
 James Millen Mfg. Co. Inc.
 Moeller Mfg. Co. Inc.
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Ohlson Empire Inc.
 Paul & Beekman, Inc.
 *RADIO CORP. OF AMERICA
 Sillocks-Miller Co.
 Tetrafluor, Inc.
 Textstar Plastics, Div.-The Textstar Corp.
 United Mineral & Chemical Corp.
 Warren Components, Div.-El-Tronics, Inc.
 Whitehead Stamping Co.

CARBIDES

American Potash & Chemical Corp., National North-
 ern Div.
 Bergen Carbide Co.
 Bram Metallurgical Chemical Co.
 Carbone Corp., The

Carborundum Co., The
 City Chemical Corp.
 Custom Tool & Mfg. Co.
 Delta Chemical Works, Inc.
 Firth Sterling Inc.
 B. H. Hadley, Inc.
 Hughes Tool Co., Aircraft Div.
 Kennametal Inc.
 NUMEC Nuclear Materials & Equipment Corp.
 National Cylinder Gas, Div.-Chemtron Corp.
 Norton Co., New Products Dept.
 Precision Lapping Co. Inc.
 Semi-Elements, Inc.
 Sintercast Div., Chromalloy Corp.
 Sylvania-Corning Nuclear Corp.
 TRG, Inc.
 Union Carbide Metals Co., Div.-Union Carbide Corp.
 United Mineral & Chemical Corp.
 Var-Lac-Oid Chemical Co.
 Vascalay Ramet Corp.

CARBON

Arcair Co.
 Carbone Corp., The
 Custom Tool & Mfg. Co.
 Delta Chemical Works, Inc.
 Graphite Metallizing Corp.
 Great Lakes Carbon Corp.-Electro-Dir.
 Helwig Carbon Products, Inc.
 Morganite, Inc.
 National Carbon Co., Div.-Union Carbide Corp.
 Ohio Carbon Co., The
 St. Marys Carbon Co.
 Semi-Elements, Inc.
 Southwest Research Institute
 Stackpole Carbon Co.
 Superior Carbon Products Inc.
 United Carbon Products Co.
 United States Graphite Co., The, Div.-The Wickes
 Corp.

CARTRIDGES, STARTER

American Rocket Co.
 Amoca Chemicals Corp.
 Armament Div.-Universal Match Corp.
 Bendix Aviation Corp.
 Bermite Powder Co.
 Essex Mfg. Co., Inc.
 Gabriel Co., Rocket Power-Talco
 Lithium Corp. of America Inc., The Fulton-Irgon Div.
 Olin Mathieson Chemical Corp., N. Y.
 Olin Mathieson Chemical Corp., Winchester-Western
 Div.
 Ordnance Research & Development Co., Div.-Bermite
 Powder Co.
 Propellex Chemical Div., Chromalloy Corp.
 Solid Propulsion Ops., Rocketdyne Div., North Ameri-
 can Aviation

CASES

a. Diode & Transistor
 b. Instrument & Meter
 c. Portable
 d. Transformer
 e. Tube
 Aerocal Div., Aerona Mfg. Corp., b, c.
 Allen Electric & Equipment Co., b.
 Alloys Unlimited Inc., a.
 American Aerophysics Corp., c.
 American Aluminum Co., b, d, e.
 American Brass Co., The, b, d, e.
 American Machine & Foundry Co., Government
 Products, N. Y., a thru d.
 Anchor Metal Spinning Co., The, b, c.
 Artisan Metal Works Co., c, d.
 Associated Engineers, Inc., a, b, d.
 Bendix Aviation Corp., a.

*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.

J. F. Bingham Mfg. Co., b.
 S. Blickman, Inc., c.
 Brook Molding Corp., a.
 Brooks & Perkins, Inc., b, c.
 Bud Radio, Inc., b, c.
 Calcor Corp., b, c.
 California Stamping & Mfg. Co., c.
 Conrad & Moser, b.
 Cornell Deep Drawing Co., Div.-lanes Industries
 Corp., a thru e.
 Corning Glass Works, a.
 Cutler Metal Products Co., b, c.
 C. R. Daniels, Inc., c.
 Eisler Engrg. Co., Inc., d.
 Elzee Metal Products Co., Inc.
 Emerson Plastics Corp., d.
 Falstrom Co., b, c, d.
 Farwell Metal Fabricating, b, c, d.
 General Metal Products Co., b.
 Goldsman, b.
 Halliburton, Inc., Mfg. Div., b, c.

Hermetic Seal Corp., o, e.
 Homalite Corp., The, b.
 International Steel Co., c, d.
 Keystone Products Co., d.
 Kirk & Blum Mfg. Co., The, b.
 Kling Metal Spinning & Stamping Co., d, e.
 H. Koch & Sons, b, c.
 *LAVELLE AIRCRAFT CORP., c.
 Lunn Laminates, Inc., b, c.
 *MARTIN CO., THE, DENVER DIV., b, c.
 Mitronics Inc., a.
 Motorola, Inc., a.
 Muckle Mfg. Co., b, c.
 National Vulcanized Fibre Co., b, c.
 Norrich Plastics Corp., a, c, d, e.
 Norrich Screw Machine Products, a, e.
 Northeast Metals Industries, Inc., b, c.
 Olympic Plastics Co., Inc., b, c.
 P. B. R. Mfg. Co., b, c.
 Pneumafil Corp., d.
 Premier Metal Products Co., b.
 Prewitt Aircraft Co., c.
 Pry Welding & Mfg. Inc., b, c.
 REF Mfg. Corp., c.
 *RADIO CORP. OF AMERICA, a, e.
 Rimak, Inc., a thru e.
 Milton Ross Metals Co., The, a, d.
 Sillocks-Miller Co., c.
 Sinclair Mfg. Co., a.
 Skydyne, Inc., b, c.
 TA Mfg. Corp., b.
 Tallet Electronics, Inc., b.
 Technical Material Corp., The, c.
 Thor Ceramics, Inc., e.
 Unified Industries, Inc., a thru e.
 Waco Aircraft Co., b.
 Warren Components, Div.-El-Tronics, Inc., a.
 Wesrep Corp., d.
 Zipperubing Co., The, e.

CASINGS

ACF Industries Inc.
 A&P Metal Products Mfg. Corp.
 Aerial Machine & Tool Corp.
 Bethlehem Steel Co.
 Kaiser Fleetwings, Inc.
 Kirk & Blum Mfg. Co., The
 Lukens Steel Co.
 M & Q Plastic Products
 *MINNESOTA MINING & MFG. CO.
 Norrich Plastics Corp.
 Ravenna Metal Products, Div.-Standard Screw Co.
 Sillocks-Miller Co.
 Springfield Brass Co., Inc.
 Standard Steel Works, Div.-Baldwin-Lima-Hamilton
 Corp.
 United States Rubber Co.
 United States Steel Corp.
 Western Iron & Foundry Co., Inc.

CASTERS

Aircraft Tools, Inc.
 Albion Industries, Inc.
 Amco Engrg. Co.
 Bassick Co., The, Div.-Stewart-Warner
 Albert H. Cayne Equipment Corp.
 Colson Corp., The
 Darnall Corp. Ltd.
 Fairbanks Co., The
 Faultless Caster Corp.
 Magnesium Co. of America
 Nutting Truck & Caster Co.
 Rapids Standard Co., Inc.
 The Regent Jack Mfg. Co., Inc.
 Stewart-Warner Corp., Alemite Div.
 United Supply Co.
 Welded Construction Inc.

CASTINGS

a. Centrifugal, Ferrous
 b. Centrifugal, Non-Ferrous
 c. Die, Ferrous
 d. Die, Non-Ferrous
 e. Precision, Ferrous
 f. Precision, Non-Ferrous
 g. Sand, Ferrous
 h. Sand, Non-Ferrous
 ABA Tool & Die Co., c thru h.
 ACF Industries Inc., d, e, g.
 Acme Brass Foundry Co. of San Antonio, Inc., h.
 Aero Mfg. & Mach. Co., Inc.
 Alloys Unlimited Inc., f.
 Aluminum Alloys Corp., f, h.
 Aluminum Co. of America, d, f, h.
 American Agile Corp., b.
 American Brake Shoe Co., a, b, e thru h.
 American Brake Shoe Co., Engineered Casting Div.,
 e thru h.
 American Car & Foundry Div., ACF Industries, Inc., g.
 Ampco Metal, Inc., b, h.

Artra Aluminum Foundry & Mfg. Co. Inc., h.
Arwood Corp., e, f.
Austenal Co., Div. Howe Sound Co., e, f.
Austenal Co., Div. Howe Sound Co.-Microcast Products, e, f.
Auto Specialties Mfg. Co., Inc., e, g.
Avondale Marine Ways, Inc., g, h.
Badger Die Casting Corp., d.
Morris Bean & Co., e, f.
Bearium Metals Corp., h.
Bendix Aviation Corp., f.

***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., h.**

Bethlehem Steel Co., g, h.
Carl H. Biggs Co., f.
Blackstone Corp., g.
E. W. Bliss Co., g.
Bohn Aluminum & Brass Corp., f.
Bridgeport Brass Co., d.
Budd Co., The, g.
Bunting Brass & Bronze Co., The, b, h.
California Stamping & Mfg. Co., g, h.
Casting Engineers Div., Consolidated Foundries & Mfg. Corp., e, f.
Chambersburg Engrg. Co., g.
Chance Vought Aircraft, Inc., c, d, g, h.
Clark Equipment Co., g, h.
Collins Mfg. Corp., c thru f.
Colonial Aircraft Corp., h.
Crane Co., Special Products Div., g.
Curtiss-Wright Corp., Metals Processing Div., a, e, g.
Curtiss-Wright Corp.-Wright Aeronautical Div., f, h.
Dalton Foundries Inc., The, e, g.
Decatur Casting Co., The, g.
Derby Castings Co., The, a, b, h.
Lithium Lead Co., b, d, h.
Dallin Corp., d.
Double E Products Co., f.
Dow Chemical Co., The, d, f, h.
Electric Autolite Co., The, d, g.
Electric Steel Foundry Co., a, e, g.
Engineered Precision Casting Co., e, f.
FXR, Inc., f.
Falcon Machine & Tool Co., e, f.
Gar Products Corp., f, h.
General Alloys Co., a, g.
General Communication Co., c, d.
Gorham Electronics Div.-Garham Mfg. Co., b, f, h.
Gries Reproducer Corp., d, f.
Hamitog Foundry Inc., g.
Haynes-Stellite Co., Div. Union Carbide Corp., e, f, h.
Hills-McConna Co., h.
Hitchiner Mfg. Co., Inc., e, f.
Huntington Alloy Products Div.-The International Nickel Co., Inc., b, f, h.
Investment Casting Co., e, f.
Jan Hardware Mfg. Co., Inc., c thru h.
Jenco Corp., b.
Jessop Steel Co., g.
Kalcob Industries Div. Thompson Ramo Wooldridge Inc., a, b, e, f.
Kwikst Powdered Metal Products, e, f.
Light Metals, Inc., d, h.
Lindgren Foundry Co., g.
Link-Belt Co., g, h.
Magline Inc., d, h.
McPherson Corp., e, f, h.
Metals Div., Kelsey-Hayes Co., b.
Misc. Precision Casting Co., e, f.
Monarch Governor Co., d.
C. A. Morgan Co., d.
Napier Engines Inc., e, f.
Nelson Electric Mfg. Co., g, h.
Nilson Mfg. Co., a, b, e, f.
Nördberg Mfg. Co., g.
Ohio Precision Castings, Inc., f, h.
Ohio Steel Foundry Co., The, a, g.
R. H. Osbrink Mfg. Co., f, h.
Perfect Cast, e, g.
Pithbone Multiten Corp., g.
Precision Castings, Inc., b, f, h.
Precision Metalsmiths, Inc., f.
Randoll Graphite Bearings, Inc., b, f, h.
Roxing Metal Products Div. Standard Screw Co., a thru h.
Rimat, Inc., e.
Joseph T. Ryerson & Son, Inc., a.
Saginaw Bearing Co., b, e, h.
Ray A. Schorer & Co., g, b, h.
Scovill Mfg. Co., h.
Show Process Development Corp., Div. British Industries Corp., e, f.
Shenango Furnace Co., The, Centrifugally Cast Products Div., a, b.
Sims Castings Corp., f.
Solpa Foundry, Inc., h.
Springfield Brass Co., Inc., b, f, h.
Standard Steel Works Div. Baldwin-Lima-Hamilton Corp., g.
Stearns-Roger Mfg. Co., The, g.

Superior Carbon Products Inc., c thru f.
Swayne, Robinson & Co., e thru h.
T. O. D. Mfg. Co. Inc., c, d, e.
Techni-Cast Corp., b.
Arthur Tickle Engrg. Works, Inc., f, h.
Titan Metal Mfg. Co., Div.-Cerro de Pasco Corp., d.
True Alloys Inc., b, h.
United Shoe Machinery Corp., e thru h.
U. S. Pipe & Foundry Co., Steel & Tubes Div., a, b.
Vascoloy-Ramet Corp., a, b, e, f.
Vilter Mfg. Co., The, g.
Wai Met Alloys Co., g, h.
Waukesha Foundry Co., g, h.
Wayne Foundry & Stamping Co., h.
Wellman Bronze & Aluminum Co., h.
Western Automatic Machine Screw Co., Div. Standard Screw Co., g, h.
Western Iron & Foundry Co., Inc., c, g.
Westinghouse Electric Corp., c thru f.
Wheel Craft Inc., b, f.
Wisconsin Aluminum Foundry Co., Inc., f, h.
Worthington Corp., g, h.

CATAPULTS

ACF Industries Inc.
All American Engrg. Co.
Arnolt Corp.
Beacon Steel Corp.
E. W. Bliss Co.
A. M. Byers Co.
Colonial Aircraft Corp.
Gabriel Co., Rocket Power-Talco
Industrial Equipment Div., Baldwin Lima Hamilton Corp.
Link-Belt Co.
Lithium Corp. of America Inc., The Fulton-Irgon Div.
Lofstrand Co., The
Mechanics Research Div., American Machine & Foundry Co.
Olin Mathieson Chemical Corp., Winchester-Western Div.
Ordnance Engrg. Associates, Inc.
Ordnance Research & Development Co., Div. Bermet Powder Co.
Propellex Chemical Div., Chromalloy Corp.
Southwest Research Institute
Thiokol Chemical Corp., Hunter-Bristol Div.
Van Zelm Associates, Inc.
Weatherhead Co., The
Westinghouse Electric Corp.
Young Development Div., Hercules Powder Co.

CATHODES

Associated Engrg. & Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
J. Bishop & Co., Platinum Works
Engelhard Industries, Inc.
Hammitt-Mercury-Rex Div.
Huyck Systems Co.
*RADIO CORP. OF AMERICA
Research Development Mfg. Inc.
Stromberg-Carlson, San Diego, General Dynamic Corp.
Superior Tube Co.
Thermionic Products Co.

CELLS, PHOTOELECTRIC

Cloirex Corp.
Continental Electric Co.
Eastman Kodak Co.
Electron-Radar Products
General Electric Co., Apparatus Sales Div.
Hoffman Electronics Corp., Semiconductor Div.
Infrared Industries, Inc.
International Rectifier Corp.
JEM Electronics Corp.
Lockheed Aircraft Corp., Missiles & Space Div.
*RADIO CORP. OF AMERICA
Resitron Labs, Inc.
Special Products Dept., Melpor, Inc.
Sunstrand Turbo
Transitron Electronic Corp.
Vickers Inc., Electric Products Div.
Wells Industries Corp.

CELLS, STANDARD

Leads & Northrup Co.
Muirhead Instruments Inc.

CEMENT

- a. Asbestos
- b. Pipe-Joint
- c. Plastic
- d. Rivet
- e. Rubber
- f. Rubber-to-Metal
- g. Wood

Allied Plastics Supply Corp., b, c.
American Lotex Products Corp., a thru g.

American Products Mfg. Co., e, f, g.
Anchor Packing Co., The, a, b, c, e.
Armstrong Cork Co., c, e, f, g.
Avondale Co., The, e, f, g.
Carl H. Biggs Co., c, f, g.
Bjorksten Research Labs. for Industry, Inc.
Bloomingdale Rubber Co., f.
Borden Chemical Co., b, c, e, f, g.
Cadillac Plastic & Chemical Co., c.
Carborundum Co., The
Connecticut Hard Rubber Co., The, e, f.
DBM Research Corp., c.
Dennis Chemical Co., g.
E. I. Du Pont de Nemours & Co. Inc., c, e, f, g.
Eagle-Picher Co., The, a.
Eco Engr. Co., b.
Emerson & Cuming, Inc., c.
Epoxy Products, Inc. Div. Joseph Waldman & Sons, c.
L. W. Ferdinand & Co. Inc., c, e, f, g.
Furane Plastics, Inc., b, c, f, g.
G-C Electronics Co., c, f.
B. F. Goodrich Aviation Products, e, f.
B. F. Goodrich Industrial Products Co., c, e, f, g.
Goodyear Tire & Rubber Co., The, Aviation Products Div., e.
Hastings Plastics, Inc., c, f.
R. M. Hollingshead Corp., b, c, e.
Homalite Corp., The, c.
Harsey, Robson & Co. Inc., c.
Johns-Manville Sales Corp., a.
Krylon, Inc., g.
Lam-Ply, Inc., f.
Lamtex Industries Inc., c.
Maos & Waldstein Co., c.
Marblette Corp., The, c.
*MINNESOTA MINING & MFG. CO., c thru g.
C. P. Moyer Co., c, e, f, g.
New England Tape Co., Div. United-Carr Fastener Corp., c.
Norrich Plastics Corp., c thru f.
Nureco, Inc., c, f.
Parker Fittings & Hose Div., Parker-Hannifin Corp., b.
Permacel, e, f, g.
Permatex Co., Inc., b, c, e, f.
Raybestos-Manhattan, Inc., c, e, f.
Ren Plastics, Inc., c.
Roberts Toledo Rubber Co., The, e, f.
Rubbercraft Corp. of California, e, f.
Suaresen Cements Co., a, b, c, e, f, g.
Ray A. Schorer & Co., e, f.
Topper Mfg. Co., Inc., c, e, f, g.
U. B. S. Chemical Co., Div. A. E. Staley Mfg. Co., a, c, e, f.
Union Asbestos & Rubber Co., a.
United Shoe Machinery Corp., e.
United States Plywood Corp., g.
United States Rubber Co., e, f.
United States Steel Corp.
X-Pando Corp., b.
Xylox Rubber Co., Div. The Firestone Tire & Rubber Co., c, e, f, g.
Zophar Mills Inc., a, b, c.

CERAMICS

Alite Div., U. S. Stoneware Co.
Aluminum Co. of America
American Feldmuehle Corp.
American Lava Corp.
Avco Corp.-Research & Advanced Development Div.
B G Corp., The
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bergen Carbide Co.
Bermite Powder Co.
Bethinger Corp.
Birnbock Radio Co., Inc.
Bjorksten Research Labs. for Industry, Inc.
Carborundum Co., The
Carborundum Co., Iatrobe Plant, Refractories Div.
Carborundum Co., Refractories Div.
Centrol, Div. Globe-Union, Inc.
*CONSOLIDATED ELECTRODYNAMICS CORP.
Corning Glass Works
Curtiss-Wright Corp., Santa Barbara Div.
Diamonite Products Mfg. Co.
Double E Products Co.
Du-Co Ceramics Co.
Duramic Products, Inc.
Edo Corp.
Electric Autolite Co., The
Emerson & Cuming, Inc.
Erie Resistor Corp.
Ferroxcube Corp. of America
Frenchtown Porcelain Co.
General Ceramics Div., Indiana General Corp.
General Electric Co., Insulator Dept.
General Electric Co., Missile & Space Vehicle Dept., Pa.
General Magnetic Corp.
Gladding, McBean & Co.
W. R. Grace & Co., Davison Chem. Div., Nuclear Reactor Mat. Plant

Gulton Industries, Inc.
 Harbison-Walker Refractories Co.
 Hermetic Seal Corp. & Thermal Controls, Inc.
 Hughes Tool Co., Aircraft Div.
 Isolantite Mfg. Corp.
 M. Kirchberger & Co., Inc.
 Lapp Insulator Co., Inc., Radio Specialties Div.
 Metal Carbides Corp.
 Metallizing Co. of Los Angeles Inc.
 Mica Fabricating Co.
 James Millen Mfg. Co. Inc.
 *MINNESOTA MINING & MFG. CO.
 Mitronics Inc.
 Morganite, Inc.
 Motorola, Inc.
 NUMEC: Nuclear Materials & Equipment Corp.
 National Beryllia Corp.
 National Ceramic Co.
 Norton Co., New Products Dept.
 Ohlson Empire Inc.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Pittsburgh Corning Corp.
 Quartzite Processing Inc.
 *RADIO CORP. OF AMERICA
 Refractories Div., The Ferro Corp., Louthan Plant
 Rogers Corp.
 Soxonburg Ceramics, Inc.
 Sheridan-Gray, Inc.
 Sintercast Div., Chromalloy Corp.
 Solar Mfg. Corp.
 Southwest Research Institute
 Star Porcelain Co., The
 Superior Steatite & Ceramic Corp.
 Thor Ceramics, Inc.
 Topper Mfg. Co., Inc.
 U. S. Sonics Corp.
 Vascoloy-Ramet Corp.
 Western Gold & Platinum Co.
 Westinghouse Electric Corp.
 Zirconium Corp. of America

CESIUM

American Potash & Chemical Corp.
 American Potash & Chemical Corp., National Northern Div.
 Bio-Rad labs.
 Bram Metallurgical Chemical Co.
 Budd Co., The
 City Chemical Corp.
 Delta Chemical Works, Inc.
 Instrument Div., The Budd Co.
 Semi-Elements, Inc.
 United Mineral & Chemical Corp.
 Var-Loc-Chemical Co.

CHAIN, SMALL DRIVE

Bead Chain Mfg. Co., The
 Boston Gear Works
 Continental-Emsco Co., Div.-The Youngstown Sheet & Tube Co.
 Diamond Chain Co. Inc.
 Dodge Mfg. Corp.
 Lear, Inc.
 Link-Belt Co.
 Robot Industries Inc.
 Sierra Engrg. Co.

CHAINS

Acme Chain Corp.
 American Chain Div., American Chain & Cable Co., Inc.
 Bead Chain Mfg. Co., The
 Campbell Chain Co.
 Columbus Mc Kinnon Chain Corp.
 Dodge Mfg. Corp.
 Eastern Rotorcraft Corp.
 Electric Steel Foundry Co.
 Jeffrey Mfg. Co., The
 Link-Belt Co.
 McKay Co., The
 National Screw & Mfg. Co., The

CHAMBERS

- Acoustic
- Alpha, Nuclear
- Environmental
- Ionization
- Shielded Screen
- Temperature & Humidity
- Test

Ace Engrg. & Machine Co., Inc., c, e.
 Aero-Test Equipment Co., Inc., c, f, g.
 Aerotest Laboratories, Inc., g.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc., c.
 American Cor & Foundry Div., ACF Industries, Inc., g.
 American Instrument Co., Inc., c, f, g.
 American Latex Products Corp., c, f.
 American Machine & Foundry Co., g.
 American Research Corp., c, f, g.

Anchor Specialty Mfg. Co. Inc., c, f, g.
 Applied Physics Corp., d.
 Associated Testing Labs., Inc., a, c, f, g.
 Auto-Control Labs. Inc., c, f, g.
 Beacon Steel Corp., a, c, e, f, g.
 Belmar Wheel & Machine Co., Inc., e, f, g.
 Bendix Aviation Corp., Cincinnati Div., d.
 CBS Laboratories, Div.-Columbia Broadcasting System, a.
 Chance Vought Aircraft, Inc., e, f.
 Chicago Bridge & Iron Co., c, f, g.
 Cincinnati Sub Zero Products, c, f, g.
 Conrad, Inc., c, f, g.
 Consolidated Vacuum Corp., c.
 Cryogenerators, Inc., c, f.
 Daystrom, Inc., Military Electronics Div., a.
 Dean Products, Inc., c.
 Development Engrg. Co., Inc., c, f, g.
 Double E Products Co., c, e, g.
 Emerson & Cuming, Inc., a, e.
 Emhart Mfg. Co., Maxim Div., a.
 Enfab Inc., a.
 Engrg. Specialties, d.
 Flight Support, Inc., g.
 Frick Co., c, thru f.
 Garlock Packing Co.
 General Electric Co., Apparatus Sales Div., d.
 General Electric Co., X-Ray Dept., d.
 General Vacuum Corp., c.
 Guardite Co., Div.-American-Marietta Co., c, f, g.
 Gyrex Corp., The, c.
 Hohn & Cloy, g.
 Harris Refrigeration Co., c, f, g.
 Haskel Engrg. & Supply Co., g.
 High Vacuum Equipment Corp., Sub-Robinson Tech. Products, Inc., c, d, f, g.
 Highland Engrg. Co., g.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP., c, g.
 I. I. S. Instrument Div., The Meriam Instrument Co., g.
 Ideal-Aerosmith, Div.-Royal Industries, Inc., g.
 Industrial Acoustics Co., Inc., a.
 Industrial Filter & Pump Mfg. Co., c, f, g.
 International Electronic Research Corp., d.
 International Steel Co., a, thru g.
 Interstate Electronics Corp., b, d.
 Isotapes Specialties Co., Div.-Nuclear Corp. of America, b, d.
 Jack & Heintz, Inc., f.
 Jamison Cold Storage Door Co., a, c, f, g.
 Jonke & Co. Inc., a, c, e, g.
 Kohn & Co., Inc., g.
 Koiser Fleetwings, Inc., g.
 Jones Knights Co., The, f.
 Magee-Bralla & Associates, c.
 *MARTIN CO., THE, DENVER DIV., a, c, e, f, g.
 McMillan Companies, The, a, e, g.
 Mechronics Research Div., American Machine & Foundry Co., c.
 Missimers Inc., c, f, g.
 John Mohr & Sons, c.
 Murphy & Miller Inc., c, f, g.
 Nooter Corp., g.
 Northeast Metals Industries, Inc., f, g.
 Northrop Corp., c, f, g.
 Nuclear Corp. of America, b, d.
 Nuclear Development Corp. of America, a, e.
 Nuclear Development Lab., d.
 Nuclear Measurements Corp., b, d.
 Nuclear-Chicago Corp., b, d.
 Ohmart Corp., The, b, d.
 Opelika Welding, Machine & Supply Inc., c, g.
 Owens-Corning Fiberglas Corp., a.
 Patterson Moos Research, Div.-Leesona Corp., d.
 Pittsburgh Corning Corp., a, f, g.
 Portland Copper & Tank Works Inc., c, f.
 *RADIO CORP. OF AMERICA, a thru g.
 Research, Inc., c, f, g.
 Rimok, Inc., c, e.
 Rolock Inc., g.
 Rototest Labs., Inc., a.
 Schoevitz Engrg., c.
 Scientific Engrg. Labs, Inc., c.
 Shielding, Inc., a, c, e, f, g.
 South Wind Div., Stewart Warner Corp., g.
 Southwest Research Institute, a.
 State Testing Laboratory Inc., g.
 Statham Development Corp., c, f, g.
 Statham Instruments, Inc., c, f, g.
 F. J. Stokes Corp., c, g.
 Stromberg-Carlson Div.-General Dynamics Corp., a.
 Swift Textile Metallizing & Laminating Corp., e.
 Temperature Engrg. Corp., c, f, g.
 Tenney Engrg., Inc., c, f, g.
 Textstar Plastics, Div.-The Textstar Corp., g.
 Therman Mfg. Co., c, f.
 Topatron, Inc., e, g.
 Uni-Flex Mfg. & Engrg. Inc., c.
 United States Testing Co., Inc., c, f, g.
 Universal Dynamics Corp., f.
 Vacuum Specialties Co., Inc., b, c, f, g.
 Victoreen Instrument Co., b.

Warren Components, Div.-El-Tronics, Inc., f.
 Webber Engrg. Corp., c, f, g.
 Webber Mfg. Co., Inc., c, f, g.
 Zippertubing Co., The, a, e.

CHARGES, BATTERY

Allen Electric & Equipment Co.
 American Rectifier Corp.
 Automatic Switch Co.
 Bogue Electric Mfg. Co.
 Carol Electronics Corp.
 Chatham Electronics Div.-Tung-Sol Electric Inc.
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.
 Consolidated Diesel Electric Corp.
 Cornell-Dubilier Electric Corp.
 Joe Davidson & Associates
 Deltron Inc.
 Djeco, Div.-Djordjevic Engrg. Co.
 Dresser Electric Co.
 Electric Autolite Co., The
 *EQUIPMENT DIV., RAYTHEON CO.
 Esso Standard, Div.-Humble Oil & Refining Co.
 Fisher Scientific Co., Maryland
 John Fluke Mfg. Co., Inc.
 Gotes Electric Co.
 General Electric Co., Apparatus Sales Div.
 Gulton Industries, Inc.
 Hammett-Mercury-Rex Div.
 Hathaway Instruments, Inc.
 Hobart Brothers Co.
 Hoffman Electronics Corp., Semiconductor Div.
 Hol-Gor Mfg. Corp.
 Homelite, Div.-Textron Inc.
 ITI Electronics, Inc.
 *INTERELECTRONICS CORP.
 Jeta, Inc.
 LeLond Airborne Products, Div.-American Machine & Foundry Co.
 Lincoln Electric Co., The
 Macorr, Inc.
 Madigan Corp.
 P. R. Mollory Co., Inc.
 *MARTIN CO., THE, DENVER DIV.
 Model Rectifier Corp.
 J. J. Monaghan Co., Inc.
 Motor Appliance Corp.
 Motor Generator Corp.
 D. W. Onan & Sons Inc.
 Opad Electric Co.
 Power Supplies Inc.
 Radio Development & Research Corp.
 Snap-On-Tools Corp.
 Sonitone Corp.
 Stewart & Stevenson Services, Inc.
 Sun Electric Corp., Aeronautical Div.
 Technical Apparatus Builders
 Telkor, Inc.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co.
 Westinghouse Electric Corp.
 Wickes Engrg. & Construction Co.
 Winder Aircraft Corp. of Florida

CHASSIS, CABINET

A&P Metal Products Mfg. Corp.
 Aircraft Tools, Inc.
 Alden Products Co.
 Allen Electric & Equipment Co.
 Amco Engrg. Co.
 Arison Metal Works Co.
 Associated Engineers, Inc.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
 Brooks & Perkins, Inc.
 Bud Rodio, Inc.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Conrad & Moser
 Cutler Metal Products Co.
 Doak Aircraft Co. Inc.
 Donnelly Mfg. Co.
 Elijay Corp.
 Etzoe Metal Products Co., Inc.
 Falstrom Co.
 Farwell Metal Fabricating
 Fouch Electric Mfg. Co., Inc.
 General Metal Products Co.
 Gremco, Inc.
 Hanry & Miller Industries, Inc.
 Ludwig Donald Mfg. Co.
 Jeta, Inc.
 Kellen Aircraft Corp.
 Kelsey-Hayes Co.
 Kirk & Blum Mfg. Co., The
 Laminated Shim Co., Inc.
 Leemoth Inc.
 Lolstrom Co., The
 R. H. Lynch Mfg. Co.
 *MARTIN CO., THE, DENVER DIV.
 Meridian Metalcraft, Inc.
 Metal Fabricators Corp.

Northeast Metals Industries, Inc.
 Piasecki Aircraft Corp.
 Pneumafil Corp.
 Portland Copper & Tank Works Inc.
 Premier Metal Products Co.
 Projects Unlimited, Inc.
 Pryor Mfg. Co.
 REF Mfg. Corp.
***RADIO CORP. OF AMERICA**
 Rimak, Inc.
 Royal Jet, Div.-Royal Industries, Inc.
 Sheridan-Gray, Inc.
 Southwestern Industrial Electronics Co.
 Standard Electronics Div.-Reeves Instrument Corp.
 Sun Electric Corp., Aeronautical Div.
 Teltor, Inc.
 Templet Industries Inc.
 Tober Electronic Corp.
 Twin Coach Co., Aircraft-Missiles
 Twix Mfg. Co., Inc.
 Unified Industries, Inc.
 United Aircraft Products, Inc.
 United States Chemical Milling Corp.
 Victor Tool & Mfg., Inc.
 Waco Aircraft Co.
 Weber Aircraft Corp.
 Walls Industries Corp.
 Western Devices Inc.
 Westholt Mfg. Inc.
 Winder Aircraft Corp. of Florida
 Wyco Metal Products
 Zero Mfg. Co.

CHASSIS, METAL

A & E Metal Specialties Inc.
 A&P Metal Products Mfg. Corp.
 Aircraft Tools, Inc.
 Alden Products Co.
 Allen Electric & Equipment Co.
 Amco Engrg. Co.
 American Aluminum Co.
 Artisan Metal Works Co.
 Associated Engineers, Inc.
 B. H. Aircraft Co., Inc.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
 Belmar Wheel & Machine Co., Inc.
 Brooks & Perkins, Inc.
 Bud Radio, Inc.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Conrad & Moser
 Crane Carrier Corp.
 Cutler Metal Products Co.
 Doak Aircraft Co. Inc.
 Doehler-Jarvis Div., National Lead Co.
 Dannelly Mfg. Co.
 Eljay Corp.
 Elzee Metal Products Co., Inc.
***EXCELCO DEVELOPMENTS INC.**
 Falstrom Co.
 Farwell Metal Fabricating
 Flight Refueling, Inc.
 Fouch Electric Mfg. Co., Inc.
 General Metal Products Co.
***HORKEY-MOORE ASSOCIATES, SUB-HOUSTON
 FEARLESS CORP.**
 Ludwig Harold Mfg. Co.,
 Jeta, Inc.
 Kaiser Fleetwings, Inc.
 Kellatt Aircraft Corp.
 Kellogg Switchboard & Supply Co., Communications
 Div.-ITT Corp.
 Kalsay-Hayes Co.
 Kirk & Blum Mfg. Co., The
***LAVELLE AIRCRAFT CORP.**
 Leemath Inc.
 Loftstrand Co., The
 R. H. Lynch Mfg. Co.
***MARTIN CO., THE, DENVER DIV.**
 Meridian Metalcraft, Inc.
 Metal Fabricators Corp.
 Northeast Metals Industries, Inc.
 P. B. R. Mfg. Co.
 Parts Engrg. Co., Inc.
 Paul & Beekman, Inc.
 Piasecki Aircraft Corp.
 Pneumafil Corp.
 Portland Copper & Tank Works Inc.
 Premier Metal Products Co.
 Projects Unlimited, Inc.
 Pryor Mfg. Co.
 REF Mfg. Corp.
***RADIO CORP. OF AMERICA**
 Rimak, Inc.
 Royal Jet, Div.-Royal Industries, Inc.
 Sheridan-Gray, Inc.
 Skyline Products, Inc.

Southwestern Industrial Electronics Co.
 Specialty Electronics Development Corp.
 Spincraft, Inc.
 Stamping Div.-Rockwell Standard Corp.
 Standard Electronics Div.-Reeves Instrument Corp.
 Teltor, Inc.
 Templet Industries Inc.
 Tober Electronic Corp.
 Twin Coach Co., Aircraft-Missiles
 Twix Mfg. Co., Inc.
 Unified Industries, Inc.
 United Aircraft Products, Inc.
 United States Chemical Milling Corp.
 Victor Tool & Mfg., Inc.
 Waco Aircraft Co.
 Weber Aircraft Corp.
 Wells Industries Corp.
 Western Devices Inc.
 Westholt Mfg. Inc.
 Wickes Engrg. & Construction Co.
 Winder Aircraft Corp. of Florida
 Wyco Metal Products
 Zero Mfg. Co.

CHECKER, CABLE

Barker Sales Co.
 Beacon Steel Corp.
 Bendix Aviation Corp.
 Briggs Associates, Inc.
 Calvert Electronics Inc.
 Dale Products, Inc.
 Dit-Mco, Inc.
 Food Machinery & Chemical Corp., Ordnance Div.
 I-I-S Instrument Div., The Meriam Instrument Co.
 Intercontinental Dynamics Corp.
 Kay Electric Co.
 Leemath Inc.
***MARTIN CO., THE, DENVER DIV.**
 Minneapolis-Honeywell Regulator Co., Missile Equip-
 ment Div.
 Muirhead Instruments Inc.
 George I. Nankervis Co.
 Northrop Corp.
 Optimized Devices, Inc.
 Pacific Automation Products, Inc.
***RCA, RCA SERVICE CO., GOV'T. SERVICE DEPT.,
 SYSTEMS ENGRG. FACILITY**
 Sierra Electronic Corp., Div.-Philco Corp.
 Special Products Dept., Melpor, Inc.
 Specialty Electronics Development Corp.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp.
 Sunshine Scientific Instrument
 Technical Electronics Co., Div.-Consolidated Elec-
 tronic Industries
 Wickes Engrg. & Construction Co.

CHECKERS, CATHODE RAY TUBE

Calvert Electronics Inc.
 Hammett-Mercury-Rex Div.
***MARTIN CO., THE, DENVER DIV.**
 Minneapolis-Honeywell Regulator Co., Missile Equip-
 ment Div.
 Paco Electronics Co., Inc.
 Pioneer Industries Div., Almar-York Co. Inc.
***RADIO CORP. OF AMERICA**

CHECKERS, CRYSTAL RECTIFIER

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
 Calvert Electronics Inc.
 General Radio Co.
***MARTIN CO., THE, DENVER DIV.**
 Minneapolis-Honeywell Regulator Co., Missile Equip-
 ment Div.
 Motorola, Inc.
 Munston Electronic Mfg. Corp.
 Paco Electronics Co., Inc.
***RADIO CORP. OF AMERICA**

CHECKERS, KLYSTRON TUBE

Calvert Electronics Inc.
 Minneapolis-Honeywell Regulator Co., Missile Equip-
 ment Div.
 Paco Electronics Co., Inc.
***RADIO CORP. OF AMERICA**
 Sperry Microwave Electronics Co., Div.-Sperry Rand
 Corp.

CHEMICALS

a. Dehumidifying
 b. Electroplating
 c. Radioactive
 d. Tube
 e. Wire Stripper
 Allied Chemical Corp., General Chemical Div., b, d.
 Allied Research Products, Inc., b.
 Aluminum Co. of America, a.
 American Oil & Supply Co., a, b.
 American Potash & Chemical Corp., National North-
 ern Div., c.

American Smelting & Refining Co., b.
 Anderson Chemical Co., Div.-Stauffer Chemical Co.
 Antara Chemicals, Div.-General Aniline & Film Corp.,
 b.
 Armour Industrial Chemical Co.
 Associated Engrg. & Mfg. Corp.
 J. T. Baker Chemical Co., c, d.
 Barco Chemical Products Co., b, d.
 Barium & Chemicals, Inc., a, b, d.
 Becco Chemical Div.-Food Machinery & Chemical
 Corp., b.
 Better Finishes & Coatings Inc., b.
 Bio-Rad Labs., c.
 J. Bishop & Co., Platinum Works, b.
 Bjorksten Research Labs. for Industry, Inc.
 Budd Co., The, c.
 Callery Chemical Co.
 City Chemical Corp., a, b.
 Clarkson Labs., Inc., The, b.
 Commercial Services Co., Inc., a.
 Cowles Chemical Co., b.
 DBM Research Corp., a.
 Delta Chemical Works, Inc., a thru e.
 Division Lead Co., e.
 Dow Chemical Co., The, a.
 Driaire, Inc., a.
 E. I. Du Pont de Nemours & Co. Inc., b.
 Enthone Inc., b, e.
 Fidelity Chemical Products Corp., b, d, e.
 Fisher Scientific Co., b.
 Fisher Scientific Co., Maryland
 Food Machinery & Chemical Corp.-Chemical & Plas-
 tics Div.
 Food Machinery & Chemical Corp.-Dapon Dept.
 Food Machinery & Chemical Corp.-Epoxy Dept.
 Food Machinery & Chemical Corp.-Mineral Products
 Div.
 Foote Mineral Co., a.
 General American Transportation Corp., b.
 General Electric Co., Lamp Metals & Components
 Dept., d.
 W. R. Grace & Co., Davison Chem. Div., Nuclear
 Reactor Mat. Plant, c.
 Hanson-Van Winkle-Munning Co., b.
 Hercules Powder Co., Chemical Propulsion Div.
 Isotopes Specialties Co., Div.-Nuclear Corp. of
 America, c.
 Kelite Corp.
 Ith Mfg. Co., The, b.
 Lithium Corp. of America Inc., The Fulton-Irgon Div.,
 a.
 London Chemical Co., Inc., e.
 Merix Chemical Co., a.
 Metal Hydrides Inc., a.
 Metal & Thermit Corp., b.
***MINNESOTA MINING & MFG. CO., c.**
***MINNESOTA MINING & MFG. CO.-CHEMICAL
 DIV.**
 NUMEC-Nuclear Materials & Equipment Corp., c.
 Nuclear-Chicago Corp., c.
 Olin Mathieson Chemical Corp., N. Y.,
 b, d, e.
 Reynolds Metals Co., a.
 Robbins Aviation, Inc., a.
 Trinity Equipment Corp., a.
 Tico Chemical Works, Inc., a.
 Turco Products, Inc.
 United Mineral & Chemical Corp., a.
 United States Radium Corp., c.
 Universal Dynamics Corp., a.
 Var-Iac-Oid Chemical Co., b, d.
 Wells Industries Corp., a.
 Wyandotte Chemicals Corp., b.

CHOKES

ACDC Electronics, Inc.
 ADC Inc.
 AMP Inc.
 Acme Electric Corp.
 Aerovox Corp.
 Aladdin Electronics, Div.-Aladdin Industries Inc.
 American Rectifier Corp.
 Arnold Magnetics Corp.
 Barwood Electronics Inc.
 Bendix Aviation Corp.
 S. Blickman, Inc.
 Bogue Electric Mfg. Co.
 Bud Radio, Inc.
 Caledonia Electronics & Transformer Corp.
 Central Transformer Co.
 Chicago Electronic Engrg. Co., Inc.
 Chicago Standard Transformer Corp.
 Coil Co. of America
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
 THEON CO.**
 Dayton, Inc., Military Electronics Div.
 De Havilland Aircraft of Canada, Ltd., Special Pro-
 ducts Div.
 Delevan Electronics Corp.
 Double E Products Co.
 Electronic Transformer Co., Inc.

***EQUIPMENT DIV., RAYTHEON CO.**

Fisher Engrg., Inc. *
 Forbes & Wagner, Inc.
 Fugle-Miller Labs. Inc.
 Gates Electronic Co.
 Genstron, Inc.
 Paul E. Gerst & Co.
 Donald C. Harder Co.
 George E. Harris & Co., Inc.
 Induction Heating Corp.
***INTERELECTRONICS CORP.**
 James Electronics Inc.
 Keystone Products Co.
 Langevin Div., The W. L. Maxson Corp.
 Lear, Inc.
 Magnetic Circuit Elements, Inc.
 Mid-West Coil & Transformer Co.
 James Millen Mfg. Co., Inc.
 J. W. Miller Co.
 Sanford Miller Co.
 Motorola, Inc.
 National Coil Co.
 Nytronics, Inc., Essex Electronics Div.
 Opad Electric Co.
 Ortho Filter Corp.
 Penn-East Engrg. Corp.
 Permoflux Products Co.
 Precise Development Corp.
 Radio Development & Research Corp.
 Sangamo Electric Co.
 Servomechanisms, Inc.
 Southwestern Industrial Electronics Co.
 Standard Electronics Div., Reeves Instrument Corp.
 Sun Electric Corp., Aeronautical Div.
 Superex Electronics Corp.
 Technical Apparatus Builders
 Telex, Inc.
 Torwico Electronics, Inc.
 Transformers, Inc.
 Tresco, Inc.
 Triad Transformer Corp.
 Universal Toroid Coil Winding, Inc.
 Universal Transistor Products Corp.
 Valor Instruments, Inc.
 Vanguard Electronics Co.
 Varo Mfg. Co., Inc.
 Virginia Electronics Co., Inc.
 Wahlgren Magnetics, Div.-Marshall Industries
 Westinghouse Electric Corp.

CHROMATOGRAPHS

American Instrument Co., Inc.
 Bio-Rad Labs.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Fischer & Porter Co.
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 Gardner Laboratory, Inc.
 Hallikainen Instruments
 Hamilton Watch Co., Military Products Div.
 Jarrell-Ash Co.
 Leeds & Northrup Co.
 Perkin-Elmer Corp.
 Scientific & Process Instruments Div.-Beckman Instruments, Inc.
 Southwest Research Institute

CHROMATOGRAPHS, VAPOR PHASE

American Instrument Co., Inc.
 Bio-Rad Labs.
 Central Scientific Co.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 Hallikainen Instruments
 Jarrell-Ash Co.
 Leeds & Northrup Co.
 Perkin-Elmer Corp.
 Southwest Research Institute

CHROMIUM

Belmont Smelting & Refining Works, Inc.
 Bram Metallurgical Chemical Co.
 Chicago Development Corp.
 Chromium Corp. of America
 City Chemical Corp.
 Delta Chemical Works, Inc.
 Hughes Tool Co., Aircraft Div.
 Metal & Thermit Corp.
 Southwest Research Institute
 Union Carbide Metals Co., Div.-Union Carbide Corp.
 United Mineral & Chemical Corp.
 Van der Horst Corp. of America
 Vanadium Corp. of America
 Var-Loc-Oid Chemical Co.

CHROMOGRAPHS

Bergen Labs., Inc.
 M. Ducommun Co.
 Electro-Medical Lab., Inc.

Epic, Inc.
 Garwin, Inc.
 Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products Div.
 Jardur Aviation Co.
 Jardur Import Co.
 Herman H. Sticht Co., Inc.

CHROMOMETERS

Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products Div.
 Herman H. Sticht Co., Inc.

CHRONOSCOPES

Presin Co.
 Herman H. Sticht Co., Inc.

CIRCUITS

- a. Computer, Logic
- b. Computer, Packaged
- c. Plated
- d. Plug-In

ACDC Electronics, Inc., d.
 ACF Industries Inc., a, b, d.
 ACF Electronics Div., ACF Industries Inc., b.
 Accurate Electronics Corp., a thru d.
 Adage, Inc., a, b, c.
 Advance Industries, Inc., a thru d.
 Aerona Mfg. Corp.-Aerospace Div., a, b.
 Alwac Computer, Div.-El-Tronics Inc., a, b.
 Analogue Controls, Inc., b.
 Arthur Ansley Mfg. Co., c, d.
 Avien, Inc., b.
 E. Bauches S. A., Freeport Engrg. Co., d.
 Becker Electronics Mfg. Corp., a, b, d.
 Belock Instrument Corp., a, b, d.
 Bendix Aviation Corp., a, b, d.
 Bendix Aviation Corp., Cincinnati Div., a, b, d.
 Briggs Associates, Inc., a.
 Broadview Research Corp., a, b.
 Bruno New York Industries Corp., a, b, d.
 Budd Lewyt Electronics, Inc., a, b, d.
 Burr-Brown Research Corp., b, d.
 Burton Rodgers, Inc., a, b, d.
 CBS Laboratories, Div.-Columbia Broadcasting System, a.
 CG Electronics Corp., c, d.
 CGS Labs., Inc., a.
 C & K Components, Inc., a, b, d.
 California Plasteck Inc., c, d.
 Cambridge Thermionic Corp., b.
 Chalco Engrg. Corp., b, c, d.
 Chance Vought Aircraft, Inc., a, b, c.
 Cleveland Metal Specialties Co., Electronics Div., a, b, d.
 Cleveite Ordnance, Div.-Cleveite Corp., a, d.
 Colorado Research Corp., b, c, d.
 Combined Electronics Inc., c.
 Computer Control Co., Inc., a, b.
 Computer Control Co., Inc., Western Div., a, b.
 Control Circuits Inc., b, d.
 Control Electronics Co., Inc., b.
 Croname Inc., c.
 Curtiss-Wright Corp., Electronics Div., IMI Branch, d.
 Curtiss-Wright Corp., Santa Barbara Div., d.
 Daystrom, Inc., Military Electronics Div., a thru d.
 Daystrom Inc., Pacific Div., b.
 Delco Radio Div.-General Motors Corp., a thru d.
 Digitronics Corp., a, d.
 Djeco, Div.-Djordjevic Engrg. Co., a.
 Du Kane Corp., d.
 Dynatronics, Inc., a, d.
 Eldorado Electronics, d.
 Electro-Pulse, Inc., d.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., a thru d.
 Erie Resistor Corp., a, b, d.
 Fischer & Porter Co., b.
 Ford Instrument Co., Div.-Sperry Rand Corp., a thru d.
 Foto-Video Labs., Inc., d.
 General American Transportation Corp., c.
 General Electric Co., Ordnance Dept., a, b.
 General Mills, Inc., a, b.
 General Radio Co., b.
 Good Electronic Corp., e, d.
 Graphik Circuits, Div.-Cinch Mfg. Co., c, d.
 Gulton Industries, Inc., a thru d.
 Hammett-Mercury-Rex Div., a, b.
 George E. Harris & Co., Inc., c.
 Hathaway Instruments, Inc., d.
 Hoffman Electronics Corp., Semiconductor Div., a, d.
 ITT Federal Div., International Telephone & Telegraph Corp., a, b, d.
***KEARFOTT DIV., GENERAL PRECISION, INC.**, b.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., d.
 James Knights Co., The, d.
 La Pointe Industries Inc., c.

Lear, Inc., a thru d.
 Libroscope Div., General Precision, Inc., a, b, c.
 Litron Industries, Inc., a, b, c.
 Lockheed Aircraft Corp., Missiles & Space Div., a, b, c.
 Lytle Corp., c.
 Madigan Corp., a thru d.
***MAGNAVOX CO., THE**, a.
 P. R. Mallory & Co. Inc., d.
 Marquardt Corp., The, d.
 Metaplast Co., Inc., c.
 Micro Gee Products, Inc., a, b, d.
 Milgo Electronic Corp., a, b, d.
 James Millen Mfg. Co. Inc., d.
 Modern Design Div.-H. C. Schloer, Inc., a thru d.
 Motorola, Inc., a thru d.
 National Co., Inc., a, b, d.
 Navigation Computer Corp., a, b, d.
 Northrop Corp., a, b.
 Packard Bell Computer Corp., a thru d.
 Packard-Bell Electronics Corp., a thru d.
 Performance Measurements Co., d.
 Radiation, Inc., a.
 Radio Condenser Co., a, b, d.
***RADIO CORP. OF AMERICA**, a thru d.
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**, b, d.
 Ramo-Wooldrige, Div.-Thompson Ramo Wooldrige Inc., a thru d.
***RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.**, b, d.
 Reeves Instrument Corp., b.
 Republic Aviation Corp., Missile Systems Div., a thru d.
 Rese Engrg., Inc., a, b, d.
 Milton Ross Metals Co., The, b, c.
***SEMICONDUCTOR DIV., RAYTHEON CO.**, b.
 Servomechanisms, Inc., a, b, d.
 Sibley Co., The, a thru d.
 Skiatron Electronics & Television Corp., a.
 Southwest Research Institute
 Southwestern Industrial Electronics Co., a, b, c.
 Special Products Dept., Melpor, Inc., a, b, d.
 Sprague Electric Co., a, b, d.
 Stewart-Warner Electronics Div., a, d.
 Superex Electronics Corp., d.
 Tap-A-Line Mfg. Co., d.
 Technical Electronics Co., Div.-Consolidated Electronic Industries, d.
 Telechome Mfg. Corp., a, d.
 Telectro Industries Corp., a, d.
 Telex, Inc., a, b, d.
 Tempo Instrument Inc., a.
 Thompson Ramo Wooldrige Inc., b.
 Tingstol Co., a, c, d.
 Topper Mfg. Co., Inc., d.
 Transistor Electronics Corp., a.
 U.S. Science Corp., Div.-Topp Industries, Inc., b, d.
 Universal Transistor Products Corp., d.
 Valor Instruments, Inc., b, d.
 Vector Electronic Co., Inc., d.
 Virginia Electronics Co., Inc., d.
 Walkin Co., a, b, d.
 Wang Labs., Inc., a thru d.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp., d.
 Zacharias Electronics Corp., a, b, d.

CIRCUITS-PRINTED, STAMPED, ETCHED

ACF Electronics Div., ACF Industries Inc.
 ACF Industries Inc.
 A.R.F. Products, Inc.
 Accurate Electronics Corp.
 Acme Electric Corp.
 Adept Industries Inc.
 Air Logistics Corp.
 Airflyte Electronics Co.
 All American Engrg. Co.
 Amotom Electric Hardware Co. Inc.
 American Printed Circuits Co., Inc.
 Arthur Ansley Mfg. Co.
 Arnoux Corp.
 Associated Engineers, Inc.
 E. Bouches S. A., Freeport Engrg. Co.
 Beech Aircraft Corp.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., York Div.
 Bjorksten Research Labs. For Industry, Inc.
 Blander-Tongue Labs. Inc., Special Products Div.
 Bo Myte Co., Inc., The
 W. H. Brady Co.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc.,
 Burr-Brown Research Corp.
 Burton-Rodgers, Inc.
 CG Electronics Corp.
 California Plasteck Inc.
 Centralab, Div.-Globe-Union, Inc.
 Chalco Engrg. Corp.
 Chance Vought Aircraft, Inc.

Chemical Micro Milling Co.
 Cleveland Metal Specialties Co., Electronics Div.
 Clevite Ordnance, Div.-Clevite Corp.
 Colorado Research Corp.
 Combined Electronics Inc.
 Corning Glass Works
 Croname Inc.
 Curtiss-Wright Corp., Santa Barbara Div.
 Dale Products, Inc.
 Delco Radio Div.-General Motors Corp.
 Electrolob Printed Electronics Corp.
 Electro Instruments, Inc.
 Electronic Circuits
 Elektro-Serv Co.
 Emerson, Sub-Emerson Radio & Phonograph Corp.
 Farwest Mfg. Div., Inc.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 Gates Radio Co.
 Gladding, McBean & Co.
 Good Electronic Corp.
 B.F. Goodrich Aviation Products
 Graphik Circuits, Div.-Cinch Mfg. Co.
 Gulton Industries, Inc.
 W. & L. E. Gurley
 Hansen Electronics Co.
 George E. Harris & Co., Inc.
 I.L.S. Instrument Div., The Meriam Instrument Co.
 Joelin Mfg. Co., The
 Keil Engrg. Products Inc.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc.
 Lab. for Electronics, Inc.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc.
 La Pointe Industries Inc.
 Lear, Inc.
 Librascope Div., General Precision, Inc.
 Litton Industries, Inc.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lytle Corp.
 *MAGNAVOX CO., THE
 Marquardt Corp., The
 Mc Donnell Aircraft Corp.
 Mechanical Felt & Textiles Co.
 *MINNESOTA MINING & MFG. CO.
 Mitronics Inc.
 Modern Design Div.-H.C. Schloer, Inc.
 Molded Insulation Co.
 Motorola, Inc.
 Mycalex Corp. Of America
 Nameplates Inc.
 National Scientific Labs., Inc.
 Navigation Computer Corp.,
 Northrop Corp.
 Owens-Corning Fiberglas Corp.
 Packard Bell Computer Corp.
 Packard Bell Electronics Corp.
 Patterson Moos Research, Div.-Leesona Corp.
 Piasecki Aircraft Corp.
 Precision Circuits, Inc.
 Q-Circuits, Div.-Etching Co. of Calif.
 *RADIO CORP. OF AMERICA
 *RADIO CORPORATION OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 *RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
 Republic Aviation Corp., Missile Systems Div.
 Rogers Corp.
 Milton Ross Metals Co., The
 Sanders Associates, Inc.
 Sibley Co., The
 Sillicocks-Miller Co.
 Southwest Research Institute
 Special Products Dept., Melpar, Inc.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Stromberg-Carlson, San Diego, General Dynamics Corp.
 Sun Electric Corp., Aeronautical Div.
 Sunair Electronics, Inc.
 Superex Electronics Corp.
 Synthone Corp.
 Taylor fibre Co.
 Telechrome Mfg. Corp.,
 Thompson Ramo Wooldridge Inc.
 Tingstol Co.
 Trepac Corp. of America
 Twix Mfg. Co., Inc.
 U.S. Science Corp., Div.-Topp Industries, Inc.
 United States Chemical Milling Corp.
 Voi-Shan Electronics
 Zenith Optical Laboratory

CLAMPS

- a. Conduit
- b. Ground
- c. Harness
- d. Hose

e. Special
 f. Tube
 g. Wire Rope
 Abbot Screw & Mfg. Co., e.
 Adel Precision Products, Div.-General Metals Corp., a, b, c, e.
 Adel Precision Products of Calif., Div.-General Metals Corp., a, c, e, f.
 Aero Spares, Inc., d, f, g.
 Airhardware, Inc., a, c, d, f.
 Alden Products Co., f.
 All Specs Corp., d, f.
 Aluminum Co. of America, a.
 Amatom Electric Hardware Co. Inc., e.
 American Chain & Cable Co., Inc., g.
 Anchor Coupling Co. Inc., d.
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., e.
 Associated Engineers, Inc., c.
 Augat Brothers, Inc., f.
 Wallace Barnes Div., Associated Spring Corp.
 Belmar Wheel & Machine Co., Inc., b.
 Bergen Wire Rope Co., g.
 Best Aircraft Corp., a, b, e, f.
 Birnbach Radio Co., Inc., f, e, f.
 Birtcher Corp., The, e, f.
 Blaco Mfg. Co., b.
 Breeze Corporations, Inc., d.
 Burklyn Co., e.
 Burndy Corp., Omaton Div., d, c, g.
 Cal Connector Co., a.
 California Stamping & Mfg. Co., d, e, g.
 Cambridge Thermionic Corp., f.
 Camloc Fastener Corp., c, e.
 Copewell Mfg. Co., c, e.
 Carr Fastener Co., Div.-United-Carr Fastener Corp., d.
 Continental Rubber Works, d.
 Custom Products Corp., e.
 D.S.D. Mfg. Co., The, e.
 George W. Dahl Co., Inc., f.
 Detroit Stamping Co.
 Deutsch Co., The, Electronic Components Div., a, c.
 Dial Products Co., e.
 Eaton Mfg. Co., Reliance Div., d.
 Ejoy Corp., e.
 Essex Mfg. Co., Inc., a, c thru f.
 FAE Instrument Corp., e.
 Fidelity Chemical Products Corp., g.
 Flexible Tubing Corp., d.
 Foursome Mfg. Co., Inc., d.
 George K. Garrett Co., Inc., d.
 Hallett Mfg. Co., a, b, c, e.
 Harco Labs., Inc., c, e.
 Haskel Engrg. & Supply Co., c, d, f.
 Holub Industries, Inc., a, c, d.
 Hunter Spring Co., Div.-American Machine & Metals, Inc., c, e.
 Walter J. Hyatt Co., The, a, d, e, f.
 Illumitronic Engrg. Co., c.
 Janitral Aircraft Div.-Midland-Ross Corp., e, f.
 Walter K. Jaros Aircrafters, a thru g.
 Joelin Mfg. Co., The, d, e, f.
 Kickhaefer Mfg. Co., a, c, e, f.
 Laminated Shim Co., Inc.
 Arthur S. La Pine & Co., e.
 Lincoln Electric Co., The, b.
 Link-Bell Co.
 M&Q Plastic Products, a, c thru f.
 *MARMAN DIV., AEROQUIP CORP., a, d, e, f.
 *MARTIN CO., THE, DENVER DIV., a thru d.
 James Millen Mfg. Co., Inc., f.,
 Motorola, Inc., e.
 North & Judd Mfg. Co., g.
 Ohlson Empire Inc., d, f.
 Olympic Plastics Co., Inc., a, c, e.
 Panduit Corp., c, f.
 Parker Fittings & Hose Div., Parker-Hannifin Corp., f.
 Parts Engrg. Co., Inc., e.
 Paul & Beekman, Inc., f.
 Peerless Electronics Inc., e, f.
 Prestole Corp., e, f, g.
 *RADIO CORP. OF AMERICA, g.
 Ralton Mfg. Co., The, a, b.
 Remler Co., f.
 Fred T. Roberts & Co., a, c thru f.
 Milton Ross Metals Co., The, c.
 Servicoir Co., a, c.
 S. Sjoberg & Son, a, b, c, e.
 Skytronics, Inc., a, c.
 Specialty Products Corp., d, e.
 TA Mfg. Corp., a, b, c, e, f, g.
 Thomas & Betts Co., Inc., The, a.
 Tinnerman Products, Inc., a, c thru f.
 Titellex, Inc., a, d, e, f.
 Twix Mfg. Co., Inc., b thru e.
 United Supply Co., c.
 Victor Tool & Mfg., Inc., e.
 Western Control Corp., a.
 Wilcox-Crittenden Div., North & Judd Mfg. Co., g.

Winder Aircraft Corp. of Florida, a, b, c, e.
 Wittek Mfg. Co., d.
 Wallam Aircraft & Marine Products Co., e.
 Zippertubing Co., The, c, e, f.

CLEANERS, CONTACT

Amchem Products Inc.
 Barco Chemical Products Co.,
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Coig Labs.
 Chlor-Alkali Div.-Food Machinery & Chemical Corp.,
 Cincinnati Cleaning & Finishing Machinery
 Clarkson Labs., Inc., The.
 Cobehn, Inc.
 Del's Tumbling Service
 Drill Mfg. Co.,
 Ed-Berl Products, Inc.
 FMC Chlor-Alkali Div.
 Fidelity Chemical Products Corp.
 Kano Labs.
 Kelite Corp.
 L&R Mfg. Co.
 London Chemical Co., Inc.
 Magnus Chemical Co., Inc.
 Penetone Co., The
 Quietrole Co.
 Superex Electronics Corp.
 Turco Products, Inc.
 Vapor Blast Mfg. Co.
 Wyandotte Chemicals Corp.
 Wye Industries

CLEANERS, ULTRASONIC

Aircraft Porous Media, Inc.
 Bearing Inspection, Inc.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Pioneer-Central Div.
 Blackstone Corp.
 Branson Instruments, Inc.
 Cincinnati Cleaning & Finishing Machinery
 Circo Equipment Co.
 Circo Ultrasonic Corp.
 Clarkson Labs., Inc., The
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.,
 Curtiss-Wright Corp., Princeton Div.
 Curtiss-Wright Corp., Santa Barbara Div.
 Detrex Chemical Industries, Inc.
 *EQUIPMENT DIV., RAYTHEON CO.
 General Instrument Corp., Defense & Engrg. Products Group
 General Kinetics Inc.
 Gulton Industries, Inc.
 L&R Mfg. Co.
 London Chemical Co., Inc.
 Mc Kenna Labs
 Narda Ultrasonics Corp., The
 National Ultrasonic Corp.
 Penetone Co., The
 Phillips Mfg. Co.
 Standard Electronics Div.-Reeves Instrument Corp.
 Topper Mfg. Co., Inc.
 Turco Products, Inc.
 Westinghouse Electric Corp.
 Wyandotte Chemicals Corp.
 Wye Industries

CLINOMETERS

A. Biederman, Inc.
 Engis Equipment Co.
 Opto-Metric Tools, Inc.
 Warren-Knight Co.

CLIPS

- a. Alligator
- b. Battery
- c. Conduit
- d. Crystal Diode
- e. Special
- f. Spring
- g. Test
- h. Tube
- i. Wire Rope

Abbott Screw & Mfg. Co., b, f.
 Adel Precision Products of Calif., Div.-General Metals Corp., c, e.
 Airhardware, Inc., h.
 Alden Products Co., h.
 Allen Electric & Equipment Co., b, e, f, g.
 Alpitex, Inc., f.
 Amatom Electric Hardware Co. Inc., a.
 American Chain & Cable Co., Inc., g.
 Anchor Specialty Mfg. Co. Inc., e, i.
 Associated Co., Inc., b.
 Associated Engineers, Inc., a.
 Associated Spring Corp., Ohio Div., f.
 Atlee Corp., e, f, h.
 Augat Brothers, Inc., b, d, f, h.

Wallace Barnes Div. Associated Spring Corp., f.
 Belmar Wheel & Machine Co., Inc.
 Bethlehem Steel Co., i.
 Birnbach Radio Co., Inc., a, b, f, g.
 Birtcher Corp., The, d, e, h.
 Burndy Corp., Omaton Div., i.
 Cable Electric Products Inc., b.
 California Stamping & Mfg. Co., e.
 Calinoy-Div.-Illinois Tool Works, e, f.
 Cambridge Thermionic Corp., b, d.
 Carr Fastener Co., Div.-United-Carr Fastener Corp., e, f.
 Custom Products Corp., e.
 E-Z-Hook Test Products, b, e, g.
 Federal Screw Products Inc., a, b.
 G-C Electronics Co., a, b.
 George K. Garrett Co., Inc., f.
 Gatewood Products, Inc., e, f.
 Gemex Corp., The, Indsl. Div., e.
 General Scientific Equipment Co., b.
 Grayhill, Inc., g.
 Hobson Brothers, Inc., f.
 Holub Industries, Inc., c.
 Hunter Spring Co., Div.-American Machine & Metals, Inc., e, f.
 Walter J. Hyatt Co., The, c.
 Industrial Devices, Inc., g.
 Walter K. Jaros Aircrafters, h, i.
 Javex Electronics, a, g.
 Keystone Electronics Corp., d.
 Kickhafer Mfg. Co., c, e, h.
 Laminated Shim Co., Inc., e.
 James Millen Mfg. Co. Inc., h.
 Chester Morton Electronics Corp., a, e, g.
 Mueller Electric Co., a, b, g.
 New England Spring Mfg. Co., Inc., f.
 North & Judd Mfg. Co., i.
 Ohlson Empire Inc., h, i.
 Parker Fittings & Hose Div., Parker-Hannifin Corp., h.
 Peerless Electronics Inc., e, h.
 Prestole Corp., f, h, i.
 Reliable Spring & Wire Forms Co., e, f.
 Remler Co., h.
 Rockwood Sprinkler Co., Div.-The Gamewell Co., f.
 Rohm Mfg. Co., i.
 Servicair Co.
 Sur-Lak Corp., e, c.
 C. Sjoberg & Son, c, e.
 Stanley-Judd Div.-The Stanley Works, f.
 Thomas & Betts Co., Inc., The, c.
 Thor Ceramics, Inc., a, e, f.
 Timmerman Products, Inc., e, f.
 Vector Electronic Co., Inc., a, g.
 Victor Tool & Mfg., Inc., e.
 Waldick Engrg. Co., e, f, g.
 Warren Components, Div.-El-Tronics, Inc., h.
 Wasley Products, Inc., a, b, f, i.
 Western Control Corp., c.
 Wilcox-Crittenden Div., North & Judd Mfg. Co., i.
 Winder Aircraft Corp. of Florida, e.
 Zierick Mfg. Corp., e, f.

CLOCKS, TIME

Aerona Mfg. Corp.-Aerospace Div
 American Electronics Inc., Tallier-Cooper Div. & Data Systems Div.
 A. Biederman, Inc.
 Cubic Corp.
 Datex Corp.
 Digital Sensors Inc.
 M. Ducommun Co.
 Electro Instruments, Inc.
 Electronic Engrg. Co. of California
 Fisher Scientific Co., Maryland
 General Controls Co.
 A.W. Haydon Co., The
 Industrial Timer Corp.
 Jardur Aviation Co.
 Jardur Import Co.
 Libroscope Div., General Precision, Inc.
 Ernest Norrman Laboratories
 Parabom, Inc.
 Resdel Engrg. Corp.
 Sangamo Electric Co.
 Standard Electric Time Co., The.,
 Sunshine Scientific Instrument
 Valpey Crystal Corp.
 Wickes Engrg. & Construction Co.

CLOTH, GLASS

American Machine & Foundry Co., Government Products Group
 Aviation Textile Associates
 Bar-Ray Products, Inc.
 Bemis Bro. Bag Co.
 Birma Mfg. Co. Inc.
 Bo Myte Co., Inc., The
 Coast Mfg. & Supply Co.
 Cordo Chemical Corp.
 C.R. Daniels, Inc.

Duracote Corp.
 Flightex Fabrics Inc.
 Hastings Plastics, Inc.
 Insulation Mfrs. Corp.
 Natvar Corp.
 Owens-Corning Fiberglass Corp.
 Rezolin, Inc.
 Sawyer Coated Fabrics, Div.-Farrington Textol Corp.
 F.M. Stevenson Co., Inc.
 E. F. Timme & Son Inc.
 Uniform Hood Lace Co.

CLOTH, PLASTIC

Abesto Corp.
 American latex Products Corp.
 Auburn Mfg. Co., The
 Aviation Textile Associates
 Bar-Ray Products, Inc.
 Birma Mfg. Co. Inc.
 Blossom Mfg. Co. Inc.
 Bo Myte Co., Inc., The
 Cordo Chemical Corp.
 C.R. Daniels, Inc.
 Duracote Corp.
 B.F. Goodrich Industrial Products Co.
 Insulation Mfrs. Corp.
 *MINNESOTA MINING & MFG. CO.
 Plastic Age Sales, Inc.
 Reeves Bros. Inc., Vulcan Rubber Div.
 Sawyer Coated Fabrics, Div.-Farrington Textol Corp.
 F.M. Stevenson Co., Inc.
 Swedlow Inc.
 Tetrafluor, Inc.,
 E.F. Timme & Son Inc.
 Uniform Hood Lace Co.
 United States Rubber Co.

CLOTH, RUBBERIZED

Abesto Corp.
 Anchor Packing Co., The
 Auburn Mfg. Co., The
 Aviation Textile Associates
 Birma Mfg. Co. Inc.
 Blossom Mfg. Co. Inc.
 Cordo Chemical Corp.
 C.R. Daniels, Inc.
 E.I. Du Pont De Nemours & Co. Inc.
 Garlock Packing Co.
 B.F. Goodrich Industrial Products Co.
 Mica Insulator Div.-Minnesota Mining & Mfg. Co.
 *MINNESOTA MINING & MFG. CO.
 Raybestos-Manhattan, Inc.
 Reeves Bros. Inc., Vulcan Rubber Div.
 Rubbercraft Corp of California
 Sawyer Coated Fabrics, Div.-Farrington Textol Corp.
 F.M. Stevenson Co., Inc.
 Thermoid Div.-H.K. Porter Co., Inc.
 United States Rubber Co.
 Wasley Products, Inc.

CLOTHS, GRILL

Aviation Textile Associates
 Bestcraft Products Co. Inc.
 Chase Brass & Copper Co., Inc.
 Croname Inc.
 Kentucky Metal Products Co.
 F.M. Stevenson Co., Inc.

CLOTHS, SPEAKER GRILLE

Aviation Textile Associates
 Bestcraft Products Co. Inc.
 Croname Inc.
 G-C Electronics Co.
 Kendall Co., The
 Kentucky Metal Products Co.
 F.M. Stevenson Co., Inc.
 E.F. Timme & Son Inc.

CLOTHS, WOVEN WIRE

Aviation Textile Associates
 Bendix Filter Div., Bendix Aviation Corp.
 Bestcraft Products Co. Inc.
 J. Bishop & Co., Platinum Works
 Buffalo Wire Works Co., Inc.
 Cambridge Wire Cloth Co., Inc.
 Chase Brass & Copper Co., Inc.
 Hastings Plastics, Inc.
 Kentucky Metal Products Co.
 Mechanical Felt & Textiles Co.
 National-Standard Co.
 Newark Wire Cloth Co.
 Pequot Wire Cloth Co.
 Reed Research Inc.
 Rolack Inc.
 Schlegel Mfg. Co.
 United States Steel Corp.

CLUTCHES, MAGNETIC

*ABRAMS INSTRUMENT CORP.

Actuator Products Div., Geartronics Corp.
 Autotronics Inc.
 Belcol Instrument Corp.,
 Bendix Aviation Corp.
 Bogue Electric Mfg. Co.
 Joe Davidson & Associates
 Dial Products Co.
 Dynamic Instrument Corp.
 Eaton Mfg. Co.
 Electroid Corp.
 FAE Instrument Corp.
 Fairfield Engrg. Corp.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 General Electric Co., Apparatus Sales Div.
 General Electro-Mechanical Corp.
 Gordon Enterprises
 Guidance Controls Corp.
 Hilliard Corp., The
 Habbs Mfg. Co.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Kollmorgen Optical Corp.
 Lear, Inc.
 Magtrol, Inc.
 Radio Development & Research Corp.
 Raymond Engrg. Lab., Inc.
 Reeves Instrument Corp.
 Sealor Corp.
 Technology Instrument Corp.
 U.S. Industries, Inc.
 U.S. Science Corp., Div.-Topp Industries, Inc.
 Valcor Engrg. Corp.
 Vickers Inc., Electric Products Div.
 Wesrep Corp.
 Zurn Industries, Inc.

CLUTCHES, MOTOR & GENERATOR

Dana Corp.
 Joe Davidson & Associates
 Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co.
 George E. Harris & Co., Inc.
 Hilliard Corp., The
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Lear, Inc.
 Overload Control Co.
 Precision Specialties, Inc.
 Radio Development & Research Corp.
 Russell Mfg. Co.
 Talley Corp., The
 U.S. Industries, Inc.
 Vickers Inc., Electric Products Div.
 Waste King Corp., Technical Products Div.
 Westinghouse Electric Corp.
 Zurn Industries, Inc.

COATINGS

- Conductive-Tube Interior
- Finishing
- High Temperature
- Printed Circuit
- Protective
- Salt Spray Resistance
- Special Purpose

Acheson Colloids Co., Div.-Acheson Industries, Inc., a thru d.
 *AEROJET-GENERAL CORP., g.
 Allied Research Products, Inc., b, e, f.
 Amchem Products Inc., b, e, f.
 American Agile Corp., e, f.
 American Latex Products Corp., c, e, f, g.,
 American Machine & Foundry Co., Government Products Group, c.
 American Oil & Supply Co., e, f.
 American Smelting & Refining Co., b, e.
 American Solder & Flux Co., e, f.
 Anderson Oil & Chemical Co., Inc., f.
 Arco Co., The, b, e, f, g.
 Aries Laboratories, Inc., e.
 Armstrong Products Co., e.
 Associated Engineers, Inc., f.
 Avco Corp.-Research & Advanced Development Div., c.
 Avondale Co., The, b, d, e, f, g.
 George Basch Co., The, b, e, f, g.
 Bel Fuse Inc., a, d.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., c, f, g.

Better Finishes & Coatings Inc., b, e, f, g.
 Bettinger Corp., b, c, d, e, f, g.
 Carl H. Biggs Co., c thru g.
 Bjorksten Research Labs. For Industry, Inc., a thru g.
 Blossom Mfg. Co. Inc., e.
 Bogart Mfg. Corp.
 Bonny Mfg. Corp., c, g.
 Borden Chemical Co., b, c, e, f, g.
 CBS Laboratories, Div.-Columbia Broadcasting System, g.
 Carboline Co., b, c, e, f, g.
 Carborundum Co., The, c, g.

Carborundum Co., Refractories Div., c
Chemical Products Corp., b, d thru g.
Cincinnati Cleaning & Finishing Machinery, b.
Clarkson Labs., Inc., The, d, e, g.
Coast Mfg. & Supply Co., b.
***CONSOLIDATED ELECTRODYNAMICS CORP., c**
Consolidated Vacuum Corp., b, g.
Cordo Chemical Corp., b, e, f, g.
Cowles Chemical Co., f.
Dennis Chemical Co., b thru g.
Division Lead Co., d.
Double E Products Co., c, g.
Douglas Aircraft Co., Inc., c.
Dow Corning Corp., c, d.
E.I. Du Pont De Nemours & Co. Inc., d thru g.
Duracote Corp., c, e, g.
Dyna-Therm Chemical Corp., c, e, g.
Electrofilm, Inc., c, e.
Emerson & Cuming, Inc., c thru g.
***EQUIPMENT DIV., RAYTHEON CO., c, g**
Esso Standard, Div.-Humble Oil & Refining Co., e, f.
Fidelity Chemical Products Corp., b, e, g.
Food Machinery & Chemical Corp.-Epoxy Dept.,
c thru g.
Furane Plastics, Inc., b thru g.
General American Transportation Corp., e, f, g.
General Plastics Corp., c, e, f, g.
Goodyear Tire & Rubber Co., The, Aviation Pro-
ducts Div., e.
Grant-Lehr Corp., c, e, f, g.
Gulfan Industries, Inc., c, e.
W. & L. E. Gurley, d, g.
Handy & Harman, a, d.
Hanson-Van Winkle-Munning Co., e.
Harper-Leader, Inc., c, g.
Hastings Plastics, Inc., e, f.
Heil Process Equipment Corp., e.
Hitchiner Mfg. Co., Inc., g.
R.M. Hollingshead Corp., e.
O. Hommel Co., The, c, d, g.
Horsey, Robson & Co., Inc., e, f, g.
Hughes Tool Co., Aircraft Div., c, e.
Industrial Metal Protectives, Inc., b, e, f, g.
Infrared Industries, Inc., g.
Insulation Mfrs. Corp., c, e.
Jennings Machine Corp., c.
Jaclyn Mfg. Co., The, c, f, g.
Kaiser Aluminum & Chemical Sales, Inc., c.
Kano Labs., e.
Kelite Corp., b, d, e, f.
Kickhafer Mfg. Co., e.
Kish Industries, Inc., b, e, f, g.
Krylon, Inc., b, d, e, f.
Lam-Fly, Inc., c, e, g.
Libbey-Owens-Ford Glass Co., c, e, f, g.
Lockheed Aircraft Corp., Missiles & Space
Div., c, d, f, g.
London Chemical Co., Inc., d thru g.
Lord Mfg. Co., g.
Luzerne Rubber Co., e.
Lycorning Div., Avco Corp., c, g.
Maas & Waldstein Co., a, b, d thru g.
Marquette Corp., The, c thru f.
Marquardt Corp., The, b thru g.
Merix Chemical Co., a, b, e, g.
Metal & Thermit Corp., b, e, g.
Metallizing Co. of Los Angeles Inc., c, e, f.
Metoplast Co., Inc., a, g.
Metz Refining Co., a.
Micro-Circuits Co., a thru g.
Midland Paint & Varnish Co., The, b, c.
James Millen Mfg. Co., Inc., e.
***MINNESOTA MINING & MFG. CO., b thru g**
***MINNESOTA MINING & MFG. CO.-ADHESIVES,
COATING & SEALERS DIV., e, f, g**
***MINNESOTA MINING & MFG. CO.-CHEMICAL
DIV., c, d, g**
Mitchell Rand Mfg. Corp., d.
Mitronics Inc., c, d, e.
Montanto Chemical Co., e, f.
NUMEC-Nuclear Materials & Equipment Corp., a, b,
c, e, g.
Narmco Materials Div., Narmco Industries, Inc., e.
Naz-Dar Co., d, e, g.
New England Tape Co., Div.-United-Carr Fastener
Corp., e, f, g.
Nooter Corp., e.
Norrich Screw Machine Products, c.
Northeast Metals Industries, Inc., b.
Norton Co., New Products Dept., c, e, g.
Nu Steel Co., e, f.
Optical Coating Lab., Inc., g.
Pacific Universal Products Corp., g.
Parker Rust Proof Co., b, e, f.
Penetone Co., The, e, f, g.
Pennsalt Chemicals Corp., e, f.
Permacel, b thru g.
Permatex Co., Inc., g.
Pfaunder Div., Pfaunder Permutit Inc., c, e, f, g.
Philadelphia Quartz Co., a, c, e.
Polymer Corp., The, b, e, f, g.

Portland Copper & Tank Works Inc., c, f, g.
Protex-A-Cote, Inc., b, c, e, f, g.
Q-Circuits, Div.-Etching Co. of Calif., d.
Radar Relay, Inc., e.
***RADIO CORP. OF AMERICA, a thru e**
Raffi & Swanson, Inc., b, e, f, g.
Raybestos-Manhattan, Inc., e.
Reeves Brothers, Inc., c, e, f, g.
Research, Inc., c, e, g.
Rezolin, Inc.
Roto Finish-Ranshoff, b, f, g.
Rust-Oleum
Saron Protective Coatings Co., b, e, f, g.
Sauerisen Cements Co., c, e.
Schenectady Varnish Co., Inc., b thru g.
Seal-Peel, Inc., e, g.
Sheridan-Gray, Inc., c.
Silicone Products Dept., General Electric Co., Dept.
C., c, d, e.
Silicones Div.-Union Carbide Corp., c, e, f.
Sillcocks-Miller Co., b, d thru g.
Smooth-On Mfg. Co., e, f, g.
Solar Aircraft Co., c, e, g.
Southwest Research Institute, c, g.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co., g.
Special Products Dept., Melpar, Inc., c thru g.
Spectracote, Inc., a, c, g.
Spraylat Corp., e, f, g.
Standard-Toch Chemicals, Inc., b, c, e, f, g.
Stevenson Bro. & Co., f, g.
Stonhard Co., Inc., e, f.
Swedlow Inc., c.
Swift Textile Metallizing & laminating Corp., g.
Switzer Brothers, Inc., g.
Technic Inc., c, e, f, g.
Teleflex Inc., c.
Temco Aircraft Corp., c, d, g.
Tempil Corp., c, e.
Thompson & Co., a, b, e, f, g.
Topper Mfg. Co., Inc., a thru g.
Trio Chemical Works, Inc., g.
Turco Products, Inc., e, f, g.
United Shoe Machinery Corp., b, e, g.
United States Plywood Corp., b.
Van der Horst Corp. of America, b, e, f, g.
Vapor Blast Mfg. Co., b.
Vorac Co., The, a, b, c, e, f.
Walt Colmonoy Corp., Stainless Processing Div., e.
Western Coating Co., e, f, g.
Western Sealant of Conn., b, c, e, f, g.
Wilbur & Williams Co., Inc., The, e, f, g.
X-Pando Corp., e, f.
Zenith Optical Laboratory, d.
Zippertubing Co., The, a, f, g.
Zirconium Corp. of America, c.
Zophar Mills Inc., f.

COBALT

Belmont Smelting & Refining Works, Inc.
Bethlehem Steel Co.
Bios Labs., Inc.
Bram Metallurgical Chemical Co.
City Chemical Corp.
Delta Chemical Works, Inc.
Foote Mineral Co.
Instrument Div., The Budd Co.
United Mineral & Chemical Corp.
Var-Lac-Oid Chemical Co.
Wai Met Alloys Co.

CODE & TAB MARKERS

Duralith Corp.
Duramark, Inc.
Sillcocks-Miller Co.

COIL ASSEMBLIES

ACDC Electronics, Inc.
Ace Coil & Electronics Co.
Acme Electric Corp.
Advanced Electronics, Inc.
Aerolite Electronics Corp.
All-Tronics, Inc.
Barker & Williamson Inc.
Bendix Aviation Corp.
Coil Co. of America
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
THEON CO.**
Communication Accessories Co.
Cord Products Co.
Del Electronics Corp.
Deluxe Coils Inc.
De Witt Development Co.
Eagle Signal Co.
Electro-Winders Co. Inc.
Forbes & Wagner, Inc.
Fugle-Miller Labs. Inc.
Gates Radio Co.
General Coil Products Corp.
Paul E. Gerst & Co.
Hagen Mfg. Co.

Walter J. Hyatt Co., The
E. F. Johnson Co.
Johnson Electronics Inc.
Kelllogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.
Lear, Inc.
Leece-Neville Co., The
Lelectronics, Inc.
G. W. Lisk Co. Inc.
Magnetic Circuit Elements, Inc.
***MARTIN CO., THE, DENVER DIV.**
James Millen Mfg. Co. Inc.
National Coil Co.
National Co., Inc.
Norrich Plastics Corp.
Norrich Screw Machine Products
Precision, Inc.
Projects Unlimited, Inc.
Radio Condenser Co.
Ramo-Wooldridge, Div.-Thompson Ramo Wool-
dridge Inc.
Milton Ross Metals Co., The
Sage-Craft, Inc.
Sheltered Workshops
Standard Winding Co., Inc.
Stanwyck Winding Co., Inc.
Stewart-Warner Electronics Div.
Suprex Electronics Corp.
Talley Corp., The
Transformers, Inc.
Tur-Bo Jet Products Co., Inc.
U. E. Electronics Corp.
Valcor Engrg. Corp.
Varo Mfg. Co., Inc.
Virginia Electronics Co., Inc.
Wesrep Corp.
Westinghouse Electric Corp.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

COIL DOPE

Emerson & Cuming, Inc.
G.C. Electronics Co.
James Millen Mfg. Co. Inc.
C. P. Mayen Co.
Norrich Plastics Corp.
Schenectady Varnish Co., Inc.

COIL FORMS

Alloys Unlimited Inc.
American Insulator Corp.
***AMERICAN STEEL FOUNDRIES, HAMMOND DIV.**
Bonny Mfg. Corp.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
THEON CO.**
Courtier Products, Div.-Model Engrg. & Mfg., Inc.
Delevan Electronics Corp.
Emerson Plastics Corp.
Form-It Products, Inc.
Gladding, McBean & Co.
Gries Reproducer Corp.
Halogen Insulator & Seal Corp.
Henry & Miller Industries, Inc.
Hobson Brothers, Inc.
Iamtex Industries Inc.
Leece-Neville Co., The
Thomas J. Long, Inc.
James Millen Mfg. Co. Inc.
J. W. Miller Co.
***MINNESOTA MINING & MFG. CO.**
National Ceramic Co.
National Coil Co.
National Moldite Co.
New England Spring Mfg. Co., Inc.
Norrich Plastics Corp.
Norrich Screw Machine Products
Quality Components, Inc.
Milton Ross Metals Co., The
Stanwyck Winding Co., Inc.
Stevens Products, Inc.
Suprex Electronics Corp.
Tele Coil Co.
Thor Ceramics, Inc.
Topper Mfg. Co., Inc.
Tucson Instrument Corp.
U. E. Electronics Corp.
Waters Mfg., Inc.
Westinghouse Electric Corp.

COIL WINDING MACHINES, TOROIDAL

Allied International Corp.
American Machine & Foundry Co., Greenwich Engrg.
Div.
Arnold Magnetics Corp.
Associated American Winding Machinery Inc.
CG Electronics Corp.
Double E Products Co.
Paul E. Gerst & Co.
Gulton Industries, Inc.
Donald C. Harder Co.

Carl Hirschmann Co., Inc.
Lumen, Inc.
Mico Instrument Co.
Richard Philip Co.
*RADIO CORP. OF AMERICA
Standard Electronics Div.-Reeves Instrument Corp.
Universal Mfg. Co., Inc.

COILS

a. Booster
b. Choke
c. IF
d. Printed Circuit
e. RF Transmitting
f. Solenoid
g. Transducer

ACDC Electronics, Inc., a thru g.
ACF Industries Inc., b, d.
ADC Inc., b.
A. P. W. Co., f.
Ace Coil & Electronics Co., b thru e.
Acme Wire Co., b, f.
Acoustica Associates, Inc., g.
Advanced Electronics, Inc., f.
Aerolite Electronics Corp., a, b, c, e, f.
Aetna Electronics Corp., e.
Aladdin Electronics, Div.-Aladdin Industries Inc., b, c, e.
Allied Control Co., Inc., f.
All-Tronics, Inc., b.
Arnold Magnetics Corp., d.
Associated Engineers, Inc., b.
Atlas Engrg. Co. Inc., b.
Automatic Timing & Controls, Inc., g.
Barker & Williamson Inc., b thru e.
Bel-Tronics Corp., a thru g.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., f.
Bud Radio, Inc., e.
Burnell & Co., Inc., d.
Cable Electric Products Inc., f.
Cambridge Thermionic Corp., b thru f.
Coral Electronics Corp., b.
Central Transformer Co., b.
Chemical Micro Milling Co., d.
Cleveland Metal Specialties Co., Electronics Div., d.
Coil Co. of America, a thru g.
G. L. Collins Corp., g.
Colvin Labs, Inc., g.
Comor Electric Co., d, f.
*COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
THEON CO., b, c, f, g.
Communication Accessories Co., b.
Courter Products, Div.-Model Engrg. & Mfg., Inc., b, c, f.
Crescent Engrg. & Research Co., g.
Cycle Transformer Corp., b, f.
Daystar, Inc., Military Electronics Div., a, b.
Del Electronics Corp., b.
Delevan Electronics Corp., b thru f.
Deluxe Coils Inc., d, f.
De Witt Development Co., b, f.
Double E Products Co., b thru e.
Eagle Signal Co., f.
Electroid Corp., f.
Electronic Coils, Inc., b, f.
Electro-Winders Co. Inc.
Epo Products Inc., a, b, d.
Ferroxcube Corp. of America, b, g.
Filtron Co., Inc., b.
Fisher Engrg., Inc., b, e, f.
Five Star Co., The, a, b, f, g.
Forbes & Wogner, Inc., b, c, f.
Ford Instrument Co., Div.-Sperry Rand Corp., g.
Fugle-Miller Labs. Inc., b thru g.
Gates Radio Co., e.
General Coil Products Corp., b thru f.
Genistron, Inc., b, d.
Paul E. Gerst & Co., b, f.
Glossco Instrument Co., g.
Grophik Circuits, Div.-Cinch Mfg. Co., d.
B. H. Hadley, Inc., f.
Hammett-Mercury-Rex Div., f.
Donald C. Harder Co., b, f.
George E. Horris & Co., Inc., b, d, g.
Hoskel Engrg. & Supply Co., f.
Hi-G Inc., b thru f.
Hoover Electric Co., f.
Walther J. Hyatt Co., The, f.
Hydro-Power Corp., f.
Illumintron Engrg. Co., e.
Induction Heating Corp., b.
Intercontinental Electronics Corp., a.
JFD Electronics Corp., c, d, e.
Jones Electronics Inc., b, d, f.
Jellers Electronics Div., Speer Carbon Co., e, f.
E. F. Johnson Co., e.
Johnson Electronics Inc., a thru d.
Kellogg Switchboard & Supply Co., Communications Div.-ITT Corp., b.

Keystone Products Co., b.
Knopp Inc., f.
Koonitz-Wagner Electric Co., Inc., f.
Lab. Ior Electronics, Inc., b, c.
La Pointe Industries Inc., d.
Leece-Neville Co., The, f.
Leetronics, Inc., f.
G. W. Lisk Co. Inc., f.
Lumen, Inc., g.
Magnetic Circuit Elements, Inc., b.
*MARTIN CO., THE, DENVER DIV., b, c, f, g.
Merit Coil & Transformer Corp., a thru g.
Mid-West Coil & Transformer Co., b, f.
James Millen Mfg. Co. Inc., b thru e.
J. W. Miller Co., b thru e.
Modelectric Products Corp., c, e, f.
Motorola, Inc., c, d, e, g.
National Coil Co., b, c, d, f.
National Co., Inc., a, b, c, e, f, g.
Networks Electronic Corp., b.
New York Coil Co., Inc., a, b, c, e, f.
New York Transformer Co. Inc., b.
Nothelfer Winding Labs. Inc., b, e.
Nytronics, Inc., Essex Electronics Div., b thru e.
Opad Electric Co., b.
Ortho Filter Corp., b, f.
PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y., f.
Paul & Beekman, Inc.
Picketing & Co., Inc., f, g.
Polyphase Instrument Co., b.
Patter Aeronautical Corp., g.
Precise Development Corp., a thru f.
Precision, Inc., f.
Projects Unlimited, Inc., f.
Radex Corp., b.
Radio Condenser Co., g.
*RADIO CORP. OF AMERICA, a thru g.
Radio Industries, Inc., c, d.
Ramo Wooldridge, Div.-Thompson Ramo Wool-
dridge Inc., b, d.
Redman Electronics Corp., b, c.
J. R. Robbins Co.
Rytron Co., Inc., b, d, g.
Sage-Craft, Inc., b, f.
Sangamo Electric Co., b, f.
Schaevitz Engrg., g.
Servomechanisms, Inc., b.
Shellcross Mfg. Co., c.
Southwestern Industrial Electronics Co., b, d, f, g.
Standard Electronics Div.-Reeves Instrument Corp., a, b, c, e.
Standard Winding Co., Inc., a thru f.
Stanwyck Winding Co., Inc., b, c, d, f.
Stewart-Warner Electronics Div., b, c, e, f.
Stratfield Co., The, b, f.
Superex Electronics Corp., b, d.
Telechrome Mfg. Corp., b, c, f.
Tele Coil Co., b thru f.
Telex, Inc., b, d, g.
Topper Mfg. Co., Inc., c.
Torwico Electronics, Inc., b.
Transformer Design, Inc. of Milwaukee, b.
Transformers, Inc., b.
Transistor Electronics Corp., b.
Tresco, Inc., b.
Triad Transformer Corp., b, d.
Tur-Bo Jet Products Co., Inc., f.
U. E. Electronics Corp., b, c, e, f, g.
Universal Toroid Coil Winding, Inc., b, c, e, g.
Valcor Engrg. Corp., f.
Valor Instruments, Inc., b thru e.
Vanguard Electronics Co., b, c.
Voro Mfg. Co., Inc., a thru g.
Virginia Electronics Co., Inc., b thru f.
Wahlgren Magnetics, Div.-Marshall Industries
A. W. Welch Mfg. Co., Inc., b, d, e.
Wesrep Corp., c, e.
Westinghouse Electric Corp., a, b, f, g.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp., f.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., b, d, f.
Winotic Corp., The, f.

COILS, HEATING

J. Bishop & Co., Platinum Works
Blue M Electric Co.
Chose Brass & Copper Co., Inc.
Coil Co. of America
Crane Co., Special Products Div.
Dean Products, Inc.
Wilbur B. Driver Co.
Frick Co.
General Electric Co., Apparatus Sales Div.
Griscom-Russell Co., The
Heil Process Equipment Corp.
Induction Heating Corp.
Lepel High Frequency Labs. Inc.
Lucifer Furnaces Inc.
Monning & Lewis Inc. Co.
*MARTIN CO., THE, DENVER DIV.

Nothelfer Winding Labs. Inc.
Piqua Engrg. Inc.
Precision, Inc.
Rome-Turney Radiator Co., The
Shaw Burner Co.
Thermionic Products Co.
Trane Co., The
Tranter Mfg., Inc.
Worthington Corp.
York Div., Borg-Warner Corp.

COILS, HIGH TEMPERATURE

ACDC Electronics, Inc.
A. P. W. Co.
Advanced Electronics, Inc.
Atlas Engrg. Co. Inc.
J. Bishop & Co., Platinum Works
Coil Co. of America
*COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
THEON CO.
Crescent Engrg. & Research Co.
Cycle Transformer Corp.
Electroid Corp.
Electronic Coils, Inc.
Electro-Winders Co. Inc.
Five Star Co., The
Griscom-Russell Co., The
Keystone Products Co.
Koonitz-Wagner Electric Co., Inc.
G. W. Lisk Co. Inc.
Lucifer Furnaces Inc.
Manning & Lewis Inc. Co.
*MARTIN CO., THE, DENVER DIV.
James Millen Mfg. Co. Inc.
J. W. Miller Co.
National Coil Co.
New York Transformer Co. Inc.
Norrich Plastics Corp.
Nothelfer Winding Labs. Inc.
Polyphase Instrument Co.
Thermionic Products Co.
Transformers, Inc.
Tranter Mfg., Inc.
Tur-Bo Jet Products Co., Inc.
U. E. Electronics Corp.
Voro Mfg. Co., Inc.
Westinghouse Electric Corp.
Winatic Corp., The

COILS, IGNITION

*AC SPARK PLUG, THE ELECTRONICS DIV.-GEN-
ERAL MOTORS
ACDC Electronics, Inc.
Acme Electric Corp.
Acme Wire Co.
Coil Co. of America
Electric Autolite Co., The
Five Star Co., The
Hallett Mfg. Co.
George E. Harris & Co., Inc.
lear, Inc.
Leece-Neville Co., The
Mid-West Coil & Transformer Co.
Modelectric Products Corp.
Skytronics, Inc.
Southwest Research Institute
U. E. Electronics Corp.
Voro Mfg. Co., Inc.

COILS, SPEAKER

Acme Wire Co.
Coil Co. of America
Five Star Co., The
General Coil Products Corp.
*MAGNAVOX CO., THE
Merit Coil & Transformer Corp.
Telex, Inc.
U. E. Electronics Corp.
University Loudspeakers, Inc.

COLLECTOR RINGS

Airflyte Electronics Co.
California Stamping & Mfg. Co.
Capitol City Mfg. Co., Inc.
Crone Co., Special Products Div.
Electro-Miniatures Corp.
lear, Inc.
Lone Star Plastics Co. Inc.
Magnetic Controls Co.
Nippert Electric Products Co., The
Poly-Scientific Corp.
Texas Instruments Inc.
Toledo Commutator Co.
Woco Aircraft Co.

COLLIMATORS

American Optical Co., Instrument Div.
A. Biederman, Inc.
Brunson Instrument Co.

Dalmo Victor Co., Div.-Textron, Inc.
Davidson Optronics, Inc.
Eastman Kodak Co.
***ENGIS EQUIPMENT CO.**
Epic, Inc.
J. W. Fecker Div., American Optical Co.
Fisher Scientific Co., Maryland
Gordon Enterprises
Infrared Industries, Inc.
Kollman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Librascope Div., General Precision, Inc.
Opto-Metric Tools, Inc.
Pacific Scientific Co.
Philips Electronic Instruments
Tinsley Labs, Inc.

COLORIMETERS

All American Engrg. Co.
American Instrument Co., Inc.
Bausch & Lomb Optical Co.
Chemalloy Electronics Corp.
***ENGIS EQUIPMENT CO.**
Fischer & Porter Co.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
Gardner Laboratory, Inc.
Hallikainen Instruments
Instrument Development Labs., Inc.
Librascope Div., General Precision, Inc.
Photovolt Corp.
Scientific & Process Instruments Div.-Beckman Instruments, Inc.
Specialties, Inc.
Telechrome Mfg. Corp.
Thermal American Fused Quartz Co., Inc.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

COLORIMETERS, PHOTOELECTRIC

All American Engrg. Co.
American Electronic Labs., Inc.
American Instrument Co., Inc.
Bausch & Lomb Optical Co.
Central Scientific Co.
Coleman Instruments, Inc.
***ENGIS EQUIPMENT CO.**
Fisher Scientific Co.
Fisher Scientific Co., Maryland
Gardner Laboratory, Inc.
General Electric Co., Apparatus Sales Div.
Hallikainen Instruments
Instrument Development Labs., Inc.
Photobell Co., Inc.
Photovolt Corp.
Spectra Electronics Corp.
Telechrome Mfg. Corp.
United States Testing Co., Inc.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

COLORIMETERS, SPECIAL PURPOSE

All American Engrg. Co.
Bausch & Lomb Optical Co.
Electronic Control Corp.
Elison Draft Gage Co., Inc.
Fisher Scientific Co.
Instrument Development Labs., Inc.
Librascope Div., General Precision, Inc.
Photobell Co., Inc.
Spectra Electronics Corp.
Telechrome Mfg. Corp.

COLUMBIUM METALS

Alloys Unlimited Inc.
Bram Metallurgical Chemical Co.
Bridgeport Brass Co.
Delta Chemical Works, Inc.
E. I. Du Pont de Nemours & Co. Inc.
Finstael Metallurgical Corp.
Foote Mineral Co.
Harvey Aluminum
Hughes Tool Co., Aircraft Div.
KennaMetal Inc.
NUMEC-Nuclear Materials & Equipment Corp.
F. H. Paul & Stein Brothers, Inc.
Rembar Co., Inc., The
Rodney Metals Inc.
Stauffer Chemical Co.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
Union Carbide Metals Co., Div.-Union Carbide Corp.
United Mineral & Chemical Corp.
Universal-Cyclops Steel Corp.
Var-Lac-Oid Chemical Co.
Wah Chang Corp.
Wai Met Alloys Co.
Westinghouse Electric Corp.
Wyman-Gordon Co.

COMBUSTION CHAMBER COVERS

Allison Div., General Motors Corp.

American Latex Products Corp.
Basic Tool Industries, Inc.
Colonial Aircraft Corp.
Crane Co., Special Products Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
International Steel Co.
C. B. Kaupp & Sons, Inc.
Kirk & Blum Mfg. Co., The
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
***LAVELLE AIRCRAFT CORP.**
Marquardt Corp., The
McGregor Mfg. Corp.
Portland Copper & Tank Works Inc.
Edw. Renneburg & Sons Co.
Sedco
Shaw Burner Co.
Southwest Research Institute

COMBUSTION CHAMBERS

***AEROJET-GENERAL CORP.**
Allison Div., General Motors Corp.
American Car & Foundry Div., ACF Industries, Inc.
Arde-Portland, Inc.
Basic Tool Industries, Inc.
Colonial Aircraft Corp.
Corning Glass Works
Crane Co., Special Products Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Custom Tool & Mfg. Co.
***EXCELCO DEVELOPMENTS INC.**
General American Transportation Corp.
Hughes Tool Co., Aircraft Div.
International Steel Co.
Kaiser Fleetwings, Inc.
C. B. Kaupp & Sons, Inc.
***LAVELLE AIRCRAFT CORP.**
Marquardt Corp., The
McGregor Mfg. Corp.
Missimers Inc.
Norton Co., New Products Dept.
Penn.-Michigan Mfg. Corp.
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co.
Edw. Renneburg & Sons Co.
Shaw Burner Co.
South Wind Div., Stewart Warner Corp.
Southwest Research Institute
Spaceatomics Div., The Budd Co.
Thermal Research & Eng. Corp.
Zirconium Corp. of America

COMBUSTORS

Allison Div., General Motors Corp.
Colonial Aircraft Corp.
Gabriel Co., Rocket Power-Talco
***LAVELLE AIRCRAFT CORP.**
Lycoming Div., Avco Corp.
Marquardt Corp., The
McGregor Mfg. Corp.
Portland Copper & Tank Works Inc.
Edw. Renneburg & Sons Co.
Solar Aircraft Co.
Thermal Research & Eng. Corp.

COMMUNICATION SYSTEMS

ACF Electronics Div., ACF Industries Inc.
ACF Industries Inc.
Admiral Corp.
Advance Industries, Inc.
Allied International Corp.
Arnoux Corp.
Automatic Electric Sales Corp.
Avco Corp., Crosley Div.
Avco Corp. Research & Advanced Development Div.
Barker Sales Co.
Bell & Gossett Co.
Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Broadview Research Corp.
Burd Lewyt Electronics, Inc.
Budelman Electronics Corp.
Burton-Rodgers, Inc.
Chalco Engrg. Corp.
Chance Vought Aircraft, Inc.
David Clark Co., Inc.
Clegg Labs., Div.-Clegg, Inc.
Collins Radio Co.
Colorado Research Corp.
Communications Co.
Crosby-Teletronics Corp.
Dalmo Victor Co., Div.-Textron, Inc.
Daystrom, Inc., Military Electronics Div.
Decker Corp., The
Designers for Industry, Inc.
Diamond Antenna & Microwave Corp.
Du Kane Corp.
Allen B. Du Mont Labs., Inc.
Dynamatics, Inc.
Electromation Co., Div.-Del Mar Engrg. Labs.

Emertron, Sub.-Emerson Radio & Phonograph Corp
***EQUIPMENT DIV., RAYTHEON CO.**
Erectone, Inc.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Fla. Aircraft Radio & Marine
GPL Div.-General Precision, Inc.
Gates Radio Co.
General Devices, Inc.
General Electric Co., Heavy Military Electronics Dept.
General Electric Co., Light Military Electronics Dept.
General Electric Co., Missile & Space Vehicle Dept., Pa.
General Instrument Corp., Defense & Engrg. Products Group
Guided Missile Div., The Firestone Tire & Rubber Co.
Hallamore Electronics Co., Div.-Siegler Corp.
Hallcrafters Co., The
Hazeltime Electronics Div.-Hazeltime Corp.
Hoffman Electronics Corp., Military Products Div.
Hoover Electronics Co.
Huyc Systems Co.
ITT Federal Div., International Telephone & Telegraph Corp.
E. F. Johnson Co.
Kellogg Switchboard & Supply Co., Communications Div.-ITT Corp.
Land-Air Inc., Sub.-California Eastern Aviation, Inc.
Langevin Div., The W. I. Maxson Corp.
Lear, Inc.
LeI, Inc.
Lenkurt Electric Co., Inc.
Litton Industries, Inc.
Litton Industries, Maryland Div.
MEG Products, Div.-Mandrel Industries, Inc.
Madigan Group
Manson Labs., Inc.
***MARTIN CO., THE, DENVER DIV.**
Motorola, Inc.
Munston Electronic Mfg. Corp.
National Co., Inc.
Northrop Corp.
Pacific Automation Products, Inc.
Packard-Bell Electronics Corp.
Pilco Corp.-Govt. & Industrial Group
Production Research Corp., Sub.-Radio Condenser Co.
Racon Electric Co. Inc.
Radiation, Inc.
Radio Condenser Co.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
Rimat, Inc.
Seiscor, Div.-Seismograph Service Corp.
Southwest Research Institute
Southwestern Industrial Electronics Co.
Specialty Electronics Development Corp.
Spectra Electronics Corp.
Stewart-Warner Electronics Div.
Stromberg-Carlson Div.-General Dynamics Corp.
Stromberg-Carlson, San Diego, General Dynamics Corp.
Sun Electric Corp., Aeronautical Div.
TRG, Inc.
Tamar Electronics, Inc.
Technical Materiel Corp., The
Television Utilities Corp.
Telcor, Inc.
Texas Instruments Inc.
Trepac Corp. of America
Tri-Ex Tower Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
United States Instrument Corp.
Vicon Corp. Sub.-Insul-B-Corp.
Virginia Electronics Co., Inc.
Western Union Telegraph Co., The
Westinghouse Electric Corp.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.
Wickes Engrg. & Construction Co.

COMMUNICATION SYSTEMS, COMMERCIAL

Aeronautical Electronics, Inc.
Allied International Corp.
Automatic Electric Sales Corp.
Barker Sales Co.
Bell & Gossett Co.
Bendix Aviation Corp.
Budelman Electronics Corp.
David Clark Co., Inc.
Collins Radio Co.
Communications Co.
Daystrom, Inc., Military Electronics Div.
Decker Corp., The
Designers for Industry, Inc.
Du Kane Corp.

***EQUIPMENT DIV., RAYTHEON CO.**

Executone, Inc.
Fla. Aircraft Radio & Marine
GPI Div.-General Precision, Inc.
Gates Radio Co.
General Devices, Inc.
Hallcrafters Co., The
Huyck Systems Co.
E. F. Johnson Co.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
Langevin Div., The W. L. Maxson Corp.
Iel, Inc.
Lenkert Electric Co., Inc.
Lynch Carrier Systems Inc.
Madigan Corp.

***MARTIN CO., THE, DENVER DIV.**

Motorola, Inc.
Munston Electronic Mfg. Corp.
National Co., Inc.
Northrop Corp.
Philco Corp.-Govt. & Industrial Group
Racon Electric Co. Inc.

RADIO CORP. OF AMERICA**RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**

Seiscor, Div.-Seismograph Service Corp.
Southwest Research Institute
Southwestern Industrial Electronics Co.
Standard Electronics Div.-Reeves Instrument Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Stromberg-Carlson, San Diego, General Dynamics Corp.
Tamar Electronics, Inc.
Technical Materiel Corp., The
Technology Instrument Corp.
Telchrome Mfg. Corp.
Telectro Industries Corp.
Trepoc Corp. of America
Tri-Ex Tower Corp.
United States Instrument Corp.
Western Union Telegraph Co., The
Westinghouse Electric Corp.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

COMMUNICATION SYSTEMS, INTERCOM

Allied International Corp.
Arnoux Corp.
Automatic Electric Sales Corp.
Barker Soles Co.
Bruno-New York Industries Corp.
Chalco Engrg. Corp.
Chance Vought Aircraft, Inc.
David Clark Co., Inc.
Dolmo Victor Co., Div.-Textron, Inc.
Designers for Industry, Inc.
Diamond Antenna & Microwave Corp.
Du Kane Corp.
Electromation Co., Div.-Del Mar Engrg. Labs.
Executone, Inc.
Fla. Aircraft Radio & Marine
Gates Radio Co.
Hallmore Electronics Co., Div.-Sieglar Corp.
Huyck Systems Co.
Interstate Electronics Corp.
E. F. Johnson Co.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.

Langevin Div., The W. L. Maxson Corp.

Leor, Inc.

J. M. Loge, Sound Engineers

Madigan Corp.

***MARTIN CO., THE, DENVER DIV.**

Motorola, Inc.
National Co., Inc.
Philco Corp.-Govt. & Industrial Group
Production Research Corp., Sub.-Radio Condenser Co.

Racon Electric Co. Inc.

RADIO CORP. OF AMERICA**RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**

Seiscor, Div.-Seismograph Service Corp.
Southwest Research Institute
Stromberg-Carlson Div.-General Dynamics Corp.
Technology Instrument Corp.
Telectro Industries Corp.
Telkor, Inc.
United States Instrument Corp.
Virginia Electronics Co., Inc.
Vocaline Co. of America Inc.
Westinghouse Electric Corp.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.
Winder Aircraft Corp. of Florida

COMMUTATORS, SWITCHING

Airflyte Electronics Co.
Applied Electronics Corp. of N. J.
Arnoux Corp.
Bendix Aviation Corp.
CG Electronics Corp.

Collectron Corp.
Computer Instruments Corp.
Courter Products, Div.-Model Engrg. & Mfg., Inc.
James Cunningham Son & Co., Inc.
Cushman Precision Industries
Electro Tec Corp.
Electro-Miniatures Corp.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
General Devices, Inc.
Genisco, Inc.
Genisco, Inc., Instrument Div.
Graphite Metallizing Corp.
Instrument Development Labs, Inc.
Iamtex Industries Inc.
Leor, Inc.

Leace-Neville Co., The
Librascope Div., General Precision, Inc.

Mason Electric Corp.
Mira Corp., The
Motorola, Inc.
Mycalex Corp. of America
National Co., Inc.
Nippert Electric Products Co., The
Pacific Scientific Co.
Packard Bell Computer Corp.
Poly-Scientific Corp.

Slip Ring Co. of America
Southwest Research Institute
Talley Corp., The
Tapco Group, Thompson Ramo Wooldridge Inc.
Telchrome Mfg. Corp.
Telex, Inc.
Texas Instruments Inc.
Thompson Ramo Wooldridge Inc.
Toledo Commutator Co.
Unison Products, Inc.

COMPARATORS

- Capacitance
- Circuit Linearity
- Dielectric
- Iron Core
- Q
- Voltage

Aerconco Mfg. Corp.-Aerospace Div., f.
Avien, Inc., f.

B & K Instruments, Inc., a, d.

Barnes Development Co., a.

Bausch & Lomb Optical Co.

Bendix Aviation Corp., f.

Benson-Lehner Corp.

Clegg Labs., Div.-Clegg, Inc., a thru d, f.

Consolidated Airborne Systems, Inc., a, c.

Datascan Inc., f.

Davenport Mfg. Co., f.

Daystrom Inc., Weston Instruments Div., f.

Decker Corp., The, a, c.

Delsen Corp., c.

Djeco, Div.-Djordjevic Engrg. Co., f.

Dytronics Co., a.

Electro Instruments, Inc., a, c, f.

Electro Scientific Industries, a, e.

Electronic Applications, Inc., a.

General Radio Co., a, c, e.

Gray Instrument Co., f.

ITI Electronics, Inc., f.

Industrial Instruments Inc., a, c.

Industrial Test Equipment Co., a.

Keppo, Inc., f.

Wayne Kerr Corp., a, c.

Kin Tel Div.-Cohu Electronics, Inc., f.

Leor, Inc., f.

Liquidometer Corp., The, a.

Magnetic Circuit Elements, Inc., f.

*MARTIN CO., THE, DENVER DIV., a, b, f.

James Millen Mfg. Co. Inc., a, c thru f.

National Co., Inc., f.

Non-Linear Systems, Inc., f.

Northrop Corp., f.

Optimized Devices, Inc., f.

Otis Elevator Co., Defense & Industrial Div.

Packard Bell Computer Corp., f.

Sensitive Research Instrument Corp., f.

Southwest Research Institute

Sunshine Scientific Instrument

Technical Electronics Co. Div.-Consolidated Electronic Industries, a, b, c, f.

Technology Instrument Corp., a.

Tempo Instrument Inc., f.

Transformers, Inc., f.

Trio Laboratories, Inc., f.

Universal Mfg. Co., Inc.

Voi-Shon Electronics, f.

COMPARATORS, AUTOMATIC RESISTANCE

Analogue Controls, Inc.
Applied Electronics Corp. of N. J.
Avien, Inc.
Barnes Development Co.
Bendix Aviation Corp.

Bergen Labs, Inc.
Dytronics Co.
Electro Instruments, Inc.
General Radio Co.
Industrial Instruments Inc.
Leor, Inc.
*MARTIN CO., THE, DENVER DIV.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
Non-Linear Systems, Inc.
Optimized Devices, Inc.
Packard Bell Computer Corp.
Technical Electronics Co. Div.-Consolidated Electronic Industries
United Process Assemblies, Inc.

COMPASSES

- Electronic Gyra
- Gyra
- Magnetic
- Radia
- Remote Indicating

Allied International Corp., d.
Belock Instrument Corp., a, b, c, e.
Bendix Aviation Corp., b thru e.
Bendix Aviation Corp.-Montrose Div., e.
A. Biederman, Inc., b thru e.
Bruno-New York Industries Corp., d.
Chance Vought Aircraft, Inc., a, b.
Collins Radio Co., c, d, e.
Courter Products, Div.-Model Engrg. & Mfg., Inc., d.
Daystrom Inc., Pacific Div., a, b.
Eclipse-Pioneer Div., Bendix Aviation Corp., a, b, d, e.
Emerfron, Sub.-Emerson Radio & Phonograph Corp., d.

Fla. Aircraft Radio & Marine, d.
General Electric Co., Instrument Dept., b, e.
W. & L. E. Gurley, c.

Integrated Dynamics Div., Globe Industries, Inc., b.
*KEARFOTT DIV., GENERAL PRECISION, INC., a, b, c.

Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., c.
Leor, Inc., a thru e.

A. Lietz Co., The, c.

*MAGNAVOX CO., THE, d.

Motorola, Inc., d.

Northrop Corp., b.

*RADIO CORP. OF AMERICA, d.

Sperry Gyroscope Co., Div.-Sperry Rand Corp., b.

Warren-Knight Co., c.

W. M. Welch Scientific Div., W. M. Welch Mfg. Co., c.

Whittaker Gyro Div.-Telecomputing Corp., b.

Winder Aircraft Corp. of Florida, a, c.

COMPOUNDS, CLEANING

American Oil & Supply Co.
Anderson Oil & Chemical Co., Inc.
Avondale Co., The
Barco Chemical Products Co.
George Bosch Co., The
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bios Labs, Inc.
Borden Chemical Co.
Cloyton Mfg. Co.
Cobehn, Inc.
Delta Chemical Works, Inc.
Detrex Chemical Industries, Inc.
Diversey Corp., The
Dow Chemical Co., The
Drill Mfg. Co.
E. I. Du Pont de Nemours & Co. Inc.
Eastern Chemical Div., Hooker Chemical Corp.
Ed-Berl Products, Inc.
Enthone Inc.
FMC Chlor-Alkali Div.
Fidelity Chemical Products Corp.
Food Machinery & Chemical Corp.-Mineral Products Div.
Grant-Lehr Corp.
Hanson-Van Winkle-Munzing Co.
Hostings Plastics, Inc.
R. M. Hollingshead Corp.
Kano Labs.
Keltie Corp.
L & R Mfg. Co.
London Chemical Co., Inc.
Magnus Chemical Co., Inc.
Merix Chemical Co.
Narda Ultrasonics Corp., The
Nu Steel Co.
Parker Rust Proof Co.
Penetone Co., The
Philadelphia Quartz Co.
Ronsahoff Co.
Roto Finish-Ronsahoff
Ruby Chemical Co.
Southwest Research Institute

Topper Mfg. Co., Inc.
Trio Chemical Works, Inc.
Turco Products, Inc.
Udylite Corp., The
Vapor Blast Mfg. Co.
Wheelabrator Corp.
Wye Industries
Zophar Mills Inc.

COMPOUNDS

- a. Calking & Sealing
- b. Cleaning
- c. Electrical Insulating & Sealing
- d. Encapsulation
- e. Impregnating
- f. Mica
- g. Phenolic Molding
- h. Pating
- i. Waterproofing

Acheson Colloids Co., Div.-Acheson Industries, Inc., a.
Acme Wire Co., c, d, e, h.
Airflyte Electronics Co., d.
Allied Chemical Corp., National Aniline Div., b.
Allied International Corp., h.
Allied Research Products, Inc., b.
American Latex Products Corp., c, d, h, i.
American Oil & Supply Co., b.
American Smelting & Refining Co., b.
Arco Co., The, a, i.
Aries Laboratories, Inc., c, d, e, h, i.
Armour Industrial Chemical Co.
Armstrong Cork Co., a.
Associated Engineers, Inc., d, h.
Avondale Co., The, a thru e, i.
Barco Chemical Products Co., b.
George Bosch Co., The, b, e.
Bendix Aviation Corp., b.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., b.
Better Finishes & Coatings Inc., a, i.
Carl H. Biggs Co., a, c, d, e, f, h, i.
Bios Labs, Inc., b, d, e, i.
Biwax Corp., c, d, e, h, i.
Bjorksten Research Labs. for Industry, Inc., a thru i.
Bloomingdale Rubber Co., b.
Borden Chemical Co., a thru d, h, i.
Brook Molding Corp., g, h.
Carborundum Co., The, c, d, h.
Carborundum Co., Refractories Div., h.
Carmer Industries Inc., d.
Chemical Products Corp., c, d, h, i.
Clarkson Labs., Inc., The, b, e, i.
Coast Pro-Seal & Mfg. Co., a, c, h.
Cobehn, Inc., b.
Connecticut Hard Rubber Co., The, a.
Cordo Chemical Corp., a.
DBM Research Corp., h, i.
Del's Tumbling Service, b.
Delta Chemical Works, Inc., a, b, f, h, i.
Dennis Chemical Co., a, d, e, h, i.
Detrex Chemical Industries, Inc., b.
Dow Corning Corp., a, c, d, e, h, i.
Drill Mfg. Co., b.
E. I. Du Pont de Nemours & Co. Inc., a, b, d, e, i.
Duracate Corp., e, i.
Durez Plastics Div.-Hooker Chemical Corp., g.
Eastern Chemical Div., Hooker Chemical Corp., b, g.
Eco Engrg. Co., a.
Ed-Berl Products, Inc., h, i.
Electronic Mechanics, Inc., c, f.
Emerson & Cuming, Inc., c, d, e, h, i.
Enthone Inc., b.
Epoxy Products, Inc., Div.-Joseph Waldman & Sons, c, d, e.
L. W. Ferdinand & Co. Inc., a.
Food Machinery & Chemical Corp.-Dapon Dept., c, d, e.
Food Machinery & Chemical Corp.-Epoxy Dept., a, c, d, e, h, i.
Foote Mineral Co., d, f.
General American Transportation Corp., g.
B. F. Goodrich Aviation Products, h.
B. F. Goodrich Industrial Products Co., a, h, i.
Grafo Colloids Corp., e.
Grant-Lehr Corp., b.
Hanson-Van Winkle-Munning Co., b.
Hastings Plastics, Inc., a, d, e, h.
Hitchinger Mfg. Co., Inc., c, d, e, h, i.
R. M. Hollingshead Corp., b.
Homalite Corp., The, i.
Instrument Div., The Budd Co., d.
Insulation Mfrs. Corp., c thru f, h.
Johns-Manville Sales Corp., a, c.
Kano Labs., b.
Kish Industries, Inc., c, d, e, h.
Lam-Ply, Inc., c, d, e, h, i.
Lockheed Aircraft Corp., Missiles & Space Div., g, h.
London Chemical Co., Inc., b, c, i.
Lone Star Plastics Co., Inc., g.
Magnus Chemical Co., Inc., b.

Marblette Corp., The, a, c, d, e, h.
Merix Chemical Co., b.
Midland Industrial Finishes Co., d, e.
Midland Paint & Varnish Co., The, a, c, i.
James Millen Mfg. Co., Inc., e.
*MINNESOTA MINING & MFG. CO., a, c thru i.
*MINNESOTA MINING & MFG. CO.-ADHESIVES, COATING & SEALERS DIV., a, c, h, i.
*MINNESOTA MINING & MFG. CO.-CHEMICAL DIV., c, d, e, g, h.
Mitchell Rand Mfg. Corp., a, c, d, e, h.
Monsanto Chemical Co., e.
Narmco Materials Div., Narmco Industries, Inc., a, d, g, h.
National Engrg. Products, Inc., a, c, d, h.
Naugatuck Chemical Div.-U. S. Rubber Co., a, c, d, h.
New England Tape Co., Div.-United-Carr Fastener Corp., d, e, i.
Napco Chemical Co., Plastics Div., h.
Norrich Plastics Corp., d.
Norrich Screw Machine Products, d, g, h.
Nu Steel Co., b.
Parker Rust Proof Co., b.
Penetone Co., The, b.
Pennsalt Chemicals Corp., b, h.
Permacel, c, d, e, h, i.
Permatex Co., Inc., a.
Philadelphia Quartz Co., b, e.
Philco Corp.-Govt. & Industrial Group, d, h.
Plastic Age Sales, Inc., g.
Products Research Co., a, c, d, e, h, i.
Protex-A-Cote, Inc., a, c, d, h, i.
Reichhold Chemicals, Inc., g.
Rezolin, Inc., c, d.
J. R. Robbins Co., c, d, e, h.
Rogers Corp., g.
Milton Ross Metals Co., The, d, h.
Roto Finish-Ranshoff, b.
Ruby Chemical Co., b.
Sauereisen Cements Co., a, c, d, h.
Schenectady Varnish Co., Inc., c, e, i.
Seal-Peel, Inc., a, h.
Silicone Products Dept., General Electric Co., Dept. C, a, c, d, e, h, i.
Silicones Div.-Union Carbide Corp., a, c thru i.
Smooth-On Mfg. Co., a, c, d, h, i.
Southwest Research Institute, d.
Special Products Dept., Melpar, Inc., c, d, h.
Spraylat Corp., i.
Standard-Tech Chemicals, Inc., c, e, h, i.
Stevenson Bro. & Co., a, c, d, e, h, i.
Stonhard Co., Inc., a, b, i.
Thermon Mfg. Co., c, h.
Topper Mfg. Co., Inc., d, h.
Trio Chemical Works, Inc., b, i.
Turco Products, Inc., b.
United Mineral & Chemical Corp., c.
United Shoe Machinery Corp., a, i.
Vapor Blast Mfg. Co., b.
Wesrep Corp., c, d, h.
Wheelabrator Corp., b.
Wyandotte Chemicals Corp., b.
Wye Industries, b.
X-Pando Corp., a, c, d, h, i.
Zophar Mills Inc., a thru e, h, i.

COMPRESSOR ASSEMBLIES

Accessory Controls & Equipment Corp.
Air Logistics Corp.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Allis-Chalmers
Allison Div., General Motors Corp.
American Instrument Co., Inc.
Applied Dynamics Corp.
Beach-Russ Co.
Budd Lewyt Electronics, Inc.
Calcor Corp.
Carson Mach & Supply Co.
Clark Bros. Co., Div.-Dresser Operations, Inc.
Cornelius Co., The, Aero Div.
Eastern Industries Inc.
Ex-Cell-O Corp.
Fluoro-Chem Corp.
Great Lakes Mfg. Corp.
Guided Missile Div., The Firestone Tire & Rubber Co.
Halocarbon Products Corp.
Hamilton Standard, Div.-United Aircraft Corp.
Haskel Engrg. & Supply Co.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
ITE Circuit Breaker Co., Special Products Div.
Jarvis Corp.
Joy Mfg. Co.
Kerns Mfg. Corp.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
McGregor Mfg. Corp.
Pioneer Industries Div., Almar-York Co. Inc.
Solar Aircraft Co.
Southwest Research Institute

*Standard Steel Corp., Cambridge Div.
Stearns-Roger Mfg. Co., The
Tappco Group, Thompson Ramo Wooldridge Inc.
Task Corp.
Thompson Ramo Wooldridge Inc.
Van der Horst Corp. of America
Wells Industries Corp.
Winder Aircraft Corp. of Florida
Worthington Corp.
York Div., Borg-Warner Corp.

COMPRESSOR ASSEMBLIES, AXIAL FLOW

Air Logistics Corp.
*AIRESEARCH MFG. OF ARIZONA
Allis-Chalmers
Allison Div., General Motors Corp.
American Instrument Co., Inc.
Beach-Russ Co.
Calcor Corp.
Carrier Corp.
Carson Mach & Supply Co.
Clark Bros. Co., Div.-Dresser Operations, Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dean & Benson Research, Div.-Benson Mfg. Co.
Ex-Cell-O Corp.
George E. Harris & Co., Inc.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
Jarvis Corp.
Joy Mfg. Co.
Kerns Mfg. Corp.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Napier Engines Inc.
Schellens-True Corp.
Solar Aircraft Co.
Sunstrand Turbo
Tappco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
Wells Industries Corp.
Westinghouse Electric Corp.

COMPRESSOR ASSEMBLIES, CENTRIFUGAL FLOW

Air Logistics Corp.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Allis-Chalmers
Allison Div., General Motors Corp.
Calcor Corp.
Carrier Corp.
Carson Mach & Supply Co.
Clark Bros. Co., Div.-Dresser Operations, Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
General American Transportation Corp.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
Jarvis Corp.
Joy Mfg. Co.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
McGregor Mfg. Corp.
Napier Engines Inc.
Sunstrand Turbo
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
Wells Industries Corp.
Wickfield, Inc.
Worthington Corp.
York Div., Borg-Warner Corp.

COMPRESSOR ASSEMBLIES, MOBILE

Air Logistics Corp.
*AIRESEARCH MFG. OF ARIZONA
Allis-Chalmers
American Instrument Co., Inc.
Beach-Russ Co.
Budd Lewyt Electronics, Inc.
Calcor Corp.
Carrier Corp.
Carson Mach & Supply Co.
Clark Bros. Co., Div.-Dresser Operations, Inc.
Consolidated Diesel Electric Corp.
Continental Aviation & Engrg. Corp.
Cornelius Co., The, Aero Div.
Dean & Benson Research, Div.-Benson Mfg. Co.
Guided Missile Div., The Firestone Tire & Rubber Co.
Haskel Engrg. & Supply Co.
Highland Engrg. Co.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
Joy Mfg. Co.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Stearns-Roger Mfg. Co., The
United Mfg. Co., Div., The W. L. Maxson Corp.
Wells Industries Corp.
Wickfield, Inc.
Worthington Corp.

COMPRESSORS, AIR

Accessory Controls & Equipment Corp.
Air Logistics Corp.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.

Allis-Chalmers
 American Instrument Co., Inc.
 Applied Dynamics Corp.
 Beach-Russ Co.
 Binks Mfg. Co.
 Budd Lewyt Electronics, Inc.
 Carrier Corp.
 Carson Mach & Supply Co.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Cleco Air Tools, Div.-Reed Roller Bit Co.
 Cobehn, Inc.
 Cornelius Co., The, Aero Div.
 Dalmo Victor Co., Div.-Textron, Inc.
 De Vilbiss Co., The
 Eastern Industries Inc.
 Fuller Co.
 Gardner-Denver Co.
 General American Transportation Corp.
 Great Lakes Mfg. Corp.
 Hamilton Standard, Div.-United Aircraft Corp.
 Haskel Engrg. & Supply Co.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON
 FEARLESS CORP.
 Joy Mfg. Co.
 Kahn & Co., Inc.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Leiman Brothers, Inc.
 M. C. Mfg. Co.
 M-D Blowers, Inc.
 Mico Instrument Co.
 Olin Mathieson Chemical Corp., N. Y.
 Quincy Compressor Co.
 Schutte & Koerting Co.
 Solar Aircraft Co.
 Stewart-Warner Corp., Alemite Div.
 Stratots, Div.-Fairchild Engine & Airplane Corp.
 Superior Pneumatic & Mfg., Inc.
 Van der Horst Corp. of America
 Wayne Pump Co., The, Div.-Symington Wayne Corp.
 Wells Industries Corp.
 Westinghouse Electric Corp.
 Wickfield, Inc.
 Worthington Corp.

COMPRESSORS, GAS

Accessory Controls & Equipment Corp.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 Allis-Chalmers
 American Instrument Co., Inc.
 Beach-Russ Co.
 Budd Lewyt Electronics, Inc.
 Carrier Corp.
 Carson Mach & Supply Co.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Cornelius Co., The, Aero Div.
 Eastern Industries Inc.
 Frick Co.
 Fuller Co.
 General American Transportation Corp.
 Great Lakes Mfg. Corp.
 Haskel Engrg. & Supply Co.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON
 FEARLESS CORP.
 Joy Mfg. Co.
 Leiman Brothers, Inc.
 M. C. Mfg. Co.
 M-D Blowers, Inc.
 McGregor Mfg. Corp.
 Schutte & Koerting Co.
 Solar Aircraft Co.
 Stratots, Div.-Fairchild Engine & Airplane Corp.
 Vilter Mfg. Co., The
 Wells Industries Corp.
 Westinghouse Electric Corp.
 Worthington Corp.

COMPRESSORS, PORTABLE

Accessory Controls & Equipment Corp.
 Air Logistics Corp.
 *AIRESEARCH MFG. OF ARIZONA
 Allis-Chalmers
 American Instrument Co., Inc.
 Beach-Russ Co.
 Binks Mfg. Co.
 Budd Lewyt Electronics, Inc.
 Carson Mach & Supply Co.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Cobehn, Inc.
 Cornelius Co., The, Aero Div.
 De Vilbiss Co., The
 Eastern Industries Inc.
 Gardner-Denver Co.
 Haskel Engrg. & Supply Co.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON
 FEARLESS CORP.
 Joy Mfg. Co.
 Kahn & Co., Inc.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Leiman Brothers, Inc.
 M-D Blowers, Inc.
 Olin Mathieson Chemical Corp., N. Y.

Quincy Compressor Co.
 Solar Aircraft Co.
 Superior Pneumatic & Mfg., Inc.
 Wells Industries Corp.
 Wickfield, Inc.
 Worthington Corp.

COMPUTER INPUT EQUIPMENT

Alwac Computer, Div.-El-Tronics Inc.
 American Electronics Inc., Taller-Cooper Div. & Data Systems Div.
 Autonetics, Div.-North American Aviation, Inc.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Bendix Computer Div.-Bendix Aviation Corp.
 Benson-Lehner Corp.
 Bogue Electric Mfg. Co.
 Bruno-New York Industries Corp.
 Budd Co., The
 Budd Lewyt Electronics, Inc.
 Burroughs Corp.
 Burroughs Corp., Electrodato Div.
 California Computer Products, Inc.
 Chance Vought Aircraft, Inc.
 Curtiss-Wright Corp., Electronics Div., IMI Branch
 Digital Sensors Inc.
 Danner Scientific Co.
 Electronic Computer Co., Inc.
 Electronic Engrg. Co. of California
 FAE Instrument Corp.
 Fenste, Federick & Miller Inc.
 General Electric Co., Heavy Military Electronics Dept.
 General Kinetics Inc.
 Gillilan Bros. Inc.
 Gyrex Corp.
 The Huyck Systems Co.
 Lear, Inc.
 *WALLACE O. LEONARD INC.
 Libroscope Div., General Precision, Inc.
 Lundy Mfg. Corp.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div.
 Motorola, Inc.
 Navigation Computer Corp.
 Northrup Corp.
 Parabam, Inc.
 Penn Keystone Corp.
 Philco Corp.-Govt. & Industrial Group
 Precision Specialties, Inc.
 *RADIO CORP. OF AMERICA
 Remington Rand Univac Div.-Sperry Rand Corp.
 Sorabam Engrg., Inc.
 Southwest Research Institute
 Stromberg-Carlson Div.-General Dynamics Corp.
 Stromberg-Carlson, San Diego, General Dynamics Corp.
 Tolly Register Corp.
 Union Switch & Signal, Div.-Westinghouse Air Brake Co.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 Wang Labs, Inc.

COMPUTER OUTPUT EQUIPMENT

Alwac Computer, Div.-El-Tronics Inc.
 American Electronics Inc., Taller-Cooper Div. & Data Systems Div.
 Autonetics, Div.-North American Aviation, Inc.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Bendix Computer Div.-Bendix Aviation Corp.
 Benson-Lehner Corp.
 Budd Co., The
 Budd Lewyt Electronics, Inc.
 Burroughs Corp.
 Burroughs Corp., Electrodato Div.
 California Computer Products, Inc.
 Chance Vought Aircraft, Inc.
 Courter Products, Div.-Model Engrg. & Mfg., Inc.
 Donner Scientific Co.
 Eastman Kodak Co.
 Electro Instruments, Inc.
 Electronic Computer Co., Inc.
 Electronic Engrg. Co. of California
 FAE Instrument Corp.
 Fenste, Federick & Miller Inc.
 GPI Div.-General Precision, Inc.
 General Electric Co., Heavy Military Electronics Dept.
 General Kinetics Inc.
 Gillilan Bros. Inc.
 Huyck Systems Co.
 Lear, Inc.
 Leetronics, Inc.
 Libroscope Div., General Precision, Inc.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Motorola, Inc.

Navigation Computer Corp.
 Northrup Corp.
 Penn Keystone Corp.
 Philco Corp.-Govt. & Industrial Group
 Precision Specialties, Inc.
 *RADIO CORP. OF AMERICA
 Remington Rand Univac Div.-Sperry Rand Corp.
 Sorabam Engrg., Inc.
 Southwest Research Institute
 Stromberg-Carlson Div.-General Dynamics Corp.
 Stromberg-Carlson, San Diego, General Dynamics Corp.
 Tolly Register Corp.
 Union Switch & Signal, Div.-Westinghouse Air Brake Co.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 Wang Labs, Inc.

COMPUTERS

a. Analog
 b. Digital
 c. Navigation
 d. Offset Track
 e. Storage, Electrostatic
 f. Storage, Ferroelectric
 g. Storage, Magnetic

ACF Electronics Div., ACF Industries Inc., a, b.
 ACF Industries Inc., a, b.
 Acoustica Associates, Inc., a, b.
 Advance Industries, Inc., a thru d, g.
 Aeroflex Labs. Div., Aeroflex Corp., a.
 Aerona Mfg. Corp.-Aerospace Div., a, b.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a.
 Airpax Electronics Inc., Cambridge Div., a, b.
 Airpax Electronics Inc., Seminole Div., a, b.
 Allegany Instrument Co., Inc., a, b.
 Alwac Computer, Div.-El-Tronics Inc., b, g.
 American Electronics, Inc., a.
 Ampex Data Products Co., g.
 Analogue Controls, Inc., c.
 Applied Electronics Corp. of N. J., a, b.
 Applied Research Labs., Inc., a.
 Arrow Tool Co. Inc., g.
 Atlas Precision Products, Co.
 Autometric Corp., a, b, g.
 Autonetics, Div.-North American Aviation, Inc., a, b, c.
 Avco Corp., Crosley Div., b.
 Avien, Inc., g.
 Beckman Instruments, Inc., Berkeley Div., a.
 Bell & Gossett Co., a.
 Belock Instrument Corp., a, b, c.
 Bendix Aviation Corp., a thru d, f, g.
 Bendix Aviation Corp., Cincinnati Div., a, b.
 Bendix Computer Div.-Bendix Aviation Corp., b, g.
 Bendix Corp., The, Eclipse-Pioneer Div., a thru d.
 Bowmar Instrument Corp., a, c.
 Briggs Associates, Inc., a, b, g.
 *BRISTOL CO., THE, a.
 Broadview Research Corp., a thru g.
 Budd Co., The
 Budd Lewyt Electronics, Inc., a, b, c.
 Bulova Research & Development Labs., Inc., a, b.
 Burroughs Corp., a thru g.
 Burroughs Corp., Electrodato Div., b, g.
 CGS Labs, Inc., a, b.
 California Computer Products, Inc., b, c.
 Chance Vought Aircraft, Inc., a, b, c.
 Clifton Precision Products Co., Inc., c.
 Collins Radio Co., c.
 Colorado Research Corp., a.
 Computer Control Co., Inc., b, g.
 Computer Control Co., Inc., Western Div., b, g.
 Computer Systems, Inc., a.
 Consolidated Airborne Systems, Inc., b.
 Control Data Corp., b, g.
 Control Electronics Co., Inc., b.
 Courter Products, Div.-Model Engrg. & Mfg., Inc., b.
 Curtiss-Wright Corp., Electronics Div., a, b.
 Curtiss-Wright Corp., Santa Barbara Div., a, b.
 Dalmo Victor Co., Div.-Textron, Inc., c.
 Daystrom, Inc., Control Systems Div., b.
 Daystrom, Inc., Military Electronics Div., a, b, c.
 Daystrom Inc., Pacific Div., a.
 Daystrom Inc., Transcail Div., a, c.
 Delco Radio Div.-General Motors Corp., b, c, g.
 Designers for Industry, Inc., a, b, g.
 Detecto Scales, Inc., b.
 Device Development Corp., a.
 Djeco, Div.-Djordjevic Engrg. Co., a, b.
 Donner Scientific Co., a, b, c.
 Electro Precision Corp., a, g.
 Electro Scientific Industries, a.
 Electro-Mec Lab, Inc., a, b.
 Electronics Div.-The National Cash Register Co., b.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., a, c, g.
 Enso, Inc., a.
 Epso, Inc., a thru g.
 *EQUIPMENT DIV., RAYTHEON CO., a thru d.

Ex-Cell-O Corp., g.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., a, b, c.
 Falstrom Co.
 Feedback Controls, Inc., a, c, d.
 Fenske, Federick & Miller Inc., a, b.
 Ferroxcube Corp. of America, f, g.
 Fischer & Porter Co., a, b.
 Flight Support, Inc., a, b.
 Forbes, George F., Industrial Mathematician, a, b.
 Ford Instrument Co., Div.-Sperry Rand Corp., a, b, c.
 GPI Div.-General Precision, Inc., a, c, d.
 General Devices, Inc., a, b.
 General Electric Co., Apparatus Sales Div., a, b, g.
 General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept., a, b.
 General Electric Co., Computer Dept., a, b.
 General Electric Co., Heavy Military Electronics Dept., a, b.
 General Electric Co., Light Military Electronics Dept., a, g.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 General Electric Co., Ordnance Dept., a, b.
 General Instrument Corp., Defense & Engrg. Products Group, a, b, c.
 General Mills, Inc., b, c.
 Gillfillan Bros. Inc., a, b, c.
 Gilmore Industries, Inc., a.
 Goodyear Aircraft Corp., a.
 Gulon Industries, Inc., a, b.
 HRB-Singer, Inc., Sub.-Singer Mfg. Co., g.
 Hogan Chemicals & Controls Inc., a, b.
 Hammett-Mercury-Rex Div., a thru g.
 Hazeltine Electronics Div.-Hazeltine Corp.
 Huyck Systems Co., a, b, c.
 IIT Federal Div., International Telephone & Telegraph Corp., a, b, c.
 Industrial Control Co., a, e.
 Jardur Aviation Co., c.
 Jardur Import Co., c.
 *KEARFOTT DIV., GENERAL PRECISION, INC., a, b, c.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., a, b, c.
 Lab. for Electronics, Inc., a, b, c, g.
 Lear, Inc., a thru f.
 Leeds & Northrup Co., a, b.
 Leemath Inc., a.
 *WALLACE O. LEONARD, INC., a, b.
 Librascope Div., General Precision, Inc., a, b, c, g.
 Litton Industries, Inc., a, b, c.
 Lockheed Aircraft Corp., Missiles & Space Div., a, b, c.
 Lockheed Electronics Co., Stavid Div., a thru d.
 Loral Electronics Corp., a, c.
 Lytle Corp., c.
 MB Electronics, a.
 Madigan Corp., a thru g.
 Maico Electronics, Inc., g.
 W. L. Maxson Corp., The, a, b, c.
 Mc Donnell Aircraft Corp., a.
 Midwestern Instruments, Inc., b.
 Milgo Electronic Corp., a, b.
 Minneapolis-Honeywell Regulator Co., Aeronautical Div., a thru d.
 Minneapolis-Honeywell Regulator Co., Industrial Div., a, b.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div., g.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div., a thru g.
 *MINNESOTA MINING & MFG. CO., g.
 Motorola, Inc., a thru f.
 National Co., Inc., b, c.
 Navigation Computer Corp., b.
 New London Instrument Co. Inc., a.
 Newton Co., The, b.
 Norden Div., United Aircraft Corp., a, b, c.
 Northrop Corp., b, c, g.
 Norton Associates, Inc., g.
 Nortronics, Div.-Northrop Corp., b, c, g.
 Otis Elevator Co., Defense & Industrial Div., a.
 Packard Bell Computer Corp., a, b, c.
 Patterson Moos Research, Div.-Leesona Corp., a.
 Performance Measurements Co., b.
 Philco Corp.-Govt. & Industrial Group, b, c, e, f, g.
 Potter Instrument Co., Inc., b, g.
 Production Research Corp., Sub.-Radio Condenser Co., a, b, c.
 *RADIO CORP. OF AMERICA, b, c, d, g.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, a, b, c, f, g.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., a, b, c.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., b.
 Reeves Instrument Corp., a.
 Reflectone Electronics, Inc., a.
 Remington Rand Univac Div.-Sperry Rand Corp., b.
 Republic Aviation Corp., Missile Systems Div., a, b, c.

Rese Engrg., Inc., b, g.
 Research, Inc., a.
 Scientific-Atlanta, Inc., a.
 Seiscor, Div.-Seismograph Service Corp., a, c.
 Servomechanisms, Inc., a, b.
 Sillocks-Miller Co., c.
 Singer Military Products Div.-The Singer Mfg. Co., a, g.
 Skiatron Electronics & Television Corp., a, b.
 Solar Aircraft Co., b.
 Soroban Engrg., Inc., a, c.
 Southwest Research Institute, a, b.
 Southwestern Industrial Electronics Co.
 Special Products Dept., Melpar, Inc., a, b.
 Sperry Farragut Co., Div.-Sperry Rand Corp.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp., b, c, g.
 Strand Engrg. Co., a, b.
 Stromberg-Carlson Div.-General Dynamics Corp., b, c, e, f, g.
 Sun Electric Corp., Aeronautical Div., a thru d.
 Systrom Corp., b.
 TRG, Inc., a thru d.
 Topco Group, Thompson Ramo Wooldridge Inc., a.
 Technical Engrg. Co., b.
 Telechrome Mfg. Corp., a, b.
 Telectro Industries Corp., a, b, g.
 Telex, Inc., b, g.
 Texas Instruments Inc., a, b, c.
 Thompson Ramo Wooldridge Inc., a, b.
 Thompson-Ramo-Wooldridge Products Co., The, b, g.
 Trio Laboratories, Inc., a, c.
 U. S. Science Corp., Div.-Topp Industries, Inc., a.
 Wang Labs., Inc., a, b.
 Westinghouse Electric Corp., a, b, c.

COMPUTERS, AIR DATA

ACF Industries Inc.
 Advance Industries, Inc.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 American Electronics Inc., Teller-Cooper Div. & Data Systems Div.
 Atlas Precision Products Co.
 Autometric Corp.
 Autonics, Div.-North American Aviation, Inc.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Corp., The, Eclipse-Pioneer Div.
 A. Biederman, Inc.
 Broadview Research Corp.
 Budd Co., The
 Budd Lewyt Electronics, Inc.
 Chance Vought Aircraft, Inc.
 Daystrom Inc., Pacific Div.
 Daystrom Inc., Transicoil Div.
 Epsco Inc.
 *EQUIPMENT DIV., RAYTHEON CO.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Falstrom Co.
 Feedback Controls, Inc.
 Fenske, Federick & Miller Inc.
 Flight Support, Inc.
 GPI Div.-General Precision, Inc.
 General Devices, Inc.
 General Instrument Corp., Defense & Engrg. Products Group
 Gulon Industries, Inc.
 HRB-Singer, Inc., Sub.-Singer Mfg. Co.
 Hammett-Mercury-Rex Div.
 George E. Harris & Co., Inc.
 Hazeltine Electronics Div.-Hazeltine Corp.
 Huyck Systems Co.
 Jardur Aviation Co.
 Jardur Import Co.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 *WALLACE O. LEONARD, INC.
 Librascope Div., General Precision, Inc.
 Litton Industries, Inc.
 Lytle Corp.
 W. L. Maxson Corp., The
 Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
 Motorola, Inc.
 Norden Div., United Aircraft Corp.
 Northrop Corp.
 Philco Corp.-Govt. & Industrial Group
 Potter Instrument Co., Inc.
 *RADIO CORP. OF AMERICA
 Remington Rand Univac Div.-Sperry Rand Corp.
 Republic Aviation Corp., Missile Systems Div.
 Servomechanisms, Inc.
 Southwestern Industrial Electronics Co.
 Specialties, Inc.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Sun Electric Corp., Aeronautical Div.

TRG, Inc.
 Thompson Ramo Wooldridge Inc.
 United Control Corp.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 Western Gear Corp.-Precision Products Div.

CONDUITS

- a. Electric
- b. Fiber
- c. Ignition Wire
- d. Metal, Flexible
- e. Metal, Non-Flexible

Aerogrip Corp., Jackson Div.
 Aluminum Co. of America, a, e.
 American Brass Co., The, a, d.
 Anaconda Metal Hose Div., The American Brass Co., a, c, d.
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., d.
 Breeze Corporations, Inc., c, d.
 Chase Brass & Copper Co., Inc., e.
 Cobra Metal Hose Div. DK Mfg. Co., d.
 Collins Mfg. Corp., a.
 Co-Operative Industries, Inc., c, d.
 Craig Systems, Inc., e.
 Federal Metal Hose Corp., d.
 Flexible Metal Hose Mfg. Co., a, c, d.
 Flexible Tubing Corp., a.
 Flexonics Corp., d.
 Hallatt Mfg. Co., a, c, d, e.
 George E. Harris & Co., Inc., c, d.
 Harvey Aluminum, e.
 Johnson Metal Hose, Inc., c, d.
 Kaiser Aluminum & Chemical Sales, Inc., a, e.
 Lamtex Industries Inc., b.
 Line Material Industries-Mc Graw-Edison Co., b.
 Marco Industries Co., a, d.
 Marmon Div., Aerogrip Corp., d, e.
 *MARTIN CO., THE, DENVER DIV., a, d.
 *MINNESOTA MINING & MFG. CO., a, b, d, e.
 Reynolds Metals Co., a, e.
 Rogers Corp., b.
 Rome Cable Div. Alcoa, a, e.
 Saylor Electric Products Corp., b.
 Scintilla Div., Bendix Aviation Corp., a, c, d, e.
 Servair Co., c, d.
 Skytronics, Inc., a, c, d.
 Thor Ceramics, Inc., c.
 Titeflex, Inc., d.
 Union Asbestos & Rubber Co., b.
 United Wire & Supply Corp., e.
 Western Control Corp., d.
 Western Div., Aerogrip Corp.
 Wiremold Co., The, a.
 Woolf Aircraft Products, Inc., e.
 Zippertubing Co., The, a, d.

CONES, EXHAUST

Allison Div., General Motors Corp.
 Alloy Products Corp.
 American Welding & Mfg. Co., The
 Anchor Metal Spinning Co., The
 Arde-Portland, Inc.
 Associated Co., Inc.
 B. H. Aircraft Co., Inc.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
 Bethlehem Steel Co.
 Brighton Corp.
 Brook Molding Corp.
 Bruce Engrg. Co.
 Brunswick Balke Collender Co., The, Defense Products Div.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Carborundum Co., The
 Colonial Aircraft Corp.
 Commercial Shearing & Stamping Co.
 Crane Co., Special Products Div.
 Curtiss-Wright Corp.-Wright Aeronautical Div.
 Delta Corp.
 *EXCELCO DEVELOPMENTS INC.
 Ex-Cell-O Corp.
 Fansteel Metallurgical Corp.
 B. F. Goodrich Aviation Products
 H & H Mfg. Co. Inc.
 Hanlon & Wilson Co., The
 Henry & Miller Industries, Inc.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
 ITE Circuit Breaker Co., Special Products Div.
 Ingersoll Kalamo Zoo Div., Borg-Warner Corp.
 Intercontinental Mfg. Co., Inc.
 C. B. Kaupp & Sons, Inc.
 Kelsey-Hayes Co.
 Kerns Mfg. Corp.
 Ladish Co.
 Lamtex Industries Inc.
 *LAVELLE AIRCRAFT CORP.
 La Fiel Mfg. Co.
 Lycoming Div., Avco Corp.

McGregor Mfg. Corp.

***MINNESOTA MINING & MFG. CO.**

National Carbon Co., Div.-Union Carbide Corp.
Norris-Thermador Corp.
Pastushin Industries, Inc.
Penn.-Michigan Mfg. Corp.
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co.
Prewitt Aircraft Co.
Raybestos-Manhattan, Inc.
Edw. Renneburg & Sons Co.
Rimak, Inc.
Solar Aircraft Co.
Superior Spinning & Stamping Co.
Swedlow Inc.
Taylor Fibre Co.
Thermionic Aeronautical Div.
C. W. Torrington Co., Inc.
Twin Coach Co., Aircraft-Missiles
Unified Industries, Inc.
U. S. Pipe & Foundry Co., Steel & Tubes Div.
United States Chemical Milling Corp.
Young Development Div., Hercules Powder Co.

CONES, METAL

Allison Div., General Motors Corp.
Alloy Products Corp.
Aluminum Co. of America
American Aluminum Co.
American Welding & Mfg. Co., The
Ampco Metal, Inc.
Anchor Metal Spinning Co., The
Associated Co., Inc.
B. H. Aircraft Co., Inc.
Basic Tool Industries, Inc.
Beacon Steel Corp.
Belmar Wheel & Machine Co., Inc.
Bethlehem Steel Co.
S. Blickman, Inc.
Brighton Corp.
Brooks & Perkins, Inc.
Calcor Corp.
California Stamping & Mfg. Co.
G. O. Carlson, Inc.
Central Safety Equip. Co.
Colonial Aircraft Corp.
Colorado Fuel & Iron Corp., The
Commercial Shearing & Stamping Co.
Crane Co., Special Products Div.
Cramer Mfg. & Engrg., Inc.
Custom Tool & Mfg. Co.
Cutler Metal Products Co.
Delta Corp.
Elizee Metal Products Co., Inc.
Ex-Cell-O Corp.
Fansteel Metallurgical Corp.
General Electric Co., Missile & Space Vehicle Dept.
H & H Mfg. Co., Inc.
Hahn & Clay
Hamilton Standard, Div.-United Aircraft Corp.
Hanlon & Wilson Co., The
Henry & Miller Industries, Inc.
***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON
FEARLESS CORP.**
Hughes Tool Co., Aircraft Div.
Hydroforming Co. of America Inc.
ITE Circuit Breaker Co., Special Products Div.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
C. B. Kaupp & Sons, Inc.
Kellelt Aircraft Corp.
Kelsey-Hayes Co.
Kentucky Metal Products Co.
Kirk & Blum Mfg. Co., The
Kling Metal Spinning & Stamping Co.
***LAVELLE AIRCRAFT CORP.**
Le Fiell Mfg. Co.
Lycoming Div., Avco Corp.

***MARTIN CO., THE, DENVER DIV.**
McGregor Mfg. Corp.
Nooter Corp.
Norris-Thermador Corp.
Northeast Metals Industries, Inc.
Ohlson Empire Inc.
Pastushin Industries, Inc.
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co.
Edw. Renneburg & Sons Co.
Rimak, Inc.
Solar Aircraft Co.
Spincraft, Inc.
Stamping Div., Rockwell Standard Corp.
Superior Spinning & Stamping Co.
C. W. Torrington Co., Inc.
Tube-Turns Div., Chemetron Corp.
Twin Coach Co., Aircraft-Missiles
Unified Industries, Inc.
U. S. Pipe & Foundry Co., Steel & Tubes Div.
United States Chemical Milling Corp.
Waste King Corp., Technical Products Div.

CONES, SPEAKER

Belmar Wheel & Machine Co., Inc.
Kling Metal Spinning & Stamping Co.
***MAGNAVOX CO., THE**
Parsons Corp., Special Products Div.
Paul & Beekman, Inc.
Rimak, Inc.
Stamping Div., Rockwell Standard Corp.
Unified Industries, Inc.

CONNECTOR, OXYGEN EQUIPMENT

Aerotec Industries Inc., Aircraft Equipment Div.
Airterra
All Specs Corp.
American Latex Products Corp.
Anaconda Metal Hose Div., The American Brass Co.
Aro-Firewel Co. Inc., Sub.-The Aro Equip. Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Pioneer-Central Div.
Bruning Co., The
Essex Mfg. Co., Inc.
B. H. Hadley, Inc.
Hofman Labs, Inc.
National Cylinder Gas, Div.-Chemetron Corp.
On Mark Couplings, Inc.
Richard Philip Co.
Roylyn Inc.
Weatherhead Co., The

CONNECTORS, ELECTRICAL

- a. Explosion-Proof
- b. High Voltage
- c. Microphone
- d. Miniature
- e. Power
- f. Pressurized
- g. Printed Circuit
- h. Rack & Panel
- i. Subminiature

AMP Inc., d, g, h.
A. P. M. Corp., e.
Accurate Electronics Corp., b thru e, g, h, i.
Aerolite Electronics Corp., b, c, d.
Airterra
Aircam Inc., c.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.,
b, e.**
Airwork Corp., d, f, h.
Alden Products Co., b, d, e, h.
All Specs Corp., d.
American Research & Mfg. Corp., b, d.
Armel Electronics, Inc., d, e, g, h.
Arnoux Corp., d, f thru i.
Avco Corp., Crosley Div., d, g, i.
Avnet Corp., b, d, e, f, h.
Wallace Barnes Div. Associated Spring Corp., d.
Bead Chain Mfg. Co., The, d, g.
Bendix Aviation Corp., a thru f, h, i.
Birnbach Radio Co., Inc., c, d, h, i.
Bo Myte Co., Inc., The, g.
Richard D. Brew & Co., Inc., b.
H. H. Buggie Div., Burndy Corp., a, b, d thru i.
Burndy Corp., Omaton Div., b, d thru i.
Cable Electric Products Inc., b, d, e.
Cal Connector Co., a thru f, h, i.
Cambridge Thermionic Corp., d, g.
Cameralex Div., The Federal Mfg. & Engrg. Corp.,
a thru d, h, i.
Cannon Electric Co., a thru i.
Carborundum Co., Latrobe Plant, Refractories Div., b.
Carol Electronics Corp., e.
Ceramaseal, Inc., b.
Coaxial Connector Co. Inc., b, d thru i.
Cole Electric Co., a, b, e, h.
***CONSOLIDATED ELECTRODYNAMICS CORP., d.**
Continental Connector Corp., b, d thru i.
Dejur-Amsco Corp., Electronic Sales Div., b, d thru i.
Deutsch Co., The, Electronic Components Div., b thru
f, h, i.
Dialight Corp., c, d, i.
R. C. Dudek & Co., d, g, i.
E-Z-Hook Test Products, d.
Eagle Electric Mfg. Co., Inc., e.
Elco Corp., c, d, e, g, h, i.
Electro Tec Corp., d.
Electro-Minatures Corp., d, i.
Epoxy Products, Inc., Div.-Joseph Waldman & Sons,
d, g.
Federal Screw Products Inc., c.
G. C. Electronics Co., c.
Garde Mfg. Co., g, h.
Garlock Packing Co., The-Electronic Products, d, i.
General Products Corp., d, h.
General Radio Co., h.
General RF Filings, Inc., d, f.
Good Electronic Corp., g.
Gorn Electric Co., Inc., Aircraft Controls Div., b, d,
e, g, h.
Gorn Electric Co., Inc., Gorn Electronics Div., b, d,
e, g, h.

Graphik Circuits, Div.-Cinch Mfg. Co., g, h.
Gulton Industries, Inc., d, i.
Hammett-Mercury-Rex Div., a, b, e.
Harco Labs, Inc., d, e.
George E. Harris & Co., Inc., a, d, g, h, i.
Hermetic Seal Corp., a thru d, f, h, i.
Hermetic Seal Corp. & Thermal Controls, Inc., a thru
i.
Hi-Shear River Tool Co., a.
Hobson Brothers, Inc., b.
Huyck Systems Co.
Indsl. Prod.-Danbury Knudsen Div.-Amphenol-Borg
Electronics Corp., h.
Javex Electronics, d, e, h.
Jetttron Products, Inc., d, i.
Joclin Mfg. Co., The, b, d.
E. F. Johnson Co., b, d, e, g, h, i.
Howard B. Jones Div.-Cinch Mfg. Corp., c, d, e, g,
h, i.
Joy Mfg. Co., b, e, f.
Kings Electronics Co., Inc., b, c, d, f, g, i.
Koltron Electric Mfg. Co., e.
Kulka Electric Corp., e, g, i.
Lab-Tronics, Inc., c, d, e, h.
Lear, Inc., a, g, i.
Leviton Mfg. Co., Inc., d, e.
Liquidometer Corp., The, d, i.
MEG Products, Div.-Mandrel Industries, Inc.
Madigan Corp., a.
Malco Mfg. Co., d, g.
***MARTIN CO., THE, DENVER DIV., h.**
Mc Cormick Selph Associates, f.
Microdot Inc., d, f, g, i.
James Millen Mfg. Co. Inc., b, d.
Molded Insulation Co., d, i.
Molding Corp. of America, b, d, f, i.
Frank W. Morse Co., d.
Motorola, Inc., g.
Norrich Plastics Corp., b, c, d, g.
Norrich Screw Machine Products, d, i.
Nugent Electronics Co., Inc., d, g, i.
On Mark Couplings, Inc., a, e, f, h.
Pacific Scientific Co., d, g, i.
Piasecki Aircraft Corp., c, d, g, h.
Harold H. Powell Co., d, f, h.
Pyle-National Co., The, a, d, e, f.
Q-Circuits, Div.-Etching Co. of Calif., g.
Radialab Inc., c.
Refractories Div., The Carborundum Co.
Remler Co., c, f.
Research Development Mfg. Inc., d, i.
Robins Industries Corp., c.
Rogers Corp., g.
Milton Ross Metals Co., The, a, b, d thru i.
Roylyn Inc.
Rye Sound Corp., c, d, g, i.
Scintilla Div., Bendix Aviation Corp., b, d, e, f, h, i.
Sealactor Corp., i.
Sealtron Corp., d, h.
C. Sjoberg & Son, c, d, i.
Specialty Electronics Development Corp., e.
Superior Electric Co., The, e.
Telechrome Mfg. Corp., e, h.
Tetrafluor, Inc.
Thermo Electric Co., Inc., h.
Thomas & Betts Co., Inc., The
Thor Ceramics, Inc., b, i.
Titellex, Inc., a, b, d, e.
Tru-Connector Corp., b, e, f, i.
United Shoe Machinery Corp., d, g.
U. S. Components Inc., b, d thru i.
United Supply Co.
Vector Mfg. Co.
Viking Industries Inc., b, d thru i.
Western Insulated Wire Co.
Winchester Electronics, Inc., b, d thru i.
Winder Aircraft Corp. of Florida, a, b.

CONNECTORS, ELECTRICAL FIREWALL

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
All Specs Corp.
Aro-Firewel Co. Inc., Sub.-The Aro Equip. Corp.
Avnet Corp.
Bendix Aviation Corp.
H. H. Buggie Div., Burndy Corp.
Cable Electric Products Inc.
Cal Connector Co.
California Plasteck Inc.
Cannon Electric Co.
Coaxial Connector Co. Inc.
Cole Electric Co.
Deutsch Co., The, Electronic Components Div.
Hermetic Seal Corp.
Janco Corp.
Norrich Screw Machine Products
On Mark Couplings, Inc.
Reverse Corp. of America, Sub., Neptune Meter Co.
Milton Ross Metals Co., The
Scintilla Div., Bendix Aviation Corp.
Skytronics, Inc.
Textstar Plastics, Div.-The Textstar Corp.
Thor Ceramics, Inc.

Viking Industries Inc.

CONNECTORS, RF

Airtron, Div.-Liton Industries
*ANDREW CORP.
Arnoux Corp.
Avnet Corp.
Bendix Aviation Corp.
H. H. Buggie Div., Burndy Corp.
Burndy Corp., Omaton Div.
Cal Connector Co.
Cameralex Div., The, Federal Mfg. & Engrg. Corp.
Cannon Electric Co.
Coaxial Connector Co. Inc.
Cole Electric Co.
Connector Corp. of America
Dage Electric Co., Inc.
Deutsch Co., The, Electronic Components Div.
Don-Ian Electronics Inc.
Dow-Key Co.
Electronic Specialty Co.
General Communication Co.
General Radio Co.
General RF Fittings, Inc.
Good-All Electric Mfg. Co.
Guided Missile Div., The Firestone Tire & Rubber Co.
Hallett Mfg. Co.
Hermetic Seal Corp.
Indd. Prod.-Danbury Knudsen Div.-Amphenol-Borg Electronics Corp.
Instruments for Industry, Inc.
Interstate Electronics Inc.
Jetttron Products, Inc.
Kings Electronics Co., Inc.
Microdot Inc.
Microtab
Nugenf Electronics Co., Inc.
Phelps Dodge Copper Products Corp.
Harold H. Powell Co.
Prodelin Inc.
Radalab Inc.
Milton Ross Metals Co., The
Tamar Electronics, Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Telcon, Inc.
Thompson Ramo Wooldridge Inc.
Tober Electronic Corp.
Tru-Connector Corp.
Tucson Instrument Corp.
Victor R. F. & Microwave Co.
Weatherhead Co., The

CONNECTORS, SKID & SLED

American Instrument Co., Inc.
Arrowhead Products, Div.-Federal-Mogul-Bawer Bearings, Inc.
H. H. Buggie Div., Burndy Corp.
Burndy Corp., Omaton Div.
Cal Connector Co.
Cannon Electric Co.
Copewell Mfg. Co.
Coaxial Connector Co. Inc.
B. H. Hadley, Inc.
On Mark Couplings, Inc.

CONSOLES, AUDIO

A&P Metal Products Mfg. Corp.
Amco Engrg. Co.
Brooks & Perkins, Inc.
Bud Radio, Inc.
Calcor Corp.
Chalco Engrg. Corp.
Chance Vought Aircraft, Inc.
Dahlstrom Metallic Door Co.
Du Kane Corp.
Electronic Applications, Inc.
Elzee Metal Products Co., Inc.
Falstrom Co.
Fouch Electric Mfg. Co., Inc.
Gates Radio Co.
Guided Missile Div., The Firestone Tire & Rubber Co.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
MEG Products, Div.-Mandrel Industries, Inc.
Madigan Corp.
Magnasync Corp.
*MAGNAVOX CO., THE
*MARTIN CO., THE, DENVER DIV.
Motorola, Inc.
Pneumafil Corp.
*RADIO CORP. OF AMERICA
*RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
Remler Co.
Rimak, Inc.
Sonex, Inc.
Technical Materiel Corp., The
Technical Products Co.
Telectro Industries Corp.
Unified Industries, Inc.
Virginia Electronics Co., Inc.

Waco Aircraft Co.
Wickes Engrg. & Construction Co.

CONSOLES, LIGHTING CONTROL

A&P Metal Products Mfg. Corp.
Amco Engrg. Co.
American Machine & Foundry Co., Government Products, N.Y.
Anchor Specialty Mfg. Co. Inc.
Chance Vought Aircraft, Inc.
Dahlstrom Metallic Door Co.
Elzee Metal Products Co., Inc.
Falstrom Co.
Fouch Electric Mfg. Co., Inc.
Grimes Mfg. Co.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
Kirk & Blum Mfg. Co., The
Lear, Inc.
MEG Products, Div.-Mandrel Industries, Inc.
Motorola, Inc.
Pneumafil Corp.
Rimak, Inc.
Standard Electric Time Co., The
Technical Products Co.
Tucson Instrument Corp.
Vickers Inc., Electric Products Div.
Waco Aircraft Co.
Wells Industries Corp.
Westinghouse Electric Corp.
Wickes Engrg. & Construction Co.

CONTACTORS

Allied Precision Products, Inc.
Automatic Switch Co.
Clark Controller Co., The
Electro-Mechanical Specialties Co., Inc.
Fansteel Metallurgical Corp.
General American Transportation Corp.
General Electric Co., Apparatus Sales Div.
General Radio Co.
Hammett-Mercury-Rex Div.
Leach Corp.
Mason Electric Corp.
Ohio Carbon Co., The
Vap-Air Aeronautical Products Div., Vapor Heating Corp.
Weltronic Co.
Westinghouse Electric Corp.

CONTAINERS

ACF Industries Inc.
A&P Metal Products Mfg. Corp.
Aerocal Div., Aeronca Mfg. Corp.
Air Logistics Corp.
American Aluminum Co.
American Brass Co., The
American Car & Foundry Div., ACF Industries, Inc.
American Machine & Foundry Co., Government Products, N.Y.
American Welding & Mfg. Co., The
Applied Design Co.
Arnolt Corp.
Aro Equipment Corp., The
Atkins & Merrill, Inc.
Cyril Bath Co., The
Brooks & Perkins, Inc.
Buffalo Metal Container Corp.
Butler Mfg. Co.
Champion Co., The
Clover Industries Inc.
Container Labs, Inc.
Craig Systems, Inc.
Cromer Mfg. & Engrg., Inc.
Cutler Metal Products Co.
Dempster Brothers, Inc.
Douglas Aircraft Co., Inc.
George D. Ellis & Sons, Inc.
Eubanks Industries, Inc.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Falstrom Co.
Farwell Metal Fabricating
Food Machinery & Chemical Corp., Ordnance Div.
Fruehuf Trailer Co., Military Equipment Div.
Gatewood Products, Inc.
General American Transportation Corp.
General Box Co.
General Electric Co., Missile & Space Vehicle Dept. Pa.
Goldsman
Harco Containers Div.-Harbor Boat Building Co.
Harvey Aluminum
Ludwig Honold Mfg. Co.
Hydroforming Co. of America Inc.
Ingersoll Kalamazoo Div., Borg-Worner Corp.
International Steel Co.
Jeta, Inc.
Jet-Heat, Inc.
Kelleff Aircraft Corp.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.

Kirk & Blum Mfg. Co., The
H. Koch & Sons
Lockheed Aircraft Corp., Missiles & Space Div.
Lofstrand Co., The
Lunn Laminates, Inc.
Lycoming Div., Avco Corp.
Norrich Plastics Corp.
Northeast Metals Industries, Inc.
Northrop Corp.
Olin Mathieson Chemical Corp., N.Y.
Parsons Corp., Special Products Div.
Pastushin Industries, Inc.
Penn-Michigan Mfg. Corp.
Piascecki Aircraft Corp.
Pressed Steel Tank Co.
Protectosol Co., The
Pry Welding & Mfg., Inc.
REF Mfg. Corp.
Republic Steel Corp.
Rimak, Inc.
Roberts Industries Inc.
Royal Jet, Div.-Royal Industries, Inc.
Sillcocks-Miller Co.
Skydne, Inc.
Southwest Research Institute
Spincraft, Inc.
Superior Air Products Co.
Textstar Plastics, Div.-The Textstar Corp.
Trailmobile Inc.
Twix Mfg. Co., Inc.
Vendorlator Mfg. Co.
Waco Aircraft Co.
Weber Aircraft Corp.
Young Development Div., Hercules Powder Co.
Zenith Electric Co.

CONTROLS

a. Audio Recording
b. Automatic Approach
c. Broadcast Input
d. Camera
e. Camera, Remote
f. Capacitance Operated
g. Chemical
h. Combustion
i. Computer
j. Conductivity
k. Counting & Sorting
l. Density
m. Dimension
n. Dynamometer
o. Electronic AC Motor Speed
p. Engine
q. Film Thickness
r. Fire
s. Flame Failure
t. Fluid Conductivity
u. Fluid Flow
v. Fuel
w. Gas
x. Heat Treating
y. Humidity
z. Illumination
a-1. Inspection
b-1. Liquid Level
c-1. Loop Regulation
d-1. Machine Safety
e-1. Master
f-1. Materials Thickness
g-1. Mechanical Overload
h-1. Mechanical Switch
i-1. Motor & Generator
j-1. Motor & Generator Communications
k-1. Motor & Generator, Industrial
l-1. Oxygen
m-1. Ph
n-1. Photoelectric
o-1. Photographic Exposure
p-1. Positioning
q-1. Power Level
r-1. Pressure
s-1. Push-Pull
t-1. Radio Remote
u-1. Reactor, Nuclear
v-1. Register
w-1. Register Cutter
x-1. Remote, Antenna
y-1. Servo
z-1. Signal
a-2. Smoke Density
b-2. Sound System
c-2. Specific Gravity
d-2. Speed
e-2. Strain
f-2. Tension
g-2. Timing
h-2. Torque, Electronic
i-2. Turbidity
j-2. Vacuum
k-2. Ventilating Control System
l-2. Voltage Regulator
m-2. Volume
n-2. Volume & Tone

o-2. Weight
p-2. Welding
x-2. X-Ray

ACF Electronics Div., ACF Industries Inc., k, i-1, o-2.
ACF Industries Inc., i, r-1, j-2.
*ABRAMS INSTRUMENT CORP., d, o-1, g-2.
Accessory Products Co., Div.-Textron Inc., u, v, w,
b-1, l-1, r-1, j-2.
Acme Industrial Co., u.
Acoustico Associates, Inc., u, b-1.
Actuation Research Corp., u, c-1, u-1.
Adel Precision Products of Calif., Div.-General
Metals Corp., u.
Advance Industries, Inc., u, x-1, y-1.
Advance Instrument Corp., y-1.
Advanced Electronics, Inc., a-1.
Aero Instrument Co., r-1, j-2.
Aero Supply Mfg. Inc., p, u, v.
Aeroflex Labs. Div., Aeroflex Corp., e, f-1, p-1,
x-1, y-1.
*AEROJET-GENERAL CORP., u, u-1.
Aerona Mfg. Corp. Aerospace Div., i, k, a-1, y-1,
d-2.
Aeroscience, Inc., k, m, u, e-2, f-2, h-2, o-2.
Aerotec Industries Inc., Aircraft Equipment Div., u, v,
w, b-1, l-1, r-1, j-2, k-2, m-2.
Agostat Timing Instruments-Elastic Stop Nut Corp.
of America, g-2.
Agriculture Aviation Engineering Co. Inc., u.
Air Products, Inc., l-1, p-2.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.,
p-2.
Airborne Accessories Corp., d, p, v.
Aircraft Accessory Turbine Dept.-General Electric
Co., p, u, v, w, i-1, p-1, r-1, y-1, d-2.
*AIRESEARCH MFG. OF ARIZONA, u, v, w, y, l-1,
r-1, y-1, d-2, j-2.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.,
t thru w, i-1, p-1, q-1, r-1, y-1, d-2, k-2.
Airtax Electronics Inc., Cambridge div., i, d-1, d-2.
Airtax Electronics Inc., Seminole Div., i, d-1, d-2.
Alco Valve Co., b-2, r-2.
Alfred Electronics, j-2.
Allegory Instrument Co., Inc., d, r-2, e-2, f-2.
Allied Chemical Corp., General Chemical Div., g.
Allis-Chalmers, i-1, k-1, p-1, d-2, j-2.
Allison Div., General Motors Corp., h, p.
American Electronics, Inc., i-1, k-1, p-1, q-1, y-1, h-2.
American Electronics Inc., Toller-Cooper Div. & Data
Systems Div., k, o-2.
American Instrument Co., Inc., q, y, f-1, m-1, r-1.
American Machine & Foundry Co., y-1.
American Machine & Foundry Co., Government Pro-
ducts, N.Y., k, p, v, r-1, u-1, x-1, e-2.
American Machine & Foundry Co., Greenwich Engrg.
Div., x-1, y-1.
American Measurement & Control, Inc., y-1.
American Optical Co., o-1.
American Potash & Chemical Corp., National North-
ern Div., g.
American Rectifier Corp., d-1, i-1.
American Research & Mfg. Corp., o, a-1, n-1, r-1,
f-1, j-2.
Amglo Corp., g-2.
Ampex Data Products Co., i.
Andersen Labs., Inc., x.
Anlab Inc., p-1, x-1, y-1.
Applied Design Co., d, i, p.
Applied Dynamics Corp., r-1.
Applied Electronics Corp. of N. J., d-2, e-2, g-2.
Arens Controls, Inc., s-1.
Armament Div.-Universal Match Corp., y-1.
Arnoux Corp.
Ara-Firecol Co. Inc., Sub-The Ara Equip. Corp.,
r-1.
Arrow-Hart & Hegeman Electric Co., The, i-1, k-1.
Assembly Products, Inc., g-1, m-1, r-1, d-2, l-2, m-2.
Associated Co., Inc., p.
Raymond Atchley, Inc., y-1.
Automatic Switch Co., u, i-1, j-1, k-1, u-1.
Automatic Timing & Controls, Inc., k, m, q, b-1, p-1,
r-1, u-1, x-1, y-1, z-1, e-2, f-2, g-2, o-2, p-2, q-2.
Automation Products, Inc., l, b-1, c-2, i-2,
Automatic Corp., p-1, y-1.
Automotive & Aircraft Div.-American Chain & Cable
Co., Inc., s-1.
Autofron, Inc., z, o-1 thru d-1, n-1, v-1, o-2.
Autotronics Inc., d-2.
Avco Corp., Crosley Div., t-1, d-2, g-2.
Avien, Inc., u, v, x, b-1, y-1.
Bobcock Radio Engrs., Inc., t-1.
Borber-Colman Co., p-1, y-1, k-2.
Beckman Instruments, Inc., Berkeley Div., d-2, g-2.
Bell & Gossett Co., i, z-1.
Belack Instrument Corp., d, e, i, x-1, y-1, g-2.
Bendix Aviation Corp., b, i, k, p, u, v, w, y, z, b-1,
f-1, i-1, l-1, p-1, r-1, t-1, u-1, x-1, y-1, z-1, d-2, k-2,
l-2.
Bendix Aviation Corp., Cincinnati Div., i, t-1, u-1,
z-1, g-2, l-2.
*BENDIX AVIATION CORP., HAMILTON DIV., p,
u, v, y-1.
Bendix Aviation Corp.-Montrose Div., p-1, r-1, y-1.
Bendix Aviation Corp., Pioneer-Central Div., b-1, l-1.
Bendix Corp., The, Eclipse-Pioneer Div., b.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP., h, p, u, v, p-1, y-1.
Bendix Utico Div., Bendix Aviation Corp., p, u, r-1,
y-1, g-2.
Bendix-Pacific Div., Bendix Aviation Corp., p-1, y-1,
g-2.
Benson-Lehner Corp., d, e, i, o-1, y-1.
Bergen Labs., Inc., h-2, l-2.
Bergen Wire Rope Co., s-1.
Berco Engrg. Corp., p, h-1, i-1, g-2.
A Biederman, Inc., l-1, y-1.
Blaco Mfg. Co., s-1.
Blonder-Tongue Labs., Inc., o.
Bogue Electric Mfg. Co., b-1, i-1, k-1, y-1.
Bowmar Instrument Corp., g-1, p-1, y-1, d-2.
Brach Mfg. Corp., o, z, c-1, q-1, y-1, d-2, f-2.
Branson Corp., g-2.
Branson Instruments, Inc., m, q, a-1, f-1, p-2.
Breeze Corporations, Inc., b-1.
Briqs Associates, Inc., g, i, p-2.
*BRISTOL CO., THE, x, y, b-1, m-1, r-1, g-2, j-2.
Broadview Research Corp., b, y-1, z-1.
Brooks Rotameter Co., u, v, w, b-1, e-2.
Bruno-New York Industries Corp., t-1.
Budd Co., The, a-1, f-1, g-1, e-2, f-2, p-2.
Bulova Research & Development Labs., Inc., g, i-2.
Burroughs Corp., Electrodata Div., i.
Burton-Radgers, Inc., i, o, l-2.
A.M. Byers Co., u-1.
Bytrec Corp., u, e-2, f-2, o-2.
CBS Laboratories, Div.-Columbia Broadcasting
System, o, d, e, q, n-1.
Cadillac Gage Co., u, p-1, r-1, y-1.
California Plasteck Inc., z.
California Stamping & Mfg. Co., p-2.
Comaflex Div., The, Federal Mfg. & Engrg. Corp., o,
d, e.
Captive Seal Corp., v, w.
Carleton Aviation Co., Inc., s, u, w, l-1, r-1, g-2,
j-2, m-2.
Caring Electric Inc., o, z, h-1, s-1.
Carson Mach. & Supply Co., w, i-1, k-1.
Cedar Engrg. Div., Control Data Corp., i-1, j-1, y-1.
Centralab Div., Glabe-Union Inc., m-2, n-2.
Chalco Engrg. Corp., w, b-1, c-1, p-1, r-1, y-1, g-2.
Chance Vought Aircraft, Inc., p, p-1, y-1.
Clark Controller Co., The, o, n, o, c-1, d-1, g-1, h-1,
i-1, k-1, n-1, p-1, y-1, o-2, d-2, f-2, g-2, h-2, l-2.
Clarostat Mfg. Co., Inc., m, a-2.
Cleveland Instrument Co., m-2, n-2.
Clevite Ordnance Div.-Clevite Corp., p-1, t-1, y-1.
Coleman Electronics, Inc., p-1.
Collins Radio Co., a, c.
Colorado Research Corp., i, y-1, k-2.
*COMMERCIAL APPARATUS & SYSTEMS DIV.,
RAYTHEON CO., p-2.
Communications Research Co., t-1.
Components Corp., u.
Compydne Corp., u, v, p-1, r-1, U-1, e-2, f-2.
Computer Control Co., Inc., i.
Computer Control Co., Inc., Western Div., i.
Conflow Corp., u, v, w, b-1, r-1, j-2.
Consolidated Airborne Systems, Inc., f, l, q, u, v, a-1,
b-1, y-1, d-2.
Consolidated Controls Corp., m, o, p, u, v, w, b-1,
j-1, p-1, r-1, u-1, y-1, z-1, d-2, j-2.
Continental-Wirt Electronics Corp., m-2, n-2.
Control Electronics Co., Inc., y-1.
Contral Technology Co., d, e, g-2.
Convair Instruments, Convair Div.-General Dynamics
Corp., b-1.
Cornell Deep Drawing Co., Div.-Lanes Industries
Corp., u, v, w, l-1, r-1.
Cramer Controls Corp., g-2.
Crescent Engrg. & Research Co., p-1, r-1, y-1, d-2.
Croname Inc., t-1.
Curtiss-Wright Corp., Princeton Div., l, q, a-1, u-1,
l-2, g-2.
Custom Component Switches Inc., p, r, u, v, w, b-1,
d-1, g-1, f-1, r-1, d-2, k-2.
DBM Research Corp., d, e, g-2.
Dodge Television Div., Thompson Rama Wooldrige,
Inc., c.
George W. Dahl Co., Inc., w.
Dole Products, Inc., o.
Dolmo Victor Co., Div.-Textron, Inc., u, p-1, y-1.
Data-Control Systems, Inc., t-1.
Datex Corp., p-1, r-1, u-1, x-1, y-1, g-2.
Daven Co., The, o, c, b-2, m-2, n-2.
Davenport Mfg. Co., l-2.
Joe Davidson & Associates, n, o, r, i-1, j-1, k-1,
p-1, r-1, s-1, x-1, y-1, d-2, g-2, h-2.
Daystrom Inc., Control Systems Div., p-1, u-1, y-1.
Daystrom Inc., Military Electronics Div., u-1.
Daystrom Inc., Pacific Div., i, r-1.
Daystrom Inc., Weston Instrument Div., q, y, n-1, o-1,
r-1.
Daytronic Corp., k, m, d-1, f-1, p-1, e-2, f-2.
Decker Corp., The, b, f, l, m, q, u, y-1, b-1,
f-1, p-1, r-1, y-1, c-2 thru g-2, j-2.
Dejour-Amsco Corp., Electronic Sales Div., d, n-1.
Delco Radio Div.-General Motors Corp., i, c-1, q-1,
y-1, z-1, g-2, l-2.
Delta Corp., p-2, q-2.
Delltron Inc., j, k, b-1, l-2.
Designers For Industry, Inc., y-1, g-2.
Destrone Co., g-2.
Dial Products Co., f-2.
J.W. Dice Co., k, m, q, f-1.
Diehl Mfg. Co., o, i-1, p-1, y-1.
Henry G. Dietz Co., Inc., b-1, r-1, g-2, j-2, k-2.
Digital Sensors Inc., p-1, r-1, g-2.
W.C. Dillon & Co., Inc., n.
Diecko, Div.-Djordjevic Engrg. Co., i, q, f-1, f-2.
Don-Lon Electronics Inc., h-1, x-1.
Donner Scientific Co., d-2.
Douglas Aircraft Co., Inc., y-1.
Droyer Hanson Div.-Crane Co., k-2.
Driener, Inc., y.
Du Kone Corp., p-1, b-2.
Durant Mfg. Co., n-1.
Dynamic Controls Co., i.
Dynamic Controls Corp., p, u, v, b-1, r-1, g-2, f-2.
Dynamatics, Inc., e, o-1, x-1, y-1, g-2.
Eagle Signal Co., k, h-1, g-2.
Eastern Industries Inc., p, u, v, y, p-1, r-1, y-1, d-2.
Eastman Kodak Co., o-1.
Eclipse Fuel Engrg. Co., h, w, x, r-1.
Eclipse-Pioneer Div., Bendix Aviation Corp., y-1.
Edcliff Instruments, p-1, r-1.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-
Edison Co., s, i-1, r-1, y-1.
Edmund Scientific Co., o-1.
Edwards High Vacuum Ltd., u, r-1, j-2.
Eisler Engrg. Co., Inc., p-2.
Electric Autolite Co., The, l-2.
Electric Indicator Co., Inc., i-1, j-1, k-1.
Electric Machinery Mfg. Co., i-1, k-1.
Electro Products Labs. Inc., k, d-1, p-1, d-2, g-2.
Electrol Inc., u, y-1.
Electro-Mechanical Specialties Co., Inc., o, g-2.
Electronic Applications, Inc., o, t-1.
Electronic Control Corp., h, j, k, l, t, b-1, d-1, n-1,
q-1, o-2, g-2, h-2.
Electronic Engrg. Co. of California, d, e, g-2.
Electronic Specialty Co., g-2.
Electron Radar Products, s, z, n-1, o-2.
Elgin Micronics, West Coast Div.-Elgin National
Watch Co., g-2.
Elison Draft Gage Co., Inc., h, u, r-1, z-1, j-2.
Engelhard Industries, Inc., l-2.
*ENGIS EQUIPMENT CO., a-1, n-1, o-1.
*EQUIPMENT DIV., RAYTHEON CO., b.
Eric Resistor Corp., k, l, u, r-1, c-2, g-2.
Essex Mfg. Co., Inc., b-1.
Euclid Electric & Mfg. Co., The, k-1, d-2.
Ewald Instruments, p-2.
Exact Engrg. & Mfg. Inc., g-2.
Ex-Cell-O Corp., p, v, p-1, r-1, u-1, y-1, p-2.
FAI Instrument Corp., y-1, d-2, g-2.
Fairchild Astrionics Div., Fairchild Engine & Airplane
Corp., p-1, y-1, d-2.
Fairchild Controls Corp., Components Div., i, u,
b-1, l-1, r-1, z-1, d-2, j-2.
Fairfield Engrg. Corp., o, c-1, h-1, i-1, k-1, p-1, s-1,
x-1, y-1, d-2, e-2, f-2, l-2.
Farmer Electric Products Co., Inc., n-1, g-2.
Fasco Industries, Inc., r-1.
J.W. Fecker Div., American Optical Co., d, e, n-1, y-1.
Federal Electronics Products Inc., p-1.
Federal Products Corp., m, a-1, p-1.
Feedback Controls, Inc., p-1, y-1, f-2.
Fenwal Inc., h, r, s, x, b-1, y-1, k-2.
Fischer & Porter Co., l, u, b-1, r-1.
Fisher Governor Co., f, w, b-1, q-1.
Fla. Aircraft Radio & Marine, t-1.
Flight Refueling, Inc., k, l, u, v, b-1, p-1, u-1, y-1, k-2.
Flight Research, Inc., d, o, e, i-1.
Flight Support, Inc., i, n, e-1, i-1, j-1, k-1, r-1, h-2, l-2.
Fluid Power Inc., l-1.
Ford Instrument Co., Div.-Sperry Rand Corp., b, e, i-1,
i-1, k-1, p-1, u-1, y-1, g-2, h-2, l-2.
Foto-Video Labs., Inc., d.
Frick Co., b-1.
Friez Instrument Div., Bendix Aviation Corp., y, b-1,
p-1, r-1.
Furnas Electric Co., b-1, e-1, k-1, r-1.
GPL Div.-General Precision, Inc., e.
GAP Instrument Corp., y-1.
Gardner Laboratory, Inc., q, f-1, m-1.
General Aniline & Film Corp., Anso Div., y-1.
General Communication Co., l, x-1, c-2.
General Controls Co., h, k, s, u, v, w, y, b-1, k-1, r-1,
x-1, g-2, j-2, k-2.
General Davics, Inc., i, k, h-1, p-1.
General Electric Co., i-1, k-1, p-1, u-1, o-2, d-2, l-2.
General Electric Co., Apparatus Sales Div., n, o, q, u,
x, b-1, e-1, f-1, i-1, j-1, k-1, n-1, p-1, q-1, r-1, v-1,
y-1, o-2, d-2 thru g-2, j-2, l-2, p-2.
General Electric Corp., Armament & Control Sec.,
Light Mil. Elec. Dept., b.
General Electric Co., Computer Dept., i.

General Electric Co. Instrument Dept., h-2.
 General Electric Co. Light Military Electronics Dept., b.
 General Electric Co. Missile & Space Vehicle Dept., f-1.
 General Electric Co. Missile & Space Vehicle Dept., Pa., d, o-1.
 General Electric Co. X-Ray Dept., q-2.
 General Electro-Mechanical Corp., n, y-1, f-2, h-2.
 General Instrument Corp., Defense & Engrg. Products Group, t-1.
 General Radio Co., o, z, l-2.
 Paul E. Gerst & Co., o, f-1, k-1, d-2, l-2.
 Gillfillin Bros. Inc., t, y-1.
 Gilmore Industries, Inc., l, n, u, v, b-1, r-1, d-2, e-2, f-2, h-2, o-2.
 Glasco Instrument Co., r-1, j-2.
 Good Electronic Corp., e-2.
 Gordon Enterprises, d, o-1, g-2.
 Grove Valve & Regulator Co., r-1.
 Guidance Controls Corp., i, k, d-1, g-1, p-1, y-1, d-2, e-2, f-2, h-2.
 Guidaco Missile Div., The Firestone Tire & Rubber Co., n-1, f-1, x-1, y-1.
 Gulton Industries, Inc., i, u, l-2.
 G. W. I. I., o, w, i-1, j-1.
 B. H. Hadley, Inc., h, l, p, u, v, w, b-1, g-1, h-1, l-1, p-1, q-1, r-1, y-1, g-2, f-2, k-2, m-2.
 Hagan Chemicals & Controls Inc., h, j, b-1, m-1, p-1, r-1, c-2.
 Hagen Mfg. Co., k, h-1, g-2.
 Haledy Electronics Co., u, b-1, n-1, j-2.
 Hallamore Electronics Co., Div.-Stiegler Corp., d, e, p, i-1, k-1, r-1, y-1, g-2, f-2.
 Hallikainen Instruments, l, i-2.
 Hamilton Standard, Div.-United Aircraft Corp., p, v, k-2.
 Hamilton Watch Co., Military Products Div., g-2.
 Hammarlund Mfg. Co., The, t-1.
 Hammett-Mercury-Rex Div., k-1, y-1.
 George E. Harris & Co., Inc., o, r, z, i-1, y-1, j-2, l-2.
 Haskel Engrg. & Supply Co., t, u, r-1.
 Hass Instrument Corp., The, n-1, r-1, j-2.
 Hathaway Instruments, Inc., e-2.
 A. W. Haydon Co., The, k, o, g-2.
 Hays Corp., The, u, b-1, m-1, r-1.
 Heinemann Electric Co., d-1, f-1, k-1, g-2.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., j-2.
 E. Vernon Hill & Co., l-2.
 Hobbs Mfg. Co., d-2, f-2, h-2.
 Hoelner Corp., u, v, w, l-1, r-1, y-1.
 Hofman Labs., Inc., l-1.
 Hoke Inc., u, v, w, l-1, j-2.
 Hoover Electric Co., o, y, g-1, i-1, j-1, y-1, h-2.
 Howe Scale Co., The, a-2.
 Hughes Tool Co., Aircraft Div., u, v, b-1, l-1, p-1, d-2, e-2, f-2, j-2.
 Hughey & Phillips, Inc., n-1.
 Humidical Co., y.
 Huyck Systems Co., i, u, v.
 Hydra-Power Corp., p, t thru w, c-1, p-1, q-1, r-1, x-1, y-1.
 Hydraulic Research & Mfg. Co., u, p-1, r-1, y-1.
 Hydraulics, Inc., d-2.
 Hydratics, Inc., u, v, w.
 I-I-S Instrument Div., The Meriam Instrument Co., k, u, v, b-1, n-1, y-1, d-2, g-2, h-2.
 ITT Federal Div., International Telephone & Telegraph Corp., t-1.
 Image Instruments, Inc., a-1, n-1.
 Industrial Control Co., e, i, o, c-1, p-1, r-1, x-1, z-1, d-2, e-2.
 Industrial Engrg. Corp., u.
 Industrial Instruments Inc., t, b-1.
 Industrial Timer Corp., o-1, g-2.
 Ingraham Co., The, g-2.
 Inasco Co., Div.-Barry Controls Inc., d-2.
 Instrument Div., The Budd Co., e-2, f-2.
 Intercontinental Dynamics Corp., n-1, r-1, j-2.
 *INTERELECTRONICS CORP.
 International Electronic Research Corp., u-1.
 International Instruments Inc., b.
 Iron Fireman Mfg. Co., Aircraft Div., p, v.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, l, q, a-1, b-1, f-1.
 JEM Electronics Corp., n-1.
 Jack & Heintz, Inc., t-1, y-1, l-2.
 Jan Hardware Mfg. Co., Inc., y-1.
 Janitrol Aircraft Div.-Midland-Ross Corp., v, w, l-1, r-1, j-2.
 Jordan Electronics, Div.-Victoreen Instrument Co., g-2.
 Kahn & Co., Inc., d-2.
 *KEARFOTT DIV., GENERAL PRECISION, INC., e, i, u, b-1, f-1, i-1, k-1, p-1, y-1.
 Keithley Instruments, Inc., u-1.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., o, d, e, k, r, z, e-1, h-1, p-1, s-1, t-1, v-1, b-2, g-2.
 Kelsey-Hoyes Co., y-1.
 Kemp Aero Products, u, v, w, l-1, r-1, y-1.
 Wayne Kerr Corp., f-1.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc., l-1, r-1, y-1.
 Kieley & Mueller, Inc., l, u, v, w, b-1, l-1, m-1, p-1, r-1, u-1, y-1, c-2, j-2.
 Kingston Electronics Div.-Kingston Industries Inc., k-1.
 Kilmorgen Optical Corp., d, e, p-1, t-1, y-1, h-2.
 Kollman Instrument Corp., Sub.-Standard Coil Products Co., Inc., i, p, n-1, r-1, y-1, j-2.
 Lab. for Electronics, Inc., i, u, c-1, i-1, y-1, d-2, h-2.
 Lane Electronics Mfg. Corp., o, c, n-1, t-1.
 Leach Corp., o, g-1, k-1, k-1.
 Lear, Inc., b, f thru i, k, m thru p, r, u thru z, b-1, c-1, e-1, g-1 thru j-1, n-1, p-1 thru l-1, x-1, y-1, z-1, d-2, h-2, j-2, k-2, l-2.
 Leece-Neville Co., The, o, i-1, k-1, l-2.
 Leeds & Northrup Co., g thru j, i thru z, l-1, m-1, u-1, y-1, o-2, d-2, e-2, f-2, o-2.
 Le Fiel Mfg. Co., f-1, s-1.
 Legris Resistor Corp., o, c, l-2, m-2, n-2.
 Leland Airborne Products, Div.-American Machine & Foundry Co., i-1, q-1, d-2, h-2, l-2.
 *WALLACE O. LEONARD, INC., p, v, w, b-1, l-1, y-1, z-2, d-2.
 Leslie Co., u, b-1, r-1, j-2.
 Librascope Div., General Precision, Inc., d, e, i, o-1, y-1.
 Lincoln Electric Co., The, p-2.
 Linde Co., Div.-Union Carbide Corp., l-1, p-2.
 Link-Belt Co., g, d-2.
 Liquidometer Corp., The, f, l, v, b-1, y-1, c-2.
 Livingston Electronic Corp., p-2.
 Lumen, Inc., n, u, n-1, q-1, u-1, y-1, e-2.
 Lundy Mfg. Corp., v, g-2, k-2.
 MB Electronics, l-1, y-1.
 M. C. Mfg. Co., u.
 Madigan Corp., b, i, e-1, p-1, u-1, x-1, y-1.
 Magnallux Corp., Sub.-General Mills, Inc., j, o-1, f-1.
 Magnasync Corp., o, m, b-2, n-2.
 Magnetic Circuit Elements, Inc., o, l-2.
 Magnetic Controls Co., i, l-2.
 Magnetic Instrument Co., Inc., b-1.
 Magneto, Inc., y-1.
 Magtrol, Inc., n, o, p-1, y-1, h-2.
 Maico Electronics, Inc., k, p-1, v-1.
 P. R. Mallory & Co., Inc., s-1, g-2, m-2, n-2.
 *MARTIN CO., THE, DENVER DIV., m thru p, r, u, a-1, b-1, i-1, k-1, p-1, q-1, r-1, z-1, g-2, k-2, l-2.
 Mason-Neilan, u, b-1, r-1, j-2.
 W. L. Maxson Corp., The, u, b-1, z-1.
 Mead Specialties Co., Inc., u, r-1, d-2.
 Meletron Corp., r-1.
 Metron Instrument Co., d-2, h-2.
 Micro Balancing, Inc., n-1.
 Micro Gee Products, Inc., u, r-1, y-1.
 Midwestern Instruments, Inc., o.
 Milgo Electronic Corp., i, y-1.
 Minatop Corp., m, p-1.
 Minneapolis-Honeywell Regulator Co.-Aeronautical Div., b, v, w, b-1.
 Minneapolis-Honeywell Regulator Co., Industrial Div., j, l, t, u, x, y, b-1, m-1, r-1, u-1, c-2, d-2, j-2.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div., u-1.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div., b, f, i, k, n, o, t thru w, y, a-1, b-1, c-1, e-1, l-1, m-1, p-1, r-1, y-1, c-2 thru g-2, i-2, j-2.
 Mira Corp., The, l-1.
 J. J. Monaghan Co., Inc., j-1, l-1.
 Morse Instrument Co., The, p.
 Motorola, Inc., o, b, c, i, r, y, n-1, t-1, x-1, y-1, b-2, g-2.
 Muirhead Instruments Inc., y-1.
 Mullenbach Div.-Electric Machinery Mfg. Co., l, d-1, e-1, g-1, i-1, j-1, k-1, d-2, g-2, p-2.
 NUMEC-Nuclear Materials & Equipment Corp., u-1.
 George L. Nankervis Co., n, u, i-1, k-1, c-2, d-2, e-2, f-2.
 National Cylinder Gas, Div.-Chemetron Corp., w, l-1, p-2.
 National Electronics, i-1, k-1, q-1, r-1, d-2, l-2.
 National Instrument Laboratories, Inc., u, w.
 National Welding Equipment Co., l-1, p-2.
 National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc., p, u, r-1.
 Navigation Computer Corp., i.
 Networks Electronic Corp., l-2.
 New England Scientific Instruments Co., y, b-1, m-1, q-1.
 Newark Controls Co., l, w, b-1, r-1, d-2, j-2.
 Newton Co., The, p-1, y-1.
 Norden Div., United Aircraft Corp., p-1, y-1.
 Ernest Norman Laboratories, g-2.
 Northrop Corp., p-1, y-1.
 Nuclear Corp. of America, b-1, u-1.
 Nuclear Development Corp. of America, u-1.
 OPW-Jordan, b-1, r-1, k-2.
 Ohmart Corp., The, g, k, l, u, b-1.
 Oil-Dyne, Inc., t, u.
 Opad Electric Co., d-2, l-2.
 Optimized Devices, Inc., k.

Optomechanisms Inc., d, e, k, a-1.
 John Oster Mfg. Co., Avionic Div., y-1.
 Otis Elevator Co., Defense & Industrial Div., o, i-1, j-1, k-1, p-1, y-1, d-2, h-2, l-2.
 Overload Control Co., g-1.
 Oxygen Equipment & Service Co., l-1.
 Pacific Scientific Co., f-2.
 Packard Bell Computer Corp., i, k.
 Panish Controls, p, v, w, g-1, h-1, p-1, s-1, y-1, d-2.
 Paraplegics Mfg. Co., Inc., e-1, y-1.
 Parker-Hannifin Corp., u, v, y-1.
 Parkway Specialties Co., m-2, n-2.
 Patterson Maas Research, Div.-Leesona Corp., g-2.
 Pegusus Labs., Inc., m, p, q, u, f-1, p-1, q-1, r-1, u-1, x-1, y-1, d-2, e-2, f-2.
 Performance Measurements, Inc., u, v, w, p-1, y-1.
 Pesco Products Div.-Borg-Warner Corp., u.
 Pesco Products Div., Borg-Warner Corp., Calif., i-1, f-2.
 Philco Corp.-Govt. & Industrial Group, b thru e, i, y-1, z-1, g-2.
 Philips Electronic Instruments, q-2.
 Photobell Co., Inc., f, k, l, m, q, r, z, o-1 thru d-1, f-1, n-1, b-2, f-2, i-2.
 Photovall Corp., m-1, n-1, o-1.
 Pimax, Inc., y, m-1.
 Pioneer Industries Div., Almar-York Co., Inc., w, x, y, p-1, e-2, f-2, k-2, p-2, q-2.
 Pitometer Log Corp., d-2, h-2.
 Pneu-Hydro Valve Corp., r-1, j-2.
 Potter Aeronautical Corp., k, l, u, v, w, c-2, d-2.
 Power Supplies Inc., o, p, i-1, k-1, y-1, d-2, f-2.
 Powers Regulator Co., The, y.
 Precision Equipment Co., Inc., u-1.
 Precision Thermometer & Instrument Co., b-1, c-2.
 Presin Co., k, n-1, w-1.
 Process & Instruments, g, m-1, j-2.
 RBM Controls Div.-Essex Wire Corp., i-1.
 REF Mfg. Corp., r-1.
 Radiophone Co., Inc., b, f-1.
 Radiation Instrument Development Lab., Inc., u-1.
 Radio Condenser Co., f.
 *RADIO CORP. OF AMERICA, o thru g, i, k, l, m, q, r, y, o-1, e-1, f-1, g-1, n-1, q-1, s-1 thru v-1, x-1, y-1, z-1, b-2, g-2, i-2, l-2, m-2, n-2, q-2.
 Radio Development & Research Corp., o, i-1, j-1, k-1, p-1, q-1, d-2, l-2.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., t-1.
 Ramo-Woolridge, Div.-Thompson Ramo Woolridge Inc., i.
 Reeves Instrument Corp., i, y-1.
 Republic Aviation Corp., Missile Systems Div., y-1.
 Research Controls, p, u, v, w, y, l-1, m-1, p-1, r-1.
 Research, Inc., i, n, u, x, b-1, m-1, p-1, q-1, r-1, y-1, d-2, e-2, f-2, h-2, o-2, p-2.
 Research Indst. Lab. of Electronics, f, q, j-2.
 Resitron Labs., Inc., q-1.
 Revere Corp. of America, Sub., Neptune Meter Co., u, b-1, a-2.
 J. R. Robbins Co., o, u.
 Robertshaw-Fulton Controls Co., A & Div., f, u, w, b-1, l-1, r-1.
 Robertshaw-Fulton Controls Co., Fulton Siphon Div., u, b-1, p-1, r-1, j-2.
 Robot Industries Inc., x-1.
 Rockwood Sprinkler Co., Div.-The Gamewell Co., r.
 Ronson Hydraulic Units Corp., u, p-1, r-1, y-1.
 Milton Roy Co., b-1, m-1, p-1.
 Safety Electrical Equipment Corp., i-1, k-1, l-2.
 Sangamo Electric Co., g-2.
 Santa Barbara Research Center, r, s, n-1.
 Sargent Engrg. Co., p-1, y-1.
 Schaevitz Engrg., l, m, n, q, u, v, w, b-1, f-1, r-1, y-1, f-2, g-2, h-2, o-2.
 Sciaky Brothers, Inc., c-1, g-2, l-2, p-2.
 Scientific Atlanta, Inc., p-1, x-1, y-1.
 Scott Aviation Corp., l-1, r-1.
 Secode Corp., o, e-1, h-1 thru k-1, p-1, t-1, z-1, d-2, k-2.
 Serdex, Inc., y.
 Servomechanisms, Inc., h, i, l, p, u, v, b-1, c-1, h-1, i-1, k-1, p-1, r-1, y-1, d-2, h-2.
 Servo-Tet Products Co., o, i-1, p-1, y-1, d-2.
 Serwulf Products Co., s-1.
 Shallcross Mfg. Co., h-1.
 Sheffield Corp., The, Sub.-Bendix Aviation Corp., m, q, a-1, f-1, g-2.
 Sierra Engrg. Co., u, w, l-1, r-1.
 Sierra-Schroeder Controls, Div.-Idaho Maryland Mmes Corp., u, v, w, r-1.
 Sigma Instruments, Inc., n-1.
 Simmonds Aerocessories, Inc., u, v, w, b-1, r-1, s-1.
 Singer Military Products Div.-The Singer Mfg. Co., k-1, y-1.
 Sirvalco Systems Corp., u.
 Skyvalve, Inc., u, v, w, r-1.
 A. O. Smith Corp., Smith-Erie Div., u, v.
 Solor Aircraft Co., r-1.
 Sonex, Inc., b-1.

Soroban Engrg. Inc. i
South Wind Div., Stewart Warner Corp., u, v, w.
Southwest Products Co., p, v, p-1, s-1.
Southwest Research Institute, g, h, j, l, n, p, q, r, t thru
w, y, b-1, f-1, l-1, m-1, p-1, r-1, y-1, a-2, b-2, d-2,
e-2, j-2.
Southwestern Industrial Electronics Co., i, p, u, b-1,
c-1, e-1, g-1 thru k-1, p-1, q-1, r-1, t-1, y-1, d-2,
g-2, k-2, m-2.
Southwestern Valve Corp., u, v, w.
Special Products Dept., Melpar, Inc., n-1, y-1.
Specialties, Inc., n-1.
Specialty Electronics Development Corp., f-2.
Spectra Electronics Corp., h, l, n-1, a-2.
Spectral Electronics Corp., p-1, r-1, y-1.
Sperry Piedmont Co., Div.-Sperry Rand Corp., e-1,
p-1, y-1.
Stackpole Carbon Co., m-2.
State Testing Laboratory Inc., a-1, q-2.
Statham Development Corp., y-1.
Statham Instruments, Inc., r-1, e-2.
A. U. Stone & Co., Inc., u, v, w.
Stow Mfg. Co., u-1.
Strand Engrg. Co., k, n-1.
Sratos, Div.-Fairchild Engine & Airplane Corp., u, v,
f-1, y-1, k-2.
Stromberg-Carlson Div.-General Dynamics Corp., i,
u-1, g-2.
Sun Electric Corp., Aeronautical Div., v, b-1, f-1, n-1,
p-1, r-1, y-1, g-2, j-2.
Sunshine Scientific Instrument, f, k, q, x, a-1, f-1, d-2,
g-2, h-2, p-2.
Superior Electric Co., The, z, d-2, f-2.
Tabet Mfg. Co., Inc., n-1.
Tait-Peirce Mfg. Co., The, m, a-1.
Talley Corp., The, a, i-1, f-1, p-1, x-1, h-2.
Tamar Electronics, Inc., t-1, x-1.
Tapco Group, Thompson Ramo Wooldridge Inc., d,
e, p, u, v, b-1, c-1, e-1, i-1, p-1, r-1, u-1, x-1, y-1,
d-2, g-2, f-2.
W. A. Taylor & Co., m-1.
Taylor-Winfield Corp., p-2.
Technical Materiel Corp., The, t-1, x-1.
Technical Products Co., a, c.
Telechrome Mfg. Corp., c, d, e, i, k, n, u, y-1, e-2, f-2.
Teleflex Inc., p-1, u-1.
Telex, Inc., i, a-2.
Tel-Instrument Electronics Corp., f-2.
Temco Aircraft Corp., y-1.
Temperature Engrg. Corp., x, y, j-2.
Tempo Instrument Inc., k, g-2.
Texas Instruments Inc., d, v, s-1.
Thayer Scale Corp., f-1, a-2.
Thermo Electric Co., Inc., j, l, u, y, b-1, m-1, r-1, y-1,
a-2, e-2.
Thompson Ramo Wooldridge Inc., d, e, p, u, v, b-1,
c-1, e-1, f-1, p-1, r-1, u-1, x-1, y-1, d-2, g-2, f-2.
Tork Time Controls, Inc., g-2.
Tracerlab Inc., l, q, u, w, b-1, f-1, p-1, q-2.
Traid Corp., d, e, a-1.
Trepac Corp. of America, e-1, j-1.
Trimount Instrument Co., f, b-1.
Trio Laboratories, Inc., p-1, y-1, g-2.
Twix Mfg. Co., Inc., m, a-1, r-1, s-1, f-2, g-2.
Uehling Instrument Co., b-1.
United Aircraft Products, Inc., u, r-1.
United Control Corp., e, b-1, p-1, y-1.
United Electric Controls Co., p, x, y, b-1, i-1 thru l-1,
r-1, j-2, k-2.
U. S. Industries, Inc., a, p, i-1.
U. S. Science Corp., Div.-Topp Industries, Inc., d, i,
p-1, y-1, g-2.
Universal Dynamics Corp., y.
Vacuum Specialties Co., Inc., j-2.
Vacuum Tube Products, Div.-Hughes Aircraft Co.,
j-2, p-2.
Valcor Engrg. Corp., u, v, w, f-1, r-1, s-1, j-2.
Vap-Air Aeronautical Products Div., Vapor Heating
Corp., p-1, y-1.
Varo Mfg. Co., Inc., f, i, k, a, p, u, v, w, e-1, e-1, g-1
thru k-1, p-1 thru t-1, x-1, y-1, z-1, d-2 thru h-2, f-2.
Veeco Vacuum Corp., j-2.
Vemaline Products Co., g-2.
Vickers Inc., u, r-1, y-1, m-2.
Vickers Inc., Div.-Sperry Rand, u, r-1, y-1.
Vickers Inc., Electric Products Div., u, z, b-1, c-1, n-1,
r-1, u-1, y-1, z-1, d-2, e-2, f-2, f-2, p-2.
Vickers, Inc., Mich., p, u, v, i-1, r-1, y-1, d-2.
Viewlex, Inc., d, e.
Vinson Mfg. Co., Inc., b-1, y-1.
Virginia Electronics Co., Inc., t-1.
Voi-Shan Electronics, y-1, g-2, f-2.
Wacline, Inc., a, i-1, j-1, k-1, d-2.
Wang Labs., Inc., i, p-1, g-2.
Warren Components, Div.-El-Tronics, Inc., y.
Waterman Hydraulics Corp., u.
Waugh Engrg. Co., u, v, w, g-2.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.,
l, n-1, e-1.
Weldmatic Div., Unitek Corp., p-2.
Wells Industries Corp., t-1, v-1, w-1, a-2, c-2, d-2,

g-2, i-2, a-2, h, k, l, m, r thru u, x, y, z, a-1, b-1,
d-1, f-1, n-1, p-1.
Weltronix Co., a, i-1, k-1, p-1, g-2, f-2, p-2.
Western Control Corp., p, s-1.
Western Gear Corp.-Precision Products Div., y-1.
Westgate Lab., Inc., y-1.
Westinghouse Electric Corp., n, a, p, e-1, i-1, j-1,
k-1, n-1, p-1, t-1, u-1, x-1, d-2, f-2, k-2, f-2, p-2.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.,
p, t thru w, r-1, y-1.
Wheelock Signals Inc., z-1.
Wiencko Engrg. Co., r-1.
Wicks Engrg. & Construction Co., i-1, j-1, k-1, t-1,
f-2.
G. C. Wilson & Co., g-2.
Winder Aircraft Corp. of Florida, a-1, s-1.
Wollensak Optical Co., a-1.
Wolverine Diesel Power Co., p, f-2.
Wooll Aircraft Products, Inc., p-2.
Worthington Corp., p, u, v, w, f-1, k-1, r-1, j-2.
Zenith Electric Co., k-1, g-2.
Zep Aero, a-1, f-1.
Zoomar Inc., e, a-1.

CONTROLS, ALARM SYSTEM

ASCOP Div., Electro-Mechanical Research, Inc.
All American Engrg. Co.
American District Telegraph Co.
American Instrument Co., Inc.
Assembly Products, Inc.
Bell & Gossett Co.
Briggs Associates, Inc.
*BRISTOL CO., THE
CG Electronics Corp.
Clark Controller Co., The
Colorado Research Corp.
Conax Corp.
Joe Davidson & Associates
Daystrom, Inc., Control Systems Div.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-
Edison Co.
Electronic Control Corp.
Ellison Draft Gage Co., Inc.
Emerson, Sub.-Emerson Radio & Phonograph Corp.
Fenwal Inc.
General Instrument Corp., Defense & Engrg. Prod-
ucts Group
Hammarlund Mfg. Co., The
Infrared Industries, Inc.
International Electronic Research Corp.
International Instruments Inc.
Interstate Electronics Corp.
Kellogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.
Leeds & Northrup Co.
Leslie Co.
*MARTIN CO., THE, DENVER DIV.
Motorola, Inc.
Mullenbach Div.-Electric Machinery Mfg. Co.
National Electronics
Photobell Co., Inc.
Production Research Corp., Sub.-Radio Condenser
Co.
*RADIO CORP. OF AMERICA
Rockwood Sprinkler Co., Div.-The Gamewell Co.
Secode Corp.
Southwestern Industrial Electronics Co.
Special Products Dept., Melpar, Inc.
Spectra Electronics Corp.
Statham Development Corp.
Thermo Electric Co., Inc.
United Electric Controls Co.
U. S. Science Corp., Div.-Topp Industries, Inc.
Varo Mfg. Co., Inc.
Wells Industries Corp.
Wheelock Signals Inc.
Whittaker Controls, Div.-Telecomputing Corp.

CONTROLS, SURFACE FINISH

Branson Instruments, Inc.
Cleveland Instrument Co.
*ENGIS EQUIPMENT CO.
General Electric Co., Apparatus Sales Div.
Pegasus Labs, Inc.
Photobell Co., Inc.
Southwest Research Institute
Unit Process Assemblies, Inc.

CONVERTERS

a. AC-DC
b. Analog Digital
c. DC-AC
d. Field Sequential
e. FM Communications
f. Frequency Measurement & Test
g. Frequency Power Supplies
h. Liquid Oxygen
i. Microwave
j. RF
k. Rotary

l. Voltage m. Waveform

ACF Electronics Div., ACF Industries Inc., b.
ACF Industries Inc., b.
*ABRAMS INSTRUMENT CORP., c.
Acme Electric Corp., a, c, l.
Acoustica Associates, Inc., b.
Adage, Inc., b.
Advance Industries, Inc., b.
Aeronca Mfg. Corp.-Aerospac Div., b.
Air Logistics Corp., a, c, l.
Air Products, Inc., h.
Aircorn Inc., i.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.,
g, h, l.
Airflyte Electronics Co., b.
Airpax Electronics Inc., Cambridge Div., a, c, f.
Airpax Electronics Inc., Seminole Div., a, c, f.
Allen Electric & Equipment Co., a.
Allied International Corp., a, c.
Allis-Chalmers, a.
American Electronics, Inc., a, b, c, g, k.
American Instrument Co., Inc., a, c.
American Rectifier Corp., a.
American Research & Mfg. Corp., a, c, g, l.
American Speedlight Corp., c.
Applied Electronics Corp. of N. J., b, e.
Applied Research Inc., e, i, j.
Arnold Magnetics Corp., c.
Aroux Corp., b, f.
Aro-Firewel Co. Inc., Sub.-The Aro Equip. Corp., h.
Avco Corp., Crosley Div., d.
Avion, Inc., a, c.
B & H Instrument Co., Inc., b, f.
Barker & Williamson Inc., a, c.
Beckman Instruments, Inc., Berkeley Div., f.
Beckman-Systems Div., b.
Behlman Engrg. Co., c, g.
Bendix Aviation Corp., a, b, c, i, k.
Bendix Aviation Corp., Cincinnati Div., b, f, l.
Bendix Aviation Corp., Montrose Div., k.
Bendix Aviation Corp., Pioneer-Central Div., h.
Bendix Aviation Corp., York Div., b.
Bendix Corp., The, Eclipse-Pioneer Div., b.
Benson-Lehner Corp., b, k.
Bergen Labs., Inc., c, l.
Blonder-Tongue Labs., Inc., j.
Blonder-Tongue Labs., Inc., Special Products Div., j.
Bogue Electric Mfg. Co., a, c, g, i, k, l.
Briggs Associates, Inc., b.
*BRISTOL CO., THE, b, c.
Broadview Research Corp., b, d, e.
Brunswick Instruments, c.
Budd Lewyfl Electronics, Inc., a, b, c, e, g, i, j.
Burroughs Corp., b.
CG Electronics Corp., a, b.
CGS Labs., Inc., b.
Carter Motor Co., c, k.
Chalco Engrg. Corp., a, c.
Chatham Electronics Div.-Tung-Sol Electric Inc., a, c,
g, l.
Coleman Electronics, Inc., b.
Collins Radio Co., c, i.
*COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
THEON CO., g.
Communication Accessories Co., c, g, l, m.
Computer Control Co., Inc., b.
Computer Control Co., Inc., Western Div., b.
Consolidated Airborne Systems, Inc., f, g, h.
Consolidated Controls Corp., b.
Consolidated Diesel Electric Corp., a, c.
*CONSOLIDATED ELECTRODYNAMICS CORP., b.
Control Data Corp., b.
Control Electronics Co., Inc., f, g, i.
Cornell-Dubilier Electric Corp., a.
Courier Products, Div.-Model Engrg. & Mfg., Inc., b.
Cox Instruments Div., George I. Nankervis Co., b.
Crescent Engrg. & Research Co., a, c.
Crosby-Teletronics Corp., e.
Cubic Corp., a, b.
D K Mfg. Co., h.
Datascan Inc., a, c, g.
Datex Corp., b.
Daven Co., The, a, c.
Davenport Mfg. Co., a, c.
Joe Davidson & Associates, a, c, g, k, l, m.
Daystrom, Inc., Control Systems Div., a, b, c.
Daystrom, Inc., Military Electronics Div., a, b, c.
Daystrom Inc., Transcoil Div., b.
Daystrom Inc., Weston Instruments Div., a, b.
De Havilland Aircraft of Canada, Ltd., Special Prod-
ucts Div., c.
Delco Radio Div.-General Motors Corp., a, b, c, g,
l, m.
Deltron Inc., a, c.
Designers for Industry, Inc., e, f, g, j.
Digitran Co., The, b.
Djeco, Div.-Djordjevic Engrg. Co., a, b, c, l.
Dorsett Electronic Labs., Inc., a, b, c, l.
Douglas Aircraft Co., Inc., b.

Dynamic Controls Co., a, c.
Dynamotronics, Inc., b, j.
Ecor Div.-Scranton, a, c, g, k, l.
Electro Instruments, Inc., a, b, f.
Electro Precision Corp., b.
Electromotion Co., Div.-Del Mar Engrg. Labs., a, b, c, g, l, m.
Electronic Computer Co., Inc., a, b.
Electronic Specialty Co., a.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, c.
Emertron, Sub.-Emerson Radio & Phonograph Corp., i.
Esco Inc., a thru g.
*EQUIPMENT DIV., RAYTHEON CO., a thru e, g, i, j.
Erie Resistor Corp., b.
Fairfield Engrg. Corp., a, c.
Ferratron Electronics Co., Inc., a, c, j.
Fischer & Porter Co., b.
Flight Support, Inc., a, c.
Ford Instrument Co., Div.-Sperry Rand Corp., b, c, l.
Franklin Electronics Inc., b.
Freed Transformer Co., Inc., c.
GPI Div.-General Precision, Inc., g.
Gates Electronic Co., a.
General Aniline & Film Corp., Anasco Div., i, k.
General Devices, Inc., a, b, c, e, k.
General Electric Co., a, c.
General Electric Co., Apparatus Sales Div., a, c, d, g, k, l.
General Electric Co., Heavy Military Electronics Dept., b.
General Instrument Corp., Defense & Engrg. Products Group, e, i, j.
General Magnetics, Inc., c.
General Mills, Inc., b.
Georator Corp., c, f, g, k.
Paul E. Gerst & Co., a, c, k, l.
Gillfillan Bros. Inc., a, b, c, i, j, l, m.
John Gombos Co., Inc., i.
Gordon Enterprises, k.
Grimes Mfg. Co., a, c.
Guidance Controls Corp., b.
Gulton Industries, Inc., a, b, f, g, l.
W. & L. E. Gurley, b.
Gyrex Corp., The, c.
Hagan Chemicals & Controls Inc., b.
Hallamore Electronics Co., Div.-Sieglar Corp., a, b, c.
Hamilton Standard, Div.-United Aircraft Corp., a, c.
Hammett-Mercury-Rex Div., a, b, c, i, l.
George E. Harris & Co., Inc., a, c, l.
Hathaway Instruments, Inc., a, b, c, l.
Hazeltine Electronics Div.-Hazeltine Corp.
Hewlett-Packard Co., b.
Hofman Labs, Inc., h.
Hol-Gar Mfg. Corp., a, c, k.
Hoover Electric Co., a, c, k.
Hoover Electronics Co., b, e.
William I. Horlick Co., Inc., a, f, g, k, l.
Houston Fearless Corp., b.
I-I-S Instrument Div., The Meriam Instrument Co., a, c, f, g.
ITT Federal Div., International Telephone & Telegraph Corp., b.
Image Instruments, Inc., d.
Induction Heating Corp., g, j.
Industrial Test Equipment Co., c, g.
Instrument Development Labs, Inc., b.
*INTERELECTRONICS CORP., a, c, f, g, l, m.
Jack & Heintz, Inc., a, c, k, l.
James Electronics Inc., a, c.
Johnson Electronics Inc., a, g.
Jordan Electronics, Div.-Victoreen Instrument Co., a, c, l.
Katalight Corp., k.
*KEARFOTT DIV., GENERAL PRECISION, INC., b, i.
Kepco, Inc., a.
Kin Tel Div.-Cohu Electronics, Inc., b.
James Knights Co., The, f.
Kollman Instrument Corp., Sub.-Standard Coil Products Co., Inc., b.
Lab. for Electronics, Inc., i.
lear, Inc., a, b, c, g, j, k, l.
leeco-Neville Co., The, a, c, l.
tel, Inc., j.
Leland Airborne Products, Div.-American Machine & Foundry Co., a, c, g, k, l.
Lepel High Frequency Labs, Inc., j.
Libroscope Div., General Precision, Inc., b.
Linde Co., Div.-Union Carbide Corp., h.
Litton Industries, Inc., b.
Litton Industries, Maryland Div., b.
Lockheed Aircraft Corp., Missiles & Space Div., a, b.
lumen, Inc., a, c.
MEG Products, Div.-Mandrel Industries, Inc., a, c.
Madigan Corp., b.
Magnetic Circuit Elements, Inc., a, c, l.
Magnetic Controls Co., a, c.
Magnetic Research Corp., a, c.
Magnetica, Inc., c.

Maico Electronics, Inc., b.
*MARTIN CO., THE, DENVER DIV., a, l, m.
Micro Gee Products, Inc., a, c.
Milgo Electronic Corp., b.
Milro Controls Co., Inc., a, c.
Minneapolis-Honeywell Regulator Co., Boston Div., a.
Minneapolis-Honeywell Regulator Co., Industrial Systems Div., b.
Mira Corp., The, a.
Model Rectifier Corp., a, l.
Modern Design Div.-H. C. Schloer, Inc., c.
Motor Generator Corp., a, c, g, k.
Motoresearch Co., a.
Motorola, Inc., b, e, i, j.
Heinz Mueller Eng. Co., Inc., a, c, k.
Mullenbach Div.-Electric Machinery Mfg. Co., a.
George L. Nankervis Co., b.
National Co., Inc., e, i, j.
National Cylinder Gas, Div.-Chemtron Corp., h.
National Instrument Laboratories, Inc., f.
Networks Electronic Corp., a, c, f, g, l.
Newton Co., The, b.
Non-linear Systems, Inc., a, b.
Norden Div., United Aircraft Corp., b.
Eriest Norman Laboratories, f, g.
Northeastern Engrg. Inc., b, f.
Northrop Corp., a, b, c.
Opad Electric Co., a, c, g.
Orbitron Co., Inc., b.
Packard Bell Computer Corp., b.
Paraplegics Mfg. Co., Inc., g.
Patterson Moos Research, Div.-Leeson Corp., c.
Performance Measurements Co., b, g.
Perkin Engrg. Corp., a, c.
Permaflux Products Co., a, c, g.
Pesco Products Div., Borg-Warner Corp., a, c.
Pesco Products Div., Borg-Warner Corp., Calif., a, c, g, k.
Patter Aeronautical Corp., a, b, f.
Patter Instrument Co., Inc., b.
Power Supplies Inc., a, c.
RS Electronics Corp., a.
Radiation, Inc., b.
Radiation Instrument Development Lab., Inc., b.
*RADIO CORP. OF AMERICA, b, d thru g, i, j, l, m.
Radio Development & Research Corp., a, b, c, g thru m.
Radio Receptor Co., Inc., Sub.-General Instrument Corp., e, i, j.
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., a, b, c.
Redmond Co., Inc., Sub.-Controls Co. of America, a, c.
Resdel Engrg. Corp., j.
Ronan & Kunz, Inc., h.
Safety Electrical Equipment Corp., c, k, l.
Sangamo Electric Co., a, c, g, k.
Scientific-Atlanta, Inc., i, j.
Servomechanisms, Inc., b.
Signal Equipment Co., Inc., g.
Skiatron Electronics & Television Corp., b.
Sonotone Corp., a, c, l.
Southwest Research Institute, b.
Southwestern Industrial Electronics Co., a, b, c, e, g, k, l.
Specialty Electronics Development Corp., i.
Spectralab Instruments, j.
Spectral Electronics Corp., a, c.
Spencer-Kennedy Labs, Inc., j.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., f, i.
Standard Electric Time Co., The, c.
Standard Steel Corp., Cambridge Div., h.
Stewart & Stevenson Services, Inc., a.
Stromberg-Carlson Div.-General Dynamics Corp., a, b, c, f.
Sun Electric Corp., Aeronautical Div., a, b, c, f, g.
Sunair Electronics, Inc., a, c.
Superior Air Products Co., h.
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc., g, i.
System Labs, Div.-Electronic Specialty Co., b.
Systron Corp., a, b, f.
TRG, Inc., i.
Talley Corp., The, a, c, k, l.
Tally Register Corp., b.
Tamar Electronics, Inc., i, j, m.
Tapco Group, Thompson Ramo Wooldridge Inc., b, c, l.
Technical Materiel Corp., The, e, f, g.
Technitrol Engrg. Co., b.
Telechrome Mfg. Corp., b, d.
Tel-Instrument Electronics Corp., g.
Telkor, Inc., a, c, f, g.
Terado Co., c.
Thompson Ramo Wooldridge Inc., b, c, l.
Traid Corp., a.
Trans Electronics, Inc., a, c.
Transistor Electronics Corp., a, c.
Trans-Sil Corp., a.

Universal Toroid Coil Winding, Inc., a, c.
Universal Transistor Products Corp., a, c, e, f, g, l, m.
Valor Instruments, Inc., a, l.
Varo Mfg. Co., Inc., a, b, c, f, g, k, l, m.
Wacline, Inc., f.
Wang Labs, Inc., b.
Waugh Engrg. Co., a, f.
Wayne-George Corp., b.
Weltronic Co., a, c.
Wesrep Corp., a, c, f, g, j.
Western Gear Corp.-Precision Products Div., a, c, k, l.
Westinghouse Electric Corp., a, b, c, f, g, k, l.
Wickes Engrg. & Construction Co., a, c, e.
Wincharger Corp., Sub-Zenith Radio Corp., c, k.
Winder Aircraft Corp. of Florida, a, c.
Worthington Corp., a, c, g.

CONVEYORS

Aerofil Products Co., Inc.
American Monorail Co., The
Beacon Steel Corp.
E. W. Buschman Co., The
A. M. Byers Co.
Albert H. Cayne Equipment Corp.
Columbia Research & Development Corp.
Dudwallen Mfg. Co., Inc., The
General American Transportation Corp.
Hanson-Van Winkle-Munning Co.
Howe Scale Co., The
International Steel Co.
Jeffrey Mfg. Co., The
Jy Mfg. Co.
Lanson Corp., The
Link-Belt Co.
Lockheed Aircraft Corp., Missiles & Space Div.
Lone Star Plastics Co. Inc.
Magline Inc.
*MARTIN CO., THE, DENVER DIV.
Mechanical Handling Systems Inc.
Oliver Corp., The A. B. Farquhar Div.
Rapids-Standard Co., Inc., The
Edw. Renneburg & Sons Co.
Richards-Wilcox Mfg. Co.
Robot Industries Inc.
Roto Finish-Ransohoff
Sage Equipment Co. Inc.
Sandvik Steel, Inc.
*SEALMASTER BEARING DIV., STEPHENS-ADAM-SOM MFG. CO.
A. T. Stevens Co.
Thermoid Div.-H. K. Porter Co., Inc.
Welded Construction Inc.

COOKERS, ELECTRONIC

*EQUIPMENT DIV., RAYTHEON CO.
Hammett-Mercury-Rex Div.
Edw. Renneburg & Sons Co.
Temperature Engrg. Corp.
Thermal Dynamic Products Div.-Waltham Precision Instrument Co.

COOLANTS

Anderson Oil & Chemical Co., Inc.
Armour Industrial Chemical Co.
Cincinnati Milling Machine Co., The
E. I. Du Pont de Nemours & Co. Inc.
Fluoro-Chem Corp.
Halocarbon Products Corp.
*MINNESOTA MINING & MFG. CO.
*MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
Silicone Products Dept., General Electric Co., Dept. C.
Southwest Research Institute
White & Bagley Co., The
The York Div., Borg-Warner Corp.

COOLERS, OIL

*AIRSEARCH MFG. CO., DIV.-THE GARRETT CORP.
Auto-Control Labs, Inc.
B. H. Aircraft Co., Inc.
*BENDIX AVIATION CORP., HAMILTON DIV.
Budd Lewyt Electronics, Inc.
California Stamping & Mfg. Co.
Dunham-Bush Inc.
Ellis & Watts Products, Inc.
Griscom-Russell Co., The
Highland Engrg. Co.
Janitrol Aircraft Div.-Midland-Ross Corp.
Manning & Lewis Eng. Co.
Mario Coil Co.
Madine Mfg. Co.
Portland Copper & Tank Works Inc.
Edw. Renneburg & Sons Co.
Schutte & Koerting Co.
South Wind Div., Stewart Warner Corp.
Southwest Research Institute
Standard-Thomson Corp., Clifford Mfg. Co. Div.

United Aircraft Products, Inc.
Vilter Mfg. Co., The
Whitlock Mfg. Co., The
Woolf Aircraft Products, Inc.

COOLING SYSTEMS, ELECTRONIC

Aeroquip Corp., Jackson Div.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Amco Engrg. Co.
American Standard Industrial Div.
*BENDIX AVIATION CORP., HAMILTON DIV.
Bendix Utica Div., Bendix Aviation Corp.
Benson Mfg. Co.
Birtcher Corp., The
Budd Lewyt Electronics, Inc.
Dean & Benson Research, Div.-Benson Mfg. Co.
Dunham-Bush Inc.
Eastern Industries Inc.
Ellis & Watts Products, Inc.
C. G. Kokanson Co., Inc.
Induction Heating Corp.
Janitrol Aircraft Div.-Midland Ross Corp.
Kentucky Metal Products Co.
Lear, Inc.
Madine Mfg. Co.
Northrop Corp.
On Mark Couplings, Inc.
Pesco Products Div.-Borg-Warner Corp.
Pioneer Industries Div., Almar-York Co., Inc.
Pneumafil Corp.
*RADIO CORP. OF AMERICA
Santa Barbara Research Center
Southwest Research Institute
Standard-Thomson Corp., Clifford Mfg. Co. Div.
A. U. Stone & Co., Inc.
United Aircraft Products, Inc.
United Mfg. Co., Div., The W. L. Maxson Corp.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Wenzlau Engrg. Co.
Western Div., Aeroquip Corp.
Westinghouse Electric Corp.
Worthington Corp.
York Div., Borg-Warner Corp.

COPPER

Allied Research Products, Inc.
Alloys Unlimited Inc.
American Brass Co., The
American Brazing Alloys Corp.
American Silver Co., Inc.
American Smelting & Refining Co.
Ampco Metal, Inc.
Band Metal Surplus Co.
Bram Metallurgical Chemical Co.
Bridgeport Brass Co.
Bristol Brass Corp., The
Chase Brass & Copper Co., Inc.
Custom Tool & Mfg. Co.
Electronic Parts Mfg. Co., Inc.
Gibson Electric Co.
C. G. Hussey & Co., Div.-Copper Range Co.
National Copper & Smelting Co.
Nippert Electric Products Co., The
Olin Mathieson Chemical Corp.-Metals Div.
Olin Mathieson Chemical Corp., N. Y.
Phelps Dodge Copper Products Corp.
Revere Copper & Brass Inc.
Roovers-Lotsch Corp.
Southwire Co.
Springfield Brass Co., Inc.
Udylite Corp., The
Utility Brass & Copper Corp.

COPPER LAMINATES, PRINTED CIRCUIT

Adept Industries Inc.
Allied Plastics Supply Corp.
American Printed Circuits Co., Inc.
Bo Myte Co., Inc., The
Bridgeport Brass Co.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
California Plasteck Inc.
Cordo Chemical Corp.
Emertron, Sub-Emerson Radio & Phonograph Corp.
Formica Corp.
Franklin Fibre-Lamitex Corp.
Garlock Packing Co., The-Electronic Products
General Plastics Corp.
Kollman Instrument Corp., Sub-Standard Coil Products Co., Inc.
Librascope Div., General Precision, Inc.
Littan Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Thomas J. Long, Inc.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
*MINNESOTA MINING & MFG. CO.
Mycalox Corp. of America
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
*RADIO CORP. OF AMERICA

Raybestos Manhattan, Inc.
St. Regis Paper Co., Panelyte Div.
Spaulding Fibre Co., Inc.
Synthane Corp.
Taylor Fibre Co.
Tingstol Co.
Westinghouse Electric Corp., Micarta Div.

CORD SETS

Alden Products Co.
Belden Mfg. Co.
Bernco Engrg. Corp.
Birnback Radio Co., Inc.
Cable Electric Products Inc.
Coral Cable Div.
Joe Davidson & Associates
Eagle Electric Mfg. Co. Inc.
Electric Cords & Supply Corp.
Empire Electronics Co., Inc.
Essex Wire Corp.
General Cable Corp.
Holyoke Wire & Cable Corp.
ITI Electronics, Inc.
International Electric Industries, Inc.
Kings Electronics Co., Inc.
Lab-Tronics, Inc.
MEG Products, Div.-Mandrel Industries, Inc.
Molded Insulation Co.
Chester Morton Electronics Corp.
Paraplegics Mfg. Co., Inc.
Permaflux Products Co.
Phelps Dodge Copper Products Corp.
Projects Unlimited, Inc.
Millon Ross Metals Co., The
Royal Electric Corp.
Seeger-Williams, Inc.
Spectra-Strip Wire & Cable Corp.
Telex, Inc.
Victor Electric Wire & Cable Corp.
Whitaker Cable Corp.
Edwin L. Wiegand Co.
Winder Aircraft Corp. of Florida

CORDS

a. Attachment
b. Dial
c. Dial Cords & Cables
d. Lacing
e. Line
f. Line Resistance
g. Patch
h. Retractable
i. Shock

ADC Inc., g.
AMP Inc., g.
Aerolite Electronics Corp., g.
Alden Products Co., a, e, g.
Alpha Wire Corp., d, e.
American Super-Temperature Wires, Inc., d.
Associated Engrg. Corp., e, g.
Associated Suppliers Co., d, i.
Aviation Textile Associates, a, d, e, i.
Belden Mfg. Co., a, h.
Bernco Engrg. Corp., a, e.
Birnback Radio Co., Inc., a thru h.
Cable Electric Products Inc., a, e, f.
Coral Cable Div.
Columbian Rope Co., d.
C. R. Daniels, Inc., i.
Eagle Electric Mfg. Co. Inc., a, e.
Electric Cords & Supply Corp., a, e thru h.
Empire Electronics Co., Inc., g.
Essex Wire Corp., a, e, h.
G. C. Electronics Co., c.
Gates Radio Co., g.
General Cable Corp.
General Logistics Div., Aeroquip Corp., i.
General Radio Co., g.
Gudabrod Bros. Silk Co., Inc., b, c, d.
Holyoke Wire & Cable Corp., f.
International Electric Industries, Inc., a, e thru h.
JFD Electronics Corp., c, f.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., c, e, g, h, i.
Lab-Tronics, Inc., a, g.
Leviton Mfg. Co., Inc., a.
*MARTIN CO., THE, DENVER DIV., c, e, g, h.
Milgo Electronic Corp., g.
Nameplates Inc., b.
New England Electrical Works, Inc., c.
M. M. Newman Corp., d.
Paul Nurches Co., g.
Paraplegics Mfg. Co., Inc., c.
Permaflux Products Co.
Piosack Aircraft Corp., a, g.
Pomona Electronics Co., Inc., g.
Fred T. Roberts & Co., h.
Robins Industries Corp., g.
Royal Electric Corp., a.
Russell Mfg. Co., i.
Spectra-Strip Wire & Cable Corp., h.

Standard Electric Time Co., The, g.
F. M. Stevenson Co., Inc., i.
Stromberg-Carlson Div.-General Dynamics Corp., g.
Telex, Inc., g.
Texstar Plastics, Div.-The Texstar Corp., i.
Victor Electric Wire & Cable Corp., a, e, f.

CORES & CORE MATERIALS

a. Ceramic
b. Ferrite
c. Laminated
d. Powdered
e. Tape Wound
f. Toroidal

Alden Products Co., f.
American Feldmuehle Corp., a.
American Lava Corp., a.
American Potash & Chemical Corp., National Northern Div., d.
American Rectifier Corp., f.
Antara Chemicals, Div.-General Aniline & Film Corp., b.
Armo Steel Corp., c, e.
Arnold Engrg. Co., The, c thru f.
Barker Sales Co., e, f.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., a, d.
Bergen Carbide Co., a.
Bridgeport Brass Co., c.
Brunswick Balke Collender Co., The, Defense Products Div., c.
Brush Beryllium Co., The, a.
Carborundum Co., The, a.
Carborundum Co., Iatrobe Plant, Refractories Div., a.
Carborundum Co., Refractories Div., a.
Centralab, Div.-Globe-Union, Inc., a.
Corning Glass Works, a.
Crane Co., Special Products Div., d.
Custom Tool & Mfg. Co., f.
Diamonite Products Mfg. Co., a.
Double E Products Co., a, b, d, f.
Du-Co Ceramics Co., a.
Dynacor, Inc., e, f.
Electrical Refractories Co., The, a.
Erie Resistor Corp., b.
Ex-Cell-O Corp., b.
Ferroxcube Corp. of America, a thru f.
Food Machinery & Chemical Corp.-Dapon Dept., c, d.
Food Machinery & Chemical Corp.-Epoxy Dept., c, d.
Frenchtown Porcelain Co., a.
G-I Electronics Co., Inc., c, e, f.
General Ceramics Div., Indiana General Corp., a, b.
General Electric Co., Heavy Military Electronics Dept., a, b.
Gladding, McBeane & Co., a.
Hastings Plastics, Inc., a, d.
Honeycomb Co. of America, Inc.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Industrial Equipment Div., Baldwin Lima Hamilton Corp., c.
Isolanite Mfg. Corp.
Kaiser Aluminum & Chemical Sales, Inc., d.
Keystone Carbon Co., d.
M. Kirchnerberger & Co., Inc., a.
Lear, Inc., a, b, d.
Librascope Div., General Precision, Inc., b.
Lockheed Aircraft Corp., Missiles & Space Div., b.
Magnetic Core Corp., b, d, f.
Magnetic Metals Co., c, d, e.
*MICROWAVE & POWER TUBE DIV., RAYTHEON CO., a, b.
James Millen Mfg. Co. Inc., a.
*MINNESOTA MINING & MFG. CO., a, f.
Motorola, Inc., a, b, d, f.
NUMEC-Nuclear Materials & Equipment Corp., a, d.
National Beryllium Corp., a.
National Ceramic Co., a.
National Moldite Co., b, d, f.
Nopco Chemical Co., Plastics Div.
Norrich Plastics Corp., a.
Norton Co., New Products Dept., a.
Olin Mathieson Chemical Corp., N.Y., d.
Plastic Age Sales, Inc., c, e.
Polymer Corp., The, d, f.
Pyroferic Co. Inc., d, f.
Quality Components, Inc., d.
Quartzite Processing Inc., b.
Radio Cores, Inc., d, f.
*RADIO CORP. OF AMERICA, a, b, c, e, f.
Sangamo Electric Co., f.
Saxonburg Ceramics, Inc., a.
H.M. Scott Co., The, c.
Servomechanisms, Inc., a.
Servo-Tek Products Co., f.
Sillocks-Miller Co., c.
Sprague Electric Co., e, f.
Stackpole Corbon Co., b.

Standard Electronics Div.-Reeves Instrument Corp., e, f.
 Superex Electronics Corp., b.
 Superior Sateite & Ceramic Corp., a.
 Telcon, Inc., c, f.
 Texas Instruments Inc., c.
 Textstar Plastics Div.-The Textstar Corp., c.
 H. I. Thompson Fiber Glass Co., c.
 Thyat Ceramics, Inc., a.
 United Mineral & Chemical Corp., b.
 Van Der Horst Corp. of America., b.
 Waters Mfg., Inc., b.
 Wesrep Corp., b, d, f.
 Western Gold & Platinum Co., a.
 Westinghouse Electric Corp., a thru f.

CORK

Armstrong Cork Co.
 Auburn Mfg. Co., The
 General Gasket Inc.
 Mechanical Rubber Products Co.
 A. T. Stevens Co.

COUNTERMEASURES, ELECTRONIC

ACF Industries Inc., c.
 A.R.F. Products, Inc.
 Advance Industries, Inc.
 *AEROJET-GENERAL CORP.
 Aerona Mfg. Corp.-Aerospace Div.
 Alfred Electronics
 American Electronic Labs, Inc.
 American Research & Mfg. Corp.
 Applied Research Inc.
 Bendix Aviation Corp.
 Bendix-Pacific Div., Bendix Aviation Corp.
 Bjorksten Research Labs. For Industry, Inc.
 Budd Lewyt Electronics, Inc.
 CGS Labs, Inc.
 Chance Vought Aircraft, Inc.
 Clevite Ordnance, Div.-Clevite Corp.
 Daystrom, Inc., Military Electronics Div.
 De Havilland Aircraft Of Canada, Ltd., Special Products Div.
 Designers for Industry, Inc.
 Diamond Antenna & Microwave Corp.
 Allen B. Du Mont Labs, Inc.
 Dynatronics, Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Epsco Inc.
 *EQUIPMENT DIV., RAYTHEON CO.
 Gabriel Co., The, Gabriel Electronics Div.
 General Electric Co., Missile & Space Vehicle Dept.
 General Electric Co., Missile & Space Vehicle Dept. Pa.
 General Instrument Corp., Defense & Engr. Products Group
 Gilfillan Bros. Inc.
 HRB-Singer, Inc., Sub.-Singer Mfg. Co.
 Hallicrafters Co., The
 ITT Federal Div., International Telephone & Telegraph Corp.
 Instruments For Industry, Inc.
 Kollmorgen Optical Corp.
 Lab. for Electronics, Inc.
 Lear, Inc.
 Litron Industries, Inc.
 Litron Industries, Maryland Div.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lockheed Electronics Co., Stavid Div.
 Loral Electronics Corp.
 Lundy Mfg. Corp.
 Madigan Corp.
 Maico Electronics, Inc.
 National Co., Inc.
 National Scientific Labs, Inc.
 Northrop Corp.
 Northronics, Div.-Northrop Corp.
 Philco Corp.-Govt. & Industrial Group
 Polaron Electronics Corp.
 Production Research Corp., Sub.-Radio Condenser Co.
 Radalab Inc.
 Radiation, Inc.
 Radio City Products Co. Inc.
 Radio Condenser Co.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
 Republic Aviation Corp., Missile Systems Div.
 Sanders Associates, Inc.
 Santa Barbara Research Center
 Southwest Research Institute
 Special Products Dept., Melpar, Inc.
 Spectra Electronics Corp.
 Sperry Gyroscopic Co., Div.-Sperry Rand Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Sun Electric Corp., Aeronautical Div.
 TRG, Inc.

Tamar Electronics, Inc.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Temco Aircraft Corp.
 Texas Instruments Inc.
 Textron Corp.
 Thompson Ramo Wooldridge Inc.
 Westinghouse Electric Corp.

CONTROLS

a. Computer
 b. Electro-Magnetic
 c. Electronic
 d. Footage
 e. Frequency
 f. Geiger
 g. Impulse
 h. Mechanical
 i. Preset
 j. Proportional
 k. Radiation
 l. Revolution
 m. Scintillation

ACF Industries Inc., c.
 *ABRAMS INSTRUMENT CORP., b, i.
 Actuator Products Div., Geartronics Corp., b, d, h, l.
 Adage, Inc., c.
 Aerona Mfg. Corp.-Aerospace Div., a, c.
 Allegany Instrument Co., Inc., i.
 Alwac Computer, Div.-EI-Tronics Inc., a.
 Amerac Inc., e, h.
 American Electronics, Inc., k, m.
 American Electronics Inc., Toller-Cooper Div. & Data Systems Div., a, h, i, l.
 American Machine & Foundry Co., Government Products Group, e, g.
 American Tradair Corp., f, k, m.
 Automatic Timing & Controls, Inc., b, g, l.
 Avien, Inc., c.
 Baird-Automic, Inc., f, h thru k, m.
 Ball Brothers Research Corp., f, m.
 E. Bauches S. A., Freeport Engr. Co., e.
 Beckman Instruments, Inc., Berkeley Div., c, e, g, i, l.
 Beckman-Systems Div., c.
 Bell & Gossett Co., k.
 Bendix Aviation Corp., a, c, k, l, m.
 Bendix Aviation Corp., Cincinnati Div., a, c, e, f, g, i, k, m.
 Benson-Lehner Corp., c, g, i, l.
 James G. Biddle Co., e.
 Blonder-Tongue Labs. Inc., Special Products Div., i.
 Bomwar Instruments Corp., b, c, g, h, i, j, l.
 Bowser, Inc., h.
 Briggs Associates, Inc., b, j.
 Broadview Research Corp., a.
 Brown & Sharpe Mfg. Co., h.
 Bruno-New York Industries Corp., c, e.
 Budd Lewyt Electronics, Inc., a.
 Bulova Research & Development Labs, Inc., c, g.
 Burroughs Corp., a, b, c, e, i, l.
 Burroughs Corp., Electronic Tube Div., c, e, g, i.
 CG Electronics Corp., b, c.
 C&K Components, Inc., c, i.
 California Computer Products, Inc., a.
 Central Electronics Mfrs., Div.-Nuclear Corp. of America, k.
 Coleman Electronics, Inc., b, l.
 Computer Control Co., Inc., a.
 Computer Control Co., Inc., Western Div., a.
 Consolidated Airborne Systems, Inc., e, l.
 DBM Research Corp., c.
 Data Instruments Div.-Telecomputing Corp., b, h, i, l.
 Datedx Corp., c.
 Daystrom, Inc., Control Systems Div., a.
 Daystrom, Inc., Military Electronics Div., c.
 Decker Corp., The, c, l.
 Dejour-Amsco Corp., Electronic Sales Div., f.
 Delco Radio Div.-General Motors Corp., a, c.
 Designers for Industry, Inc., d, e.
 Digitran Co., The, h, l.
 Durant Mfg. Co., d, g, h, i, l.
 Dynatronics, Inc., a, c.
 Eagle Signal Co., b, g, i, l.
 Eclipse-Pioneer Div., Bendix Aviation Corp., h.
 Electro Instruments, Inc., a, c, e, g, i thru l.
 Electro Precision Corp., a, e, i.
 Electronic Applications, Inc., e.
 Electronic Computer Co., Inc., a, c, g.
 Electronic Engrg. Co. of California, c.
 Electro-Pulse, Inc., c, e, i.
 Epsco Inc., a.
 Erie Instrumentation Div.-Erie Resistor Corp., a, b, c, e, g, i, j, l.
 Erie Resistor Corp., c, e, g, i, l.
 Exact Engrg. & Mfg. Inc., h.
 FAE Instrument Corp., b, h, l.
 Freed Transformer Co., Inc., c, g, i, l.
 Gates Radio Co., h.
 General Controls Co., b, c, d, g thru j, l.
 General Devices, Inc., a, b, c, h.
 General Electric Co., X-Ray Dept., m.

General Electro-Mechanical Corp., b, h.
 Gordon Enterprises, d, h, l.
 Hagen Mfg. Co., b, g, i.
 Hamilton Watch Co., Military Products Div., h.
 Hammett-Mercury-Rex Div., a.
 A. W. Haydon Co., The
 Hewlett-Packard Co., c, e, i, l.
 E. Vernon Hill & Co., l.
 Hillburn Electronic Prod. Co., b, g.
 Huyck Systems Co., a, b, c.
 I-I-S Instrument Div., The Meriam Instrument Co., c, d, e, g, i, j, l.
 Iconix Inc., c, d, e, g, i thru m.
 International Electronic Research Corp., k.
 Interstate Electronics Corp., f, j, k, m.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, k, m.
 *KEARFOTT DIV., GENERAL PRECISION, INC., h.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., c, g, h.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., a, h, l.
 Lab. for Electronics, Inc., a, c, e, i.
 Landis & Cyr, Inc., b, c, g, i.
 Lovioe Labs, Inc., c, e.
 Lear, Inc., h, l.
 Leetronics, Inc., b.
 Levinthal Electronic Products, Inc., m.
 Libroscope Div., General Precision, Inc., a, h, i, j.
 MB Electronics, e.
 Madigan Corp., a, c.
 Magnasync Corp., d.
 Milgo Electric Corp., a, c.
 James Millen Mfg. Co. Inc., h.
 Modern Design Div.-H.C. Schloer, Inc., c.
 Motorola, Inc., a, b, c, g.
 National Scientific Labs, Inc., c.
 Navigation Computer Corp., a, c.
 Networks Electronic Corp., g.
 Northeastern Engrg. Inc., c, e, i.
 Nuclear Corp. of America, k, m.
 Nuclear Development Lab., f, k.
 Nuclear Measurements Corp., f, j, k, m.
 Nuclear-Chicago Corp., f, i, j, k, m.
 Ohmart Corp., The, f, m.
 Optomechanics Inc., c.
 Packard Bell Computer Corp., a.
 Patterson Moos Research, Div.-Leesona Corp., c.
 Performance Measurements Co., c, g, h, l.
 Pesco Products Div., Borg-Warner Corp., Calif., e.
 Philips Electronic Instruments, f, j, m.
 Photocan Research Products, b, h, i, l.
 Piescki Aircraft Corp., f, k, m.
 Potter Aeronautical Corp., a thru e, g, i, j, l.
 Precision Radiation Instruments, Inc., f, k, m.
 Presin Co., b, d, g, h, i, l.
 Production Research Corp., Sub.-Radio Condenser Co., a, c.
 Radalab Inc., e.
 Radiation Instrument Development Lab., Inc., f, j, k, m.
 *RADIO CORP. OF AMERICA, a, c, d, e, h, m.
 Rapids-Standard Co., Inc., The, h.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., f.
 Resdel Engrg. Corp., c.
 Revere Corp. of America, Sub.-Neptune Meter Co., g.
 Sigma Instruments, Inc., b.
 Singer Military Products Div.-The Singer Mfg. Co., b.
 A. O. Smith Corp., Smith-Erie Div., h, i.
 Southwestern Industrial Electronics Co., a, c, g.
 Standard Electric Time Co., The, c, e.
 Geo. Stevens Mfg. Co., Inc., h.
 Herman H. Slicht Co., Inc., l.
 Strand Engrg. Co., c, i, k.
 Stromberg-Carlson Div.-General Dynamics Corp., a, c, e.
 Sun Electric Corp., Aeronautical Div., c, h.
 Systron Corp., a, c, d, e, g, l.
 TRG, Inc., c, k.
 Talley Corp., The, b, h.
 Telechrome Mfg. Corp., a thru e, g thru j, l.
 Telex, Inc., a, b, c.
 Tracerlab Inc., c, f, j, k, m.
 U. S. Science Corp., Div.-Topp Industries, Inc., b.
 United States Instrument Corp., b.
 Universal Toroid Coil Winding, Inc., c.
 Universal Transistor Products Corp., f, k, m.
 Veeder Root Inc., c, d, e, g, h, i, k, l.
 Victoreen Instrument Co., f, j, k, m.
 Voi-Shan Electronics, b, g, h.
 Wacline, Inc., e.
 Walkirt Co., a, c, e, g, i.
 Wang Labs, Inc., a.
 Wells Industries Corp., b, c, g, i, l.
 Weltronic Co., c.
 Westinghouse Electric Corp., k.
 Wickes Engrg. & Construction Co., c, h.
 N. Wood Counter Lab., f, j, k, m.

COUPLERS, DIRECTIONAL, MICROWAVE

Aircom Inc.
Airtron, Div.-Litton Industries.
Allied Research & Engr., Div.-Allied Record Mfg. Co.
Bendix Aviation Corp.
Bogart Mfg. Corp.
Budd Lewyt Electronics, Inc.
Chance Vought Aircraft, Inc.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.**
Dalmo Victor Co., Div.-Textron, Inc.
Joe Davidson & Associates
Daystrom, Inc., Military Electronics Div.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Don-Lan Electronics Inc.
Douglas Microwave Co., Inc.
Electronic Applications, Inc.
Empire Products Sales Corp.
FKR, Inc.
Gabriel Co., The, Gabriel Electronics Div.
General Bronze Electronics Corp.
General Electric Co., Light Military Electronics Dept.
General Instrument Corp., Defense & Engr. Products Group.
Gillfillan Bras. Inc.
Gorham Electronics Div.-Gorham Mfg. Co.
George E. Harris & Co., Inc.
Hewlett-Packard Co.
ITT Federal Div., International Telephone & Telegraph Corp.
J.V.-M Microwave Co.
Kearlort Div., General Precision, Inc.
Kearlort Div., General Precision, Inc., Microwave Products.
Lab. For Electronics, Inc.
Lieco, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The.
Meridian Metalcraft, Inc.
Microphase Corp.
Microwave Associates, Inc.
Motorola, Inc.
Narda Microwave Corp., The.
Omega Labs, Inc.
Polytechnic Research & Development Co., Inc., Radalab Inc.
Radar Design Corp.
***RADIO CORP. OF AMERICA**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
Rantec Corp.
Sage Labs, Inc.
Sanders Associates, Inc.
Sierra Electronic Corp., Div.-Philco Corp.
Special Products Dept., Melpar, Inc.
Specialty Electronics Development Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
TRG, Inc.
Tamar Electronics, Inc.
Technicraft, Div.-Electronic Specialty Co.
Teleraid Mfg. Corp.
Telkor, Inc.
Tober Electronic Corp.
Transco Products, Inc.
Victor R. F. & Microwave Co.
Waveline, Inc.

COUPLERS, TRANSMITTER

Airtron, Div.-Litton Industries
Chance Vought Aircraft, Inc.
Daystrom, Inc., Military Electronics Div.
Gabriel Co., The, Gabriel Electronics Div.
Gorham Electronics Div.-Gorham Mfg. Co.
ITT Federal Div., International Telephone & Telegraph Corp.
E. F. Johnson Co.
Litton Industries, Maryland Div.
***MARTIN CO., THE, DENVER DIV.**
Microphase Corp.
***RADIO CORP. OF AMERICA**
Republic Aviation Corp., Missile Systems Div.
Tamar Electronics, Inc.
Technical Materiel Corp., The
Westinghouse Electric Corp.

COUPLING & PHASING UNITS

Airtron, Div.-Litton Industries
Beech Aircraft Corp.
Bendix Aviation Corp.
CGS Labs, Inc.
Chance Vought Aircraft, Inc.
Diamond Antenna & Microwave Corp.
Gabriel Co., The, Gabriel Electronics Div.
ITT Federal Div., International Telephone & Telegraph Corp.

Litton Industries, Maryland Div.

***MARTIN CO., THE, DENVER DIV.**
Motorola, Inc.
***RADIO CORP. OF AMERICA.**
Republic Aviation Corp., Missile Systems Div.
Tamar Electronics, Inc.
Tober Electronic Corp.
Weatherhead Co., The

COUPLINGS

- a. Flexible
- b. Hydraulic
- c. Microwave
- d. Quick Disconnect
- e. Rigid
- f. Shaft
- g. Shaft, Reducers & Extensions
- h. Shaft, Rigid & Flexible
- i. Tube

ACF Electronics Div., ACF Industries Inc., c.
Accessory Products Co., Div.-Textron Inc., d.
Accurate Electronics Corp., h.
Acme Industrial Co., f, g, h.
Actuator Products Div., Geatronics Corp., a.
Aero Spares, Inc., b.
Aeroquip Corp., Jackson Div., b, d, e, i.
Aeroscience, Inc., a.
Aerotec Industries Inc., Aircraft Equipment Div., d.
Agricultural Aviation Engineering Co. Inc., d.
Airterra, a, b, d.
Airborne Research & Development Corp., b, d.
Aircor Inc., c.
Aircraft Armaments, Inc., c, d.
Airdrome Parts Co., b.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., d.**
Airtron, Div.-Litton Industries, a, c, d, e.
All Specs Corp., a, b, d, e.
Allen Aircraft Products, Inc., d.
Amatom Electronic Hardware Co., Inc., a, e thru h.
American Brass Co., The, a, b.
American Instrument Co., Inc., b, i.
Anacosta Metal Hose Div., The American Brass Co., a, b.
Anchor Coupling Co. Inc., b.
Armcore Products Div., Amco-Corp. d, e.
Arkin Industries, Inc., b, d.
Arnav Aircraft Associates, Inc., b.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., a, i.
Associated Co., Inc., e, i.
Balmor Wheel & Machine Co., Inc., e.
Bendix Aviation Corp., a, c, f.
Bendix Uhca Div., Bendix Aviation Corp., a, d.
Best Aircraft Corp., b, e, i.
Birnbach Radio Co., Inc., e thru h.
Boston Gear Works, a.
Breeze Corporations, Inc., a.
Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co., a.
Bruning Co., The, a, b, d, e, i.
Buckeye Iron & Brass Works, d.
Bud Radio, Inc., a, f, g.
Bushings, Inc., a, f.
A. M. Byers Co., b, g.
Cal Connector Co., d.
California Stamping & Mfg. Co., a.
Capewell Mfg. Co., d.
Carson Mach & Supply Co., a.
Chance Vought Aircraft, Inc., c.
Chase Brass & Copper Co., Inc., i.
Chiksan Co., Sub.-Food Machinery & Chemical Corp., a.
Cleco Air Tools, Div.-Reed Roller Bit Co., d.
Cobra Metal Hose Div. DK Mfg. Co., a, i.
Collins Mfg. Corp., b.
Custom Products Corp., f, g.
D. S. D. Mfg. Co., The, d, i.
George W. Dahl Co., Inc., i.
Dalmo Victor Co., Div.-Textron, Inc., c.
Joe Davidson & Associates, c, e.
Demornay-Bonardi, c.
Deutsch Co., The, Electronic Components Div., d.
Dial Products Co., a, f, h.
Diamond Antenna & Microwave Corp., c, e.
Dill Mfg. Co., The, d.
Dodge Mfg. Corp., a, e, f, h.
Don-Lan Electronics Inc., c, d, e.
Dorne & Margolin, Inc., c.
Dumont Engr. Co., b, e, i.
Eastern Industries Inc., b, d.
Eco Engr. Co., a.
Edwards High Vacuum Ltd., a.
Essex Mfg. Co., Inc., b, d.
Ex-Cell-O Corp., b.
FAE Instrument Corp., a, e, f, h.
Falcon Machine & Tool Co., a, d thru h.
Federal Screw Products Inc., f, g.
Flexonics Corp., a.
Flight Refueling, Inc., a, b, d, i.

Futurecraft Corp., d.
Gabriel Co., The, Gabriel Electronics Div., c.
Gabriel Co., Rocket Power-Talco, d.
General Aniline & Film Corp., Anasco Div., c.
General Bronze Electronics Corp., c.
Gillfillan Bras. Inc., c.
Gleason Works, e, f.
John Gombos Co., Inc., c.
B. F. Goodrich Aviation Products, a.
Gorham Electronics Div.-Gorham Mfg. Co., c, e.
Graphite Metallizing Corp., c.
Guidance Controls Corp., a, f, g, h.
Gustin-Bacon Mfg. Co., a, e.
B. H. Hadley, Inc., a, b, d, e, i.
Hallett Mfg. Co., d.
Hammett-Mercury-Rex Div., c.
George E. Harris & Co., Inc., b, d.
Hoskel Engr. & Supply Co., b.
Herlo Corp., d, f, g.
Hewlett-Packard Co., c.
Walter J. Hyatt Co., The, b, d.
Hydra-Power Corp., b, d.
ITE Circuit Breaker Co., Special Products Div., c.
Integral Corp., b, d.
Jan Hardware Mfg. Co., Inc., a, e thru i.
Jantrol Aircraft Div.-Midland-Ross Corp., a, b, d, e, i.
Jellrey Mfg. Co., The, a, f, h.
E. F. Johnson Co., a, f, h.
Kahn & Co., Inc., d.
KEARFOTT DIV., GENERAL PRECISION, INC., c.
Kemp Aero Products, b, d.
Kerns Mfg. Corp., a, e, f, h.
Kidde Aero-Space Div., Walter Kidde & Co., Inc., d.
H. Koch & Sons, d.
Koppers Co., Inc., Metal Products Div., a, h.
Kwikset Powdered Metal Products, d.
Ladish Co., b, d, e.
Lieco, Inc., c.
Link-Belt Co., a, b, d thru h.
Lithium Corp. of America Inc., The Fulton-Irgon Div., d.
Litton Industries, Maryland Div., c.
Lord Mfg. Co., h.
Lovejoy Flexible Coupling Co., f.
Marman Div., Aeroquip Corp., a, b, c, e, i.
***MARTIN CO., THE, DENVER DIV., a thru d, g.**
W. L. Maxson Corp., The, c.
Meridian Metalcraft, Inc., c.
Metron Instrument Co., a.
Microwave Associates, Inc., c.
James Millen Mfg. Co. Inc., a, e, f, g.
Motorola, Inc., c.
Narda Microwave Corp., The, c.
Naugler Engr. Inc., a, f, h.
Nilsen Mfg. Co., a, h.
Norrich Screw Machine Products, e, f, i.
OPW-Jordan, d.
Ohlson Empire Inc., b, i.
Omega Labs, Inc., c.
On Mark Couplings, Inc., a thru e, i.
Ozone Metal Products Corp., b, d.
Pacific Scientific Co., d.
Parker Fittings & Hose Div., Parker-Hannifin Corp., e, i.
Parts Engrg. Co., Inc., a, e.
Paul & Beekman, Inc., i.
Polytechnic Research & Development Co., Inc., c.
Prodelin Inc., c.
Pyles Industries, Inc., b, d, e.
Rantec Corp., c.
Reeves Instrument Corp., a, c.
Renbrant, Inc., a.
Edw. Renneburg & Sons Co., d, e.
Resistoflex Corp., a.
J. R. Robbins Co., b.
Robertshaw-Fulton Controls Co., A & I Div., d.
Robertshaw-Fulton Controls Co., Fulton Sylphon Div., a.
Ronan & Kunz, Inc., d.
Ronson Hydraulic Units Corp., b, d.
Roylyn Inc., d, d.
Sage Labs, Inc., c.
Scientific-Atlanta, Inc., c.
Scovill Mfg. Co., i.
Sedco, a, b, d, e.
Sier-Bath Gear & Pump Co., Inc., a, d, e.
***SNAP-TITE, INC., b, d.**
Southwest Products Co., a.
Specialty Electronics Development Corp., c.
Specialty Products Corp., d.
Stewart-Warner Corp., Alemite Div., a, d, e.
Stow Mfg. Co., a.
***STRATOFLEX, INC., b, d.**
TRG, Inc., c.
Tapco Group, Thompson Ramo Wooldridge Inc., Technicraft, Div.-Electronic Specialty Co., d.
Technology Instrument Corp., f, h.
Teleraid Mfg. Corp., c.
Thomas Flexible Coupling Co., a, f, h.
Thompson Ramo Wooldridge Inc., d.
Titellex, Inc., d.

Tober Electronic Corp., c, d, e.
 Transco Products, Inc., c.
 Tube-Turns Div., Chemetron Corp., f.
 Uni-Flex Mfg. & Engrg. Inc., d.
 United States Rubber Co., a.
 Veeco Vacuum Corp., d.
 Vaseline Products Co., a, f, h.
 Vibration Isolation Products, a.
 Vickers, Inc., Mich., b, f.
 Waldrick Engrg. Co., d.
 Wasley Products, Inc., a, b, e.
 Waveline, Inc., c.
 Weatherhead Co., The, a, b, d, e, i.
 Webco, Inc., b, d.
 Wesrep Corp., a.
 Western Div., Aeroquip Corp., b, d, e, i.
 Zippertubing Co., The, a, i.
 Zurn Industries, Inc., a, f, g, h.

CRANES

American Monorail Co., The
 Austin-Western, Constr. Equip. Div.-Baldwin-Lima-Hamilton Corp.
 Baker Industrial Trucks, Div.-Otis Elevator Co.
 A. M. Byers Co.
 Albert H. Coyne Equipment Corp.
 Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp.
 Clark Equipment Co.
 Elwell-Parker Electric Co., The
 Flight Refueling, Inc.
 Gar Wood Industries Inc.
 McDowell Wellman Companies, The
 Pacific Coast Engrg. Co.
 Pitman Mfg. Co.
 Regent Jack Mfg. Co., Inc.
 Richards-Wilcox Mfg. Co.
 Robbins & Meyers, Inc., Hoist & Crane Div.
 Safway Steel Products, Inc.
 Silent Hoist & Crane Co.
 Unit Crane & Shovel Corp.
 Wells Industries Corp.
 Western Gear Corp.-Precision Products Div.
 Whiting Corp.
 Wright Hoist Div., American Chain & Cable Co., Inc.

CRYOGENICS

Acoustica Associates, Inc.
 *AEROJET-GENERAL CORP.
 Aeroquip Corp., Jackson Div.
 Air Products, Inc.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
 Airborne Research & Development Corp.
 *AIRESEARCH MFG. OF ARIZONA
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 Aluminum Co. of America
 American Instrument Co., Inc.
 American Latex Products Corp.
 Arkin Industries, Inc.
 Beech Aircraft Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Pioneer-Central Div.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 A. M. Byers Co.
 Chicago Bridge & Iron Co.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Consolidated Controls Corp.
 Cryogenators, Inc.
 Cryogenic Engrg. Co.
 Dean Products, Inc.
 Flight Refueling, Inc.
 Futurecraft Corp.
 General American Transportation Corp.
 General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept.
 General Electric Co., Light Military Electronics Dept.
 General Electric Co., Ordnance Dept.
 Goodyear Aircraft Corp.
 Graver Tank & Mfg. Co., Div.-Union Tank Car Co.
 B. H. Hadley, Inc.
 Hamilton Standard, Div.-United Aircraft Corp.
 Holman Labs, Inc.
 Hughes Tool Co., Aircraft Div.
 Walter J. Hyatt Co., The
 Infrared Industries, Inc.
 Interstate Electronics Corp.
 Interstate Engrg. Corp.
 Kaiser Aluminum & Chemical Sales, Inc.
 Keystone Carbon Co.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Langley Corp.
 Lear, Inc.
 *WALLACE O. LEONARD, INC.
 libroscope Div., General Precision, Inc.
 Linde Co., Div.-Union Carbide Corp.
 Liquid Carbonic Div.-General Dynamics Corp.
 Arthur D. Little, Inc.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Morman Div., Aeroquip Corp.

Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
 Missimers Inc.
 Northrop Corp.
 On Mark Couplings, Inc.
 Peacock Engrg. & Mfg. Co.
 Pesco Products Div.-Borg-Warner Corp.
 Research Controls
 Ronan & Kunz, Inc.
 Ronan & Kunz, Inc., Cryogenic Div.
 Ronson Hydraulic Units Corp.
 Rosemount Engrg. Co.
 Milton Roy Co.
 Ryan Industries, Inc., Dept. M.
 Santa Barbara Research Center
 Sargent Engrg. Corp.
 Sedco
 Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp.
 Spaceonics Div., The Budd Co.
 Standard Steel Corp.
 Standard Steel Corp., Cambridge Div.
 Stratots, Div.-Fairchild Engine & Airplane Corp.
 Struthers Wells Corp.
 Sundstrand Turbo
 Superior Air Products Co.
 TRG, Inc.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thermon Mfg. Co.
 Thompson Ramo Wooldridge Inc.
 Trimount Instrument Co.
 Uni-Flex Mfg. & Engrg. Inc.
 Vickers Inc., Div.-Sperry Rand
 Vickers, Inc., Mich.
 Western Div., Aeroquip Corp.
 Westinghouse Electric Corp.
 Whittaker Controls, Div.-Telecomputing Corp.
 Worthington Corp.
 Wyle Labs.

CRYSTALS, RADIO FREQUENCY

a. Analysis Equipment
 b. Assemblies
 c. Maunts
 d. Ovens
 e. Sockets
 Accurate Electronics Corp., b, c, e.
 Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., a.
 Allied International Corp.
 Augat Brothers, Inc., c, e.
 Rex Bassett, Inc., b, d.
 Bircher Corp., The, c.
 Bulova Watch Co., Electronics Div., b thru e.
 Clark Crystal Co., d.
 L. L. Constantin & Co., c.
 Joe Davidson & Associates, c.
 *DEL MAR ENGRG. LABS., b.
 Diamond Antenna & Microwave Corp., b, c.
 Dorne & Margolin, Inc., a.
 Eidson Electronic Co., b.
 Electronic Applications, Inc., a.
 Garlock Packing Co., The-Electronic Products, e.
 Hammett-Mercury-Rex Div., b, c.
 Hermetic Seal Corp., c.
 P. R. Hoffman Co.
 Hunt Corp., The, d.
 Javex Electronics, e.
 E. F. Johnson Co., e.
 Keystone Electronics Co., The, a, b, d.
 James Knights Co., The, d.
 Lavoie Labs, Inc., d.
 Lear, Inc.
 Livingston Electronic Corp., e.
 Manson Labs, Inc., d.
 Master Mobile Mounts, Inc.
 Mc Coy Electronics Co., b, d.
 James Millen Mfg. Co. Inc., e.
 Motorola, Inc., a, b, c, e.
 Norda Microwave Corp., The, c.
 Northern Engrg. Laboratories, Inc., b, c, d.
 Palmer Instruments, b, d.
 Premier Research Laboratories, Inc., b, d.
 Proboscop Co. Inc., a.
 Radalab Inc.
 *RADIO CORP. OF AMERICA, a, b, c.
 Reeves-Hoffman Div., b thru e.
 Robertshaw-Fulton Controls Co., A & I Div., d.
 Sage Labs, Inc., c.
 Scientific Radio Products, Inc., a, b.
 Scientific Radio Service
 F. J. Stokes Corp., d.
 TRG, Inc., a.
 Valpey Crystal Corp., b, d.
 Victor R. F. & Microwave Co., c.
 Waltham Electronics Corp., d.
 Warren Components, Div.-El-Tronics, Inc., c.
 Waveline, Inc., c.
 Wright Electronics Inc., b, d.

CRYSTALS, RAW

Acoustica Associates, Inc.
 Allegheny Electronic Chemicals Co.
 Alloys Unlimited Inc.
 Delta Chemical Works, Inc.
 Diamond Drill Carbon Co., The
 Dow Corning Corp.
 *ENGIS EQUIPMENT CO.
 P. R. Hoffman Co.
 Linde Co., Div.-Union Carbide Corp.
 Motorola, Inc.
 Norton Co., New Products Dept.
 Reeves-Hoffman Div.
 Semi-Elements, Inc.
 Valpey Crystal Corp.
 Var-Lac-Oid Chemical Co.

CRYSTALS, SAPPHIRE

Hammett-Mercury-Rex Div.
 Hugo P. Keller, Jr.
 Lear, Inc.
 Linde Co., Div.-Union Carbide Corp.
 Semi-Elements, Inc.
 TRG, Inc.

CUTTERS

Aerojet-General Corp., Downey Plant
 Bergen Carbide Co.
 Brown & Sharpe Mfg. Co.
 Carborundum Co., The
 Cherry Rivet Div.-Townsend Co.
 Eisler Engrg. Co., Inc.
 Handicraft Tools, Inc., Div.-X-Acto, Inc.
 Martindale Electric Co.
 Norwalk Cutter Sharpening Co.
 Onsrud Cutter Mfg. Co., Inc.
 H. P. Preis Engraving Machine Co.

CYLINDERS

a. Air
 b. Compressed Gas
 c. Hydraulic
 d. Rocket Engine
 ACF Industries Inc., d.
 Accessory Products Co., Div.-Textron Inc., a, b.
 Acme Industrial Co., c.
 Adel Precision Products of Calif., Div.-General Metals Corp., c.
 *AEROJET-GENERAL CORP., d.
 Aerojet-General Corp., Downey Plant, a, b, d.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc., b.
 Allentair Corp., a, c.
 Aluminum Co. of America, d.
 American Car & Foundry Div., ACF Industries, Inc., d.
 American Instrument Co., Inc., a, b, c.
 American Tubing Co., Inc.
 Apex Reinforced Plastics, Div.-White Sewing Machine Corp., a, b, c.
 Arkin Industries, Inc., c.
 Armour Industrial Chemical Co., b.
 Aro-Firewell Co. Inc., Sub.-The Aro Equip. Corp., a, b.
 Cyril Bath Co., The, d.
 Beacon Steel Corp., d.
 Bellows-Valvoir Divs., a, c.
 Benbow Mfg. Corp., a, c.
 Bendix Aviation Corp., c, d.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., c, d.
 Bendix-Pacific Div., Bendix Aviation Corp., a thru d.
 Benson Mfg. Co., b.
 Benton Harbor Engrg. Works, Inc., c.
 Bethlehem Steel Co., a, b, c.
 S. Blickman, Inc., a, b, d.
 E. W. Bliss Co., c, d.
 Brooks & Perkins, Inc., a thru d.
 Bruning Co., The, a, c.
 Burklin Co., a.
 A. M. Byers Co., d.
 Cadillac Gage Co., c.
 Calcor Corp., d.
 Capital City Mfg. Co., Inc., c.
 Carson Mach & Supply Co., b.
 Caterpillar Tractor Co., Defense Products Dept., c.
 Chance Vought Aircraft, Inc., c, d.
 Commercial Shearing & Stamping Co., c.
 Conoflow Corp., a.
 Cornelius Co., The, Aero Div., a, b.
 Cornell Deep Drawing Co., Div.-Lanes Industries Corp., a, b.
 Cromer Mfg. & Engrg., Inc., a, b, d.
 Delta Corp., d.
 Dukes Co., Inc., c.
 Electrol Inc., a, c.
 Ex-Cell-O Corp., c, d.
 Freeman Co., The, c.
 Gabriel Co., Rocket Power-Talco, d.
 Galland-Henning Mfg. Co., Nopak Div., a, c.

Gor Wood Industries Inc., c.
 General American Transportation Corp., a, b.
 Great Lakes Mfg. Corp., a, c.
 B. H. Hadley, Inc., a, c.
 Hogan Chemicals & Controls Inc., a.
 Hohn & Cloy, a thru d.
 Haskel Engrg. & Supply Co., a, b, c.
 Hein-Werner Corp., c.
 Hoke Inc., a, b.
***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP., a thru d.**
 Hughes Tool Co., Aircraft Div., c.
 Hydro-Power Corp., a, b, c.
 Hydraulic Press Mfg. Co., The, Div.-Koehring Co., a, c.
 Ingersoll Kolomazoo Div., Borg-Warner Corp., d.
 Integral Corp., c.
 Interstate Engrg. Corp., a, c.
 Kohn & Co., Inc., a, b.
 Kaiser Fleetwings, Inc., d.
 Kemp Aero Products, a, c.
 Kidco Inc., c.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc., a, b.
 Lantex Industries Inc., a thru d.
 Langley Corp., a, c.
 Ledeen Inc., a, c.
 Le Fiell Mfg. Co., a, b, d.
 Linde Co., Div.-Union Carbide Corp., b.
 Liquid Carbonic Div.-General Dynamics Corp., b.
 Lithium Corp. of America Inc., The Fulton-Irgon Div., d.
 Lockheed Aircraft Corp., Missiles & Space Div., d.
 Lofstrand Co., The, d.
 Lukens Steel Co., a, b, d.
 Lycoming Div., Avco Corp., d.
 McDowell-Wellman Companies, The, a, c.
 McGregor Mfg. Corp., a thru d.
 Mead Specialties Co., Inc., a, c.
 Menasco Mfg. Co., a thru d.
***MINNESOTA MINING & MFG. CO., b, d.**
 National Forge Co., c.
 National Tube Div.-United States Steel Corp., a, b.
 Newton Hydraulic Tooling Co., c.
 Norris-Thermador Corp., a thru d.
 Northrop Corp., b, c.
 Orman-Miller Machine Co., Inc., a, c.
 Owatonna Tool Co. Precision Hydraulic Div., c.
 Oxygen Equipment & Service Co., b.
 Ozone Metal Products Corp., c.
 Parker Hannifin Corp., a, b, c.
 Peacock Engrg. & Mfg. Co., c.
 Pegasus Labs., Inc., c.
 Petch Mfg. Co., a, c.
 Richard Philip Co., a, c.
 Pitman Mfg. Co., c.
 Pressed Steel Tank Co., a thru d.
 Redco Corp., c, d.
 Republic Mfg. Co., c.
 Research, Inc., c.
 Rivett Lathe & Grinder Inc., a, c.
 J. R. Robbins Co., a, c.
 Ronson Hydraulic Units Corp., a thru d.
 Rotary Lift Co., Div.-Dover Corp., a, c.
 Rotex Punch Co., Inc., a, c.
 S-P Mfg. Corp., The, a, c.
 Soncor Corp., c.
 Sorgent Engrg. Corp., a, b, c.
 Simmonds Aerocessories, Inc., a, c.
 A. O. Smith Corp., Smith-Erie Div., a, b, d.
 Spaceotronics Div., The Budd Co., d.
 Standard Steel Works, Div.-Baldwin-Limo Hamilton Corp., d.
 Struthers Wells Corp., b, c.
 Sweetland Engrg. Co., a, c.
 Talley Corp., The, a.
 Tapco Group, Thompson Ramo Wooldridge Inc., c.
 Taylor Winfield Corp., a.
 Thompson Ramo Wooldridge Inc., c.
 U. S. Pipe & Foundry Co., Steel & Tubes Div., d.
 United States Chemical Milling Corp., d.
 Van der Horst Corp. of Americo
 Vickers Inc., c.
 Vickers, Inc., Mich., b, c.
 Vinson Mfg. Co. Inc., a, c.
 Weatherhead Co., The, a thru d.
 Weaver Mfg. Co., Div.-Duro Corp., c.
 Webco, Inc., c.
 Wells Industries Corp., a, b, c.
 Western Design, Div.-U. S. Industries, Inc., c.
 Western Pneumatic Tube Co.
 Westinghouse Air Brake Co., Industrial Products Div., a.
 Westinghouse Electric Corp., d.
 Whiton Machine Co., The, a, c.
 Wickfield, Inc., a, c.
 Worcester Pressed Steel Co., b.
 Young Development Div., Hercules Powder Co., a thru d.
 Zero Aero, a, b.

DAMPERS, CONTROL

Bendix Aviation Corp.
 Cadillac Gage Co.
 Delco Products Div.-General Motors Corp.
 Hogan Chemicals & Controls Inc.
 Haskel Engrg. & Supply Co.
 Houdaille Industries, Inc., Buffalo Hydraulics Div.
 Hydro-Power Corp.
 Kemp Aero Products
 Kieley & Mueller, Inc.
 Lear, Inc.
***MARTIN CO., THE, DENVER DIV.**
 Ozone Metal Products Corp.
 Edw. Renneburg & Sons Co.
 Ronson Hydraulic Units Corp.
 Simmonds Aerocessories, Inc.
 Southwest Research Institute
 Vickers, Inc., Mich.

DAMPERS, PULSATION

Auto-Control Labs. Inc.
 Consolidated Controls Corp.
 Delco Products Div.-General Motors Corp.
 Emhart Mfg. Co., Maxim Div.
 Industrial Acoustics Co., Inc.
 Kemp Aero Products
 Lear, Inc.
 National Engrg. Products, Inc.
 Ozone Metal Products Corp.
 Paris Engrg. Co., Inc.
 Southwest Research Institute
 A. U. Stone & Co., Inc.
 Sun Electric Corp., Aeronautical Div.
 Vickers, Inc., Mich.
 Western Design, Div.-U. S. Industries, Inc.

DAMPERS, VIBRATION & SHIMMY

Anacoondo Metal Hose Div., The American Brass Co.
 Armstrong Cork Co.
 Barry Controls Inc.
 Bendix Aviation Corp.
 Cordo Chemical Corp.
 Delco Products Div.-General Motors Corp.
 Dow-Elco, Inc.
 Electro Inc.
 Firestone Indsl. Products Co., Div.-Firestone Tire & Rubber Co.
 General Logistics Div., Aeroquip Corp.
 Haskel Engrg. & Supply Co.
 Houdaille Industries, Inc., Buffalo Hydraulics Div.
 Hydro-Power Corp.
 K. W. Johnson & Co., Inc.
 Kemp Aero Products
 Lear, Inc.
 Lord Mfg. Co.
 MB Electronics
 Menasco Mfg. Co.
***MINNESOTA MINING & MFG. CO.**
 National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc.
 Northrop Corp.
 Ozone Metal Products Corp.
 Paris Engrg. Co., Inc.
 Raybestos-Manhattan, Inc.
 Rimok, Inc.
 Robins Industries Corp.
 Ronson Hydraulic Units Corp.
 Rubbercraft Corp. of California
 Sorgent Engrg. Corp.
 Southwest Research Institute
 Taylor Devices, Inc.
 Vibration Isolation Products
 Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.

DATA ACQUISITION & HANDLING SYSTEMS

ACF Electronics Div., ACF Industries Inc.
 ACF Industries Inc.
 ASCOP Div., Electro-Mechanical Research, Inc.
 Acoustico Associates, Inc.
 Advance Industries, Inc.
***AEROJET-GENERAL CORP.**
 Aeronca Mfg. Corp.-Aerospace Div.
 American Machine & Foundry Co., Government Products Group, N. Y.
 Applied Electronics Corp. of N. J.
 Arnoux Corp.
 Autonetics, Div.-North American Aviation, Inc.
 Avco Corp., Crosley Div.
 Baird-Atomic, Inc.
 Barker Soles Co.
 Beckman-Systems Div.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Bendix-Pacific Div., Bendix Aviation Corp.
 Benson-Lehner Corp.
 Ernest E. Blonche & Associates, Inc.
 Briggs Associates, Inc.
 Broadview Research Corp.
 Brush Instruments, Div.-Clevite Corp.

Budd Lewyt Electronics, Inc.
 CG Electronics Corp.
 Camerflex Div., The Federal Mfg. & Engrg. Corp.
 Chalco Engrg. Corp.
 Chance Vought Aircraft, Inc.
 Computer Control Co., Inc.
 Computer Control Co., Inc., Western Div.
 Computer Engrg. Associates, Inc.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Control Data Corp.
 Cubic Corp.
 Curtiss-Wright Corp., Electronics Div.
 Data Instruments Div.-Telecomputing Corp.
 Daystrom, Inc., Control Systems Div.
 Daystrom, Inc., Military Electronics Div.
 Daystrom Inc., Pacific Div.
 Designers for Industry, Inc.
 Donner Scientific Co.
 Dynometrics Corp.
 Dynatronics, Inc.
 Eastman Kodak Co.
 Eldorado Electronics
 Electro Instruments, Inc.
 Electromation Co., Div.-Del Mar Engrg. Labs.
 Electronic Engrg. Co. of California
 Electronics Div.-The National Cash Register Co.
 Epsco Inc.
***EQUIPMENT DIV., RAYTHEON CO.**
 J. W. Fecker Div., American Optical Co.
 Fenske, Fedrick & Miller Inc.
 Flight Support, Inc.
 GPL Div.-General Precision, Inc.
 General Devices, Inc.
 General Electric Co., Computer Dept.
 General Electric Co., Heavy Military Electronics Dept.
 General Electric Co., Light Military Electronics Dept.
 General Instrument Corp., Defense & Engrg. Products Group
 Gilfillan Bros. Inc.
 Gilmore Industries, Inc.
 Gulton Industries, Inc.
 HRB-Singer, Inc. Sub.-Singer Mfg. Co.
 Hogan Chemicals & Controls Inc.
 Hollomore Electronics Co., Div.-Sieglar Corp.
 Hollicrafters Co., The
 Hammond Mfg. Co., The
 Hazeltine Electronics Div.-Hazeltine Corp.
 Hewlett-Packard Co.
 Hughes Tool Co., Aircraft Div.
 IIT Federal Div., International Telephone & Telegraph Corp.
 Kin Tel Div.-Cohu Electronics, Inc.
 Lab. for Electronics, Inc.
 Leach Corp.
 Lear, Inc.
 Leeds & Northrup Co.
***WALLACE O. LEONARD, INC.**
 Librascope Div., General Precision, Inc.
 Litton Industries, Inc.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lundy Mfg. Corp.
 Madigan Corp.
***MAGNAVOX CO., THE**
 Maico Electronics, Inc.
 Midwestern Instruments, Inc.
 Milgo Electronic Corp.
 Mincom Div., Minnesota Mining & Mfg. Co.
 Minneapolis-Honeywell Regulator Co., Aeronautical Div.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
 Mitchell Camera Corp.
 Motorola, Inc.
 National Co., Inc.
 Navigation Computer Corp.
 Packard Bell Computer Corp.
 Philco Corp.-Govt. & Industrial Group
 Potter Instrument Co., Inc.
 Radiophone Co., Inc.
 Rodiation, Inc.
 Rodia Condenser Co.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
 Rodia Receptor Co., Inc., Sub.-General Instrument Corp.
 Romo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
 Remington Rand Univac Div.-Sperry Rand Corp.
 Republic Aviation Corp., Missile Systems Div.
 Singer Military Products Div.-The Singer Mfg. Co.
 Skiatron Electronics & Television Corp.
 Solar Aircraft Co.
 Southwest Research Institute
 Southwestern Industrial Electronics Co.
 Stromberg-Carlson Div.-General Dynamics Corp.

Stromberg-Carlson, San Diego, General Dynamics Corp.
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc.
Talley Register Corp.
Texas Instruments Inc.
Thompson Ramo Wooldridge Inc.
Wayne-George Corp.
Western Union Telegraph Co., The
Westinghouse Electric Corp.
Westronics Inc.
Wiancko Engrg. Co.

DATA REDUCTION SYSTEMS

ACF Industries Inc.
ASCOP Div., Electro-Mechanical Research, Inc.
Advance Industries, Inc.
*AEROJET-GENERAL CORP.
Aerona Mfg. Corp.-Aerospace Div.
Alwac Computer, Div.-El-Tronics Inc.
Applied Electronics Corp. of N. J.
Arnoux Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix-Pacific Div., Bendix Aviation Corp.
Benson-Lehner Corp.
Ernest E. Blanche & Associates, Inc.
Briggs Associates, Inc.
Broadview Research Corp.
Budd Lewyt Electronics, Inc.
CG Electronics Corp.
Chance Vought Aircraft, Inc.
Computer Control Co., Inc.
Computer Control Co., Inc., Western Div.
*CONSOLIDATED ELECTRODYNAMICS CORP.
Control Data Corp.
Cubic Corp.
Data Instruments Div.-Telecomputing Corp.
Joe Davidson & Associates
Daystrom, Inc., Control Systems Div.
Designers for Industry, Inc.
Donner Scientific Co.
Allen B. Du Mont Labs., Inc.
Dynatronics, Inc.
Electro Instruments, Inc.
Electromotion Co., Div.-Del Mar Engrg. Labs.
Electronic Computer Co., Inc.
Electronics Div.-The National Cash Register Co.
Epsco Inc.
*EQUIPMENT DIV., RAYTHEON CO.
Fenske, Fedrick & Miller Inc.
Fischer & Porter Co.
Flight Support, Inc.
Franklin Electronics Inc.
General Devices, Inc.
General Electric Co., Computer Dept.
General Electric Co., Heavy Military Electronics Dept.
General Mills, Inc.
Gillfillan Bros. Inc.
Gulton Industries, Inc.
HRB-Singer, Inc., Sub.-Singer Mfg. Co.
Hollamore Electronics Co., Div.-Sieglar Corp.
Hammett-Mercury-Rex Div.
Hewlett-Packard Co.
ITT Federal Div., International Telephone & Telegraph Corp.
Leor, Inc.
Leeds & Northrup Co.
Iribar Corp., General Precision, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Madigan Corp.
Mincom Div., Minnesota Mining & Mfg. Co.
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Systems Div.
Mitchell Camera Corp.
Moran Instrument Corp.
Motorola, Inc.
Navigation Computer Corp.
Northrup Corp.
Optomechanisms Inc.
Pacific Automation Products, Inc.
Packard Bell Computer Corp.
Parabon, Inc.
Philco Corp.-Govt. & Industrial Group
Potter Instrument Co., Inc.
Radiophone Co. Inc.
Radiation, Inc.
Radio Condenser Co.
*RADIO CORP. OF AMERICA
*RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
Remington Rand Univac Div.-Sperry Rand Corp.
Republic Aviation Corp., Missile Systems Div.
Soroban Engrg., Inc.

Southwest Research Institute
Southwestern Industrial Electronics Co.
Special Products Dept., Melpar, Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
Stromberg-Carlson, San Diego, General Dynamics Corp.
Systron Corp.
Tally Register Corp.
Westronics Inc.

DECADE BOXES

Associated Engineers, Inc.
Barnes Development Co.
Clorostat Mfg. Co., Inc.
Cornell-Dubilier Electric Corp.
Daven Co., The
Dmeter Mfg. Co.
Electro Scientific Industries
Electronic Applications, Inc.
Epic, Inc.
Epsco Inc.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Fisher Scientific Co., Maryland
Freed Transformer Co., Inc.
General Radio Co.
Gray Instrument Co.
Industrial Instruments Inc.
Kirk & Blum Mfg. Co., The
Leor, Inc.
Leeds & Northrup Co.
*MARTIN CO., THE, DENVER DIV.
Muirhead Instruments Inc.
New England Scientific Instruments Co.
Nuclear-Chicago Corp.
Pacific Automation Products, Inc.
Pimex, Inc.
Precision Development Corp.
*RADIO CORP. OF AMERICA
Rimac, Inc.
Universal Mfg. Co., Inc.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

DECALCOMANIAS

Adept Industries Inc.
Allied Decals, Inc.
W. H. Brady Co.
California Plasteck Inc.
Croname Inc.
Duralith Corp.
Walter J. Hyatt Co., The
Meyercoord Co., The
Meyercoord Co., The, AMC Div.
*MINNESOTA MINING & MFG. CO.
New England Etching Co. Inc.
Norsid Mfg. Co., Inc., The
Regal Air Corp.
Scioto Sign Co.
Sillocks-Miller Co.
Stonpat Co.
Swift Textile Metalizing & Laminating Corp.
E. F. Twomey Co., Inc.

DECODERS

Advance Industries, Inc.
Aerona Mfg. Corp.-Aerospace Div.
Bendix Aviation Corp., Cincinnati Div.
Blender-Tongue Labs. Inc., Special Products Div.
Bruno-New York Industries Corp.
CG Electronics Corp.
Dynatronics, Inc.
Electronic Computer Co., Inc.
*EQUIPMENT DIV., RAYTHEON CO.
Fenske, Fedrick & Miller Inc.
Gillfillan Bros. Inc.
Leor, Inc.
Madigan Corp.
*MARTIN CO., THE, DENVER DIV.
Molded Insulation Co.
Motorola, Inc.
National Co., Inc.
Navigation Computer Corp.
Philco Corp.-Govt. & Industrial Group
Radiophone Co. Inc.
Radiation, Inc.
*RADIO CORP. OF AMERICA
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
Secode Corp.
Southwestern Industrial Electronics Co.
Tally Register Corp.
Transistor Electronics Corp.
Wickes Engrg. & Construction Co.

DEHUMIDIFIERS

Accessory Controls & Equipment Corp.
Advance Industries, Inc.
American Instrument Co., Inc.
Atlantic Research Corp.

Barium & Chemicals, Inc.
Bendix Aviation Corp.
Budd Lewyt Electronics, Inc.
Carrier Corp.
Damp-Chaser, Inc.
Joe Davidson & Associates
Desomatic Products, Inc.-Anders-Driline
Dryer Hanson Div.-Crane Co.
Driaire, Inc.
Dryomatic Corp.
Eastern Industries Inc.
Ellis & Watts Products, Inc.
Frick Co.
Great Lakes Mfg. Corp.
Gremco, Inc.
Hammett-Mercury-Rex Div.
C. G. Hokanson Co., Inc.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Kahn & Co., Inc.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Leor, Inc.
Merix Chemical Co.
Murphy & Miller Inc.
Pioneer Industries Div., Almar-York Co. Inc.
Pittsburgh Lectrodryer Div.-Mc Graw-Edison Co.
J. F. Pritchard & Co. of California
Robbins Aviation, Inc.
Southwest Research Institute
Trinity Equipment Corp.
Universal Dynamics Corp.
Wells Industries Corp.
Wenzlauer Engrg. Co.
Westinghouse Electric Corp.

DEHYDRATING AGENTS

Barium & Chemicals, Inc.
Budd Lewyt Electronics, Inc.
Driaire, Inc.
Kahn & Co., Inc.
Monsanto Chemical Co.
Robbins Aviation, Inc.
Southwest Research Institute
Universal Dynamics Corp.
Wells Industries Corp.

DEHYDRATOR PLUGS

Driaire, Inc.
Robbins Aviation, Inc.
Universal Dynamics Corp.
Wells Industries Corp.

DEHYDRATORS, AUTOMATIC

Advance Industries, Inc.
American Instrument Co., Inc.
Applied Dynamics Corp.
Budd Lewyt Electronics, Inc.
Cornelius Co., The, Aero Div.
Crane Co., Special Products Div.
Dalmo Victor Co., Div.-Textron, Inc.
Desomatic Products, Inc.-Anders-Driline
Dryomatic Corp.
Eastern Industries Inc.
Frick Co.
Great Lakes Mfg. Corp.
Harris Refrigeration Co.
Kahn & Co., Inc.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Leor, Inc.
Olympic Plastics Co., Inc.
Pittsburgh Lectrodryer Div.-Mc Graw-Edison Co.
J. F. Pritchard & Co. of California
Robbins Aviation, Inc.
S & G Mfg. Corp.
Selas Corp. of America
Southwest Research Institute
Trinity Equipment Corp.
Universal Dynamics Corp.
Wells Industries Corp.

DEHYDRATORS, OXYGEN EQUIPMENT

Advance Industries, Inc.
Air Products, Inc.
Bendix Aviation Corp.
Budd Lewyt Electronics, Inc.
Desomatic Products, Inc.-Anders-Driline
Driaire, Inc.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.
Pittsburgh Lectrodryer Div.-Mc Graw-Edison Co.
Robbins Aviation, Inc.
Southwest Research Institute
Standard Steel Corp., Cambridge Div.
Universal Dynamics Corp.
Wells Industries Corp.
Zep Aero

DELAY LINES

a. Computer

- b. Decade
- c. Distributed-Constant Fixed
- d. Distributed-Constant Variable
- e. Lumped-Constant Fixed
- f. Lumped-Constant Variable
- g. Printed Circuit

ACDC Electronics, Inc., a, b, c, e, g.
 AMP Inc., c thru f.
 Admiral Corp., e, f.
 Advance Industries, Inc., a.
 Alden Products Co.
 American Tube Bending Co., Inc.
 Andersen Labs., Inc., a thru f.
 Bal Fuse Inc., a, c.
 Bendix Aviation Corp., a.
 Bendix Aviation Corp., Cincinnati Div., a.
 Richard D. Brew & Co., Inc., a thru g.
 Burnell & Co., Inc., e, f.
 Burton Rodgers, Inc., a, g.
 Chance Vought Aircraft, Inc., e.
 Columbia Technical Corp., a thru g.
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., c, e.
 Communication Accessories Co., e, f, g.
 Computer Control Co., Inc., a.
 Computer Control Co., Inc., Western Div., a.
 Control Electronics Co., Inc., a thru g.
 Corning Glass Works
 Curtiss-Wright Corp., Electronics Div.
 Daven Co., The, e.
 Double E Products Co., a thru g.
 ESC Corp., a thru g.
 Electrical & Physical Instrument Corp., d.
 Electro-Winders Co., Inc., a thru g.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., a, d.
 Filtron Co., Inc., a thru g.
 Forbes & Wagner, Inc., a, c, e.
 General Electric Co., Heavy Military Electronics Dept., c, d.
 General Radio Co., d.
 Gillfillan Bros. Inc.
 Gudeman Co., The, c, e.
 Hallamore Electronics Co., Div.-Sieglar Corp., c.
 Hammett-Mercury-Rex Div., a.
 George E. Harris & Co., Inc.
 Helipot Div.-Beckman Instruments, Inc., d.
 IMC Magnetics Corp., c thru f.
 Industrial Test Equipment Co., f.
 JFD Electronics Corp., c thru g.
 Lab. for Electronics, Inc., a, c thru f.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., g.
 La Pointe Industries Inc., g.
 Lear, Inc., a, c, g.
 Librascope Div., General Precision, Inc., a, c, g.
 Litton Industries, Inc.
 Meridian Metalcraft, Inc., c.
 Micamold Electronics Mfg. Corp., e.
 James Millen Mfg. Co. Inc., a, c, e.
 Mitronics Inc., g.
 Motorola, Inc., a, c, thru g.
 Nytronic, Inc., Essex Electronics Div., a, c, e, g.
 Orbitron Co., Inc., e.
 Ralph M. Parsons Co., The, Electronics Div., e, f.
 Phlco Corp.-Govt. & Industrial Group, a, e, f, g.
 Polyphase Instrument Co., e.
 Precision Lapping Co. Inc.
 Q-Circuits, Div. Etching Co. of Calif., g.
 Radio Condenser Co., f.
 *RADIO CORP. OF AMERICA, a thru g.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., c thru f.
 Redman Electronics Corp., a, e.
 Rytro Co., Inc., e.
 Sangamo Electric Co., e.
 Shallcross Mfg. Co., a thru g.
 Southwestern Industrial Electronics Co., a, d.
 Sprague Electric Co., e.
 Stanpat Co., g.
 Stewart-Warner Electronics Div., c, e.
 Superior Electric Co., The
 Taffet Electronics, Inc., b, d.
 Technitrol Engrg. Co., a, c, e.
 Thompson Ramo Wooldridge Inc., e, f.
 Transco Products, Inc., c.
 Transistor Electronics Corp., a.
 U. S. Sonics Corp., a.
 Valor Instruments, Inc., a thru g.
 Vanguard Electronics Co., c, e, f.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp., e, f, g.

DELAY NETWORKS

ACDC Electronics, Inc.
 Advance Industries, Inc.
 American Potash & Chemical Corp., National Northern Div.
 Andersen Labs., Inc.
 Bendix Aviation Corp.

Bendix Aviation Corp., Cincinnati Div.
 Richard D. Brew & Co., Inc.
 Burnell & Co., Inc.
 Chance Vought Aircraft, Inc.
 Columbia Technical Corp.
 Control Electronics Co., Inc.
 Daven Co., The
 Double E Products Co.
 ESC Corp.
 Electro-Winders Co. Inc.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Farbes & Wagner, Inc.
 General Radio Co.
 Gillfillan Bros. Inc.
 Lear, Inc.
 Librascope Div., General Precision, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Microphase Corp.
 James Millen Mfg. Co. Inc.
 Motorola, Inc.
 National Co., Inc.
 Nytronic, Inc., Essex Electronics Div.
 Orbitron Co., Inc.
 Phlco Corp.-Govt. & Industrial Group
 Polyphase Instrument Co.
 *RADIO CORP. OF AMERICA
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
 Stewart-Warner Electronics Div.
 Taffet Electronics, Inc.
 Tamar Electronics, Inc.
 Telectro Industries Corp.
 Valor Instruments, Inc.
 Vanguard Electronics Co.
 Varo Mfg. Co., Inc.
 Vai-Shan Electronics
 Western Union Telegraph Co., The
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

DEMAGNETIZERS

R. B. Annis Co.
 Bearing Inspection, Inc.
 Caltron Products Co.
 Electronic Brazing Co.
 Ideal Industries, Inc.
 Kahn & Co., Inc.
 L & R Mfg. Co.
 Librascope Div., General Precision, Inc.
 Magnaflex Corp., Sub.-General Mills, Inc.
 Magnetic Circuit Elements, Inc.
 Merix Chemical Co.
 Microtran Co. Inc.
 Robins Industries Corp.
 Southwestern Industrial Electronics Co.
 Taft-Peirce Mfg. Co., The
 Telectro Industries Corp.

DEMODULATORS, COMPUTER

Advance Industries, Inc.
 Arnoux Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Lear, Inc.
 Librascope Div., General Precision, Inc.
 Micro Gee Products, Inc.
 Motorola, Inc.
 National Co., Inc.
 Otis Elevator Co., Defense & Industrial Div.
 Polyphase Instrument Co.
 *RADIO CORP. OF AMERICA
 Servomechanisms, Inc.
 Solar Mfg. Corp.
 Summers Gyroscope Co.
 Sun Electric Corp., Aeronautical Div.
 Telectro Industries Corp.
 Varo Mfg. Co., Inc.

DEMODULATORS, CURRENT

*R. C. ALLEN AIRCRAFT INSTRUMENT DIV., R. C. ALLEN BUSINESS MACHINES, INC.

DENSITOMETERS, ELECTRONIC

Applied Research Labs., Inc.
 Automation Products, Inc.
 Bendix Aviation Corp., Cincinnati Div.
 Empire Products Sales Corp.
 *ENGIS EQUIPMENT CO.
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 Gordon Enterprises
 Jarell-Ash Co.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Photovolt Corp.
 Potter Aeronautical Corp.
 Revere Corp. of America, Sub., Neptune Meter Co.
 Servomechanisms, Inc.
 Spectra Electronics Corp.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

DESTRUCTORS

*AEROJET-GENERAL CORP.
 Aerojet-General Corp., Downey Plant
 American Machine & Foundry Co.
 American Potash & Chemical Corp., National Northern Div.
 Armament Div.-Universal Match Corp.
 Avco Corp., Crosley Div.
 Beckman & Whitley, Inc., Missile Products Div.
 Bermite Powder Co.
 Bulova Research & Development Labs., Inc.
 Joe Davidson & Associates
 Daystrom Inc., Weston Instruments Div.
 Gabriel Co., Rocket Power-Talco
 Hercules Powder Co., Chemical Propulsion Div.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
 Librascope Div., General Precision, Inc.
 Lithium Corp. of America Inc., The Fulton-Irton Div.
 Litton Industries, Maryland Div.
 Mc Cormick Selph Associates
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Propellax Chemical Div., Chromalloy Corp.
 Thiokol Chemical Corp., Hunter-Bristol Div.
 Young Development Div., Hercules Powder Co.

DESTRUCTORS & ASSOCIATED MECHANISMS

*AEROJET-GENERAL CORP.
 Aerojet-General Corp., Downey Plant
 American Machine & Foundry Co.
 American Potash & Chemical Corp., National Northern Div.
 Armament Div.-Universal Match Corp.
 Avco Corp., Crosley Div.
 Beckman & Whitley, Inc., Missile Products Div.
 Bermite Powder Co.
 Bulova Research & Development Labs., Inc.
 E. I. Du Pont de Nemours & Co., Inc.
 Gabriel Co., Rocket Power-Talco
 Hercules Powder Co., Chemical Propulsion Div.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
 Librascope Div., General Precision, Inc.
 Lithium Corp. of America Inc., The Fulton-Irton Div.
 Litton Industries, Maryland Div.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Propellax Chemical Div., Chromalloy Corp.
 Thiokol Chemical Corp., Hunter-Bristol Div.

DETECTION SYSTEMS

ACF Industries Inc.
 Advanced Electronics, Inc.
 American District Telegraph Co.
 American Research & Mfg. Corp.
 Broadview Research Corp.
 Budd Lewyt Electronics, Inc.
 Chance Vought Aircraft, Inc.
 *CONSOLIDATED ELECTRODYNAMICS CORP.
 Dalmo Victor Co., Div.-Textron, Inc.
 Daystrom Inc., Weston Instruments Div.
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Designers for Industry, Inc.
 Eastman Kodak Co.
 Thomas A. Edison Ind. Instrument Div., Mc Graw Edison Co.
 *EQUIPMENT DIV., RAYTHEON CO.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Fenwal Inc.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 General Instrument Corp., Defense & Engrg. Products Group.
 Hughes Tool Co., Aircraft Div.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Lear, Inc.
 Litton Industries, Maryland Div.
 Magnaflex Corp., Sub.-General Mills, Inc.
 Motorola, Inc.
 National Co., Inc.
 Nuclear Measurements Corp.
 Radio City Products Co., Inc.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Special Products Dept., Melpar, Inc.
 Spectra Electronics Corp.
 Sun Electric Corp., Aeronautical Div.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Texas Instruments Inc.
 Thompson Ramo Wooldridge Inc.
 U.S. Industries, Inc.

Wells Industries Corp.
Western Union Telegraph Co., The

DETECTORS

a. Crack
b. Crystal
c. Detonation
d. Explosive Gas
e. Flaw & Defect, Electronic
f. Impedance
g. Leak
h. Magnetic
i. Metal, Electronic
j. Monoxide
k. Null
l. Null, RF
m. Radiation
n. Radiation, Nuclear
o. Resistance
p. Scintillation
q. Smoke
r. Standing Wave
s. Vibration
t. Voltage
u. Water Leak

ACF Electronics Div., ACF Industries Inc.
ACF Industries Inc.

Acoustica Associates, Inc., g, u.
Advanced Electronics, Inc., s.
Aerolux Light Corp., t.
Aircom Inc., r.

Airpax Electronics Inc., Cambridge Div., h.
Airpax Electronics Inc., Seminoe Div., h.

Allen Electric & Equipment Co., g, u.
American District Telegraph Co., q.
American Electronics, Inc., g, m, n, p.
American Machine & Foundry Co., o, e.
American Potash & Chemical Corp., National
Northern Div., m.

American Research & Mfg. Corp., h, i, s, t.
American Tradair Corp., n, p.

Arnoux Corp., o.
Aviation Textile Associates, h.
Avien, Inc., t.

Baird-Atomic, Inc., m, n, p.
Ball Brothers Research Corp., p.

Barber-Colman Co., k.
Barnes Development Co., k, o.
Bendix Aviation Corp., b, k thru n.
Bendix Aviation Corp., Cincinnati Div., m thru p.

Boonton Electronics Corp., k, l, t.
Branson Instruments, Inc., a, e.

E. W. Brilmayer Inc., i.
Calvert Electronics Inc., o.

Chatham Electronics Div.-Tung-Sol Electric Inc., m.
Circo Equipment Co., e.

Circo Ultrasonic Corp., e.
Clevite Transistor Products, Div.-Clevite Corp., b.

Consolidated Controls Corp., o.
***CONSOLIDATED ELECTRODYNAMICS CORP.,**
g, s.

Consolidated Vacuum Corp., g.
Continental Electric Co., d.

Convoir Instruments, Convoir Div.-General Dynamics
Corp., g.

Cornell Deep Drawing Co., Div.-Lanes Industries
Corp., g.

Crosby-Teletronics Corp., g.
Dalmo Victor Co., Div.-Textron, Inc., h.

Davis Instruments, d.
Daystrom Inc., Weston Instruments Div., e.

Delsen Corp., e.
Demornay-Bonardi, r.

Designers for Industry, Inc., e, h, i.
Diamond Antenna & Microwave Corp., b, r.

J. W. Dice Co., e, i.
Double E Products Co., l, m.

Douglas Microwave Co., Inc., r.
Du Kone Corp., h.

Dytronic Co., g, k, u.
Eastman Kodak Co., m.

Eberline Instrument Corp., n, p.
Edwards High Vacuum Ltd., g.

Electro Scientific Industries, f, k, o.
Electronic Control Corp., q.

Electron-Radar Products, q.
Empire Products Sales Corp., m.

Epic, Inc., s.
***EQUIPMENT DIV., RAYTHEON CO.,**
g, r.

Erco Engr. Corp., d.
FXR, Inc., r.

Fairchild Astrionics Div., Fairchild Engine & Airplane
Corp., m.

Fanval Inc., d, k.
Fisher Scientific Co., g.

Food Machinery & Chemical Corp., Ordnance Div., e.
Freed Transformer Co., Inc., k.

Fyr-Flyer Co., The, q.
Gardiner Electronics, i, m, p.

Gardner Laboratory, Inc., j.

General Electric Co., Apparatus Div., d, g, i,
m, q.

General Radio Co., f, k, l, o, r, s.
General Scientific Equipment Co., d, j, q.

Paul E. Gerst & Co., h.
John Gombos Co., Inc., r.

Grant-Lehr Corp., g, u.
Gulton Industries, Inc., s.

Hammitt-Mercury-Rex Div., b, h, t.
Hewlett-Packard Co., b, r.

E. Vernon Hill & Co., g, s.
Hoffman Electronics Co., d.

Hoffman Electronics Corp., Semiconductor Div., d, q.
Houston Instrument Corp., d.

Hughes Tool Co., Aircraft Div., g.
Image Instruments, Inc., e.

Industrial Test Equipment Co., k, t.
Infrared Industries, Inc., m.

Instrument Div., The Budd Co., a, n.
International Electronic Research Corp., m, n.

Interstate Electronics Corp., b, f, g, m, n, p, q, u.
Isotopes Specialties Co., Div.-Nuclear Corp. of
America, a, n, p.

Johnson-Williams, Inc., d.
Kahn & Co., Inc., s.

Koy Electric Co., t.
Keithley Instruments, Inc., f, k, o, t.

Wayne Kerr Corp., s.
Kin Tel Div.-Cohu Electronics, Inc., k.

Kistler Instrument Corp., s.
Lond-Air Inc., Sub.-California Eastern Aviation, Inc., m,
n, p.

Lear, Inc., e, g, k, l, o, t.
Leads & Northrop Co., j, k, o, q.

Levinthal Electronic Products, Inc., p.
Lewis Engr. Co., The, b.

lieco, Inc., b.
Linde Co., Div.-Union Carbide Corp., g.

MB Electronics, s.
Magnaflex Corp., Sub.-General Mills, Inc., a, e, g, h, i.

Magnetic Circuit Elements, Inc., t.
***MARTIN CO., THE, DENVER DIV., a, e, g, k, q, s,**
t, u.

Mechanics Research Div., American Machine & Foundry
Co., o.

Meridian Metalcraft, Inc., b.
Microphase Corp., b.

Microwave Associates, Inc., b, r.
James Millen Mfg. Co., Inc., r.

Mine Safety Appliances Co., g.
Motorola, Inc., b, t.

Muirhead Instruments, k.
NUMEC-Nuclear Materials & Equipment Corp., m, n.

Nardo Microwave Corp., The, b.
National Co., Inc., l, m.

Newark Controls Co., g, u.
Northrop Corp., a.

Notifier Corp.,
Nuclear Corp. of America, n, p.

Nuclear Development Lab., n.
Nuclear Measurements Corp., m, n, p.

Nuclear-Chicago Corp., m, n, p.
Ohio Chemical & Surgical Equip. Co., Div.-Air Re-
duction Co., Inc., g.

Omar Corp., The, n, p.
Olin Mathieson Chemical Corp., N.Y., a thru d, j.

Omega Labs., Inc., r.
Patterson Moas Research, Div.-Leesona Corp., c, d,
m, n, p, q.

Penn Keystone Corp., h, t.
Performance Measurements Co., k.

Perkin-Elmer Corp., g.
Peschel Electronics, Inc., e, t.

Philco Corp. Govt. & Industrial Group, b, p.
Philips Electronic Instruments, p.

Photobell Co., Inc., e, q.
Piasucci Aircraft Corp., m, n, p.

Pilot Chemicals, Inc., p.
Pioneer Industries Div., Almar-York Co. Inc., e, i, o.

Polarad Electronics Corp., m, r.
Polytechnic Research & Development Co., Inc., f, r.

Potter Aeronautical Corp., g, u.
Radiation Instrument Development Lab., Inc., n, p.

Radio Condenser Co., l.
***RADIO CORP. OF AMERICA, e thru h, k, l, p, r, t.**

Rantec Corp., b.
Milton Roy Co., g.

Sage Labs., Inc., b, r.
Scientific & Process Instruments Div.-Beckman
Instruments, Inc., g.

Scientific-Atlanta, Inc., b.
H. H. Scott, Inc., s.

***SEMICONDUCTOR DIV., RAYTHEON CO., b.**
Simpson Electric Co., k.

Simpson Military Products Div.-The Singer Mfg. Co., r.
Southwest Research Institute, a, d, e, g, h, i, r, s, u.

Southwestern Industrial Electronics Co., s.
Special Products Dept., Melpar, Inc., t.

Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp., m, r.

Sperry Products Co., Div.-Howe Sound Co., a, e.
Strand Engr. Co., n.

Sun Electric Corp., Aeronautical Div., s.
Sunshine Scientific Instrument, e, g, h, i.

Sylvania Semiconductor Div., Sylvania Electric Pro-
ducts Inc.,

TRG, Inc., b, n, r.
Tamar Electronics, Inc., l.

Teletrome Mfg. Corp., e, m, n, p.
Telonic Industries, Inc., b.

Theta Instrument Corp., k.
Tracerlab Inc., n, p.

Trio Laboratories, Inc., t.
Turco Products, Inc., a, g.

U. S. Industries, Inc., m, n, p.
U. S. Science Corp., Div.-Topp Industries, Inc., s.

Universal Transistor Products Corp., g, m, n, p.
Varo Mfg. Co., Inc., t.

Veeco Vacuum Corp., g.
Vickers Inc., Electric Products Div., t.

Victoreen Instrument Co., m, n, p.
Video Instruments Co., Inc., s.

Voi-Shan Electronics, t.
Wough Engr. Co., g.

Waveline, Inc., r.
Wells Industries Corp., q.

Westinghouse Electric Corp., n, p, s.
Wiancko Engr. Co., g.

N. Wood Counter Lab., m, p.

DEVELOPERS, CHEMICAL

American Potash & Chemical Corp., National
Northern Div.

Armour Industrial Chemical Co.
Gallery Chemical Co.

Delta Chemical Works, Inc.
E. I. Du Pont de Nemours & Co. Inc.

Eastman Kodak Co.
Gordon Enterprises

Merix Chemical Co.
Semi-Elements, Inc.

DIAGNOSTIC EQUIPMENT-COMPUTER

Bendix Aviation Corp.
Broadview Research Corp.

Computer Control Co., Inc.
Computer Control Co., Inc., Western Div.

Enso, Inc.
Epsco Inc.

Gulton Industries, Inc.
Hammitt-Mercury-Rex Div.

Iconix Inc.
Libroscope Div., General Precision, Inc.

Motorola, Inc.
Navigation Computer Corp.

Northrop Corp.
Optomechanisms Inc.

Packard Bell Computer Corp.
Philco Corp. Govt. & Industrial Group

***RADIO CORP. OF AMERICA**

DIAL CRYSTALS

American Insulator Corp.
Connecticut Instrument Corp.

G-C Electronics Co.
Homalite Corp., The

Lancaster Glass Corp.
Semi-Elements, Inc.

Sillcocks-Miller Co.
Sterling Glass Corp.

Sun Electric Corp., Aeronautical Div.

DIALS

Ackerman Engravers, Inc.
Acromark Co., The

Adept Industries Inc.
Allied Engraving & Stamping Co.

Allied Plastics Supply Corp.
American Insulator Corp.

Aphouser Corp. of N. E.
A. Biederman, Inc.

Borg Equipment Div., Amphenol-Borg Electronics Corp.
W. H. Brady Co.

Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Canadian Radium & Uranium Corp.

Chemical Micro Milling Co.
Connecticut Instrument Corp.

Croname Inc.
Henry G. Dietz Co., Inc.

Duro Plastics of N. Y., Inc.
Durdilth Corp.

Electric Autolite Co., The
Eljoy Corp.

Emeloid Co., Inc., The
Emerson Plastics Corp.

Fisher & Crome
Ford Instrument Co., Div.-Sperry Rand Corp.

Franklin Fibre-Lamitex Corp.
Gorwin, Inc.

General Communication Co.
 General Radio Co.
 W & L E. Gurley
 Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products Div.
 Homalite Corp., The
 E. F. Johnson Co.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kerrco
 Kilo Engr. Co.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 Kurtz-Kasch, Inc.
 Librascope Div., General Precision, Inc.
 Litho-Etch Metal Name Plate Co.
 James Millen Mfg. Co. Inc.
 Miller Dial & Nameplate Co.
 Muirhead Instruments Inc.
 New England Etching Co. Inc.
 North Shore Nameplate, Div.-Anodyne, Inc.
 Panel Engr. Corp.
 Phaotron Instrument & Electronic Co.
 Q-Circuits, Div.-Etching Co. of Calif.
 Rimak, Inc.
 D. A. Schultz Co.
 Sillocks-Miller Co.
 Spectrol Electronics Corp.
 Sun Dial Corp.
 Technology Instrument Corp.
 United States Radium Corp.
 Universal Unlimited, Inc.
 Vemaline Products Co.
 Virginia Plak Co.

DIALS, COMPLETE

Ackerman Engravers, Inc.
 Adept Industries Inc.
 Associated Engineers, Inc.
 A. Biederman, Inc.
 Borg Equipment Div., Amphenol-Borg
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
 Canadian Radium & Uranium Corp.
 Chemical Micro Milling Co.
 Electric Autolite Co., The
 Garwin, Inc.
 General Radio Co.
 Hamilton Watch Co., Military Products Div.
 E. F. Johnson Co.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kilo Engr. Co.
 James Millen Mfg. Co. Inc.
 Muirhead Instruments Inc.
 Panel Engr. Corp.
 Reeves Instrument Corp.
 D. A. Schultz Co.
 Sillocks-Miller Co.
 Sun Dial Corp.
 Theta Instrument Corp.
 Vemaline Products Co.

DIALS, INSTRUMENT

Ackerman Engravers, Inc.
 Acromark Co., The
 Adept Industries Inc.
 Allen Electric & Equipment Co.
 Apahouser Corp. of N. E.
 A. Biederman, Inc.
 Borg Equipment Div., Amphenol-Borg Electronics Corp.
 W. H. Brady Co.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
 Calvert Electronics Inc.
 Canadian Radium & Uranium Corp.
 Chemical Micro Milling Co.
 Connecticut Instrument Corp.
 Croname Inc.
 Dale Products, Inc.
 Henry G. Dietz Co., Inc.
 Dura Plastics of N. Y., Inc.
 Duralith Corp.
 Electric Autolite Co., The
 Eljoy Corp.
 Emeloid Co., Inc., The
 Emerson Plastics Corp.
 Fisher & Crome
 Ford Instrument Co., Div.-Sperry Rand Corp.
 Garwin, Inc.
 General Communication Co.
 General Radio Co.
 Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products Div.
 Jan Hardware Mfg. Co., Inc.
 E. F. Johnson Co.
 Kerrco
 Kilo Engr. Co.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 *MARTIN CO., THE, DENVER DIV.

James Millen Mfg. Co. Inc.
 *MINNESOTA MINING & MFG. CO.
 Muirhead Instruments Inc.
 New England Etching Co. Inc.
 North Shore Nameplate, Div.-Anodyne, Inc.
 Panel Engr. Corp.
 Phaotron Instrument & Electronic Co.
 Reeves Instrument Corp.
 Rimak, Inc.
 D. A. Schultz Co.
 Sillocks-Miller Co.
 Simmonds Aerocessories, Inc.
 Spectrol Electronics Corp.
 Sterling Glass Corp.
 Sun Dial Corp.
 Sun Electric Corp., Aeronautical Div.
 Technology Instrument Corp.
 Unified Industries, Inc.
 United States Radium Corp.
 Universal Unlimited, Inc.
 Vemaline Products Co.
 Virginia Plak Co.

DIAPHRAGMS, JET ENGINE

ACF Industries Inc.
 Aero Gasket Corp.
 Allison Div., General Motors Corp.
 Auburn Mfg. Co. The
 Bellofram Corp.
 Falcon Machine & Tool Co.
 B. F. Goodrich Aviation Products
 ITE Circuit Breaker Co., Special Products Div.
 Joalin Mfg. Co., The
 Kerns Mfg. Corp.
 Linear, Inc.
 Lycoming Div., Avco Corp.
 Mc Gregor Mfg. Corp.
 Portland Copper & Tank Works Inc.
 Reeves Brothers, Inc.
 Solar Aircraft Co.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 United States Chemical Milling Corp.
 United States Rubber Co.
 Weatherhead Co., The

DIAPHRAGMS, JET ENGINE NOZZLE

ACF Industries Inc.
 Aero Gasket Corp.
 Allison Div., General Motors Corp.
 Bellofram Corp.
 Capital City Mfg. Co., Inc.
 Falcon Machine & Tool Co.
 ITE Circuit Breaker Co., Special Products Div.
 Kerns Mfg. Corp.
 Linear, Inc.
 Lycoming Div., Avco Corp.
 Mc Gregor Mfg. Corp.
 Portland Copper & Tank Works Inc.
 Solar Aircraft Co.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 United States Chemical Milling Corp.
 United States Rubber Co.
 Weatherhead Co., The
 Induction Heating Corp.
 Radio Frequency Co., Inc.
 Reeve Electronics, Inc.
 Resdel Engr. Corp.
 D. A. Schultz Co.
 Scientific Electric Inc.
 Sherman Insl. Electronics Co., Div. Electronic Development Inc.
 Westinghouse Electric Corp.
 Young Brothers Co.

DIE CASTINGS

ABA Tool & Die Co.
 ACF Industries Inc.
 Aluminum Co. of America
 Collins Mfg. Corp.
 Doehler-Jarvis Div., National Lead Co.
 Dow Chemical Co., The
 General Communication Co.
 Gries Reproducer Corp.
 Jan Hardware Mfg. Co., Inc.
 Lear, Inc.
 Magline Inc.
 C. A. Morgan Co.
 Richard Philip Co.
 Milton Ross Metals Co., The
 Weatherhead Co., The
 Westinghouse Electric Corp.

DIELECTRIC HEATING EQUIPMENT

*COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.
 Djeco Div.-Djordjevic Engr. Co.
 Eraco Engr. Corp.

DIELECTRIC MATERIALS

Biwax Corp.
 Bjorksten Research Labs. for Industry, Inc.
 Carborundum Co., The
 Carborundum Co., Latrobe Plant, Refractories Div.
 Coors Parcelain Co.
 Corning Glass Works
 D & R Pilot Plants Inc.
 Dielctrix Corp.
 Dow Corning Corp.
 E. I. Du Pont de Nemours & Co. Inc.
 Emerson & Cuming, Inc.
 Flexible Tubing Corp.
 Food Machinery & Chemical Corp.-Dapan Dept.
 Insulation Mfrs. Corp.
 *INTERELECTRONICS CORP.
 Joalin Mfg. Co., The
 Lamtex Industries Inc.
 Lear, Inc.
 Mc Millan Companies, The
 *MINNESOTA MINING & MFG. CO.
 *MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
 Monsanto Chemical Co.
 Motorola, Inc.
 Mycalex Corp. of America
 National Beryllia Corp.
 National Ceramic Co.
 Natvar Corp.
 Norton Co., New Products Dept.
 Penn Fibre & Specialty Co., Inc.
 Polymer Corp., The
 Rogers Corp.
 Rubbercraft Corp., of California
 Special Products Dept., Melpar, Inc.
 A. S. Thomas, Inc.
 Thor Ceramics, Inc.
 Wilmington Fibre Specialty Co.
 Zirconium Corp. of America

DIES

ABA Tool & Die Co.
 ACF Industries Inc.
 Acromark Co., The
 Allied Products Corp.
 Amatom Electronic Hardware Co. Inc.
 American Feldmuehle Corp.
 Basic Tool Industries, Inc.
 Cyril Bath Co., The
 Bergen Carbide Co.
 E. W. Bliss Co.
 California Stamping & Mfg. Co.
 Cincinnati Shaper Co., The
 *EXCELCO DEVELOPMENTS INC.
 Forsberg Mfg. Co., The
 Gar Products Corp.
 Gemex Corp., The, Insl. Div.
 Greenfield Tap & Die, Div.-United-Greenfield Corp.
 Henry & Miller Industries, Inc.
 Kerns Mfg. Corp.
 E. Kanigslow Stamping & Tool Co.
 Lear, Inc.
 Lindgren Foundry Co.
 *MARTIN CO., THE, DENVER DIV.
 Metal Carbides Corp.
 J. I. Morris Co.
 Pennsylvania Tool & Mfg. Co., The
 Richard Philip Co.
 Milton Ross Metals Co., The
 Sheffield Corp., The, Sub.-Bendix Aviation Corp.
 Sheridan-Gray, Inc.
 Superior Industrial Machine Co.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Therm, Inc.
 Thompson Ramo Wooldridge Inc.
 Twix Mfg. Co., Inc.
 Unified Industries, Inc.
 Universal Mfg. Co., Inc.
 Victor Tool & Mfg., Inc.
 Wales Strippl. Inc., Unit of Houdaille Industries, Inc.
 Wayne Foundry & Stamping Co.
 Whitehead Stamping Co.
 Winder Aircraft Corp. of Florida

DIFFUSERS, GAS TURBINE ENGINE

Allison Div., General Motors Corp.
 Beacon Steel Corp.
 Douglas Aircraft Corp., Inc.
 Dura Plastics of N. Y., Inc.
 Herlo Corp.
 ITE Circuit Breaker Co., Special Products Div.
 Ingersoll Kalamazoo Div., Borg-Warner Corp.
 Janke & Co. Inc.
 Kelsey-Hayes Co.
 Lycoming Div., Avco Corp.
 Mc Gregor Mfg. Corp.
 Portland Copper & Tank Inc.
 Solar Aircraft Co.
 Western Design, Div.-U.S. Industries, Inc.

DIODES

- a. Crystal
- b. Germanium
- c. Selenium
- d. Silicon
- e. Tunnel
- f. Zener

American Elite, Inc., b.
 American Rectifier Corp., c, d.
 Ampere Electronic Corp., a, b, d, e, f.
 Associated Engineers, Inc., f.
 Bendix Aviation Corp., a, b, d.
 Bendix Aviation Corp.-Semiconductor Products, Red Bank Div., d.
 Bogue Electric Mfg. Co., c, f.
 Bradley Semiconductor Corp., c, d.
 Bulova Watch Co., Electronics Div., a.
 CBS Electronics, Div.-Columbia Broadcasting System, Inc., b, d.
 CBS Laboratories, Div.-Columbia Broadcasting System, a.
 Calvert Electronics Inc., a thru f.
 Chatham Electronics Div.-Tung-Sol Electric Inc., d.
 Cleviste Transistor Products, Div.-Clevite Corp., a, b, d, e.
 Calumbus Electronics Corp., d.
 Cornell-Dubilier Electric Corp., b.
 Dallons Semiconductors, Div.-Dallons Labs, d.
 Delco Radio Div.-General Motors Corp., b, d.
 Eitel-Mc Cullough, Inc.
 Erie Resistor Corp., b, d.
 Fairchild Semiconductor Corp., d.
 Finsteel Metallurgical Corp., d.
 Finney Co., The, a thru f.
 Gahagan Inc., a, b.
 General Electric Co. Ltd. of England, b, c, d, f.
 General Instrument Corp., Semiconductor Div., a, b, d, f.
 General Transistor Corp., b, e.
 George E. Harris & Co., Inc., c, d.
 Hoffman Electronics Co., d, e, f.
 Hoffman Electronics Corp., Semiconductor Div., d, e, f.
 Hughes Semiconductor Div.-Hughes Aircraft Co., b, d, f.
 ITT Components Div., International Telephone & Telegraph Corp., c, d, f.
 International Electronics Corp., a, b, d, f.
 International Rectifier Corp., c, d, f.
 Interstate Electronics Inc., a thru f.
 Lear, Inc., a, b, d, f.
 Microwave Associates, Inc., a, d.
 Motorola, Inc., a, b, f.
 North American Electronics Inc., d, f.
 Nucleonic Products Co., b, d.
 Philco Corp.-Govt & Industrial Group., a, b, d, e, f.
 Philco Corp., Lansdale Div., a, b, d, e.
 *RADIO CORP. OF AMERICA, a thru e.
 Radio Development & Research Corp., d.
 *SEMICONDUCTOR DIV., RAYTHEON CO., a, b, d, e.
 Semi-Elements, Inc., a, b, d, e.
 Shockley Transistor Corp., d.
 Silicon Transistor Corp., d.
 Sperry Semiconductor Div., Sperry Rand Corp., d, e.
 Sylvania Electric Products Inc., Sylvania Electronic Tubes Div., a, b, d, e.
 Sylvania Semiconductor Div., Sylvania Electric Products Inc., a, b, d, e.
 Technical Apparatus Builders, b, c, d, f.
 Texas Instruments Inc., d, e, f.
 Thompson Ramo Wooldridge Inc., b, d.
 Transiron Electronic Corp., a, b, d, e, f.
 Trans-Sil Corp., a, d.
 Tung-Sol Electric, Inc., a, c, d.
 Udylite Corp., The, c, e.
 U. S. Semiconductor Products Div.-United Industrial Corp., d, f.
 Vickers Inc., Electric Products Div., c, d.
 Westinghouse Electric Corp., b, c, d, f.

DIRECTION FINDERS

Allied International Corp.
 Anderson Labs., Inc.
 Autonetics, Div.-North American Aviation Inc.
 Bendix Aviation Corp.
 Budd Lewyt Electronics, Inc.
 Collins Radio Co.
 Control Electronics Co., Inc.
 Eastman Kodak Co.
 Fla. Aircraft Radio & Marine
 General Instrument Corp., Defense & Engrg. Products Group
 Hoover Electronics Co.
 Huyck Systems Co.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Interstate Electronics Corp.

***KEARFOTT DIV., GENERAL PRECISION, INC.**

Kollsman Instrument Corp., Sub-Standard Coil Products Co., Inc.
 Lear, Inc.
 Litan Industries, Maryland Div.
 Madigan Corp.
 *MAGNAVOX CO., THE
 W. L. Maxson Corp., The
 Motarala, Inc.
 Munston Electronic Mfg. Corp.
 National Co., Inc.
 Packard-Bell Electronics Corp.
 Philca Corp.-Govt. & Industrial Group
 Precise Development Corp.
 Production Research Corp., Sub-Radio Condenser Co.
 Radio City Products Co. Inc.
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Radio Receptor Co., Inc., Sub-General Instrument Corp.
 Robot Industries Inc.,
 Schoevitz Engrg.
 Skiatron Electronics & Television Corp.
 Southwest Research Institute
 Specialty Electronics Development Corp.
 Sperry Piedmont Co., Div. Sperry Rand Corp.
 Stramberg-Carlson Div. General Dynamics Corp.
 Telectro Industries Corp.

DISCHARGE EQUIPMENT, LOW TEMPERATURE

Budd Lewyt Electronics, Inc.
 A. M. Byers Co.
 Cryogenetics, Inc.
 Standard Steel Corp., Cambridge Div.
 Thermon Mfg. Co.

DISCHARGERS, STATIC

Dayton Aircraft Products, Inc.
 Lear, Inc.
 Tober Electronic Corp.

DISCONNECTS, CONTROL SYSTEMS

Aerotec Industries Inc., Aircraft Equipment Div.
 Arkwin Industries, Inc.
 Aro-Firewal Co. Inc., Sub-The Aro Equip. Corp.
 Benbow Mfg. Corp.
 Bendix Aviation Corp.
 Burndy Corp., Omaton Div.
 Cal Connector Co.
 FAE Instrument Corp.
 Gabriel Co., Rocket Power-Talco
 General Electric Co., Apparatus Sales Div.
 B. H. Hadley, Inc.
 Hoefner Corp.
 Walter J. Hyatt Co., The
 Kahn & Co., Inc.
 Lockheed Aircraft Corp., Missiles & Space Div.
 On Mark Couplings, Inc.
 Pacific Scientific Co.
 Peacock Engrg. & Mfg. Co.
 Weatherhead Co., The

DISCONNECTS, IGNITION SYSTEMS

Airtron, Div.-Litan Industries
 Burndy Corp., Omaton Div.
 Gabriel Co., Rocket Power-Talco
 Hallett Mfg. Co.
 Olin Mathieson Chemical Corp., Winchester Western Div.
 On Mark Couplings, Inc.

DISCRIMINATORS

ASCOP Div., Electro-Mechanical Research, Inc.
 American Missile Products Co., Inc.
 Barker & Williamson Inc.
 Bendix Aviation Corp., Cincinnati Div.
 Bendix-Pacific Div., Bendix Aviation Corp.
 Bevo Lab., Inc.
 Data-Control Systems, Inc.
 Gillfillan Bros. Inc.
 Hammarlund Mfg. Co., The
 Industrial Test Equipment Co.
 Lear, Inc.
 LeI, Inc.
 Magnetic Circuit Elements, Inc.
 W. L. Maxson Corp., The
 The Meridian Metalcraft, Inc.
 Midwestern Instruments, Inc.
 James Millen Mfg. Co. Inc.
 Motorola, Inc.
 National Co., Inc.
 Northrop Corp.
 Radiophone Co. Inc.
 Tamar Electronics, Inc.
 Tracerlab Inc.
 Unit Process Assemblies, Inc.
 Varo Mfg. Co., Inc.
 Vai-Shan Electronics
 Wickes Engrg. & Construction Co.

DISCS, COMPUTER

Allied Plastics Supply Corp.
 Bergen Carbide Co.
 Emeloid Co., Inc., The
 Guidance Controls Corp.
 W. & L. E. Gurley
 Lab. Ior Electronics, Inc.
 Libroscope Div., General Precision, Inc.
 Lytle Corp.
 *RADIO CORP. OF AMERICA
 Sillocks-Miller Co.

DISSIPATORS, HEAT

Birtcher Corp. The
 Budd Lewyt Electronics, Inc.
 A. M. Byers Co.
 California Stamping & Mfg. Co.
 Carborundum Co., The
 Gar Products Corp.
 Hanlon & Wilson Co., The
 Hastel Engrg. & Supply Co.
 IERC Div., International Electronic Research Corp.
 International Electronic Research Corp.
 Janitral Aircraft Div.-Midland-Ross Corp.
 Lear, Inc.
 *MINNESOTA MINING & MFG. CO.
 *MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
 Madine Mfg. Co.
 National Beryllia Corp.
 Rimok, Inc.
 Southwest Research Institute
 Standard-Thomson Corp., Clifford Mfg. Co. Div.
 Tober Electronic Corp.
 Westinghouse Electric Corp.
 Zippertubing Co., The

DISTANCE MEASURING EQUIPMENT

Aeronca Mfg. Corp.-Aerospace Div.
 Bendix Aviation Corp.
 A. Biederman, Inc.
 *BRISTOL CO., THE
 Collins Radio Co.
 Cubic Corp.
 Joe Davidson & Associates
 Allen B. Du Mont Labs., Inc.
 Eclipse-Pioneer Div., Bendix Aviation Corp.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 *EQUIPMENT DIV., RAYTHEON CO.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 GPL Div.-General Precision, Inc.
 Gates Radio Co.
 General Instrument Corp., Defense & Engrg. Products Group
 Gordon Enterprises
 Hamilton Watch Co., Military Products Div.
 Hazeltine Electronics Div.-Hazeltine Corp.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Integrated Dynamics Div., Globe Industries, Inc.
 Interstate Electronics Corp.
 Lab. Ior Electronics, Inc.
 Lear, Inc.
 Motorola, Inc.
 Optomechanisms Inc.
 Ralph M. Parsons Co., The, Electronics Div.
 Radio Receptor Co., Inc., Sub-General Instrument Corp.
 Sillocks-Miller Co.
 Spectra Electronics Corp.
 Trio Laboratories, Inc.
 U. S. Science Corp., Div.-Tapp Industries, Inc.

DISTRIBUTORS, FUEL

*BENDIX AVIATION CORP., HAMILTON DIV.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Delavan Mfg. Co.
 *DEL MAR ENGRG. LABS.
 Kemp Aero Products
 MB Electronics

DISTRIBUTORS, IGNITION

Bendix Aviation Corp.
 Electric Autolite Co., The
 Hallett Mfg. Co.

DOLLIES

Aero-Test Equipment Co., Inc.
 Air Logistics Corp.
 American Car & Foundry Div., ACF Industries, Inc.
 American Conveyor Co.
 American Machine & Foundry Co., Greenwich Engrg. Div.
 Arnolt Corp.
 Artisan Metal Works Co.
 Associated Co., Inc.
 Beacon Steel Corp.
 Beech Aircraft Corp.

Bennett-Faragen
 Brooks & Perkins, Inc.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Colson Corp., The
 Columbia Research & Development Corp.
 Consolidated Diesel Electric Corp.
 Craig Systems, Inc.
 Cromer Mfg. & Engrg., Inc.
 Doak Aircraft Co., Inc.
 Dudwallen Mfg. Co., Inc., The
 Eastern Rotorcraft Corp.
 Electronic Tube Corp.
 Elzee Metal Products Co., Inc.
 FDW Corp.
 Fairbanks Co., The
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
 Food Machinery & Chemical Corp., Ordnance Div.
 Fruehauf Trailer Co., Military Equipment Div.
 Fred S. Gichner Iron Works, Inc.
 Gordon Enterprises
 Harco Containers Div. Harbor Boat Building Co.
 George E. Harris & Co., Inc.
 Henry & Miller Industries, Inc.
 Highland Engrg. Co.
 Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries Inc.
 Kellett Aircraft Corp.
 Machine Products Div., New Haven Trap Rock Co.
 Magnesium Co. of America
 *MARTIN CO., THE, DENVER DIV.
 Mid-West Metal Products, Inc.
 Northrop Corp.
 Nutting Truck & Caster Co.
 P. B. R. Mfg. Co.
 Penn-Michigan Mfg. Corp.
 Premier Metal Products Co.
 Regent Jack Mfg. Co., Inc.
 Sancier Corp.
 B. K. Sweeney Mfg. Co.
 Technical Service Corp.
 Trailmobile Inc.
 Twin Coach Co., Aircraft-Missiles
 Twix Mfg. Co., Inc.
 Waco Aircraft Co.
 Weber Aircraft Corp.
 Welded Construction Inc.
 Wells Industries Corp.
 Westholt Mfg. Inc.
 Wickfield, Inc.
 Winder Aircraft Corp. of Florida

DOSIMETERS

Baird-Atomic, Inc.
 Bausch & Lomb Optical Co.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Corning Glass Works
 Edgerton, Germeshausen & Grier, Inc.
 Empire Products Sales Corp.
 Industrial Acoustics Co., Inc.
 Instrument Div., The Budd Co.
 Interstate Electronics Corp.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America

*MINNESOTA MINING & MFG. CO.

Nuclear-Chicago Corp.
 Ohmart Corp., The
 Sillocks-Miller Co.
 Tracerlab Inc.
 Universal Transistor Products Corp.
 Victoreen Instrument Co.

DOWELS

Abbott Screw & Mfg. Co.
 Acme Industrial Co.
 Aero Spares, Inc.
 Allmetal Screw Products Co., Inc.
 Best Aircraft Corp.
 *BRISTOL CO., THE
 Capital City Mfg. Co., Inc.
 Chicago Screw Co., The, Div.-Standard Screw Co.
 Hartford Machine Screw Co., Div.-Standard Screw Co.
 Walter K. Jaros Aircrafts
 *MARTIN CO., THE, DENVER DIV.
 Mercury Air Parts Co., Inc.
 Norrich Plastics Corp.
 Ohlson Empire Inc.
 Sillocks-Miller Co.
 Standard Pressed Steel Co.
 Stanley-Judd Div.-The Stanley Works
 Torrington Co., The

DRAFTING EQUIPMENT

Eugene Dietzgen Co.
 Emmert Mfg. Co.
 Faber Pen & Pencil Co. Inc., Eberhard
 Fisher & Crome

Gordon Enterprises
 John Griffin Co.
 Corydon M. Johnson Co., Inc.
 Koh-I-Noor Pencil Co., Inc.
 L. A. B. Corp.
 A. Lietz Co., The
 Optical Gaging Products, Inc.
 Sillocks-Miller Co.
 J. S. Stoedler, Inc.
 Stantop Co.
 E. F. Twomey Co., Inc.
 Universal Drafting Machine Corp.
 Warren-Knight Co.
 Wasley Products, Inc.

DRAFTING PAPER

Eugene Dietzgen Co.
 A. Lietz Co., The
 Stantop Co.
 Warren-Knight Co.

DRIFTMETERS

General Aniline & Film Corp., Ansco Div.
 Gordon Enterprises
 W. & I. E. Gurley
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 Theta Instrument Corp.

DRILL PRESSES

Black & Decker Mfg. Co., The
 Budd Co., The
 Burg Tool Mfg. Co., Inc.
 Burgmaster Corp.
 Clousing Div.-Atlas Press Co.
 High Speed Hammer Co., Inc., The
 Milman Engrg. Co.
 Joseph T. Ryerson & Son, Inc.
 U. S. Industries, Inc.

DRILL PRESSES, PRECISION

Brown & Sharpe Mfg. Co.
 Budd Co., The
 Burg Tool Mfg. Co., Inc.
 Burgmaster Corp.
 Clousing Div.-Atlas Press Co.
 High Speed Hammer Co., Inc., The
 Lennox Tool & Machine Builders
 Louis Levin & Son, Inc.
 Mco Instrument Co.
 Milman Engrg. Co.
 U. S. Industries, Inc.

DRILLS, ELECTRIC

Air Speed Tool Co.
 Albertson & Co., Inc.
 Black & Decker Mfg. Co., The
 Freedom Electric Co., Inc.
 Hammett-Mercury Rex Div.
 High Speed Hammer Co., Inc., The
 Miller Falls Co.
 Joseph T. Ryerson & Son, Inc.
 Snap-On-Tools Corp.
 George A. Terry Co.
 Thor Power Tool Co.
 U. S. Electrical Tool Co.
 United Supply Co.

DRILLS, HAND

Bendix Aviation Corp.
 Chicago Expansion Bolt Co.
 Gardner-Denver Co.
 Greenfield Tap & Die, Div.-United-Greenfield Corp.
 Handicraft Tools, Inc., Div.-X-Acto, Inc.
 Miller Falls Co.
 Proto Tool Co.
 Joseph T. Ryerson & Son, Inc.
 Superior Pneumatic & Mfg., Inc.
 United Supply Co.

DRILLS, TWIST

Bendix Aviation Corp.
 Bergen Carbide Co.
 Brown & Sharpe Mfg. Co.
 Fish-Schurman Corp.
 Greenfield Tap & Die, Div.-United-Greenfield Corp.
 Miller Falls Co.
 New York Twist Drill Co., Inc.
 Norwalk Cutter Sharpening Co.
 Joseph T. Ryerson & Son, Inc.
 Snap-On-Tools Corp.
 United Supply Co.
 Whitman & Barnes Drills & Reamers

DRIVES

- Antenna
- Hydraulic
- Small Electric Drive Mechanisms
- Tachameter

e. Torque Tube

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS, d.
 Acme Industrial Co., b.
 Actuation Research Corp., c.
 Actuator Products Div., Geartronics Corp., c, d.
 Adel Precision Products of Calif., Div.-General Metals Corp., b.
 Aeroflex Labs. Div., Aeroflex Corp., a, b, c.
 Aerona Mfg. Corp.-Aerospace Div., d.
 Ainslie Corp., a.
 Aircraft Accessory Turbine Dept.-General Electric Co., b.
 *AIRESEARCH MFG. OF ARIZONA, b.
 Allison Div., General Motors Corp., b, c.
 American Brake Shoe Co., b.
 American Machine & Foundry Co., Greenwich Engrg. Div., a, b.
 Amglo Corp., c.
 Bead Chain Mfg. Co., The, c.
 Belock Instrument Corp., a, c.
 Bendix Aviation Corp., a, b, c.
 *BENDIX AVIATION CORP., HAMILTON DIV., b.
 Bendix-Pacific Div., Bendix Aviation Corp., b.
 E. W. Bliss Co., a, b.
 Bowser, Inc., a, b, c.
 Bowser Inc., Defense Div., a.
 Breeze Corporations, Inc., c, e.
 CG Electronics Corp., a.
 Chance Vought Aircraft, Inc., a.
 Clark Equipment Co., b.
 Clevite Ordnance Div.-Clevite Corp., c.
 Conrad & Moser, a.
 Consolidated Diesel Electric Corp., b, c.
 Cornelius Co., The, Aero Div., b.
 Custom Products Corp., c.
 Dalmo Victor Co., Div.-Textron, Inc., a thru e.
 Dana Corp., e.
 Joe Davidson & Associates, c, d, e.
 Daystrom, Inc., Control Systems Div., a.
 Diamond Antenna & Microwave Corp., a.
 Dorne & Margolin, Inc., a.
 Eastern Industries Inc., b.
 Electric Autolite Co., The, c.
 *EQUIPMENT DIV., RAYTECH CO., a, b, c.
 FAE Instrument Corp., a, c.
 Fairfield Engrg. Corp., a.
 J. W. Fecker Div., American Optical Co., a, c.
 Flight Support, Inc., a thru d.
 General Bronze Electronics Corp., a.
 General Electric Co., Apparatus Sales Div., c, d.
 General Electric Co., Ordnance Dept., a, b, c.
 General Electro-Mechanical Corp., c.
 Genisco, Inc., c.
 Gilliland Bros. Inc., a, b, c.
 Guidance Controls Corp., c.
 Haskel Engrg. & Supply Co., b.
 Hathaway Instruments, Inc., c.
 A. W. Haydon Co., The, c, d.
 Hoover Electric Co., a, c, e.
 Walter J. Hyatt Co., The, b, c.
 Hydra-Power Corp., b.
 I-L-S Instrument Div., The Meriam Instrument Co.
 ITE Circuit Breaker Co., Special Products Div., a thru e.
 Industrial Control Co., a, c.
 Insko Co., Div.-Barry Controls Inc., c.
 Jan Hardware Mfg. Co., Inc., c, e.
 *KEARFOTT DIV., GENERAL PRECISION, INC., d.
 Kelsey-Hayes Co., a, b.
 Kieley & Mueller, Inc., b.
 La Pointe Industries, Inc., a.
 Lear, Inc., a thru e.
 Leeds & Northrup Co., c.
 Leetronics, Inc., c.
 Le Foll Mfg. Co., e.
 Link-Belt Co., b, d.
 Litton Industries, Maryland Div., a.
 Lundy Mfg. Corp., c.
 Madigan Corp., a.
 Nevada Air Products Co., c.
 New York Air Brake Co., The, Watertown Div.
 Northrop Corp., a, b.
 Oil-Dyne, Inc., b.
 Ozone Metal Products Corp., b.
 Parabam, Inc., b, c.
 Pegasus Labs., Inc., a, b, c.
 Pesco Products Div.-Borg-Warner Corp., b.
 Portland Copper & Tank Works Inc., a.
 REF Mfg. Corp., b.
 Radio Development & Research Corp., a thru d.
 Rantec Corp., a.
 Reeves Instrument Corp., a.
 Reliance Electric & Engrg. Co., a, d.
 Research, Inc., a thru e.
 J. R. Robbins Co., b.
 Robot Industries Inc., a, b, c.
 Sargent Engrg. Corp., b.
 Schaevitz Engrg., c.
 Scientific-Atlanta, Inc., a, c.

Servo-Tek Products Co., c, d.
Sierra-Schroeder Controls, Div.-Idaho Maryland
Mines Corp., b, c.
Stainless Inc., a.
Statham Development Corp., c.
Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.,
a, c.
Sundstrand Turbo, b.
TRG, Inc., a, c.
Talley Corp., The, a thru e.
Tapco Group, Thompson Ramo Wooldridge Inc.,
a, b, c.
Technical Appliance Corp., a.
Thompson Ramo Wooldridge Inc., a, b, c.
U. S. Industries, Inc., b, c.
Vickers Inc., a, b.
Vickers, Inc., Mich., a, b, c.
Waste King Corp., Technical Products Div., c.
Wells Industries Corp., b.
Western Gear Corp.-Precision Products Div., a, c.
Westinghouse Electric Corp., a, c.
Wickfield, Inc., b.

DROP FORGINGS

Acton Laboratories Inc.
Aerial Machine & Tool Corp.
Aluminum Co. of America
American Brake Shoe Co.
American Car & Foundry Div., ACF Industries, Inc.
*AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
Bethlehem Steel Co.
Billings & Spencer Co., The
A. M. Byers Co.
California Stamping & Mfg. Co.
Capewell Mfg. Co.
Chase Brass & Copper Co., Inc.
Collins Mfg. Corp.
Crucible Steel Co. of America
Curtiss-Wright Corp., Metals Processing Div.
Custom Tool & Mfg. Co.
Dana Corp.
Deutsch Co., The, Electronic Components Div.
Endicott Forging & Mfg. Co., Inc.
Kaiser Aluminum & Chemical Sales, Inc.
Kelsey-Hayes Co.
Ladish Co.
Ohlson Empire Inc.
Scovill Mfg. Co.
Solar Aircraft Co.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
Transue & Williams Steel Forging Corp.
United Shoe Machinery Corp.
United States Steel Corp.
Vlček Tool Co.
Wilcox-Crittenden Div., North & Judd Mfg. Co.
Wyman-Gordon Co.

DUCTS, EXHAUST

Aerocal Div., Aeronca Mfg. Corp.
American Agile Corp.
American Brass Co., The
Anaconda Metal Hose Div., The American Brass Co.
Arrowhead Products, Div.-Federal-Mogul-Bower
Bearings, Inc.
Associated Co., Inc.
B. H. Aircraft Co., Inc.
Basic Tool Industries, Inc.
Cyril Bath Co., The
Beacon Steel Corp.
Benson Mfg. Co.
Bethlehem Steel Co.
Breeze Corporations, Inc.
A. M. Byers Co.
Calcor Corp.
California Aircraft Products
California Stamping & Mfg. Co.
Chance Vought Aircraft, Inc.
Cobra Metal Hose Div., DK Mfg. Co.
Colonial Aircraft Corp.
Crane Co., Special Products Div.
Cromer Mfg. & Engrg., Inc.
C. R. Daniels, Inc.
Delta Corp.
Doak Aircraft Co. Inc.
Dunbar-Kapelle Inc.-Aircraft Components Div.
Fibercraft, Inc.
Flexoust Co., The
Flexonics Corp.
Hanlon & Wilson Co., The
Heil Process Equipment Corp.
Herlo Corp.
ITE Circuit Breaker Co., Special Products Div.
Industrial Acoustics Co., Inc.
Janke & Co. Inc.
Kaiser Fleetwings, Inc.
Kelsey-Hayes Co.
Kerns Mfg. Corp.
Kirk & Blum Mfg. Co., The
Lamlex Industries Inc.

*LAVELLE AIRCRAFT CORP.
McGregor Mfg. Corp.
Northeast Metals Industries, Inc.
Northrop Corp.
Parsons Corp., Special Products Div.
Portland Copper & Tank Works Inc.
Edw. Renneburg & Sons Co.
J. R. Robbins Co.
Solar Aircraft Co.
Stamping Div.-Rockwell Standard Corp.
F. M. Stevenson Co., Inc.
T. O. D. Mfg. Co. Inc.
Thermionic Aeronautical Div.
Thermoid Div.-H. K. Porter Co., Inc.
United Aircraft Products, Inc.
Westhelt Mfg. Inc.
Winder Aircraft Corp. of Florida
Wiremold Co., The
Woolf Aircraft Products, Inc.
Zippertubing Co., The

DUCTS, FLEXIBLE & COMPRESSIBLE

Airaterra
Anaconda Metal Hose Div., The American Brass Co.
Aircraft Co.
Arrowhead Products, Div.-Federal-Mogul-Bower
Bearings, Inc.
Bemis Bro. Bag Co.
Breeze Corporations, Inc.
Calcor Corp.
California Aircraft Products
California Stamping & Mfg. Co.
Cobra Metal Hose Div., DK Mfg. Co.
Continental Rubber Works
Cromer Mfg. & Engrg., Inc.
D K Mfg. Co.
Doak Aircraft Co. Inc.
Dunbar-Kapelle Inc.-Aircraft Components Div.
Flexoust Co., The
Flexible Metal Hose Mfg. Co.
Flexible Tubing Corp.
Flexonics Corp.
Flight Refueling, Inc.
Hanlon & Wilson Co., The
Herlo Corp.
Industrial Acoustics Co., Inc.
Kaiser Fleetwings, Inc.
Kelsey-Hayes Co.
Lone Star Plastics Co. Inc.
Morman Div., Aeroquip Corp.
*MINNESOTA MINING & MFG. CO.
Paris Engrg. Co., Inc.
Reeves Bros. Inc., Vulcan Rubber Div.
Fred T. Roberts & Co.
Roylyn Inc.
Rubbercraft Corp. of California
Solar Aircraft Co.
Southwest Products Co.
F. M. Stevenson Co., Inc.
Textstar Plastics, Div.-The Textstar Corp.
Thermoid Div.-H. K. Porter Co., Inc.
United States Rubber Co.
Wiremold Co., The
Zippertubing Co., The

DUCTS, NON-FLEXIBLE

American Agile Corp.
American Tube Bending Co., Inc.
Arrowhead Products, Div.-Federal-Mogul-Bower
Bearings, Inc.
Associated Co., Inc.
Atkins & Merrill, Inc.
B. H. Aircraft Co., Inc.
Bethlehem Steel Co.
Brooks & Perkins, Inc.
Brunswick Balke Collender Co., The, Defense Prod-
ucts Div.
Calcor Corp.
California Stamping & Mfg. Co.
Capital City Mfg. Co., Inc.
Chance Vought Aircraft, Inc.
Cobra Metal Hose Div., DK Mfg. Co.
Colonial Aircraft Corp.
Cromer Mfg. & Engrg., Inc.
D K Mfg. Co.
Doak Aircraft Co. Inc.
Dunbar-Kapelle Inc.-Aircraft Components Div.
Emerson Plastics Corp.
Falstrom Co.
Fibercraft, Inc.
Flexible Metal Hose Mfg. Co.
Flexible Tubing Corp.
Flexonics Corp.
Hanlon & Wilson Co., The
Heil Process Equipment Corp.
Herlo Corp.
Kaiser Fleetwings, Inc.
Kirk & Blum Mfg. Co., The
Le Fiell Mfg. Co.
Lone Star Plastics Co. Inc.

Lunn Laminates, Inc.
Morman Div., Aeroquip Corp.
*MARTIN CO., THE, DENVER DIV.
McGregor Mfg. Corp.
Met-L-Wood Corp.
Nelson Electric Mfg. Co.
Northeast Metals Industries, Inc.
Parsons Corp., Special Products Div.
Parts Engrg. Co., Inc.
Plastic Age Sales, Inc.
Portland Copper & Tank Works Inc.
Prewitt Aircraft Co.
Edw. Renneburg & Sons Co.
J. R. Robbins Co.
Stahlin Bros. Inc.
Taylor Electric Inc.
Temco Aircraft Corp.
Thermoid Div.-H. K. Porter Co., Inc.
United Aircraft Products, Inc.
Waste King Corp., Technical Products Div.
Westhelt Mfg. Inc.
Winder Aircraft Corp. of Florida
Woolf Aircraft Products, Inc.

DUMMY LOADS

Aeroscience, Inc.
Airtron, Div.-Litton Industries
American Car & Foundry Div., ACF Industries, Inc.
American Electronic Labs, Inc.
Beacon Steel Corp.
Belmar Wheel & Machine Co., Inc.
Bendix Aviation Corp., Cincinnati Div.
Bagart Mfg. Corp.
Carborundum Co., The
Carborundum Co., Refractories Div.
Colonial Aircraft Corp.
Continental Electronics Mfg. Co., Sub. Ling Altec
Electronics Inc.
Control Electronics Co., Inc.
Corning Glass Works
Joe Davidson & Associates
Demorney-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
DynaTronics, Inc.
Eastern Specialty Co., The
Eitel-McCullough, Inc.
FXR, Inc.
General Instrument Corp., Defense & Engrg. Products
Group
Giffilan Bros. Inc.
John Gombos Co., Inc.
Gorham Electronics Div.-Gorham Mfg. Co.
Hoover Electronics Co.
Kings Electronics Co., Inc.
Iteco, Inc.
*MARTIN CO., THE, DENVER DIV.
Microlab
Mullenbach Div.-Electric Machinery Mfg. Co.
Narda Microwave Corp., The
Radolab Inc.
Radar Design Corp.
*RADIO CORP. OF AMERICA
Radio Receptor Co., Inc., Sub.-General Instrument
Corp.
Sierra Electronic Corp., Div.-Philco Corp.
Solar Mfg. Corp.
Spatially Electronics Development Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Stewart & Stevenson Services, Inc.
Tamar Electronics, Inc.
Technical Material Corp., The
Torwico Electronics, Inc.
Wacline, Inc.
Westinghouse Electric Corp
Wickes Engrg. & Construction Co.
Wind Turbine Co.
Winder Aircraft Corp. of Florida

DUPLEXERS

Airtron, Div.-Litton Industries
Bagart Mfg. Corp.
Budelman Electronics Corp.
Central Electronics Mfrs. Div.-Nuclear Corp. of
America
Joe Davidson & Associates
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
FXR, Inc.
General Instrument Corp., Defense & Engrg. Products
Group
John Gombos Co., Inc.
Gorham Electronics Div.-Gorham Mfg. Co.
Hazeltine Electronics Div.-Hazeltine Corp.
*KEARFOTT DIV., GENERAL PRECISION, INC.
*KEARFOTT DIV., GENERAL PRECISION, INC.,
MICROWAVE PRODUCTS
D. S. Kennedy & Co.

Liaco, Inc.
Liton Industries, Inc.
Liton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
***MARTIN CO., THE DENVER DIV.**
Meridian Metalcraft, Inc.
Microwave Associates, Inc.
Motorola, Inc.
Narda Microwave Corp., The
Philco Corp.-Govt. & Industrial Group
Radlab Inc.
Radio Receptor Co., Inc., Sub-General Instrument Corp.
Specialty Electronics Development Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc.
Tober Electronic Corp.
Victor R. F. & Microwave Co.
Waveline, Inc.

DYNAMOMETERS

Bogue Electric Mfg. Co.
Bytrex Corp.
Clayton Mfg. Co.
Consolidated Diesel Electric Corp.
Cosa Corp.
Joe Davidson & Associates
Eaton Mfg. Co.
Flight Support, Inc.
General Electric Co., Apparatus Sales Div.
General Electro-Mechanical Corp.
Hammett-Mercury-Rex Div.
Howe Scale Co., The
L. A. B. Corp.
Lear, Inc.
Magtrol, Inc.
George L. Nankervis Co.
Radio Development & Research Corp.
Reliance Electric & Engrg. Co.
Research, Inc.
Schoeavitz Engrg.
Simpson Electric Co.
Southwest Research Institute
Standard Electric Time Co., The
U. S. Industries, Inc.
Westinghouse Electric Corp.

DYNAMOTORS

Allied International Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Aviation Corp., Montrose Div.
Bogue Electric Mfg. Co.
Carter Motor Co.
Consolidated Diesel Electric Corp.
Ecor Div.-Scranton
Eureka Williams Corp.
General Electric Co., Apparatus Sales Div.
General Instrument Corp., Defense & Engrg. Products Group
Paul E. Gerst & Co.
Gordon Enterprises
Hammett-Mercury-Rex Div.
Hol-Gar Mfg. Corp.
Hoover Electric Co.
IMC Magnetics Corp.
Jack - Heintz, Inc.
Lear, Inc.
Heinz Mueller Eng. Co. Inc.
Radalab Inc.
Radio Development & Research Corp.
Redmond Co., Inc., Sub.-Controls Co. of America
Sangamo Electric Co.
Small Motors Inc.
Talley Corp., The
Task Corp.
Westinghouse Electric Corp.
Wincharger Corp., Sub.-Zenith Radio Corp.

EJECTION SYSTEMS

American Machine & Foundry Co.
American Machine & Foundry Co., Government Products, N. Y.
American Potash & Chemical Corp., National Northern Div.
Armament Div.-Universal Match Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Bermite Powder Co.
A. M. Byers Co.
Chance Vought Aircraft, Inc.
Conax Corp.
Joe Davidson & Associates
Gabriel Co., Rocket Power-Talco
Goodyear Aircraft Corp.
Hardman Tool & Engrg. Co.
Lithium Corp. of America Inc., The Fulton-Irgon Div.
Mc Cormick Selph Associates

Mc Donnell Aircraft Corp.
Mc Lean Development Labs., Inc.
Mechanics Research Div., American Machine & Foundry Co.
Olin Mathieson Chemical Corp., N. Y.
Olin Mathieson Chemical Corp., Winchester-Western Div.
Ordnance Engrg. Associates, Inc.
Ordnance Research & Development Co., Div. Bermite Powder Co.
Pacific Scientific Co.
Pastushin Industries, Inc.
Patterson Moos Research, Div.-Leesona Corp.
Propellex Chemical Div., Chromalloy Corp.
Republic Aviation Corp., Missile Systems Div.
Sargent Engrg. Corp.
Scott Aviation Corp.
Standard Armament Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Temco Aircraft Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Weatherhead Co., The
Weber Aircraft Corp.
Worthington Corp.

ELECTRIC POWER SYSTEMS

Acme Electric Corp.
Air Logistics Corp.
Aircraft Accessory Turbine Dept.-General Electric Co.
Allied International Corp.
Allis-Chalmers
American Rectifier Corp.
Associated Engineers, Inc.
Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Bogue Electric Mfg. Co.
Budd Lewyt Electronics, Inc.
Chance Vought Aircraft, Inc.
Coneloff Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Joe Davidson & Associates
De Havilland Aircraft of Canada, Ltd., Special Products Div.
Fairfield Engrg. Corp.
Food Machinery & Chemical Corp., Ordnance Div.
Fouch Electric Mfg. Co., Inc.
General Electric Co.
General Electric Co., Apparatus Sales Div.
Gearator Corp.
Hallamore Electronics Co., Div.-Siegler Corp.
Hammett-Mercury-Rex Div.
Huyck Systems Co.
International Ferment Machinery Co., Inc.
Leach Corp.
Lear, Inc.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Motoresearch Co.
Mullenbach Div.-Electric Machinery Mfg. Co.
Networks Electronic Corp.
Northwestern Electric Co.
D. W. Onan & Sons Inc.
Pescos Products Div.-Borg-Warner Corp.
Radio Development & Research Corp.
Ready-Power Co., The
Reliance Electric & Engrg. Co.
Schoeavitz Engrg.
Solar Aircraft Co.
Sun Electric Corp., Aeronautical Div.
Sundstrand Turbo
Talley Corp., The
Varo Mfg. Co., Inc.
Vickers, Inc., Mich.
Wallson Associates, Inc.
Wesrep Corp.
Westinghouse Electric Corp.
Winpower Mfg. Co.
Wolverine Diesel Power Co.

ELECTROCARDIOGRAPHS

Birtcher Corp., The
Crescent Engrg. & Research Co.
Dallons Semiconductors, Div.-Dallons Labs.
Enso, Inc.
General Electric Co., X-Ray Dept.
Gulton Industries, Inc.
Offner Electronics Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.

ELECTRONIC COOLING EQUIPMENT

Accessory Products Co., Div.-Textron Inc.
Aeroquip Corp., Jackson Div.
Air Products, Inc.
Allied International Corp.
Amco Engrg. Co.
American Machine & Foundry Co., Government Products, N. Y.

Applied Electronics Corp. of N. J.
Barber-Colman Co.
Bar-Ray Products, Inc.
Benbow Mfg. Corp.
Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Benson Mfg. Co.
Birtcher Corp., The
Budd Lewyt Electronics, Inc.
Cambridge Filter Corp.
Joe Davidson & Associates
Dean & Benson Research, Div.-Benson Mfg. Co.
Dean Products, Inc.
Eastern Industries Inc.
Great Lakes Mfg. Corp.
Griscom-Russell Co., The
Hallcrafters Co., The
Hamilton Standard, Div.-United Aircraft Corp.
Huyck Systems Co.
Induction Heating Corp.
***KEARFOTT DIV., GENERAL PRECISION, INC.**
Kentucky Metal Products Co.
Manning & Lewis Eng. Co.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
Monrovia Aviation Corp.
Nevada Air Products Co.
Northrop Corp.
Nortronic, Div.-Northrop Corp.
On Mark Couplings, Inc.
Pescos Products Div.-Borg-Warner Corp.
Pioneer Industries Div., Almar-York Co. Inc.
Pneumafil Corp.
Radex Corp.
***RADIO CORP. OF AMERICA**
Recony Div.-Vincor Corp.
J. R. Robbins Co.
South Wind Div., Stewart Warner Corp.
Southwest Research Institute
Standard-Thomson Corp., Clifford Mfg. Co. Div.
A. U. Stone & Co., Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Sunshine Scientific Instrument
Talley Corp., The
Task Corp.
United Aircraft Products, Inc.
United Control Corp.
United Mfg. Co., Div., The W. L. Maxson Corp.
Vemaline Products Co.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Waste King Corp., Technical Products Div.
Wells Industries Corp.
Western Devices Inc.
Western Div., Aeroquip Corp.
Westinghouse Electric Corp.
Winder Aircraft Corp. of Florida

ELECTROPLATING EQUIPMENT

Allied Research Products, Inc.
S. Blickman, Inc.
Bogue Electric Mfg. Co.
Dean Products, Inc.
Djeco, Div.-Djordjevic Engrg. Co.
Engelhard Industries, Inc.
Enthone Inc.
Gates Electronic Co.
Hanson-Van Winkle-Munning Co.
Heil Process Equipment Corp.
***MARTIN CO., THE DENVER DIV.**
Metal & Thermit Corp.
George L. Nankervis Co.
Nevada Air Products Co.
Opad Electric Co.
Power Supplies Inc.
Technic Inc.
Udylite Corp., The
Unit Process Assemblies, Inc.
Westinghouse Electric Corp.

ELEMENTS, HEATING

Ackerman-Gould Co., Inc.
Aero Research Instrument Co. Inc.
American Instrument Co. Inc.
Andersen Labs., Inc.
Wallace Barnes Div., Associated Spring Corp.
Blue M Electric Co.
Carborundum Co., The
Carborundum Co., Refractories Div.
Continental Sensing, Inc.
Corning Glass Works
Cox & Co., Inc.
Dean Products, Inc.
Dmeter Mfg. Co.
Wilbur B. Driver Co.
Driver-Harris Co.
Eagle Electric Mfg. Co. Inc.
Electrofilm, Inc.
Fonsteel Metallurgical Corp.

General Electric Co., Lamp Metals & Components Dept.
Global Plant, Refractories Div.-The Carborundum Co.
B. F. Goodrich Aviation Products
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Hammett-Mercury-Rex Div.
Hatway Instruments, Inc.
High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc.
Kanthal Corp., The
Leor, Inc.
Manhattan Lighting Equipment Co., Inc.
Manning & Lewis Eng. Co.
Minco Products, Inc.
Miskella Infra-Red Co., The
Napier Engines Inc.
Nelson Electric Mfg. Co.
Norton Co., New Products Dept.
Piquo Engrg. Inc.
Research, Inc.
Safeway Heat Elements, Inc.
Temperature Engrg. Corp.
Thermionic Products Co.
Thermon Mfg. Co.
H. I. Thompson Fiber Glass Co.
H. W. Tuttle & Co.
Vacuum Specialties Co., Inc.
Waage Electric, Inc.
P. Wall Mfg. Co.
Westinghouse Electric Corp.
Edwin L. Wiegand Co.

ELEMENTS, HEATING, CRYSTAL OVEN

Cox & Co., Inc.
Gardner Laboratory, Inc.
Hammett-Mercury-Rex Div.
High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc.
Palmer Instruments
Research, Inc.
Temperature Engrg. Corp.
Thermionic Products Co.

EMBEDDED ASSEMBLIES

Adept Industries Inc.
Advanced Electronics, Inc.
Airflyte Electronics Co.
Allied Engraving & Stamping Co.
Bacon Industries, Inc.
Carl H. Biggs Co.
California Plastec Inc.
Clevite Oranode, Div.-Clevite Corp.
*COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.
Continental-EmSCO Co., Div.-The Youngstown Sheet & Tube Co.
Control Circuits Inc.
Control Data Corp.
Courier Products, Div.-Model Engrg. & Mfg., Inc.
Dale Products, Inc.
Daven Co., The
Decker Corp., The
*EQUIPMENT DIV., RAYTHEON CO.
Filtron Co., Inc.
Forbes & Wagner, Inc.
Hallett Mfg. Co.
Hatway Instruments, Inc.
Industrial Control Co.
Lockheed Aircraft Corp., Missiles & Space Div.
Lycoming Div., Avco Corp.
*MARTIN CO., THE, DENVER DIV.
James Millen Mfg. Co., Inc.
*MINNESOTA MINING & MFG. CO.
Motorola, Inc.
Mutron Corp.
National Coil Co., Inc.
Norrlich Plastics Corp.
Norrlich Screw Machine Products
Piquo Engrg. Inc.
*RADIO CORP. OF AMERICA
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.
Republic Aviation Corp., Missile Systems Div.
Milton Ross Metals Co., The
*SEMICONDUCTOR DIV., RAYTHEON CO.
Sillicocks-Miller Co.
Sanex, Inc.
Southwestern Industrial Electronics Co.
Telechrome Mfg. Corp.
Telex, Inc.
Topper Mfg. Co., Inc.
Torwico Electronics, Inc.
Trio Laboratories, Inc.
Unison Products, Inc.
Virginia Electronics Co., Inc.
Walkirt Co.
Westinghouse Electric Corp.

EMBEDDED COMPONENTS

Adept Industries Inc.
Airflyte Electronics Co.
Allied Engraving & Stamping Co.
Bacon Industries, Inc.
Carl H. Biggs Co.
*COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.
Continental-EmSCO Co., Div.-The Youngstown Sheet & Tube Co.
Control Circuits Inc.
Control Data Corp.
Corning Glass Works
Dale Products, Inc.
Daven Co., The
Decker Corp., The
Dmeter Mfg. Co.
*EQUIPMENT DIV., RAYTHEON CO.
Filtron Co., Inc.
Fisher Engrg., Inc.
Forbes & Wagner, Inc.
Hallett Mfg. Co.
Hatway Instruments, Inc.
Hydra-Power Corp.
JFD Electronics Corp.
Lockheed Aircraft Corp., Missiles & Space Div.
*MARTIN CO., THE, DENVER DIV.
James Millen Mfg. Co., Inc.
Motorola, Inc.
Mutron Corp.
National Coil Co.
Norrlich Plastics Corp.
Norrlich Screw Machine Products
*RADIO CORP. OF AMERICA
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.
Milton Ross Metals Co., The
*SEMICONDUCTOR DIV., RAYTHEON CO.
Sillicocks-Miller Co.
Southwestern Industrial Electronics Co.
Telechrome Mfg. Corp.
Telex, Inc.
Topper Mfg. Co., Inc.
Torwico Electronics, Inc.
Unison Products, Inc.

ENAMEL, INSULATION

Better Finishes & Coatings Inc.
Dow Corning Corp.
E. I. Du Pont de Nemours & Co. Inc.
Food Machinery & Chemical Corp.-Epoxy Dept.
General Plastics Corp.
Insulation Mrs. Corp.
Kanthal Corp., The
Midland Industrial Finishes Co.
Midland Paint & Varnish Co., The
Polymer Corp., The
Scheneclady Varnish Co., Inc.
Westinghouse Electric Corp., Micarta Div.

ENCLOSURES, DUST

A&P Metal Products Mfg. Corp.
Baker Co., Inc., The
Beacon Steel Corp.
Brooks & Perkins, Inc.
Fouch Electric Mfg. Co., Inc.
Irving Air Chute Co., Inc.
Kirk & Blum Mfg. Co., The
*MARTIN CO., THE, DENVER DIV.
Premier Metal Products Co.
REF Mfg. Corp.
Edw. Renneburg & Sons Co.
Rimak, Inc.
Secco
Specialties, Inc.
Telkor, Inc.
Textstar Plastics, Div.-The Textstar Corp.
Unified Industries, Inc.
Weber Aircraft Corp.

ENERGY CONVERSION DEVICES

Aircraft Accessory Turbine Dept.-General Electric Co.
Allison Div., General Motors Corp.
American Machine & Foundry Co.
Bendix Aviation Corp.
Blonder-Tongue Labs. Inc., Special Products Div.
Broadview Research Corp.
Budd Lewyt Electronics, Inc.
Consolidated Diesel Electric Corp.
Daven Co., The
De Havilland Aircraft of Canada, Ltd., Special Products Div.
General Electric Co., Missile & Space Vehicle Dept., Pa.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Lithium Corp. of America Inc., The Fulton-Irgon Div.

Lockheed Aircraft Corp., Missiles & Space Div.
*MINNESOTA MINING & MFG. CO.
National Scientific Labs., Inc.
Olin Mathieson Chemical Corp., N. Y.
Otis Elevator Co., Defense & Industrial Div.
Patterson Moos Research, Div.-Leesona Corp.
Pescos Products Div.-Borg-Warner Corp.
Piasecki Aircraft Corp.
Rocketyne Div.-North American Aviation, Inc.
Semi-Elements, Inc.
Servomechanisms Inc.
Southwest Research Institute
Stratos, Div.-Fairchild Engine & Airplane Corp.
Sundstrand Turbo
Tapco Group, Thompson Ramo Wooldridge Inc.
Thiokol Chemical Corp., Hunter-Bristol Div.
Thompson Ramo Wooldridge Inc.
U. S. Sonics Corp.
Varo Mfg. Co., Inc.
Vickers Inc., Div.-Sperry Rand
Westinghouse Electric Corp.

ENGINE CONVERSION MATERIALS

Aircraft Accessory Turbine Dept.-General Electric Co.
Blonder-Tongue Labs. Inc., Special Products Div.
Broadview Research Corp.
Corning Glass Works
Food Machinery & Chemical Corp.-Epoxy Dept.
General Electric Co., Missile & Space Vehicle Dept., Pa.
Lockheed Aircraft Corp., Missiles & Space Div.
*MINNESOTA MINING & MFG. CO.
Monsanto Chemical Co.
NUMEC-Nuclear Materials & Equipment Corp.
Semi-Elements, Inc.
Servomechanisms, Inc.
U. S. Sonics Corp.
Var-lac-Oid Chemical Co.

ENGINE ACCESSORIES & COMPONENTS

Accessory Products Co., Div.-Textron Inc.
Aero Mfg. & Mach. Co., Inc.
Aero Supply Mfg. Inc.
Aerogrip Corp., Jackson Div.
Aircraft Accessory Turbine Dept.-General Electric Co.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Allied International Corp.
Allison Div., General Motors Corp.
American Machine & Foundry Co., Government Products, N. Y.
American Standard Products, Inc.
Arde-Portland, Inc.
Automatic Switch Co.
B. H. Aircraft Co., Inc.
Bendix Aviation Corp.
*BENDIX AVIATION CORP., HAMILTON DIV.
Bendix Aviation Corp., Monrose Div.
Bendix Filter Div., Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bendix Utica Div., Bendix Aviation Corp.
Berno Engrg. Corp.
California Stamping & Mfg. Co.
Capital City Mfg. Co., Inc.
Carson Mach & Supply Co.
Caterpillar Tractor Co., Defense Products Dept.
Components Corp.
Conox Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Delavan Mfg. Co.
Delta Corp.
Dunbar-Kapelle Inc.-Aircraft Components Div.
Dynamic Controls Corp.
Emhart Mfg. Co., Maxim Div.
Ex-Cell-O Corp.
Garwin, Inc.
General Laboratory Associates, Inc.
B. H. Hadley, Inc.
Hallett Mfg. Co.
Hamilton Standard, Div.-United Aircraft Corp.
A. W. Hoydon Co., The
Hoelner Corp.
Holley Carburetor Co.
Hoover Electric Co.
Houston Instrument Corp.
Hydra-Power Corp.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kerns Mfg. Corp.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc.
Laminated Shim Co., Inc.
Leor, Inc.
Leece-Neville Co., The
*WALLACE O. LEONARD, INC.

Lithium Corp. of America Inc., The Fulton-Irgon Div.
Lycoming Div., Avco Corp.
Marmon Div., Aeroquip Corp.
J. E. Menough Co.
National Water Lift Co., Div.-Cleveland Pneumatic
Industries Inc.
On Mark Couplings, Inc.
Parker-Hannifin Corp.
Parts Engrg. Co., Inc.
Pegasus Lab., Inc.
Pesco Products Div.-Borg-Warner Corp.
Phoenix Products Co.
Pneu-Hydro Valve Corp.
Portland Copper & Tank Works Inc.
Revere Corp. of America, Sub., Neptune Meter Co.
Rocketdyne Div.-North American Aviation, Inc.
Ronson Hydraulic Units Corp.
Sargent Engr. Corp.
Servicair Co.
Servomechanisms, Inc.
Simmonds Aerocessories, Inc.
Solar Aircraft Co.
Southwest Products Co.
Southwest Research Institute
Sauers Gage Co.
A. U. Stone & Co., Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Teleflex Inc.
Thompson Ramo Wooldridge Inc.
Tube-Turns Div., Chemetron Corp.
United Aircraft Products, Inc.
Van der Horst Corp. of America
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Western Design, Div.-U.S. Industries, Inc.
Western Div., Aeroquip Corp.
Westinghouse Electric Corp

ENGINE CONTROL SYSTEMS

Aero Supply Mfg. Inc.
*AEROJET-GENERAL CORP.
Aerona Mfg. Corp.-Aerospace Div.
Airborne Accessories Corp.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Allison Div., General Motors Corp.
American Machine & Foundry Co., Government
Products, N. Y.
Avien, Inc.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.
Bernco Engrg. Corp.
Budd Lewyt Electronics, Inc.
Capital City Mfg. Co., Inc.
Chance Vought Aircraft, Inc.
Consolidated Airborne Systems, Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Designers for Industry, Inc.
Eastern Industries Inc.
Ex-Cell-O Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane
Corp.
B. H. Hadley, Inc.
Hamilton Standard Div.-United Aircraft Corp.
Hoefner Corp.
Holley Carburetor Co.
Hoover Electric Co.
Hughes Tool Co., Aircraft Div.
Hydraulic Research & Mfg. Co.
Kollsman Instrument Corp., Sub.-Standard Coil Pro-
ducts Co., Inc.
Leach Corp.
Lear, Inc.
*WALLACE O. LEONARD, INC.
Lycoming Div., Avco Corp.
*MARTIN CO., THE, DENVER DIV.
Napier Engines Inc.
National Water Lift Co., Div.-Cleveland Pneumatic
Industries Inc.
Parker-Hannifin Corp.
Pegasus Labs., Inc.
Pitometer Log Corp.
Rocketdyne Div.-North American Aviation, Inc.
Servomechanisms, Inc.
Simmonds Aerocessories, Inc.
Solar Aircraft Co.
Southwest Products Co.
Southwest Research Institute
Southwestern Industrial Electronics Co.
Tapco Group, Thompson Ramo Wooldridge Inc.
Temco Aircraft Corp.
Thompson Ramo Wooldridge Inc.
United Aircraft Products, Inc.
Varo Mfg. Co., Inc.
Vickers, Inc., Mich.
Western Gear Corp.-Precision Products Div.

Westinghouse Electric Corp.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.

ENGINE CONTROL SYSTEMS, AUTOMATIC

*AC SPARK PLUG, THE ELECTRONICS DIV.-
GENERAL MOTORS
*AEROJET-GENERAL CORP.
Aerona Mfg. Corp.-Aerospace Div.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE GARRETT +
CORP.
Allison Div., General Motors Corp.
American Machine & Foundry Co., Government Pro-
ducts, N. Y.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.
Bendix Utica Div., Bendix Aviation Corp.
Bergen Labs., Inc.
Budd Lewyt Electronics, Inc.
Capital City Mfg. Co., Inc.
Carson Mach & Supply Co.
Consolidated Airborne Systems, Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Designers for Industry, Inc.
Fairchild Astrionics Div., Fairchild Engine & Airplane
Corp.
B. H. Hadley, Inc.
Hallamore Electronics Co., Div.-Sieglor Corp.
Hamilton Standard, Div.-United Aircraft Corp.
Hoefner Corp.
Holley Carburetor Co.
Hoover Electric Co.
Jeta, Inc.
Lab. for Electronics, Inc.
Leach Corp.
Lear, Inc.
*MARTIN CO., THE, DENVER DIV.
Micro Gee Products, Inc.
Minneapolis-Honeywell Regulator Co., Missile Equip-
ment Div.
Napier Engines Inc.
Pegasus Labs., Inc.
Pitometer Log Corp.
Ready-Power Co., The
Rocketdyne Div.-North American Aviation, Inc.
Simmonds Aerocessories, Inc.
Singer Military Products Div.-The Singer Mfg. Co.
Southwest Research Institute
Southwestern Industrial Electronics Co.
Sun Electric Corp., Aeronautical Div.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
United Electric Controls Co.
Varo Mfg. Co., Inc.
Westinghouse Electric Corp.

ENGINE CONTROLS, MECHANICAL & VACUUM

*AC SPARK PLUG, THE ELECTRONICS DIV.-
GENERAL MOTORS
Accessory Products Co., Div.-Textron Inc.
Aero Supply Mfg. Inc.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE GARRETT
CORP.
Allison Div., General Motors Corp.
American Machine & Foundry Co., Government Pro-
ducts, N. Y.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.
Budd Lewyt Electronics, Inc.
Capital City Mfg. Co., Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Custom Component Switches Inc.
Designers for Industry, Inc.
Garwin, Inc.
B. H. Hadley, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Hoefner Corp.
Holley Carburetor Co.
Hoover Electric Co.
*MARTIN CO., THE, DENVER DIV.
Napier Engines Inc.
Ronson Hydraulic Units Corp.
Sargent Engr. Corp.
Summers Gyroscope Co.
Sun Electric Corp., Aeronautical Div.
Teleflex Inc.
Temco Aircraft Corp.
United Electric Controls Co.
Western Gear Corp.-Precision Products Div.

ENGINE STARTING SYSTEMS & CONTROLS, GAS TURBINE ENGINE

*AC SPARK PLUG, THE ELECTRONICS DIV.-
GENERAL MOTORS
Accessory Controls & Equipment Corp.
Aircraft Accessory Turbine Dept.-General
Electric Co.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE GARRETT
CORP.
Allied International Corp.
Allison Div., General Motors Corp.
American Machine & Foundry Co., Government Pro-
ducts N. Y.
American Potash & Chemical Corp., National
Northern Div.
Arde-Portland, Inc.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.
Bendix Utica Div., Bendix Aviation Corp.
Breeze Corporations, Inc.
Capital City Mfg. Co., Inc.
Conax Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Cornelius Co., The. Aero Div.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Dynamic Controls Corp.
Gobriel Co., Rocket Power-Talco
General Electric Co.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
A. W. Hayden Co., The
Hoefner Corp.
Hol-Gar Mfg. Corp.
Holley Carburetor Co.
Jack & Heintz, Inc.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Lear Inc.
*MARTIN CO., THE, DENVER DIV.
Northrop Corp.
On Mark Couplings, Inc.
Pesco Products Div.-Borg-Warner Corp.
Rocketdyne Div.-North American Aviation Inc.
Solar Aircraft Co.
Southwestern Industrial Electronics Co.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Sundstrand Turbo
Varo Mfg. Co., Inc.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Wells Industries Corp.
Westinghouse Electric Corp.
Whitton Machine Co., The

ENGINES

- a. Auxiliary Jet
- b. Auxiliary Rocket
- c. Diesel
- d. Gas Turbine
- e. Nuclear Rocket
- f. Nuclear Turbine
- g. Pulse Jet
- h. Ramjet
- i. Rocket Liquid
- j. Rocket, Solid

*AEROJET-GENERAL CORP., b, i, j
Aircraft Accessory Turbine Dept.-General Electric
Co., d.
*AIRESEARCH MFG. OF ARIZONA, a, d, f, g.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT
CORP., d.
Allied International Corp., d.
Allis-Chalmers, c.
Allison Div., General Motors Corp., a, b, d, f thru j.
Amel Propulsion Inc., j.
American Car & Foundry Div., ACF Industries, Inc., j.
American Potash & Chemical Corp., National
Northern Div., h, i, j.
American Rocket Co., b, i, j.
Anderson, Greenwood & Co., h.
Arde-Portland, Inc., h, j.
Bell Aircraft Corp., Niagara Frontier Div., b, e, j.
Bermite Powder Co., a, b, g thru j.
A. M. Byers Co., b, c, e, i, j.
Caterpillar Tractor Co., Defense Products Dept., c, d.
Caterpillar Tractor Co., Engine Div., c.
Caterpillar Tractor Co., Industrial Engine Plant, c.
Clark Bros. Co., Div.-Dresser Operations, Inc., d, f.
Continental Aviation & Engrg. Corp., a, c, d, h.
Continental Motors Corp., c.
Cummins Engine Co., Inc., c.
Curtiss-Wright Corp., Santa Barbara Div., d.
Curtiss-Wright Corp., Wright Aeronautical Div., a, b,
d, h, i, j.
Delta Corp., a, b, d thru j.
Detroit Diesel Engine Div.-General Motors Corp., c.
*ECCO DEVELOPMENTS, Inc., i, j.

Falcon Machine & Tool Co., a, d.
 Gabriel Co., Rocket Power-Talco, b, j.
 General Electric Co., Apparatus Sales Div., d.
 General Electric Co., Rocket Engine Section, i, j.
 Giddings & Lewis Machine Tool Co., i, j.
 B. F. Goodrich Aviation Products, j.
 Grand Central Rocket Co., b, j.
 Guided Missile Div., The Firestone Tire & Rubber Co., i.
 Hahn & Clay, j.
 Harnischfeger Corp., P&H Diesel Engine Div., c.
 Hercules Powder Co., Chemical Propulsion Div., b, j.
 ITE Circuit Breaker Co., Special Products Div., a, b, d.
 International Ferromont Machinery Co., Inc., c.
 Kaiser Fleetwings, Inc., a, b, e, h, i, j.
 Lear, Inc., a, d.
 Lithium Corp. of America Inc., The Fulton-Irgon Div., i, j.
 Lockheed Aircraft Corp., Missiles & Space Div., i, j.
 Lycoming Div., Avco Corp., a, b, d, h, j.
 Marquardt Corp., The, b, e, g, thru j.
 *MARTIN CO., THE, DENVER DIV., a, b, i, j.
 Mc Cormick Selph Associates, j.
 Mc Dannel Aircraft Corp., h.
 Mc Gregor Mfg. Corp., d.
 Mechanics Research Div., American Machine & Foundry Co., j.
 Napier Engines Inc., a, c, d, h, i.
 Nordberg Mfg. Co., c.
 Norris-Thermador Corp., j.
 Olin Mathieson Chemical Corp., N. Y., j.
 D. W. Onan & Sons Inc., c.
 Ordnance Research & Development Co., Div.-Bermite Powder Co., a, b, g, thru j.
 Pemco Inc., i.
 Pratt & Whitney Aircraft Div., United Aircraft Corp., d, i, j.
 Pressed Steel Tank Co., a, b, j.
 Propallex Chemical Div., Chromalloy Corp., b, j.
 Reaction Motors Div., Thiokol Chem. Corp., b, i.
 Rocketdyne Div.-North American Aviation, Inc., b, e, i, j.
 Salar Aircraft Co., d.
 Solid Propulsion Ops., Rocketdyne Div., North American Aviation, b, j.
 Southwest Research Institute, c, d, j.
 Stewart & Stevenson Services, Inc., c.
 Sundstrand Turbo, a, b.
 Tapco Group, Thompson Ramo Wooldridge Inc., d.
 Thiokol Chemical Corp., Redstone Div., b, j.
 Thompson Ramo Wooldridge Inc., Div., d.
 Van der Horst Corp. of America, c.
 Westhall Mfg. Inc., b.
 Westhall Mfg. Inc., b.
 Westinghouse Electric Corp., e, f.
 Whittan Machine Co., The, d.
 Wolverine Diesel Power Co., c.
 Young Development Div., Hercules Powder Co., b, j.

EXCITERS, FIELD

Joe Davidson & Associates
 Electric Machinery Mfg. Co.
 Fairfield Engr. Corp.
 General Devices, Inc.
 General Electric Co., Apparatus Sales Div.
 Hammett-Mercury-Rex Div.
 Lear, Inc.
 Leeco-Neville Co., The
 MB Electronics
 Radio Development & Research Corp.
 Westinghouse Electric Corp.

EXHAUST

- a. Ducts
- b. Heat Exchangers
- c. Muffs
- d. Stacks
- e. Systems

All American Engr. Co., a.
 Allied International Corp., b, e.
 Allied Witan Co. Inc., c, e.
 American Agile Corp., a, b, d, e.
 American Tube Bending Co., Inc., b.
 Anaconda Metal Hose Div., The American Brass Co., a.
 Arde-Portland, Inc., a.
 Associated Co., Inc., a, thru e.
 B. H. Aircraft Co., Inc., a, d, e.
 Basic Tool Industries, Inc., a.
 Cyril Bath Co., The, a.
 Benson Mfg. Co., a.
 Bethlehem Steel Co., a, d.
 S. Blickman, Inc., a, thru e.
 Blowers Inc., a, e.
 A. M. Byers Co., b, d, e.
 Calcor Corp., a, thru e.
 California Aircraft Products, a, b.
 California Stamping & Mfg. Co., a, thru e.
 Capital City Mfg. Co., Inc., a.

Carson Mach & Supply Co., c.
 Cobra Metal Hose Div. DK Mfg. Co., a, c, d, e.
 Colonial Aircraft Corp., a, thru e.
 Corning Glass Works, b.
 Crane Co., Special Products Div., a, c, d.
 Cromer Mfg. & Engr. Inc., a, d.
 Curtiss-Wright Corp.-Wright Aeronautical Div., a.
 Delta Corp., a, d.
 Dunbar-Kappale Inc.-Aircraft Components Div., a, b.
 Dyna-Therm Chemical Corp., a, d.
 Emhart Mfg. Co., Maxim Div., b, e.
 Fansteel Metallurgical Corp., a.
 Fibercraft, Inc., a.
 Flexonics Corp., a.
 Grisco-Russell Co., The, b.
 Hanlon & Wilson Co., The, a, thru e.
 Heil Process Equipment Corp., a, d, e.
 Herlo Corp., a, thru e.
 Highland Engr. Co., b.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP., a, b, e.
 Industrial Acoustics Co., Inc., a, c, d, e.
 Janitrol Aircraft Div.-Midland-Ross Corp., b.
 Janke & Co. Inc., a, d, e.
 Kaiser Fleetwings, Inc., a, b, d.
 C. B. Kaupp & Sons, Inc., a.
 Kerns Mfg. Corp., a, b.
 Kirk & Blum Mfg. Co., The, a, d, e.
 Kalcast Industries-Div.-Thompson Ramo Wooldridge Inc., a.
 Koppers Co., Inc., Metal Products Div., c, d.
 *LAVELLE AIRCRAFT CORP., a, c.
 Le Fiell Mfg. Co., a.
 Manning & Lewis Eng. Co., b.
 *MARTIN CO., THE, DENVER DIV., a, b, e.
 Mc Gregor Mfg. Corp., a, b, d, e.
 Mead Specialties Co., Inc., c.
 Narmco Mfg. Co., a.
 Northeast Metals Industries, Inc., a.
 Opelika Welding, Machine & Supply Inc., b, d.
 Parts Engr. Co., Inc., a.
 Pastushin Industries, Inc., a, thru d.
 Penn-Michigan Mfg. Corp., d, e.
 Phoenix Products Co., a, b.
 Portland Copper & Tank Works Inc., a, thru e.
 Edw. Renneburg & Sons Co., a, c, d, e.
 Republic Aviation Corp., Missile Systems Div., a.
 J. R. Robbins Co., a.
 Salar Aircraft Co., a, thru e.
 South Wind Div., Stewart Warner Corp., a, b.
 Southwest Research Institute, a, thru e.
 Spaceatoms Div., The Budd Co., a.
 Sun Electric Corp., Aeronautical Div., b.
 T. O. D. Mfg. Co. Inc., a.
 Textstar Plastics, Div.-The Textstar Corp., a.
 Thermionic Aeronautical Div., a, b.
 Thermoid Div.-H.K. Porter Co., Inc., a, thru e.
 Therman Mfg. Co., a, d.
 Tarit Mfg. Co., e.
 Twin Coach Co., Aircraft-Missiles, a, b, e.
 United Aircraft Products, Inc., b.
 United States Chemical Milling Corp., a.
 Vac-Hyd Processing Corp., b.
 Veeco Vacuum Corp., e.
 Westhall Mfg. Inc., a, d.
 Whitlock Mfg. Co., The, b.
 Winder Aircraft Corp. of Florida, a, e.
 Wolverine Diesel Power Co., a, thru e.
 Woolf Aircraft Products, Inc., a, d.
 York Div., Borg-Warner Corp., b.

EXHAUST ASSEMBLIES

American Tube Bending Co., Inc.
 Anaconda Metal Hose Div., The American Brass Co.
 Associated Co., Inc.
 Associated Engr. & Mfg. Corp.
 B. H. Aircraft Co., Inc.
 S. Blickman, Inc.
 A. M. Byers Co.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Cobra Metal Hose Div. DK Mfg. Co.
 Colonial Aircraft Corp.
 Crane Co., Special Products Div.
 Delta Corp.
 Douglas Aircraft Co., Inc.
 Dunbar-Kappale Inc.-Aircraft Components Div.
 Ex-Cell-O Corp.
 Fibercraft, Inc.
 Hanlon & Wilson Co., The
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
 ITE Circuit Breaker Co., Special Products Div.
 Kaiser Fleetwings, Inc.
 Kelsey-Hayes Co.
 Lycoming Div., Avco Corp.
 Marquardt Corp., The
 Mc Gregor Mfg. Corp.
 *MINNESOTA MINING & MFG. CO.
 Penn-Michigan Mfg. Corp.

Portland Copper & Tank Works Inc.
 Pressed Steel Tank Co.
 Edw. Renneburg & Sons Co.
 Rimak, Inc.
 Salar Aircraft Co.
 Stamping Div., Rockwell Standard Corp.
 Temco Aircraft Corp.
 Thermionic Aeronautical Div.
 United Aircraft Products, Inc.
 Veeco Vacuum Corp.
 Wolverine Diesel Power Co.
 Woolf Aircraft Products, Inc.

EXHAUST CONES, GAS TURBINE ENGINE

Allison Div., General Motors Corp.
 American Welding & Mfg. Co., The
 B. H. Aircraft Co., Inc.
 S. Blickman, Inc.
 Calcor Corp.
 California Aircraft Products
 California Stamping & Mfg. Co.
 Carson Mach & Supply Co.
 Colonial Aircraft Corp.
 Crane Co., Special Products Div.
 Curtiss-Wright Corp.-Wright Aeronautical Div.
 Delta Corp.
 Douglas Aircraft Co., Inc.
 Hanlon & Wilson Co., The
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
 ITE Circuit Breaker Co., Special Products Div.
 C. B. Kaupp & Sons, Inc.
 Kelsey-Hayes Co.
 Kentucky Metal Products Co.
 Kalcast Industries-Div.-Thompson Ramo Wooldridge Inc.
 Ladish Co.
 *LAVELLE AIRCRAFT CORP.
 Lycoming Div., Avco Corp.
 Mc Gregor Mfg. Corp.
 Napier Engines Inc.
 Northeast Metals Industries, Inc.
 Pastushin Industries, Inc.
 Portland Copper & Tank Works Inc.
 Edw. Renneburg & Sons Co.
 Salar Aircraft Co.
 Stalker Corp., The
 Thermionic Aeronautical Div.
 C. W. Torngren Co., Inc.
 Young Development Div., Hercules Powder Co.

EXTENSIONS, SHAFT

Acme Industrial Co.
 Amatorm Electronic Hardware Co. Inc.
 Birmbach Radio Co., Inc.
 A. M. Byers Co.
 Capital City Mfg. Co., Inc.
 Cobra Metal Hose Div. DK Mfg. Co.
 Continental-Emsco Co., Div.-The Youngstown Sheet & Tube Co.
 Jan Hardware Mfg. Co., Inc.
 James Millen Mfg. Co., Inc.
 Piasecki Aircraft Corp.
 Edw. Renneburg & Sons Co.
 Tube-Turns Div., Chemetron Corp.

EXTRUSIONS, METALLIC

Adam Metal Supply Inc.
 Aera Mfg. & Mach. Co., Inc.
 Allied Products Corp.
 Aluminum Co. of America
 American Brass Co., The
 Ampco Metal, Inc.
 Cyril Bath Co., The
 Bohn Aluminum & Brass Corp.
 Bridgeport Brass Co.
 A. M. Byers Co.
 Calincy-Div.-Illinois Tool Works
 Cincinnati Milling Machine Co., The
 Craname Inc.
 Curtiss-Wright Corp., Metals Processing Div.
 Division Lead Co.
 Daw Chemical Co., The
 Fansteel Metallurgical Corp.
 Fruehauf Trailer Co., Military Equipment Div.
 H. M. Harper Co.
 Harvey Aluminum
 Huntington Alloy Products Div.-The International Nickel Co., Inc.
 Kaiser Aluminum & Chemical Sales, Inc.
 Kling Metal Spinning & Stamping Co.
 Kwikset Powdered Metal Products
 Ladish Co.
 Le Fiell Mfg. Co.
 NUMEC-Nuclear Materials & Equipment Corp.
 National Tube Div., United States Steel Corp.
 Northrop Corp.
 Olin Mathieson Chemical Corp.-Metals Div.
 Olin Mathieson Chemical Corp., N. Y.

Phelps Dodge Copper Products Corp.
Pressed Steel Tank Co.
REF Mfg. Corp.
Republic Steel Corp.
Revere Copper & Brass Inc.
Reynolds Metals Co.
Joseph T. Ryerson & Son, Inc.
Stamping Div., Rockwell Standard Corp.
Texas Instruments Inc.
Tube-Turns Div., Chemetron Corp.

EXTRUSIONS, NON-METALLIC

American Agile Corp.
American latex Products Corp.
Anchor Plastics Co., Inc.
Auburn Mfg. Co., The
Borden Chemical Co.
A. M. Byers Co.
Colinay Div., Illinois Tool Works
Chemplast, Inc.
Connecticut Hard Rubber Co., The
Continental Rubber Works
Fluorocarbon Co., The
Jennings Machine Corp.
M & Q Plastic Products
*MINNESOTA MINING & MFG. CO.
NUMEC-Nuclear Materials & Equipment Corp.
National Beryllia Corp.
National Vulcanized Fibre Co.
Natar Corp.
New England Tape Co., Div.-United-Carr Fastener Corp.
Northrop Corp.
Norton Co., New Products Dept.
Polymer Corp., The
Raybestos-Manhattan, Inc.
Reeves Brothers, Inc.
Resistalox Corp.
Fred T. Roberts & Co.
Rubbercraft Corp. of California
Swan Rubber Co.
Taylor Electric Inc.
United States Rubber Co.
Westinghouse Electric Corp., Micarta Div.
Yardley Plastics Co.
Zirconium Corp. of America

EYELETS

Abbot Screw & Mfg. Co.
Amatom Electronic Hardware Co. Inc.
American Brass Co., The
Atlas Tack Corp.
J. Bishop & Co., Platinum Works
California Stamping & Mfg. Co.
Eyelet Tool Co. Inc.
Federal Screw Products Inc.
Gemex Corp., The, Indsl. Div.
Jama Inc.
Narrich Screw Machine Products
Ohlson Empire Inc.
Revere Copper & Brass Inc.
Scovill Mfg. Co.
C. Sjoberg & Son
Stevens Co. Inc.
F. M. Stevenson Co., Inc.
Thor Ceramics, Inc.
United Shoe Machinery Corp.
United Supply Co.
Vector Electronic Co., Inc.

FABRIC

Aero Leather Products Co.
Aviation Textile Associates
Carborundum Co., The
Connecticut Hard Rubber Co., The
Corda Chemical Corp.
C. R. Daniels, Inc.
E. I. Du Pont de Nemours & Co. Inc.
Duracote Corp.
Flightex Fabrics Inc.
Kentucky Metal Products Co.
*MINNESOTA MINING & MFG. CO.
Reeves Brothers, Inc.
Reeves Bros. Inc., Vulcan Rubber Div.
Russell Mfg. Co.
Sawyer Coated Fabrics, Div.-Farrington Texol Corp.
F. M. Stevenson Co., Inc.
Swift Textile Metalizing & Laminating Corp.
E. F. Timme & Son Inc.
Uniform Hood Lace Co.
Union Asbestos & Rubber Co.
United States Rubber Co.

FABRICATORS, POWDERED METAL PARTS

Aluminum Co. of America
American Brake Shoe Co.
Bendix Filter Div., Bendix Aviation Corp.
J. Bishop & Co., Platinum Works
Bram Metallurgical Chemical Co.

Capital City Mfg. Co., Inc.
Custom Tool & Mfg. Co.
Engelhard Industries, Inc.
General Electric Co., Lamp Metals & Components Dept.
Hughes Tool Co., Aircraft Div.
Kerns Mfg. Corp.
Motorola, Inc.
NUMEC-Nuclear Materials & Equipment Corp.
Quartzite Processing Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Raybestos-Manhattan, Inc.
Rimac, Inc.
St. Marys Carbon Co.
Sylvania-Corning Nuclear Corp.
T. O. D. Mfg. Co., Inc.
Torrington Co., The
S. K. Wellman Co., The
Westinghouse Electric Corp.
Winder Aircraft Corp. of Florida

FANS

*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.

American Agile Corp.
American Standard Industrial Div.
Benson Mfg. Co.
Bud Rodia, Inc.
Coppus Engrg. Corp.
Joe Davidson & Associates
Dean & Benson Research, Div.-Benson Mfg. Co.
Diehl Mfg. Co.
Dynamic Air Engrg., Inc.
Eastern Rotacraft Corp.
Garden City Fan & Blower Co.
George E. Harris & Co., Inc.
Heil Process Equipment Corp.
A. F. Halden Co., The
ILG Electric Ventilating Co.
IMC Magnetics Corp.
Jarvis Corp.
Jay Mfg. Co.
Koppers Co., Inc., Metal Products Div.
Leair, Inc.
Manco Corp.
Manhattan Lighting Equipment Co., Inc.
Mc Lean Engrg. Laboratories
Heinz Mueller Eng. Co. Inc.
Nevada Air Products Co.
Northeast Metals Industries, Inc.
Peerless Electric Div.-H. K. Parter Co., Inc.
Pesca Products Div.-Barg-Warner Corp.
J. R. Robbins Co.
Ratran Mfg. Co.
Task Corp.
Torrington Mfg. Co. Inc., The, Specialty Blower Div.

FASTENERS

- a. Blind
- b. Cawl
- c. Self-Locking
- d. Slide
- e. Snap

AVDEL, a, c.
Abbott Screw & Mfg. Co., c, d, e.
Aero Bolt & Screw Co., Inc., c.
Aero Spares, Inc., a, c, d, e.
Aero-Stat Co., The
Airhardware, Inc., a thru e.
All Specs Corp., c.
Almetal Screw Products Co., Inc.
Aluminum Co. of America
American Standard Products, Inc., a thru e.
Anti-Corrosive Metal Products Co., Inc.
Autoscrew Co., Inc.
Aviation Textile Associates, c.
Avnet Corp., c.
Wallace Barnes Div. Associated Spring Corp., a thru e.
Best Aircraft Corp., c, e.
Bethlehem Steel Co.
Boats Aircraft Nut Corp., a, c.
C. E. M. Co., Inc. c.
California Stamping & Mfg. Co., b.
Colinay Div., Illinois Tool Works, a thru e.
Comcar Screw & Mfg. Co., Div.-Textron Industries, Inc.
Comlac Fastener Corp., b, c.
Capewell Mfg. Co., d.
Carr Fastener Co., Div.-United-Carr Fastener Corp., a, b, c, e.
Central Screw Co., c.
Chase Brass & Copper Co., Inc., c.
Cherry Rivet Div.-Townsend Co., a, c.
Chicago Screw Co., The, Div.-Standard Screw Co., c.
Conmar Products Corp., d.
Continental Screw Co., c.
Deiron Co., Inc., The, c.
Deringer Metallurgical Corp.

Deutsch Co., The, Electronic Components Div., a, c, e.
Deutsch Fastener Corp., a, c, e.
Dill Mfg. Co., The, a.
Dimca-Gray Co., c.
R.C. Dudek & Co., a, c.
Dulack, Inc. c.
Dzus Fastener Co., Inc., b, c.
Eaton Mfg. Co., Reliance Div.
Elastic Stop Nut Corp. of America, a, c.
Federal Screw Products Inc.
General American Transportation Corp.
General Tire & Rubber Co., The, Industrial Products Div., a, c.
B. F. Goodrich Aviation Products, a, d.
Gries Reproducer Corp.
Groov-Pin Corp., c.
H. M. Harper Co.
Harford Machine Screw Co., Div.-Standard Screw Co.
Hartwell Aviation Supply Co., b, c, e.
Hell-Call Corp., a, c.
Hi-Shear Rivet Tool Co., a, c.
Huck Mfg. Co., a, c.
Walter K. Jaras Aircrafters, a thru e.
Keystone Bolt & Nut Corp., a, c.
Klincher Locknut Corp., c.
Lion Fastener Co., Inc., b, c.
*MARTIN CO., THE, DENVER DIV., c.
Mercury Air Parts Co., Inc., c.
Maran JCo., c.
J. I. Morris Co., c.
Napier Engines Inc., b.
National Screw & Mfg. Co., The, a, c.
Nelson Stud Welding Div.-Gregary Industries, Inc., e.
Nyllok Corp., The, c.
Ohlson Empire Inc., a thru e.
Olympic Screw & Rivet Corp., a.
Pastushin Industries, Inc., b.
Prestale Corp., c.
D. W. Price Corp., c.
Ravenna Metal Products, Div.-Standard Screw Co.
Republic Steel Corp., c.
Rason, Inc., a, c.
Scovill Mfg. Co., b, d, e.
Screw Corp.
J. H. Sessions & Son b.
Shur-Lok Corp., a, c.
Simmonds Aeroaccessories, Inc., b.
Simmons Fastener Corp., a thru d.
Southco Div., South Chester Corp., a, b, c.
Standard Pressed Steel Co., a, c.
Stanley-Judd Div.-The Stanley Works, a thru e.
Star Stainless Screw Co., c.
Talon, Inc., d.
Thomson, Judson I.
Tinnerman Products, Inc., a, b, c.
Townsend Co., Cherry Rivet Div., a, c.
United Shoe Machinery Corp., a.
United States Chemical Milling Corp., b.
United Supply Co.,
Velcro Sales Corp., c.
Vlier Engrg. Corp., e.
Vai-Shan Mfg. Co., Div.-Vai-Shan Industries, Inc., a, b, c.
Waldes Kohnoor, Inc., a thru e.
Waldick Engrg. Co., a, c, e.
Western Sky Industries, c.
Zippertubing Co., The, c.

FEED SYSTEMS

Ainslie Corp.
Airttron, Div.-Littion Industries
Diamond Antenna & Microwave Corp.
Dynatronics, Inc.
Eyelet Tool Co. Inc.
Gorham Electronics Div.-Gorham Mfg. Co.
Guidance Controls Corp.
Leair, Inc.
Ordnance Research & Development Co., Div.-Bermite Power Co.
Pegasus Labs, Inc.
Edw. Renneburg & Sons Co.
Southwest Research Institute
Wallace & Tiernan, Inc.

FELT & FELT PARTS

Aero Leather Products Co.
American Felt Co.
Anchor Fence Div.-Anchor Post Products, Inc.
Anchor Packing Co., The
Armstrong Cork Co.
Auburn Mfg. Co., The
Aviation Textile Associates
Commonwealth Felt Co.
Continental Felt Co.
C. R. Daniels, Inc.
Felters Co., The
Gasket Mfg. Co. Inc.
General Gasket Inc.
General Plastics Corp.

Mechanical Felt & Textiles Co.
National Felt Co.
Quaker City Felt Co.
Standard Felt Co.
Supreme Indsl. Products Co.
Western Felt Works & Acadia Synthetic Products Div.

FERRIC OXIDES

Allied Chemical Corp., General Chemical Div.
Columbian Carbon Co., Mapico Iron Oxides Unit
Dela Chemical Works, Inc.
Foote Mineral Co.

*MINNESOTA MINING & MFG. CO.

National Moldite Co.
Semi-Elements, Inc.
TRG, Inc.

FERRITE DEVICES

Acme Electric Corp.
Airtron, Div.-Liton Industries
Bendix Aviation Corp.
Bjorksten Research Labs. for Industry, Inc.
Communication Accessories Co.
Demornay-Bonardi
Douglas Microwave Co., Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.,
FR, Inc.
General Electric Co., Heavy Military Electronics
Dept.

*KEARFOTT DIV., GENERAL PRECISION, INC. *KEARFOTT DIV., GENERAL PRECISION, INC., MICROWAVE PRODUCTS

Kollsman Instrument Corp., Sub.-Standard Coil Pro-
ducts Co., Inc.
Lab. for Electronics, Inc.
Lear, Inc.
Liton Industries, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Microwave Associates, Inc.
*MICROWAVE & POWER TUBE DIV., RAYTHEON
CO.

National Co., Inc. *RADIO CORP. OF AMERICA *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS

Ranftec Corp.
Sage Labs, Inc.
Spectra Electronics Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp.
Sylvania Electric Products Inc., Special Tube
Operations
TRG, Inc.
Technical Materiel Corp., The
Technicraft, Div.-Electronic Specialty Co.
Victor R. F. & Microwave Co.

FERRITES

Airtron, Div.-Liton Industries
Bjorksten Research Labs. for Industry, Inc.
Douglas Microwave Co., Inc.
Ferroxcube Corp. of America
GPL Div.-General Precision, Inc.
General Electric Co., Heavy Military Electronics
Dept.
*KEARFOTT DIV., GENERAL PRECISION, INC.
*MICROWAVE & POWER TUBE DIV., RAYTHEON
CO.

National Moldite Co.
Quartzite Processing Inc.
*RADIO CORP. OF AMERICA
Semi-Elements, Inc.
Stackpole Carbon Co.
Superelex Electronics Corp.
Vander Horst Corp. of America

FIBER GLASS

Aero Leather Products Co.
Air Logistics Corp.
Aircraft Porous Media, Inc.
Allied Plastics Supply Corp.
American Printed Circuits Co., Inc.
Apex Reinforced Plastics, Div.-White Sewing
Machine Corp.
Armstrong Cork Co.
Auburn Mfg. Co., The
Aviation Textile Associates
Bar-Ray Products, Inc.
Bjorksten Research Labs. for Industry, Inc.
Cadillac Plastic & Chemical Co.
Custom Tool & Mfg. Co.
Draco Industrial Corp.
Duracote Corp.
Eagle-Fischer Co., The
Electrical Insulation Co., Inc.
Emerson Plastics Corp.
Entab Inc.
Fabricon Corp.
Fibercraft, Inc.

Flightex Fabrics Inc.
George E. Harris & Co., Inc.
Hastings Plastics, Inc.
Hess, Goldsmith & Co., Inc.
Insulation Mfrs. Corp.
Kiddie Aero-Space Div., Walter Kiddie & Co., Inc.
Norrich Screw Machine Products
Owens-Corning Fiberglass Corp.
Reeves Brothers, Inc.
Robins Industries Corp.
Seaman Products, Div.-Seaman Paper Co.
William W. Stanley Co., Inc.
Stevens Products, Inc.
F. M. Stevenson Co., Inc.
Swedlow Inc.
H. I. Thompson Fiber Glass Co.
E. F. Timme & Son Inc.
Twin Coach Co., Aircraft-Missiles
Union Asbestos & Rubber Co.
United States Chemical Milling Corp.
Wolverine Diesel Power Co.
Zipperfluting Co., The

FIBER GLASS REINFORCED PLASTICS

Air Logistics Corp.
Allied Plastics Supply Corp.
American Aerophysics Corp.
American Printed Circuits Co., Inc.
American Research & Mfg. Corp.
Apex Reinforced Plastics, Div.-White Sewing
Machine Corp.
Atkins & Merrill, Inc.
Aviation Textile Associates
Bjorksten Research Labs. for Industry, Inc.
Bo Myte Co., Inc., The
Bonny Mfg. Corp.
Brook Molding Corp.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Brunswick Bolke Callender Co., The, Defense Pro-
ducts Div.

Butler Mfg. Co.
Chance Vaught Aircraft, Inc.
Clark Equipment Co.
Clevite Ordnance, Div.-Clevite Corp.
Columbia Products Co.
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Continental-Emco Co., Div.-The Youngstown Sheet
& Tube Co.
Cordo Chemical Corp.
Custom Tool & Mfg. Co.
Dalmo Victor Co., Div.-Textron, Inc.
Dayton Aircraft Products, Inc.
Douglas Aircraft Co., Inc.
Duracote Corp.

Durez Plastics Div.-Hooker Chemical Corp.
Eastern Chemical Div., Hooker Chemical Corp.
Eljay Corp.
Emerson Plastics Corp.
Eubanks Industries, Inc.
Fabricon Corp.
Fairchild Aircraft & Missiles Div., Fairchild Engine
& Airplane Corp.
Fibercraft, Inc.
Food Machinery & Chemical Corp.-Epoxy Dept.
Franklin Fibre-Lamitex Corp.
Fruehoul Trailer Co., Military Equipment Div.
Gar Wood Industries Inc.
General American Transportation Corp.
General Plastics Corp.
General Tire & Rubber Co., The, Industrial Products
Div.

Gentex Corp.
B. F. Goodrich Aviation Products
Goodyear Aircraft Corp.
Gordon Enterprises
Grant-Lehr Corp.
Harco Containers Div.-Harbor Boat Building Co.
Hardman Tool & Engrg. Co.
George E. Harris & Co., Inc.
Hastings Plastics, Inc.
Heil Process Equipment Corp.
Hercules Powder Co., Chemical Propulsion Div.
Honeycomb Co. of America, Inc.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON
FEARLESS CORP.

Insulation Mfrs. Corp.
Joelin Mfg. Co., The
Kerrco
Kiddie Aero-Space Div., Walter Kiddie & Co., Inc.
Kish Industries, Inc.
Lamtex Industries Inc.
Lone Star Plastics Co. Inc.
Lunn Laminates, Inc.
Mogee-Brallo & Associates
*MARTIN CO., THE, DENVER DIV.
Mc Millan Companies, The
Mc Millan Lab., Inc.
Mico Insulator Div.-Minnesota Mining & Mfg. Co.
Mico Instrument Co.

*MINNESOTA MINING & MFG. CO.

Molding Corp. of America
Monsanto Chemical Co.
Narmco Mfg. Co.
Narmco Materials Div., Narmco Industries, Inc.
National Vulcanized Fibre Co.
Nougatuck Chemical Div.-U.S. Rubber Co.
Norrich Screw Machine Products
Northrop Corp.
Olin Matheson Chemical Corp., N Y
Olympic Plastics Co., Inc.
Owens-Corning Fiberglass Corp.
Parabon, Inc.
Parsons Corp., Special Products Div.
Pastushin Industries, Inc.
Penn Fibre & Specialty Co., Inc.
Pisecki Aircraft Corp.
Plastics Age Sales, Inc.
Plastics Distributor of New England
Prewitt Aircraft Co.
REF Mfg. Corp.
Resistolox Corp.
Rogers Corp.
Milton Ross Metals Co., The
Scientific-Atlanta, Inc.
Seaman Products, Div.-Seaman Paper Co.
Skydlyne, Inc.
Sparto Mfg. Co., Div.-U.S. Ceromic Tile Co.
Spaulding Fibre Co., Inc.
Specialty Electronics Development Corp.
Stahl Bros. Inc.
Structural Fibers, Inc.
Swedlow Inc.
Synthane Corp.
Topco Group, Thompson Ramo Wooldridge Inc.
Technical Materiel Corp., The
H. I. Thompson Fiber Glass Co.
Thompson Ramo Wooldridge Inc.
E. F. Timme & Son Inc.
Trieflex, Inc.
Topper Mfg. Co., Inc.
U. E. Electronics Corp.
United States Chemical Milling Corp.
United States Rubber Co.
Universal Moulded Products Corp.
Waldick Engrg. Co.
Warren Components, Div.-El-Tronics, Inc.
Westinghouse Electric Corp.
Westinghouse Electric Corp., Micarta Div.
Wolverine Diesel Power Co.
Young Development Div., Hercules Power Co.

FIBER VULCANIZED

Allied Plastics Supply Corp.
Auburn Mfg. Co., The
Aviation Textile Associates
Budd Co., The
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Electrical Insulation Co., Inc.
Eljay Corp.
Fabricon Corp.
Franklin Fibre-Lamitex Corp.
Gordon Enterprises
Insulation Mfrs. Corp.
Thomas J. Long, Inc.
Mico Fabricating Co.
National Vulcanized Fibre Co.
Norrich Screw Machine Products
Penn Fibre & Specialty Co., Inc.
Reeves Brothers, Inc.
Rogers Corp.
Spaulding Fibre Co., Inc.
Stahl Bros. Inc.
F. M. Stevenson Co., Inc.
Taylor Fibre Co.
Technical Ply-Woods Sales
Wilmington Fibre Specialty Co.

FILES

Handicraft Tools, Inc., Div.-X-Acto, Inc.
Martindale Electric Co.
Neumade Products Corp.
Snap-On-Tools Corp.

FILM, MAGNETIC STRIPE

Budd Co., The
Fairchild Camera & Instrument Corp.
*MINNESOTA MINING & MFG. CO.
*RADIO CORP. OF AMERICA, DEFENSE ELEC-
TRONICS PRODUCTS

FILM, PROTECTIVE

Antara Chemicals, Div.-General Aniline & Film Corp.
Carl H. Biggs Co.
Blossom Mfg. Co. Inc.
Cadillac Plastic & Chemical Co.
Carborundum Co., The
Hastings Plastics, Inc.
Merix Chemical Co.

*MINNESOTA MINING & MFG. CO.
 *MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
 Naugatuck Chemical Div.-U. S. Rubber Co.
 Neumade Products Corp.
 Polymer Corp., The
 Reynolds Metals Co., Plastics Div.
 W. S. Shamban & Co.
 Sillocks-Milier Co.

FILMS, CAPACITOR

AMP Inc.
 Asheville Schoonmaker Mica Co.
 Cadillac Plastic & Chemical Co.
 Dilectrix Corp.
 Double E Products Co.
 Film Capacitors, Inc.
 Ford Radio & Mica Corp.
 Insulation Mfrs. Corp.
 Lear, Inc.
 Mica Fabricating Co.
 Natvar Corp.
 TRG, Inc.
 United Mineral & Chemical Corp.

FILMS, PLASTIC FOR WOUND INSULATION

Allied Plastics Supply Corp.
 American Latex Products Corp.
 Aries Laboratories, Inc.
 Bjorksten Research Labs. for Industry, Inc.
 Blossom Mfg. Co. Inc.
 Bonny Mfg. Corp.
 Cadillac Plastic & Chemical Co.
 Carmer Industries Inc.
 Chemplast, Inc.
 Dilectrix Corp.
 E. I. Du Pont de Nemours & Co. Inc.
 Garlock Packing Co., The. Electronic Products
 Insulation Mfrs. Corp.
 M & Q Plastic Products
 *MINNESOTA MINING & MFG. CO.
 *MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
 Monsanto Chemical Co.
 Plastic Age Sales, Inc.
 Polymer Corp., The
 Raybestos-Manhattan, Inc.
 Reynolds Metals Co., Plastics Div.
 W. S. Shamban & Co.
 Swedlow Inc.
 Tetrafluor, Inc.
 United States Rubber Co.

FILTERS

a. Air
 b. Antenna
 c. Audio
 d. Band-Elimination
 e. Band-Pass
 f. Continuously Variable
 g. Crystal
 h. Detonation
 i. Electric
 j. Electric Wave Section
 k. Equalizer
 l. Fuel & Oil
 m. High-Pass
 n. Hydraulic
 o. IF
 p. Interference
 q. Line
 r. Low-Pass
 s. Measurement
 t. Mechanical
 u. Microwave
 v. Noise Suppression
 w. Optical
 x. Pneumatic System
 y. Polarizing
 z. RF
 a-1. UHF & VHF
 b-1. Vacuum System
 c-1. Variable Electronic
 d-1. Vestigial Sideband
 e-1. Wave Trap
 *AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS, a, l
 ACDC Electronics, Inc., c, d, e, j, k, m, o, q, r, z
 ACF Industries Inc., a, l, n, x
 ADC Inc., c, d, e, j, k, m, o, q, r, d-1, e-1.
 Accessory Controls & Equipment Corp., a, x
 Accessory Products Co., Div.-Textron Inc., a, l, x, b-1.
 Acme Electric Corp., i
 Actuation Research Corp., x
 Advanced Engineering Div., D. S. Kennedy & Co., e, m, r, u.
 Aero Supply Mfg. Inc., l, n.
 *AEROJET-GENERAL CORP., w.

Aerovox Corp., e, m, p, q, r, v, z.
 Agricultural Aviation Engineering Co. Inc., l.
 Air Filter Corp., a.
 Air Speed Tool Co., a.
 Airborne Accessories Corp., i, p.
 Aircom Inc., u, a-1.
 Aircraft Porous Media, Inc., a, l, n, x, b-1.
 *AIRESEARCH MFG. OF ARIZONA, v.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., p, v.
 Air-Maze Corp., a, l, n, x.
 Airtron, Div.-Litton Industries, u.
 Allied Witan Co. Inc., a, v.
 Allison Labs. Inc., c thru f, m, r.
 All-Tronics, Inc., i, p, q, r, u, y.
 Alsop Engrg. Corp., n.
 Amerac Inc., u.
 American Electronic Labs., Inc., g, u.
 American Electronics, Inc., t.
 American Felt Co., a, l, n.
 American Instrument Co., Inc., x.
 American Machine & Foundry Co., Greenwich Engrg. Div., b.
 American Missile Products Co., Inc.
 American Optical Co., w.
 American Optical Co., Instrument Div., w.
 Amplex Div.-Chrysler Corp., a, l, n.
 Applied Research Inc., b, d, e, f, k, o, u, z, a-1, e-1.
 Associated Engineers, Inc., a, f, m, o thru r.
 Astron Corp., b thru e, i, m, o thru r, v, z, a-1.
 Axcel Electronics-Div.-Axel Bros. Inc., d, i, p, q, r, v, z, a-1.
 B & K Instruments, Inc., c thru f.
 Baker Co., Inc., The, a.
 Barker & Williamson Inc., e, m, o thru r, z.
 Barnebey-Cheney Co., a.
 Rex Bassett, Inc., p, v.
 Bausch & Lomb Optical Co., w, y.
 Bearing Inspection, Inc., l.
 Bellows-Valvair Divs., a.
 Bendix Aviation Corp., a, l, n, x, b-1.
 Bendix Aviation Corp., Cincinnati Div., e, r.
 Bendix Filter Div., Bendix Aviation Corp., a, l, n, x, b-1.
 Birma Mfg. Co. Inc., a.
 Blender-Tongue Labs. Inc., f, k, q, r.
 Blender-Tongue Labs. Inc., Special Products Div., c, d-1.
 Bogart Mfg. Corp., b, d, e, f, i, j, k, m, o, p, r, u, v, y, z, a-1, c-1, d-1, e-1.
 Bowser, Inc., l, n.
 Bowser Inc., Defense Div., l.
 Briggs Filtration Co., The, l, n.
 Bruno-New York Industries Corp., u.
 Budd Lewyt Electronics, Inc., b, e, a-1.
 Budelman Electronics Corp., d, e, q, r.
 Bulova Watch Co., Electronics Div., d, e, g, m, o, p, r, a-1.
 Burnell & Co., Inc., c, d, e, g, j, k, o, r, d-1.
 CGS Labs, Inc., e, f, m, r, a-1.
 Caledonia Electronics & Transformer Corp., c, d, e.
 Cambridge Filter Corp., a, t, x, b-1.
 Carborundum Co., The, t.
 Carol Electronics Corp., e, z.
 Central Electronic Mfrs., Div.-Nuclear Corp. of America, u.
 Chance Vought Aircraft, Inc., b, c, e, u, v.
 Chicago Electronic Engrg. Co., Inc., c, d, e, r.
 Chicago Standard Transformer Corp., c, e, m, r.
 Cleco Air Tools, Div.-Reed Roller Bit Co., a.
 Clevite Ordnance, Div.-Clevite Corp., c, d, e.
 Collins Radio Co., t.

*COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., a, c, e, m, o thru r, z.
 Commercial Filters Corp., a, l, x.
 Communication Accessories Co., c, d, e, k, m, o thru r, t, u, v, z, a-1, d-1.
 Conalloy Corp., a.
 Consolidated Diesel Electric Corp., n.
 Control Electronics Co., Inc., c, d, e, j, k, m, o, r, t, u, z, a-1, d-1.
 Coppus Engrg. Corp., a.
 Cornelius Co., The, Aero Div., a, x.
 Cornell Deep Drawing Co., Div.-Lanes Industries Corp., a, x.
 Cornell-Dubilier Electric Corp., c, d, e, m, o thru r, v, z.
 Corning Glass Works, l, n, w.
 Cuno Engrg. Corp., The, l.
 Daven Co., The, c, a, e, i, j, o, r, z.
 Davidson Optronics, Inc., w.
 Dayton Rubber Co., The, a.
 Dell Optics Co., Ltd., w.
 Demornoy-Bonardi, e, u.
 Desomottic Products, Inc.-Anders-Driline, a, x.
 Detrex Chemical Industries, Inc., t.
 Diamond Antenna & Microwave Corp., b, d thru g, m, u, z.
 Djeco, Div.-Djordjevic Engrg. Co., d, e, m, r.
 Don-Lon Electronics Inc., b, u

Dorsett Electronic Labs, Inc., z.
 Double E Products Co., b thru k, m thru s, u, v, w, z, a-1 thru e-1.
 Douglas Microwave Co., Inc., u.
 Drico Industrial Corp., a.
 Du Kane Corp., c.
 Dynamics Instrumentation Co., e, f, m, r, c-1.
 Dytronics Co., c, e, f.
 ESC Corp., d, e, k, o thru r, v.
 Eastman Kodak Co., p, w.
 Eddington Metal Specialty Co., l.
 Edwards High Vacuum Ltd., b-1.
 Electron Products Div.-Marshall Industries, v.
 Electronic Applications, Inc., c, k, r, u.
 Electronic Specialty Co., d, e, m, r, u, z, a-1.
 Electro-Winders Co., Inc., e, m.
 Ellison Draft Gage Co., Inc., s.
 Embort Mfg. Co., Maxim Div., v.
 Empire Products Sales Corp., d, e, r, u, z, a-1.
 Enfab Inc., a, l, n, x.
 Erie Resistor Corp., o, r.
 FXR, Inc., u.
 Ferrotron Electronics Co., Inc., e, o.
 Ferroxcube Corp. of America, a-1.
 Filters Inc., a, l, n, x.
 Filtron Co., Inc., p, q, r, v, z.
 Fischer & Porter Co., a.
 Fisher Governor Co., a, x.
 Fish Schurman Corp., p, w.
 Flock Process Co., Inc., a.
 Forbes & Wagner, Inc., d, e, m, r.
 Ford Instrument Co., Div.-Sperry Rand Corp., e, r.
 Form Corp., a, l, n, x.
 Freed Transformer Co., Inc., c, d, e, j, k, m, q, r.
 Garwin, Inc., a, l, n, b-1.
 Gates Radio Co., e, m, r, u, z, a-1, c-1, d-1, e-1.
 General Bronze Electronics Corp., b, d, e, q, r, u, e-1.
 General Coil Products Corp., b, d, e, m, a, r, z, a-1, e-1.
 General Filters, Inc., l, n.
 General Instrument Corp., Defense & Engrg. Products Group, u, a-1.
 General Radio Co., c thru f, m, r, z, a-1, c-1.
 Genitron, Inc., c, d, e, k, m, o thru r, v, z.
 Gillfillan Bros. Inc., u.
 Gits Brothers Mfg. Co., a.
 John Gombos Co., Inc., u.
 Gordon Enterprises, w.
 Gorham Electronics Div.-Gorham Mfg. Co., e, u.
 Gudeman Co., The, b, m, p, q, r, v, z, e-1.
 Guided Missile Div., The Firestone Tire & Rubber Co., w.
 Gulton Industries, Inc., r.
 Gyrex Corp., The, t.
 HRB-Singer, Inc., Sub.-Singer Mfg. Co., e.
 Hallett Mfg. Co., p, v.
 Hammarlund Mfg. Co., The, c, e, j, z.
 Hammett-Mercury Rex Div., g, i.
 Donald C. Harder Co., c, e, m, r.
 Harman Equipment Co., l, n, t.
 Haskel Engrg. & Supply Co., n.
 Herlo Corp., x.
 Hewlett-Packard Co., r, u, a-1.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., b-1.
 Highland Engrg. Co., l, n.
 Hill Electronics, Inc., d, e, g.
 Hilliard Corp., The, a, l, n.
 Hoke Inc., a, n.
 Hopkins Engrg. Co., p, q, r, v.

*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP., l, n, q, x.
 Hughes Semiconductor Div.-Hughes Aircraft Co., e, g.
 Walter J. Hyatt Co., The, a, l, n, x, b-1.
 IMC Magnetics Corp., z.
 ITT Federal Div., International Telephone & Telegraph Corp., b, a, z, a-1.
 Imperial Brass Mfg. Co., The, n, x, b-1.
 Industrial Acoustics Co., Inc., v, e-1.
 Infrared Industries, Inc., p.
 Instruments for Industry, Inc., z, a-1.
 *INTERELECTRONICS CORP., c, d, e, i, j, k, p, q, r, v.
 Interference Measurement Laboratory, Inc., p, r, v, z, e-1.
 Interstate Electronics Corp., e, r, u, e-1.
 JFD Electronics Corp., e, m, r, z, a-1.
 J.V.M. Microwave Co., j, u, z.
 Jarrell-Ash Co., r.
 Johns-Manville Sales Corp., a.
 E. F. Johnson Co., r, z.
 Johnson Electronics Inc., c, e, m, o, q, r, z.
 Kaba & Co., Inc., a, t, x.
 *KEARFOTT DIV., GENERAL PRECISION, INC., t, u.
 *KEARFOTT DIV., GENERAL PRECISION, INC., MICROWAVE PRODUCTS, u, z.
 D. S. Kennedy & Co., b, d, e, m, r, u.
 Kentucky Metal Products Co., a, i, u, v, z.
 Keystone Electronics Co., The, g, r.

Keystone Products Co., c.
Kidde Aero-Space Div., Walter Kidde & Co., Inc., a, x.
Kisley & Mueller, Inc., a.
James Knights Co., The, e, j, m, r, d-1.
Kopp Glass, Inc., w.
Koppers Co., Inc., Metal Products Div., v.
Kwikset Powdered Metal Products, a, e, p, v.
Leor, Inc., a thru e, g, i, k thru n, r, t, x, z, a-1, b-1, e-1.
Warner Lewis Co., Div.-From Corp., l.
*WALLACE O. LEONARD, INC., x.
Librascope Div., General Precision, Inc., e.
Iieco, Inc., u.
Litan Industries, Inc., u.
Litan Industries, Maryland Div., z.
Lockheed Aircraft Corp., Missiles & Space Div., u.
Luber-Finer Inc., l, n.
Lumen, Inc., e, i, m, r.
Lynch Carrier Systems Inc., d, e, j, k, m, q, r.
MB Electronics, e, k.
Magnosync Corp., c.
Magnetic Circuit Elements, Inc., c, d, e, i, m, p thru s.
Manhattan Lighting Equipment Co., Inc., a.
*MARTIN CO., THE, DENVER DIV., c, e, f, i, n, s, v, b-1.
Mason-Neilan, x.
McCoy Electronics Co., d, e, g, m, r, e-1.
McMillan Companies, The, e, i, p, q, r, u, v, z, a-1.
McMillan Lab., Inc., p, q, u, z, a-1.
Mead Specialties Co., Inc., a.
Meridian Metalcraft, Inc., d, e, m, r, u, z.
Merit Coil & Transformer Corp., e, m, a thru r, z, e-1.
Micronal Electronics Mfg. Corp., c, d, e, i, a thru r, v.
Microlab, b, e, j, m, p, r, u, z, a-1.
Microphase Corp., b, d, e, f, k, m, p thru s, u, v, z, a-1, e-1.
Microwave Associates, Inc., r, u, z.
Mid-West Coil & Transformer Co., c, e, m, q, r.
James Millen Mfg. Co., Inc., a, v, z, e-1.
J. W. Miller Co., b, d, e, m, a thru r, v, z, a-1, e-1.
Millipore Filter Corp., a, l, n, t.
C. A. Morgren Co., x.
Motorola, Inc., b thru g, i, m, a thru r, t, u, v, z, a-1, c-1, d-1.
Muirhead Instruments Inc., f, c-1.
George L. Nankervis Co., l, n.
Narda Microwave Corp., The, m, r, u.
National Coil Co., c, d, e, a, r, z, a-1.
National Co., Inc., b, e, g, m, a, z, a-1.
Networks Electronic Corp., c-1.
New York Transformer Co., Inc., c, d, e, i, j, k, m, r.
Newark Wire Cloth Co., l.
Newton Co., The, d.
Northrop Corp., i.
Nuclear Development Corp. of America, c, z.
Nytronics, Inc., Essex Electronics Div., e, a, r.
Oil-Dyne, Inc., n.
Omega Labs, Inc., u.
Optical Coating Lab., Inc., w.
Optical Gaging Products, Inc., w.
Orbitran Co., Inc., c, e, m, r.
Ortho Filter Corp., b thru e, g, i, j, k, m, a, r, s, z, a-1, d-1, e-1.
Owens-Corning Fiberglas Corp., a, t.
Pacific Relays, Inc., e.
Pacific Universal Products Corp., w.
M. V. Palmer, Inc., c, d, e, j, r, u.
Ralph M. Parsons Co., The, Electronics Div., b, e, z.
Pequot Wire Cloth Co., l.
Performance Measurements Co., m, r.
Permanent Filter Corp., a, l, n, t, x.
Philo Corp.-Govt. & Industrial Group, c, e, a thru r, u, v, z, a-1.
Polaroid Electronics Corp., u.
Polaroid Corp., y.
Polyphase Instrument Co., i, j, m, a, r, z, d-1.
Portland Copper & Tank Works Inc., b, j, a, u, z, e-1.
Precision Development Corp., b thru e, g, i, m, a thru s, z.
Precision Equipment Co., Inc., a, l, t, z, b-1.
Precision Lapping Co., Inc., w.
Production Research Corp., Sub.-Radio Condenser Co., b, e.
Projects Unlimited, Inc., c, e.
Pulse Engrg. Inc., e, k, m, r.
Puritan Aerospace Div.-Puritan Compressed Gas Corp., x.
Purulator Products Inc., a, l, n, t, x.
REF Mfg. Corp., l, n.
Radar Design Corp., u, a-1.
Radex Corp., a.
Radiophone Co. Inc., e, r.
Radiation, Inc., b, d, e, m, r, u, a-1.
Radio Condenser Co., b, d, e, f, m, r, z, a-1.
*RADIO CORP. OF AMERICA, b thru e, g, m, a thru v, z, a-1 thru e-1.
Radio Development & Research Corp., i, q, r.
Radio Receptor Co., Inc., Sub.-General Instrument Corp., a-1.

Railway Communications, Inc., d, e, k, m, r.
Rantec Corp., b, u.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., e, t.
Reeves Brothers, Inc., a.
Reeves-Hoffman Div., c, d, e, g, i, k, m, a, q, r, z.
Republic Aviation Corp., Missile Systems Div., u.
Republic Lens Co., Inc., w.
Research Products Corp., a.
Riverbank Labs., Dept.-Engrg., e, t.
J. R. Robbins Co., l, n.
Robbins Aviation, Inc., a.
Royal Jet, Div.-Royal Industries, Inc., l, n, x.
Rucker Co., The, n.
Rytron Co., Inc., d, e, k, m, p, r, v, z.
S-P Mfg. Corp., The, a.
Sage Labs, Inc., e, p, u.
St. Marys Carbon Co., a, l, n, t.
San Fernando Electric Mfg. Co., v.
Sanders Associates, Inc., u.
Sangamo Electric Co., d, e, m, p, r, s, v, e-1.
Santa Barbara Research Center, w, x.
H. H. Scott, Inc., c, e, m, r, s, v.
Secode Corp., c, d, e, g, m, a, q, r, z, a-1.
Servomechanisms, Inc., r.
Shallcross Mfg. Co., d, e, l, a, r, z.
Sierra Electronic Corp., Div.-Philo Corp., p, r, u, z, a-1.
Simmonds Aeraccessories, Inc., n.
Skytronics, Inc., l, n.
A. O. Smith Corp., Smith-Erie Div., l.
Solar Mfg. Corp., a-1.
Southwest Research Institute, a, c thru f, i, j, l, m, n, p, r, t, v, w, x.
Special Products Dept., Melpar, Inc., e, m, r, u, a-1.
Specialty Electronics Development Corp., c, u.
Spectracast, Inc., d, e, m, p, r, w.
Spectrum Instruments, Inc., c thru f, i, k, r, c-1.
Spencer-Kennedy Labs., Inc., d, e, f, m, r, z, a-1, c-1.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., u.
Sprague Electric Co., p, q, z.
Standard Electronics Div.-Reeves Instrument Corp., b thru e, g, m, a thru r, z, a-1.
Standard Steel Corp., Cambridge Div., b-1.
William W. Stanley Co., Inc., a.
Stewart-Warner Electronics Div., c, e, a, r, u, z.
Sun Electric Corp., Aeronautical Div., b, i, l, m, n, v, x, z.
Superex Electronics Corp., b, m, p, q, r.
Superior Pneumatic & Mfg., Inc., a, x.
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc., b, e, u.
Systems Incorporated, g.
T. O. D. Mfg. Co., Inc., a, l, n, x.
TRG, Inc., b, u, e-1.
Tamar Electronics, Inc., b, d, e, f, j, m, a, r, u, z, a-1, e-1.
Tapco Group, Thompson Ramo Wooldridge Inc., u.
Technicraft, Div.-Electronic Specialty Co., u.
Telchrome Mfg. Corp., e.
Tele Coil Co., b, e, f, a, u, z, a-1.
Telectro Industries Corp., b, c, e.
Telerad Mfg. Corp., v.
Telex, Inc., c, e, j, m, r, e-1.
Telkor, Inc., l, p, v.
Telonic Industries, Inc., e, m, r, z, a-1.
Temperature Engrg. Corp., b-1.
Textstar Plastics, Div.-The Textstar Corp., a.
Thermador Electrical Mfg. Co., e.
Thompson Ramo Wooldridge Inc., u.
Tinsley Labs, Inc., w.
Torwico Electronics, Inc., c, d, e, m, q, r.
Tranco Products, Inc., b, d, e, u, z.
Transformer Design, Inc. of Milwaukee, c, d, e, m, r.
Transformers, Inc., c, d, e, i, j, m, r.
Tresco, Inc., r.
Trinity Equipment Corp., a.
U. E. Electronics Corp., b, r.
Udylite Corp., The, l.
U. S. Sonics Corp., e, a, d-1.
Universal Toroid Coil Winding, Inc., d, e.
University Loudspeakers, Inc., m, r.
Vacuum Specialties Co., Inc., b-1.
Valor Instruments, Inc., e, a, q, z.
Vanguard Electronics Co., d, e, a, r, z, e-1.
Varo Mfg. Co., Inc., c thru g, i, j, m, a thru r, v, y, z, c-1, e-1.
Vickers Inc., n.
Victor R. F. & Microwave Co., r, u.
Viewlex, Inc., w.
Virginia Electronics Co., Inc., c, a.
Wahlgren Magnetics, Div.-Marshall Industries, d, e, m, r.
Waterman Hydraulics Corp., n.
Waveline, Inc., u.
Wells Industries Corp., a, x.
Wenzlau Engrg. Co., l.
Westinghouse Air Brake Co., Industrial Products Div., a.

Westinghouse Electric Corp. j.
Wheelerbrator Corp., a.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., c, d, e, m, p.
Wheeler Laboratories, Inc., u.
White Instrument Labs., c, d, e, j, m, r.
Winder Aircraft Corp. of Florida, a.
Wollensak Optical Co., g.
Wright Electronics Inc., g.
Yark Div., Borg-Warner Corp., a.
Zenith Optical Laboratory, w.
Zipper tubing Co., The, l.
Zoomar Inc., w.

FINDERS, RANGE

Allied International Corp.
American Optical Co.
Davidson Optronics, Inc.
Eastman Kodak Co.
J. W. Fecker Div., American Optical Co.
Gordan Enterprises
Leor, Inc.
Librascope Div., General Precision, Inc.
Madigan Corp.
Motorola, Inc.
Northrop Corp.
Nortronics, Div.-Northrop Corp.
Optomechanisms Inc.
Philo Corp.-Govt. & Industrial Group
Spectra Electronics Corp.
Telectro Industries Corp.
Wollensak Optical Co.

FINDERS, VIEW

American Optical Co.
Eastman Kodak Co.
J. W. Fecker Div., American Optical Co.
Gordan Enterprises
*MARTIN CO., THE, DENVER DIV.
Mitchell Camera Corp.
Optomechanisms Inc.
Philo Corp.-Govt. & Industrial Group
Zoomar Inc.

FINISHERS, PLASTIC

Allied Plastics Supply Corp.
American Latex Products Corp.
Duracote Corp.
Durafith Corp.
Elyaj Corp.
Emeloid Co., Inc., The
*EQUIPMENT DIV., RAYTHEON CO.
Fibercraft, Inc.
Grant-Lehr Corp.
Homalite Corp., The
Lone Star Plastics Co. Inc.
*MINNESOTA MINING & MFG. CO.
Norrich Plastics Corp.
Olympic Plastics Co., Inc.
W. S. Shamban & Co.
Sillocks-Miller Co.
Tetrafluor, Inc.

FINISHES

a. Crystal
b. Luminous Materials
c. Ripple
d. Wrinkle
California Plasteck Inc., b.
Canadian Radium & Uranium Corp., b, d.
Del's Tumbling Service
E. I. Du Pont de Nemours & Co. Inc., b.
*EQUIPMENT DIV., RAYTHEON CO., a.
Hammett-Mercury-Rex Div., a.
Henry & Miller Industries, Inc., c, d.
Kish Industries, Inc., a thru d.
Moas & Waldstein Co., d.
Merix Chemical Co.
*MINNESOTA MINING & MFG. CO., b.
Northeast Metals Industries, Inc., c, d.
Precision Lapping Co., Inc., a.
Raffi & Swanson, Inc., b, d.
Rimac, Inc., b, c, d.
Sillocks-Miller Co., b.
Switzer Brothers, Inc., b.
Ultra-Violet Products, Inc., b.
United Mineral & Chemical Corp., b.
United States Radium Corp., b.

FINS

Aluminum Co. of America
American Brake Shoe Co.
Avco Corp., Crosley Div.
Brooks & Perkins, Inc.
Bruce Engrg. Co.
Calcor Corp.
California Stamping & Mfg. Co.
Chance Vought Aircraft, Inc.

Cutler Metal Products Co.
 Daehler-Jarvis Div., National Lead Co.
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
 Jarvis Corp.
 Kaiser Fleetwings, Inc.
 Kanair Corp.
 Kellett Aircraft Corp.
 Kelsey Hayes Co.
 *LAVELLE AIRCRAFT CORP.
 Magline Inc.
 *MARTIN CO., THE, DENVER DIV.
 *MINNESOTA MINING & MFG. CO.
 Monrovia Aviation Corp.
 Norris-Thermador Corp.
 Northeast Metals Industries, Inc.
 R. H. Osbrink Mfg. Co.
 Parsons Corp., Special Products Div.
 Pastushin Industries, Inc.
 Phoenix Products Co.
 Prewitt Aircraft Co.
 Republic Aviation Corp., Missile Systems Div.
 Rimak, Inc.
 Royal Jet, Div., Royal Industries, Inc.
 Southwest Research Institute
 Stamping Div., Rockwell Standard Corp.
 Westinghouse Electric Corp., Micarta Div.
 Winder Aircraft Corp. of Florida

FIRE

- a. Alarm Systems
- b. Detectors
- c. Extinguishing Systems
- d. Protection Systems

Accessory Products Co., Div.-Textron Inc., c.
 Akron Brass Mfg. Co., Inc., c, d.
 Allied International Corp., c
 American District Telegraph Co., a, b, d.
 American La France Div.-Sterling Precision Corp., c, d.
 Ansil Chemical Co., c, d.
 California Plasteck Inc., a.
 Cardox Div., Chemetron Corp., a thru d.
 Chance Vought Aircraft, Inc., c.
 Compudyne Corp., a, d.
 Conax Corp., c, d.
 Control Products Inc., b.
 Cornell Deep Drawing Co., Div.-Lanes Industries Corp., c.
 Daystrom, Inc., Control Systems Div., a.
 Thomas A. Edison Ind. Instrument Div.-Mc Grow-Edison Co., a thru d.
 Electro-Seal Corp., a, d.
 FWD Corp., c.
 Fenwal Inc., a thru d.
 Fyr-Fyter Co., The, a thru d.
 Gamewell Co., The, a, d.
 General Fire Extinguisher Corp., The, c, d.
 Grinnell Co., a thru d.
 Hallett Mfg. Co., d.
 Hammett-Mercury-Rex Div., c.
 George E. Harris & Co., Inc., a, b, d.
 Interstate Electronics Corp., a, b.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., a, d.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc., a thru d.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., a
 Leslie Co., a.
 Lolstrand Co., The, c.
 *MARTIN CO., THE, DENVER DIV., a thru d.
 National Foam System, Inc., c, d.
 Networks Electronic Corp., b.
 Notifier Corp., a.
 Patterson Moas Research, Div.-Leesona Corp., a, b, d.
 Photobell Co., Inc., a, b.
 Protectoseal Co., The, d.
 Pyrotec Inc., a, b.
 Richards-Wilcox Mfg. Co., b.
 Rockwood Sprinkler Co., Div.-The Gamewell Co., a thru d.
 Santa Barbara Research Center, a, b.
 Southwest Research Institute, a thru d.
 Special Products Dept., Melpar, Inc., a, b.
 Spectra Electronics Corp., a.
 Standard Electric Time Co., The, a, b.
 Sun Electric Corp., Aeronautical Div., a.
 Ullman Devices Corp., a.
 United Electric Controls Co., a.
 Victory Engrg. Corp., b.
 Ward LaFrance Truck Corp.
 Wells Industries Corp., a, b, d.
 Whittaker Controls, Div.-Telecomputing Corp., c.

FIRE STANDS, MISSILE

*AEROJET-GENERAL CORP.
 Aeroscience, Inc.
 Akron Brass Mfg. Co., Inc.
 Allegany Instrument Co., Inc.

American Machine & Foundry Co., Government Products, N. Y.
 *AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
 Basic Tool Industries, Inc.
 A. M. Byers Co.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Cromer Mfg. & Engrg., Inc.
 Lolstrand Co., The
 *MARTIN CO., THE, DENVER DIV.
 McCathron Boiler Works Co., Inc.
 Opelika Welding, Machine & Supply Inc.
 Twin Coach Co., Aircraft-Missiles
 Wells Industries Corp.

FIRE WALLS

American Machine & Foundry Co., Government Products, N. Y.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Colonial Aircraft Corp.
 Douglas Aircraft Co., Inc.
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
 Kaiser Fleetwings, Inc.
 *LAVELLE AIRCRAFT CORP.
 *MARTIN CO., THE, DENVER DIV.
 Penn-Michigan Mfg. Corp.
 Solar Aircraft Co.
 United States Plywood Corp.

FIRING STAND ACCESSORIES

*AEROJET-GENERAL CORP.
 Aeroscience, Inc.
 Aero-Test Equipment Co., Inc.
 American Machine & Foundry Co., Government Products, N. Y.
 American Machine & Foundry Co., Greenwich Engrg Div.
 Bendix Filter Div., Bendix Aviation Corp.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Douglas Aircraft Co., Inc.
 Hydra-Power Corp.
 *MARTIN CO., THE, DENVER DIV.
 *MINNESOTA MINING & MFG. CO.
 Rockwood Sprinkler Co., Div.-The Gamewell Co.
 Twin Coach Co., Aircraft-Missiles

FITTINGS, COAXIAL CABLE

American Tube Bending Co., Inc.
 *ANDREW CORP.
 Bendix Aviation Corp.
 Cal Connector Co.
 Deutsch Co., The, Electronic Components Div.
 Diamond Antenna & Microwave Corp.
 Farwest Mfg. Div., Inc.
 General Radio Co.
 Hallett Mfg. Co.
 International Electric Industries, Inc.
 Kings Electronics Co., Inc.
 Norrich Screw Machine Products
 Nugent Electronics Co., Inc.
 Phelps Dodge Copper Products Corp.
 Prosecki Aircraft Corp.
 Seallectra Corp.
 Tapco Group, Thompson Rama Wooldridge Inc.
 Thomas & Betts Co., Inc., The
 Thompson Rama Wooldridge Inc.
 United Supply Co.

FITTINGS, METALLIC

Adam Metal Supply Inc.
 Aero Bolt & Screw Co., Inc.
 Aero Mfg. & Mach. Co., Inc.
 Aero Spares, Inc.
 Aeroquip Corp., Jackson Div.
 Aircraft Fitting Co., The
 Airdrome Parts Co.
 American Brass Co., The
 American Instrument Co., Inc.
 Ampco Metal, Inc.
 Arnov Aircraft Associates, Inc.
 Avica Corp.
 Belmar Wheel & Machine Co., Inc.
 Bergen Carbide Co.
 Best Aircraft Corp.
 Breeze Corporations, Inc.
 Capewell Mfg. Co.
 Capital City Mfg. Co., Inc.
 Chase Brass & Copper Co., Inc.
 Collins Mfg. Corp.
 Components Corp.
 Conrad & Moser
 Crawford Fitting Co.
 Dayton Aircraft Products, Inc.
 Drilube Co.
 Dumont Engrg. Co.
 Fairbanks Co., The

Fenn Mfg. Co., The
 Flowline Corp.
 General Logistics Div., Aeroquip Corp.
 Gideon & Ramey Mfg. Co.
 Grinnell Co.
 Harvey Aluminum
 Huntington Alloy Products Div.-The International Nickel Co., Inc.
 Imperial Brass Mfg. Co., The
 Ingersoll Kalamazoo Div., Borg-Warner Corp.
 Walter K. Jaros Aircraftrafters
 Kling Metal Spinning & Stamping Co.
 Kohler Co.
 Ladish Co.
 *MARTIN CO., THE, DENVER DIV.
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Northrop Corp.
 Ohlson Empire Inc.
 Parker Fittings & Hose Div., Parker-Hannifin Corp.
 Rattan Mfg. Co., The
 Resistolox Corp.
 Rimak, Inc.
 J. R. Robbins Co.
 Squiers Gage Co.
 Tapco Group, Thompson Rama Wooldridge Inc.
 Thomas & Betts Co., Inc., The
 Thompson Rama Wooldridge Inc.
 United Supply Co.
 Weatherhead Co., The
 Western Div., Aeroquip Corp.

FITTINGS, NON-METALLIC

American Latex Products Corp.
 American Standard Products, Inc.
 Bergen Carbide Co.
 Carborundum Co., The
 Continental Rubber Works
 Crawford Fitting Co.
 Crystal-X Corp.
 Dayton Aircraft Products, Inc.
 Grinnell Co.
 Walter J. Hyatt Co., The
 Imperial Brass Mfg. Co., The
 Luzerne Rubber Co.
 *MARTIN CO., THE, DENVER DIV.
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Northrop Corp.
 Olympic Plastics Co., Inc.
 Polymer Corp., The
 Rattan Mfg. Co., The
 *STRATOFLEX, INC.
 Tetrafluor, Inc.
 Thomas & Betts Co., Inc., The
 Wasley Products, Inc.
 Zipperburt Co., The

FLAMEHOLDERS, RAMJET

Allison Div., General Motors Corp.
 Arde-Portland, Inc.
 B. H. Aircraft Co., Inc.
 Crane Co., Special Products Div.
 *LAVELLE AIRCRAFT CORP.
 Lycoming Div., Avco Corp.
 Portland Copper & Tank Works Inc.
 Solar Aircraft Co.
 Thermionic Aeronautical Div.

FLANGES, MICROWAVE

Ainslie Corp.
 Aircom Inc.
 Airtron, Div.-Litton Industries
 *ANDREW CORP.
 Cal Connector Co.
 Chase Brass & Copper Co., Inc.
 Connector Corp. of America
 Co-Operative Industries, Inc.
 Joe Davidson & Associates
 Demornay-Bonardi
 Diamond Antenna & Microwave Corp.
 Douglas Microwave Co., Inc.
 FXR, Inc.
 Gar Products Corp.
 Gorham Electronics Div.-Gorham Mfg. Co.
 Hammett-Mercury Rpx Div.
 Interstate Electronics Inc.
 J.V.-M Microwave Co.
 Kings Electronics Co., Inc.
 Lieco, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Microwave Associates, Inc.
 Olin Mathieson Chemical Corp., N. Y.
 Omega Labs, Inc.
 Radalab Inc.
 Specialty Electronics Development Corp.
 Technicraft, Div.-Electronic Specialty Co.
 Telerod Mfg. Corp.
 Waveline, Inc.

FLIGHT DIRECTORS

Allied International Corp.
Bendix Aviation Corp.
Bendix Corp., The, Eclipse-Pioneer Div.
A. Biederman, Inc.
Broadview Research Corp.
Collins Radio Co.
Courier Products, Div.-Model Engrg. & Mfg., Inc.
Daystrom Inc., Transcoil Div.
Emertan, Sub.-Emerson Radio & Phonograph Corp.
Gordan Enterprises
Huyck Systems Co.
ITT Federal Div., International Telephone & Telegraph Corp.
Integrated Dynamics Div., Globe Industries, Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Librascope Div., General Precision, Inc.
Motorola, Inc.
Nortronics, Div.-Northrop Corp.
Republic Aviation Corp., Missile Systems Div.
Santa Barbara Research Center
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Sun Electric Corp., Aeronautical Div.

FLIGHT TERMINATION DEVICES

*AEROJET-GENERAL CORP.
Arde-Portland, Inc.
Avco Corp., Crosley Div.
Babcock Radio Engrg., Inc.
Broadview Research Corp.
Emertan, Sub.-Emerson Radio & Phonograph Corp.
General Instrument Corp., Defense & Engrg. Products Group
Lockheed Aircraft Corp., Missiles & Space Div.
Mc Cormick Selph Associates
Motorola, Inc.
Northrop Corp.
Nortronics, Div.-Northrop Corp.
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Republic Aviation Corp., Missile Systems Div.
Santa Barbara Research Center
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.

FLOWMETERS, DIFFERENTIAL PRESSURE

Aeroscience, Inc.
Aerotec Industries Inc., Aircraft Equipment Div.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Bendix Aviation Corp.
A. Biederman, Inc.
Bowser, Inc.
*BRISTOL CO., THE
Consolidated Diesel Electric Corp.
Cox Instruments Div., George L. Nankervis Co.
Crescent Engrg. & Research Co.
Daystrom Inc., Pacific Div.
Dynisco, Inc.
Elison Drott Gage Co., Inc.
Fischer & Porter Co.
General Controls Co.
Hagan Chemicals & Controls Inc.
Haskel Engrg. & Supply Co.
Hays Corp., The
Huyck Systems Co.
*WALLACE O. LEONARD, INC.
Mason-Neilan
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
George L. Nankervis Co.
National Instrument Laboratories, Inc.
National Scientific Labs., Inc.
Schoevitz Engrg.
Servomechanisms, Inc.
Southwest Research Institute
Trimount Instrument Co.

FLOWMETERS, MASS RATE

Aeroscience, Inc.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Auto-Control Labs, Inc.
Avien, Inc.
B & H Instrument Co., Inc.
Beckman Instruments, Inc., Berkeley Div.
Bendix Aviation Corp.
Bendix Aviation Corp., Pioneer-Central Div.
Bowser, Inc.
Consolidated Diesel Electric Corp.
Cox Instruments Div., George L. Nankervis Co.
Crescent Engrg. & Research Co.
Dacker Corp., The
*DEL MAR ENGRG. LABS.
Eclipse Fuel Engrg. Co.
Fischer & Porter Co.
Flow Corp.
General Controls Co.

General Electric Co., Apparatus Sales Div.
General Electric Co., Instrument Dept.
Hays Corp., The
Highland Engrg. Co.
Huyck Systems Co.
Isotopes Specialties Co., Div.-Nuclear Corp. of America
*WALLACE O. LEONARD, INC.
Madigan Corp.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
George L. Nankervis Co.
National Instrument Laboratories, Inc.
Ohmart Corp., The
Patter Aeronautical Corp.
Revere Corp. of America, Sub., Neptune Meter Co.
Southwest Research Institute
Standard Controls, Inc.
Trans-Sonics, Inc.

FLOWMETERS, VOLUMETRIC

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Auto-Control Labs, Inc.
B & H Instrument Co., Inc.
Beckman Instruments, Inc., Berkeley Div.
Bendix Aviation Corp.
Bowser, Inc.
Bowser Inc., Defense Div.
*BRISTOL CO., THE
Budd Co., The
Consolidated Diesel Electric Corp.
Canvair Instruments, Canvair Div.-General Dynamics Corp.
Cox Instruments Div., George L. Nankervis Co.
*DEL MAR ENGRG. LABS.
Henry G. Dietz Co., Inc.
Eclipse Fuel Engrg. Co.
Fischer & Porter Co.
Flow Measurements Corp.
Food Machinery & Chemical Corp., Ordnance Div.
General Controls Co.
B. H. Hadley, Inc.
Hays Corp., The
Highland Engrg. Co.
Hake Inc.
Huyck Systems Co.
Lond-Air Inc., Sub.-California Eastern Aviation, Inc.
*WALLACE O. LEONARD, INC.
Madigan Corp.
W. L. Maxson Corp., The
J. J. Monaghan Co., Inc.
George L. Nankervis Co.
National Instrument Laboratories, Inc.
National Scientific Labs., Inc.
Patter Aeronautical Corp.
Revere Corp. of America, Sub., Neptune Meter Co.
Selas Corp. of America
Southwest Research Institute
Sun Electric Corp., Aeronautical Div.
Waugh Engrg. Co.

FLUID METERING PUMP SYSTEMS

ACF Industries Inc.
Adel Precision Products of Calif., Div.-General Metals Corp.
American Instrument Co., Inc.
Bendix Aviation Corp.
*BENDIX AVIATION CORP., HAMILTON DIV.
Bendix Utica Div., Bendix Aviation Corp.
A. Biederman, Inc.
Bowser, Inc.
Consolidated Diesel Electric Corp.
Eastern Industries Inc.
Edwards High Vacuum Ltd.
Flight Refueling, Inc.
Food Machinery & Chemical Corp., Ordnance Div.
B. H. Hadley, Inc.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
Hughes Taal Co., Aircraft Div.
Kemp Aera Products
Kerns Mfg. Corp.
Lond-Air Inc., Sub.-California Eastern Aviation, Inc.
Lopp Insulator Co., Inc., Rodia Specialties Div.
National Scientific Labs., Inc.
REF Mfg. Corp.
Milton Ray Co.
Sargent Engrg. Corp.
A. O. Smith Corp., Smith-Erie Div.
Southwest Research Institute
Sundstrand Turbo
Thayer Scale Corp.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Wallace & Tiernan Inc.
Weatherhead Co., The

FLUID MOTORS

Adel Precision Products of Calif., Div.-General Metals Corp.

Aircraft Accessory Turbine Dept.-General Electric Co.
American Brake Shoe Co.
American Brake Shoe Co., Kellogg Div.
Bendix Aviation Corp.
*BENDIX AVIATION CORP., HAMILTON DIV.
Clark Equipment Co.
Commercial Shearing & Stamping Co.
Cornelius Co., The, Aero Div.
Eastern Industries Inc.
Gar Wood Industries Inc.
Haskel Engrg. & Supply Co.
Kerns Mfg. Corp.
Link-Belt Co.
Oil-Dyne, Inc.
Pesco Products Div.-Borg-Warner Corp.
Sargent Engrg. Corp.
Sundstrand Turbo
Vickers Inc.
Vickers Inc., Div.-Sperry Rand
Vickers Inc., Mich.
Wickfield, Inc.

FLUIDS, HYDRAULIC OILS, COOLANTS, ETC.

American Oil & Supply Co.
Anderson Chemical Co., Div.-Stauffer Chemical Co.
Anderson Oil & Chemical Co., Inc.
George Basch Co., The
Cincinnati Milling Machine Co., The
Dow Corning Corp.
Fluoro-Chem Corp.
Food Machinery & Chemical Corp.-Chemical & Plastics Div.
Halocarbons Products Corp.
E. F. Houghton & Co.
*MINNESOTA MINING & MFG. CO.
*MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
Monsanto Chemical Co.
New York Air Brake Co., The, Watertown Div.
Pennsalt Chemicals Corp.
Southwest Research Institute
White & Bagley Co., The
York Div., Borg-Warner Corp.

FLOUORESCENT COMPOUNDS, PHOSPHORS

Allied Chemical Corp., General Chemical Div.
Alloys Unlimited Inc.
Bios Labs., Inc.
Cadillac Plastic & Chemical Co.
Canadian Radium & Uranium Corp.
Cerium Metals & Alloys Div.-Ranson Metals Corp.
Cordo Chemical Corp.
Delta Chemical Works, Inc.
Farwest Mfg. Div., Inc.
Isotopes Specialties Co., Div.-Nuclear Corp. of America
*MINNESOTA MINING & MFG. CO.
Semi-Elements, Inc.
Shannon Luminous Mat., Affiliate-Curtiss-Wright, Princeton Div.
Switzer Brothers, Inc.
TRG, Inc.
Ultra-Violet Products, Inc.
United States Radium Corp.
Var-Loc-Old Chemical Co.
Westinghouse Electric Corp.

FLUOROMETERS

American Instrument Co., Inc.
Coleman Instruments, Inc.
*ENGIS EQUIPMENT CO.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
Photavolt Corp.

FLUX, BRAZING OR SOLDERING

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Alpha Metals, Inc.
Aluminum Co. of America
Anchem Products Inc.
American Brazing Alloys Corp.
American Silver Co., Inc.
American Solder & Flux Co.
Ampco Metal, Inc.
Blackstone Corp.
Chose Brass & Copper Co., Inc.
Dalweld Co. Inc.
Delta Chemical Works, Inc.
Division Lead Co.
Dow Chemical Co., The
M. W. Duntan Co. Inc., The
Engelhard Industries, Inc.
Eutectic Welding Alloys Corp.
Fusion Engrg.
Goldsmith Bros. Div., National Lead Co.
Handy & Harman
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.

Huntington Alloy Products Div. The International Nickel Co., Inc.
Johnson Mfg. Co., Inc.
Kester Solder Co.
Linde Co., Div.-Union Carbide Corp.
Londan Chemical Co., Inc.
Mico Instrument Co.
National Cylinder Gas, Div.-Chemetron Corp.
Ruby Chemical Co.
Solar Aircraft Co.
Superior Flux & Mfg. Co.
Texas Instruments Inc.

FLYWHEELS

Allison Div., General Motors Corp.
Bethlehem Steel Co.
G. O. Corlson, Inc.
Dodge Mfg. Corp.
Integrated Dynamics Div., Globe Industries, Inc.
Lindgren Foundry Co.
Norrich Screw Machine Products
Sawyers Gage Co.
Telectro Industries Corp.
U. S. Industries, Inc.
Vickers, Inc., Mich.
Westinghouse Electric Corp.

FOIL, ALUMINUM

Accurate Specialties Co. Inc.
Adam Metal Supply Inc.
Adept Industries Inc.
Allied Chemical Corp., General Chemical Div.
Alloys Unlimited Inc.
Aluminum Co. of America
Bios Labs, Inc.
Engelhard Industries, Inc.
Kaiser Aluminum & Chemical Sales, Inc.
Nuclear Development Corp. of America
Reo Magnet Wire Co., Inc., Div.-Aluminum Co. of America
Republic Foil Inc.
Revere Copper & Brass Inc.
Reynolds Metals Co.
Roovers-Lotsch Corp.
Swift Textile Metalizing & Laminating Corp.
United Mineral & Chemical Corp.
Zippertung Co., The

FOIL, LEAD

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
Alpha Metals, Inc.
Belmont Smelting & Refining Works, Inc.
Bios Labs, Inc.
Bow Solder Products Co., Inc.
Nuclear Development Corp. of America
Revere Copper & Brass Inc.
Roovers-Lotsch Corp.
United Mineral & Chemical Corp.
Var-Lac-Oid Chemical Co.

FORCE MEASURING CELLS

Aeroscience, Inc.
*MARTIN CO., THE, DENVER DIV.
Morehouse Machine Co.
Revere Corp. of America, Sub., Neptune Meter Co.

FORGINGS, FLAT DIE

ACF Industries Inc.
Aluminum Co. of America
American Brake Shoe Co.
American Car & Foundry Div., ACF Industries, Inc.
Ampco Metal, Inc.
Bethlehem Steel Co.
Billings & Spencer Co., The
Bridgeport Brass Co.
A. M. Byers Co.
Consolidated Industries, Inc.
Crucible Steel Co. of America
Custom Tool & Mfg. Co.
Eaton Mfg. Co., Valve Div.
Harvey Aluminum
Earle M. Jorgensen Co.
Kaiser Aluminum & Chemical Sales, Inc.
Kelsey-Hayes Co.
Kelsey-Hayes Co., Utica Drop Forge & Tool Div.
Ladish Co.
Charles E. Larson & Sons, Inc.
Midvale-Heppenstall Co.
National Forge Co.
Ohlson Empire Inc.
Petitbone Mulliken Corp.
Joseph T. Ryerson & Son, Inc.
Scovill Mfg. Co.
Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.
Steel Improvement & Forge, The
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
Tube-Turns Div., Chemetron Corp.
United States Steel Corp.
Universal-Cyclops Steel Corp.
Vanadium-Alloys Steel Co.
Westinghouse Electric Corp.

Universal-Cyclops Steel Corp.
Vanadium-Alloys Steel Co.
Westinghouse Electric Corp.
Wilcox-Crittenden Div., North & Judd Mfg. Co.

FORGINGS, PRESS

Aluminum Limited Sales, Inc.
Aluminum Co. of America
American Brake Shoe Co.
American Brass Co., The
American Car & Foundry Div., ACF Industries, Inc.
Ampco Metal, Inc.
Atlas Drop Forge Co.
Bethlehem Steel Co.
Billings & Spencer Co., The
Bohn Aluminum & Brass Corp.
Bridgeport Brass Co.
A. M. Byers Co.
*CAMERON IRON WORKS INC.
G. O. Corlson, Inc.
Chose Brass & Copper Co., Inc.
Collins Mfg. Corp.
Consolidated Industries, Inc.
Crucible Steel Co. of America
Curtiss-Wright Corp., Metals Processing Div.
Custom Tool & Mfg. Co.
Eaton Mfg. Co., Valve Div.
Harvey Aluminum
Earle M. Jorgensen Co.
Kaiser Aluminum & Chemical Sales, Inc.
Kelsey-Hayes Co.
Kelsey-Hayes Co., Utica Drop Forge & Tool Div.
Kohler Co.
Ladish Co.
Charles E. Larson & Sons, Inc.
Midvale-Heppenstall Co.
NUMEC-Nuclear Materials & Equipment Corp.
National Forge Co.
National Tube Div., United States Steel Corp.
Ohlson Empire Inc.
Petitbone Mulliken Corp.
Revere Copper & Brass Inc.
Scovill Mfg. Co.
Solar Aircraft Co.
Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.
Steel Improvement & Forge, The
Struthers Well Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
Titan Metal Mfg. Co., Div.-Cerro de Pasco Corp.
Tube-Turns Div., Chemetron Corp.
United States Steel Corp.
Universal-Cyclops Steel Corp.
Vanadium-Alloys Steel Co.
Westinghouse Electric Corp.
Wyman-Gordon Co.

FORGINGS, UPSET

ACF Industries Inc.
Allied Products Corp.
Aluminum Co. of America
American Brake Shoe Co.
American Car & Foundry Div., ACF Industries, Inc.
Ampco Metal, Inc.
Atlas Drop Forge Co.
Autoscrew Co., Inc.
Bethlehem Steel Co.
Billings & Spencer Co., The
A. M. Byers Co.
G. O. Corlson, Inc.
Commercial Shearing & Stamping Co.
Curtiss-Wright Corp., Metals Processing Div.
Custom Tool & Mfg. Co.
Dana Corp.
Eaton Mfg. Co., Valve Div.
Endicott Forging & Mfg. Co., Inc.
H. M. Harper Co.
Harvey Aluminum
Earle M. Jorgensen Co.
Kaiser Aluminum & Chemical Sales, Inc.
Kelsey-Hayes Co.
Kelsey-Hayes Co., Utica Drop Forge & Tool Div.
Ladish Co.
Ohlson Empire Inc.
Petitbone Mulliken Corp.
Republic Steel Corp.
Scovill Mfg. Co.
Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.
Steel Improvement & Forge, The
Struthers Wells Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
Tube-Turns Div., Chemetron Corp.
United States Steel Corp.
Universal-Cyclops Steel Corp.
Vanadium-Alloys Steel Co.
Westinghouse Electric Corp.

Wilcox-Crittenden Div., North & Judd Mfg. Co.
Wyman-Gordon Co.

FORMS, ANTENNA

Aerono Mfg. Corp.-Aerospace Div.
Art Wire & Stamping Co.
Brooks & Perkins, Inc.
Chance Vought Aircraft, Inc.
*MARTIN CO., THE, DENVER DIV.
National Moldite Co.
Norrich Screw Machine Products
TRG, Inc.
Thor Ceramics, Inc.

FORMS, UPSET

ACF Industries Inc.
Art Wire & Stamping Co.
Chicago Screw Co., The, Div.-Standard Screw Co.
Ladish Co.
Norrich Plastics Corp.
Norrich Screw Machine Products
Republic Steel Corp.

FREQUENCY CALIBRATION SERVICES

Aeroscience, Inc.
Aerac Inc.
American Machine & Foundry Co., Government Products Group.
Burton-Rodgers, Inc.
Designers for Industry, Inc.
Eidson Electric Co.
Electronic Applications, Inc.
FXR, Inc.
Fenske, Fedrick & Miller Inc.
General Communication Co.
Guided Missile Div., The Firestone Tire & Rubber Co.
Gulton Industries, Inc.
Hathaway Instruments, Inc.
Hewlett-Packard Co.
ITT Federal Div., International Telephone & Telegraph Corp.
Loral Electronics Corp.
*MARTIN CO., THE, DENVER DIV.
National Co., Inc.
New London Instrument Co. Inc.
Northeastern Engr. Inc.
Northern Engr. Laboratories, Inc.
Philomont Labs. Inc.
Production Research Corp., Sub.-Radio Condenser Co.
*RADIO CORP. OF AMERICA
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
State Testing Laboratory Inc.
Sunshine Scientific Instrument
TRG, Inc.

FREQUENCY METERS

Aero Instrument Co.
Airox Electronics Inc., Cambridge Div.
Airox Electronics Inc., Seminole Div.
Aerac Inc.
American Machine & Foundry Co., Government Products Group.
Avtron Mfg., Inc.
Beckman Instruments, Inc., Berkeley Div.
Bendix Aviation Corp., Cincinnati Div.
James G. Biddle Co.
Budd Lewyt Electronics, Inc.
Budelman Electronics Corp.
Burton-Rodgers, Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Crosby-Teltronics Corp.
Daystrom Inc., Weston Instruments Div.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Hugh H. Eby Co.
Electro Instruments, Inc.
Electronic Applications, Inc.
Epic, Inc.
FXR, Inc.
Fenske, Fedrick & Miller Inc.
General Communication Co.
General Electric Co., Apparatus Sales Div.
General Electric Co., Instrument Dept.
General Radio Co.
Helipot Div.-Beckman Instruments, Inc.
Hewlett-Packard Co.
I-L-S Instrument Div., The Meriom Instrument Co.
Iconix Inc.
Kohn & Co., Inc.
Koy Electric Co.
Jones Knights Co., The
Lompkin Labs., Inc., M.R. Div.
Lovioe Labs, Inc.
Loral Electronics Corp.
Mico Instrument Co.
Microwave Associates, Inc.
Jones Millen Mfg. Co. Inc.

Narda Microwave Corp., The National Co., Inc.
National Electronics
Northeastern Engr. Inc.
Piesecki Aircraft Corp.
Potter Aeronautical Corp.
Production Research Corp., Sub.-Radio Condenser Co.

***RADIO CORP. OF AMERICA**

Sage Labs, Inc.
Sensitive Research Instrument Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.

Herman H. Sticht Co., Inc.
Sun Electric Corp., Aeronautical Div.
Sunshine Scientific Instrument
U. S. Science Corp., Div.-Topp Industries, Inc.
Varo Mfg. Co., Inc.
Waugh Engrg. Co.
Waveline, Inc.
Westinghouse Electric Corp.

FUEL HANDLING EQUIPMENT

ACF Industries Inc.
Accessory Products Co., Div.-Textron Inc.
Aeroquip Corp., Jackson Div.
Aerotest Laboratories, Inc.
Agricultural Aviation Engineering Co. Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Aviation Corp.
Bendix Filter Div., Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**

Bowser, Inc.
Bowser Inc., Defense Div.
Buckeye Iron & Brass Works
Butler Mfg. Co.
Cameralex Div., The, Federal Mfg. & Engrg. Corp.
J. C. Carter Co., The
Compydne Corp.
Consolidated Diesel Electric Corp.
Continental-Emsco Co., Div.-The Youngstown Sheet & Tube Co.
Dempster Brothers, Inc.
Douglas Aircraft Co., Inc.
Ex-Cell-O Corp.
FWD Corp.
Flight Refueling, Inc.
Flight Support, Inc.
Food Machinery & Chemical Corp., Ordnance Div.
Fruehauf Trailer Co., Military Equipment Div.
General Mills, Inc.
B. F. Goodrich Aviation Products
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Graver Tank & Mfg. Co., Div.-Union Tank Car Co.
Guided Missile Div., The Firestone Tire & Rubber Co.
B. H. Hadley, Inc.
Hamilton Standard
Harman Equipment Co.

***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.**

Jeffrey Mfg. Co., The
Kieley & Mueller, Inc.
***MARTIN CO., THE, DENVER DIV.**
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.

National Scientific Labs, Inc.
National Tube Div., United States Steel Corp.
Nelson Electric Mfg. Co.
On Mark Couplings, Inc.
Portland Copper & Tank Works Inc.
Pryor Mfg. Co.
Ref Mfg. Corp.
Scott Aviation Corp.
Simmonds Aerocessories, Inc.
Southwest Research Institute
Standard Steel Corp., Cambridge Div.
Standard Steel Works, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Weatherhead Co., The
Western Div., Aeroquip Corp.
Whittaker Controls, Div.-Telecomputing Corp.

FUEL LINES

Aeroquip Corp., Jackson Div.
American Tube Bending Co., Inc.
Arnolt Corp.
Basic Tool Industries, Inc.
Breeze Corporations, Inc.
Consolidated Vacuum Corp.
Douglas Aircraft Co., Inc.
Dunbar-Kapple Inc.-Aircraft Components Div.
Flexible Metal Hose Mfg. Co.
Flexonics Corp.
B. F. Goodrich Aviation Products
Imperial Brass Mfg. Co., The
Kieley & Mueller, Inc.

Le Fiell Mfg. Co.
MB Electronics
M & Q Plastic Products
On Mark Couplings, Inc.
Parts Engrg. Co., Inc.
Resistoflex Corp.
Southwest Research Institute
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Thermoid Div.-H. K. Porter Co., Inc.
United States Steel Corp.
Weatherhead Co., The
Western Div., Aeroquip Corp.
Whittaker Controls, Div.-Telecomputing Corp.
Woolf Aircraft Products, Inc.

FUEL SYSTEMS & EQUIPMENT

- a. Balancing Controls
- b. Flaw Detectors Or Distributors
- c. Injection Equipment
- d. Lines
- e. Mixture Controls, Automatic
- f. Pressure Gauges
- g. Pressure Warning Units
- h. Ratio Controllers
- j. Strainers

***AC SPARK PLUG, THE ELECTRONICS DIV. GENERAL MOTORS, h.**

ACF Industries Inc., c, e, f, h, j.
Accessory Products Co., Div.-Textron Inc., a, b, j.
Acoustica Associates, Inc., a, b, e.
Actuation Research Corp., b, i.
Adel Precision Products of Calif., Div.-General Metals Corp., h.
Aero Supply Mfg. Inc., a, b, e, j.
Aeroquip Corp., Jackson Div., d.
Aerotec Industries Inc., Aircraft Equipment Div., a, b, g.
Air Logistics Corp.
Airterra, j.
Aircraft Accessory Turbine Dept.-General Electric Co., h.

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., b, e.**

Allison Div., General Motors Corp., a, b, e.
American Machine & Foundry Co., Government Products, N. Y.
Arnolt Corp., d.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., d.
Avien, Inc., a, e, i.
Benbow Mfg. Corp., c.
Bendix Aviation Corp., c, e, f, h, j.

***BENDIX AVIATION CORP., HAMILTON DIV., h.**
Bendix Aviation Corp., Montrose Div., f, g.

***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., a, b, c, e, h, i, j.**

Bendix Utica Div., Bendix Aviation Corp., b, h.
A. Biederman, Inc., f, g.
Bowser, Inc., a, b, c, e, h.
Bowser Inc., Defense Div., j.
Brooks Rotameter Co., e.
Bruening Co., The., a.
Byron Jackson Pumps, Inc., h.
Captive Seal Corp., b, i.
Carleton Aviation Co., Inc., a, e.
J. C. Carter Co., The, c, h.
A. W. Cash Valve Mfg. Corp., j.
Caterpillar Tractor Co., Defense Products Dept., c.
Chance Vought Aircraft, Inc.
Components Corp., e.
Compydne Corp., e.
Consolidated Controls Corp., f, g, i.
Consolidated Diesel Electric Corp.
Consolidated Vacuum Corp., f, h.
Continental-Emsco Co., Div.-The Youngstown Sheet & Tube Co., h.
Crescent Engrg. & Research Co., g.
Custom Component Switches Inc., a, b, g, i.
Delavan Mfg. Co., b, c.
Douglas Aircraft Co., Inc.
Dynamic Controls Corp., a, g, i.
Eastern Industries, Inc., h.
Electric Autolite Co., The, f.
Ellison Draft Gage Co., Inc., f, g.
Ex-Cell-O Corp., b.

Fischer & Porter Co., i.
Flexonics Corp., d.
Flight Refueling, Inc.,
Fram Corp., j.
Garwin, Inc., f, g, h, j.
Great Lakes Mfg. Corp., f, g, h.
Guided Missile Div., The Firestone Tire & Rubber Co., b, d, j.
B. H. Hadley Inc., b, e, i.
Hamilton Standard, Div.-United Aircraft Corp., b, e, i.
Harman Equipment Co., j.
George E. Harris & Co., Inc., f.
Haskel Engrg. & Supply Co., h.
Hoefner Corp., e.

Holley Carburetor Co., b, e.
Ludwig Harold Mfg. Co., d.
Huyck Systems Co., b, c, h.
Imperial Brass Mfg. Co., The, d.
Joelin Mfg. Co., The, c.
Kemp Aero Products, a, b, h.
Kieley & Mueller, Inc., a, b, e, i, j.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., f.
Lear, Inc., a, c, e, g.
Liquidometer Corp., The, a.
M. C. Mfg. Co., h.
Madigan Corp., a, b, i.

***MARTIN CO., THE, DENVER DIV., b, c, e thru j.**

Metatron Corp., g.
Micro Gee Products, Inc., a, e, i.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., c, b.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div., a, b, e, g, i.
Mitchell Camera Corp., g.
Newark Wire Cloth Co., j.
On Mark Couplings, Inc., d.
Ordnance Engrg. Associates, Inc., f.
Parker-Hannifin Corp., b, c.
Parts Engrg. Co., Inc., d.
Peerless Pump Div., Food Machinery & Chemical Corp., h.
Pequot Wire Cloth Co., j.
Pesco Products Div.-Borg-Warner Corp., h.
Pneu-Hydro Valve Corp., b, e.
Potter Aeronautical Corp., b, i.
Puralator Products Inc., j.
Republic Mfg. Co., b, g.
Research Controls, b, c, e.
Resistoflex Corp., d.
Revere Corp. of America, Sub., Neptune Meter Co., b.

J. R. Robbins Co., j.
Rocketdyne Div.-North American Aviation, Inc.,
Roylyn Inc., j.
Sargent Engr. Corp., b.
Schaevitz Engrg. g.
Servomechanisms, Inc., e.
Simmonds Aerocessories, Inc., a, c, f.
Skyvalve, Inc., e.
Southwest Research Institute, a, b, c, e thru h.
Standard Steel Corp., Cambridge Div., h.
Statham Instruments, Inc., f, g.
A. U. Stone & Co., Inc., b.
Stratos, Div.-Fairchild Engine & Airplane Corp., h.
Sunstrand Turbo
T. O. D. Mfg. Co. Inc., j.
Tapco Group, Thompson Ramo Wooldridge Inc., a, b, h.

Thompson Ramo Wooldridge Inc., a, b, h.
Titelflex, Inc., d.
United Aircraft Products Inc.,
Varo Mfg. Co., Inc., a, i.
Vickers Inc., Div.-Sperry Rand, h.
Vickers, Inc., Mich., h.
Weatherhead Co., The, d.
Western Div., Aeroquip Corp., d.
Whittaker Controls, Div.-Telecomputing Corp., a thru e, h.
Woolf Aircraft Products, Inc., d.
Worthington Corp., h.

FUELS, LIQUID

Air Products, Inc.
Allied Chemical Corp., General Chemical Div.
Allied Chemical Corp., Nitrogen Div.
American Potash & Chemical Corp., National Northern Div.
Anderson Chemical Co., Div.-Stauffer Chemical Co.
Ashland Oil & Refining Co.
Bell Oil & Gas Co.
Bjorksten Research Labs. for Industry, Inc.
Callery Chemical Co.
Chlor-Alkali Div.-Food Machinery & Chemical Corp.
Esso Standard, Div.-Humble Oil & Refining Co.
Food Machinery & Chemical Corp., Ordnance Div.
Hughes Tool Co., Aircraft Div.
Hummel Chemical Co., Inc.
Linde Co., Div.-Union Carbide Corp.
Liquid Carbonic Div.-General Dynamics Corp.
Monsanto Chemical Co.
National Cylinder Gas, Div., Chematron Corp.
Olin Mathieson Chemical Corp.
Olin Mathieson Chemical Corp., N. Y.
Pennsalt Chemicals Corp.
Rocketdyne Div.-North American Aviation, Inc.
Seminole Asphalt Refining, Ltd.
Shell Chemical Co., Indsl. Chemical Div.
Southwest Research Institute
Standard Oil Co. of Indiana
Stauffer Chemical Co.
U. S. Indsl. Chemicals Co., Div.-Natl. Distillers & Chemical Corp.

FUELS, SOLID

*AEROJET-GENERAL CORP.

Allied Chemical Corp., Nitrogen Div.
Amcel Propulsion Inc.
American Latex Products Corp.
American Potash & Chemical Corp., National Northern Div.
Anderson, Greenwood & Co.
Bermite Powder Co.
Bjorksten Research Labs for Industry, Inc.
A. M. Byers Co.
Callery Chemical Co.
Chlor-Alkali Div., Food Machinery & Chemical Corp.
Eastern Chemical Div., Hooker Chemical Corp.
Food Machinery & Chemical Corp., Epoxy Dept.
Food Machinery & Chemical Corp., Ordnance Div.
Gabriel Co., Rocket Power-Talco
B. F. Goodrich Chemical Co.
Grand Central Rocket Co.
Hercules Powder Co., Chemical Propulsion Div.
Hughes Tool Co., Aircraft Div.
Hummel Chemical Co., Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Mc Cormick Selph Associates
Naugeth Chemical Div.-U.S. Rubber Co.
Olin Mathieson Chemical Corp., N. Y.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Pennsalt Chemicals Corp.
Propellex Chemical Div., Chromalloy Corp.
Rocketdyne Div., North American Aviation, Inc.
Solid Propulsion Ops., Rocketdyne Div., North American Aviation
Southwest Research Institute
Standard Oil Co. of Indiana
Stauffer Chemical Co.
Young Development Div., Hercules Powder Co.

FURNACES

American Gas Furnace Co.
American Instrument Co., Inc.
Auto-Control Labs. Inc.
A. M. Byers Co.
California Stamping & Mfg. Co.
Consolidated Vacuum Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Despatch Oven Co.
Edwards High Vacuum Ltd.
Eisler Engrg. Co., Inc.
Engelhard Industries, Inc.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
General American Transportation Corp.
General Electric Co., Apparatus Sales Div.
General Vacuum Corp.
Hevi-Duty Electric Co., Div.-Basic Products Corp.
High Vacuum Equipment Corp., Sub.-Robinson Tech Products, Inc.
A. F. Holden Co., The
Huppert, K. H., Co.
Kanthal Corp., The
Lepel High Frequency Labs. Inc.
Lindberg Engrg. Co.
Lucifer Furnaces Inc.
NUMEC-Nuclear Materials & Equipment Corp.
Pacific Scientific Co.
Pioneer Industries Div., Almar-York Co., Inc.
Edw. Renneburg & Sons Co.
Selas Corp. of America
Shaw Burner Co.
Shaw Process Development Corp., Div.-British Industries Corp.
Sheridan-Gray Inc.
Special Products Dept., Melpar Inc.
Steiner-Ives Co.
Stewart Engrg. Co.
F. J. Stokes Corp.
Surface Combustion Div.-Midland-Ross Corp.
Thermal Research & Eng. Corp.
Tocco Div., The Ohio Crankshaft Co.
Vacuum Specialties Co., Inc.
Whiting Corp.
Zirconium Corp. of America

FUSES, ELECTRICAL

- a. Cartridge
- b. Grasshopper
- c. Ordnance
- d. Plug
- e. Proximity

American Potash & Chemical Corp., National Northern Div., a thru e.
Associated Engineers, Inc., a, d.
Avco Corp., Crosley Div., c, d, e.
Bel Fuse Inc., a.
Bendix Aviation Corp., Cincinnati Div., c, e.
Bermite Powder Co., c, e.
Bulova Research & Development Labs, Inc., c, e.

Burdny Corp., Omaton Div., a.
Bussmann Mfg. Div., Mc Grow-Edison Co., a, b, d.
Cable Electric Products Inc., d.
Cleveland Metal Specialties Co., Electronics Div., c, e.
Clevite Ordnance, Div.-Clevite Corp., c.
Joe Davidson & Associates, a.
De Havilland Aircraft of Canada, Ltd., Special Products Div., e.
Eagle Electric Mfg. Co., Inc., a, d.
Eastman Kodak Co., c, e.
Emertron, Sub.-Emerson Radio & Phonograph Corp., c, e.
General Aniline & Film Corp., Anso Div., c.
General Electric Co., Missile & Space Vehicle Dept. Pa., c.
Hamilton Watch Co., Military Products Div., c, e.
Hartwell Aviation Supply Co., a, b.
Hermetic Seal Corp. & Thermal Controls, Inc., a.
Littelfuse, Inc., a.
Lockheed Aircraft Corp., Missiles & Space Div., c.
Manhattan Lighting Equipment Co., Inc., a, d.
Monarch Electric Corp., a, d.
Olin Mathieson Chemical Corp., N. Y., c.
Olin Mathieson Chemical Corp., Winchester-Western Div., c.
Ordnance Research & Development Co., Div.-Bermite Powder Co., c, e.
Patterson Moos Research, Div.-Leesona Corp., c, e.
Photobell Co., Inc., e.
Royal Electric Corp., a, b, d.
Santa Barbara Research Center, e.
Sightmaster Corp., a, b.
Westinghouse Electric Corp., a, c, e.

GALVANOMETERS

B & H Instrument Co., Inc.
Bach Auricon, Inc.
James G. Biddle Co.
Bruno-New York Industries Corp.
Calvert Electronics Inc.
Century Electronics & Instruments, Inc.
*CONSOLIDATED ELECTRODYNAMICS CORP.
Daystrom Inc., Weston Instruments Div.
*ENGIS EQUIPMENT CO.
Epic, Inc.
Fisher Scientific Co., Maryland
G-M Labs. Inc.
General Electric Co., Apparatus Sales Div
Graebach Instruments Corp.
Hathaway Instruments, Inc.
Hickok Electrical Instrument Co., The
Illinois Testing Laboratories, Inc.
Leeds & Northrup Co.
Massa Div.-Cohu Electronics, Inc.
Meters Inc.
Midwestern Instruments, Inc.
Minneapolis-Honeywell, Heiland Div.
National Electronics
New England Scientific Instruments Co.
Pace Electrical Instruments Co., Inc.
Photron Instrument Co.
Pimex, Inc.
Sensitive Research Instrument Corp.
Shallcross Mfg. Co.
Simpson Electric Co.
Southwestern Industrial Electronics Co.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

GAS ANALYZERS

Air Products, Inc.
Allen Electric & Equipment Co.
American Instrument Co., Inc.
Baird-Atomic, Inc.
Bendix Aviation Corp.
*CONSOLIDATED ELECTRODYNAMICS CORP.
Davis Instruments
Elison Draft Gage Co., Inc.
Engelhard Industries, Inc.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
General Electric Co., Apparatus Sales Div.
Instrumentation Associates, Inc.
Jarrrell-Ash Co.
Johnson-Williams, Inc.
Leeds & Northrup Co.
Mira Corp., The
Patterson Moos Research, Div.-Leesona Corp.
Perkin-Elmer Corp.
Pioneer Industries Div., Almar-York Co., Inc.
Process & Instruments
Milton Ray Co.
Southwest Research Institute
Sun Electric Corp., Aeronautical Div.
Victory Engrg. Corp.

GAS GENERATING DEVICES

Aerojet-General Corp., Downey Plant
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.

Aircraft Accessory Turbine Dept.-General Electric Co.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
American Potash & Chemical Corp., National Northern Div.
Amoco Chemicals Corp.
Arde-Portland, Inc.
Armament Div.-Universal Match Corp.
Bermite Powder Co.
Cryogenerators, Inc.
Engelhard Industries, Inc.
Gabriel Co., Rocket Power-Talco
Gas Atmospheres Inc.
Gow-Mac Instrument Co.
Hays Corp., The
Hevi-Duty Electric Co., Div.-Basic Products Corp.
*HOLEX, INC.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
Janitrol Aircraft Div.-Midland-Ross Corp.
Kilgare Inc., International Flame-Signal Div.
Lithium Corp. of America Inc., The Fulton Argon Div.
Mc Cormick Selph Associates
Olin Mathieson Chemical Corp., N. Y.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Pressed Steel Tank Co.
Propellex Chemical Div., Chromalloy Corp.
Rocketdyne Div.-North American Aviation, Inc.
Solid Propulsion Ops., Rocketdyne Div., North American Aviation
South Wind Div., Stewart Warner Corp.
Southwest Research Institute
Thermal Research & Eng. Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Vickers, Inc., Mich
Wallace & Tiernan Inc.

GASES, NITROGEN

Air Products, Inc.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Armour Industrial Chemical Co.
Engelhard Industries, Inc.
Gas Atmospheres Inc.
General Electric Co., Lamp Metals & Components Dept.
Linde Co., Div.-Union Carbide Corp.
Liquid Carbonic Div. General Dynamics Corp.
National Cylinder Gas., Chemetron Corp.

GASES, RARE

Air Products, Inc.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Associated Engrg. & Mfg. Corp.
General Electric Co., Lamp Metals & Components Dept.
Linde Co., Div.-Union Carbide Corp.
National Cylinder Gas, Div., Chemetron Corp.

GASKET PASTE & CEMENT

ACF Industries Inc.
Air Products, Inc.
Anchor Packing Co., The
Armstrong Cork Co.
Connecticut Hard Rubber Co., The
Garlock Packing Co.
Greene, Tweed & Co.
*MARTIN CO., THE, DENVER DIV.
*MINNESOTA MINING & MFG. CO.
National Engrg. Products, Inc.
National Felt Co.
Parker Fittings & Hose Div., Parker-Hannifin Corp.

GASKETS, METALLIC

Advanced Products Co., The
Aero Gasket Corp.
Aero Spares, Inc.
Airtrol, Div.-Littion Industries
All Specs Corp.
Allied International Corp.
Alloys Unlimited Inc.
Alpha Metals, Inc.
Alpiter, Inc.
American Instrument Co., Inc.
Anchor Metal Co., Inc.
Anchor Packing Co., The
Auburn Mfg. Co., The
L. J. Barwood Mfg. Co., Inc.
Belmont Smelting & Refining Works, Inc.
Cadillac Gage Co.
California Stamping & Mfg. Co.
Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
D. S. D. Mfg. Co., The
Diamond Antenna & Microwave Corp.
Division Lead Co.
Garlock Packing Co.
Gasket Mfg. Co., Inc.
Greene, Tweed & Co.
Walter K. Jaros Aircrafters

Johns-Manville Sales Corp.
 Kentucky Metal Products Co.
 Kling Metal Spinning & Stamping Co.
 Laminated Shim Co., Inc.
 Mercury Air Parts Co., Inc.
 Metallo Gasket Co.
 Ohlson Empire Inc.
 Parker Seal Co., Div.-Parker-Hannifin Corp.
 Penn Fibre & Specialty Co., Inc.
 Resistollex Corp.
 United Aircraft Products, Inc.
 Vacuum Research Co.
 Vicor Mfg. & Gasket Co.
 Wilmington Fibre Specialty Co.
 Winder Aircraft Corp. of Florida

GASKETS, NON-METALLIC

Acushnet Process Co.
 Aero Gasket Corp.
 Aero Leather Products Co.
 Amtron, Div.-Liton Industries
 All Specs Corp.
 Allied Engraving & Stamping Co.
 American Felt Co.
 Anchor Packing Co., The
 Armstrong Cork Co.
 Auburn Mfg. Co., The
 L. J. Barwood Mfg. Co. Inc.
 Cameralflex Div., The, Federal Mfg. & Engrg. Corp.
 Carborundum Co., The
 Chemplast, Inc.
 Chicago Gasket Co.
 Chicago Rawhide Mfg. Co.
 Colonial Rubber Co.
 Connecticut Hard Rubber Co., The
 Continental Felt Co.
 Continental Rubber Works
 Crystal-X Corp.
 Diamond Antenna & Microwave Corp.
 Emerson Plastics Corp.
 Enlob Inc.
 Felters Co., The
 Flock Process Co. Inc.
 Fluorocarbon Co., The
 Franklin Fibre-Lamitex Corp.
 Garlock Packing Co.
 Garlock Packing Co., The-Electronic Products
 Gasket Mfg. Co. Inc.
 General Gasket Inc.
 B. F. Goodrich Sponge Products
 Gordon Rubber & Packing Co. Inc.
 Goshen Rubber Co., Inc.
 Greene, Tweed & Co.
 Halogen Insulator & Seal Corp.
 Walter K. Jaros Aircrafters
 Joelin Mfg. Co., The
 Johns-Manville Sales Corp.
 Ineor, Inc.
 Thomas J. Long, Inc.
 Mechanical Rubber Products Co.
 Mercury Air Parts Co., Inc.
 Metallo Gasket Co.
 Mico Insulator Div.-Minnesota Mining & Mfg. Co.
 *MINNESOTA MINING & MFG. CO.
 National Felt Co.
 Ohlson Empire Inc.
 Parker Seal Co., Div.-Parker-Hannifin Corp.
 Penn Fibre & Specialty Co., Inc.
 Polymer Corp., The
 Products Research Co.
 Roybestos-Manhattan, Inc.
 Reeves Brothers, Inc.
 Reeves Bros. Inc., Vulcan Rubber Div.
 Resistollex Corp.
 Fred T. Roberts & Co.
 Rogers Corp.
 Rubbercraft Corp. of California
 Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co.
 Stillman Rubber Co.
 Swift Textile Metalizing & Laminating Corp.
 Tetrafluor, Inc.
 Thermoid Div.-H. K. Porter Co., Inc.
 Union Asbestos & Rubber Co.
 United States Rubber Co.
 Victor Mfg. & Gasket Co.
 Western Felt Works & Acadia Synthetic Products
 Div.
 Winder Aircraft Corp. of Florida
 Wire Cloth Enterprises, Inc.

GAUGES

- a. Air Pressure
- b. Compression
- c. Differential Pressure
- d. Displacement Measuring
- e. Fuel Pressure
- f. Fuel Quantity
- g. Hydraulic Pressure
- h. Liquid Level
- i. Multifold Pressure

- j. Oil Level
- k. Oil Pressure
- l. Outside Air Temperature
- m. Pressure
- n. Quantity
- o. Strain
- p. Suction
- q. Tension
- r. Thickness, Electronic
- s. Torque Pressure
- t. Ultrasonic Thickness
- u. Vacuum

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS, k, m.
 ACF Industries Inc., k.
 Aerospace, Inc., a, q, s.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc., a, i, m.

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., r.
 *AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP., a, c, thru g, l, m, u.
 Allegany Instrument Co., Inc., m, o.
 Allied International Corp., a, c, g, p, u.
 American Brake Shoe Co., g.
 American Instrument Co., Inc., a, c, g, h, k, m, a, r, u.
 American Machine & Foundry Co., Government Products, N r

*ARNOUX CORP., d, l.
 Atlantic Research Corp.
 Automatic Timing & Controls, Inc., d, m, q, r, u.
 Automation Products, Inc., h.
 Avien, Inc., f, h, j, l.
 Baldwin-Lima-Hamilton Corp., Electronics & Instrumentation Divs., c, m, a, q, s.
 Bendix Aviation Corp., f, h, l.
 Bendix Aviation Corp.-Montrose Div., c, e, g, i, k, m, s.
 Bergen Labs., Inc. s.
 A. Biederman, Inc., a, c, e, thru n, p, s, u.
 Binks Mfg. Co., a.
 Breeze Corporations, Inc., a.
 *BRISTOL CO., THE, a, c, g, h, m, p, u.
 Brown & Sharpe Mfg. Co., r.
 Budd Co., The, b, c, g, h, m, a, q, r.
 Bulovo Research & Development Labs., Inc., s.
 Bytrec Corp., a, q, s.
 Central Electronic Mfrs., Div.-Nuclear Corp. of America, u.
 Central Scientific Co., u.
 Cincinnati Milling Machine Co., The, a, g, r.
 Circo Equipment Co., t.
 Circo Ultrasonic Corp., t.
 Cleveland Instrument Co., d, r.
 G. L. Collins Corp., d.
 Conaflow Corp., a, h, m.
 Consolidated Airborne Systems, Inc., f, h, j.
 Consolidated Controls Corp., a, c, e, g, i, k, m, p, s, u.

*CONSOLIDATED ELECTRODYNAMICS CORP., c, d, m, a, u.
 Consolidated Vacuum Corp., u.
 Continental Electric Co., u.
 Cornell Deep Drawing Co., Div.-Lanes Industries Corp., a.
 Courter Products, Div.-Model Engrg. & Mfg., Inc., a, k, s.
 Crescent Engrg. & Research Co., c, d, e, r.
 Custom Component Switches Inc., a, c, e, g, i, k, m, u.
 Daystrom Inc., Pacific Div., a, c, e, g, i, k, m.
 Daystrom Inc., Weston Instruments Div., m, p, r.
 Dayton Corp., d, a, q, r, s.
 Decker Corp., The, a, c, f, h, j, m, r, u.
 Delsen Corp., r.
 De Vilbiss Co., The, a.
 Diamond Power Specialty Corp., h.
 J. W. Dice Co., r.
 Dill Mfg. Co., The, a.
 W. C. Dillon & Co., Inc., q, s.
 Djeco, Div.-Djordjevic Engrg. Co., r.
 Dumont Engrg. Co., h.
 Dynisco, Inc., a, b, c, g, m, a, q.
 Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., e, g, i, k, l, m, s.
 Edwards High Vacuum Ltd., m, u.
 Eitel-McCullough, Inc., u.
 Electric Autolite Co., The, a, g, k, l, m, u.
 Ellison Draft Gage Co., Inc., a, c, m, p.
 Endevo Corp., m.
 Erco Engrg. Corp., b, c, d, m, q.
 Falcon Machine & Tool Co., a, s.
 Federal Products Corp., r.
 Fisher Scientific Co., h, u.
 Fisher Scientific Co., Maryland, u.
 Fleetwood Labs., Inc., r.
 Fonda Gage Co., Inc.
 Frick Co., m

Friez Instrument Div., Bendix Aviation Corp., e, g, i, k, s.
 Garwin, Inc., c, e, g, i, k, l, p, u.
 General Controls Co., a, l, m.
 General Electric Co., Apparatus Sales Div., m, o, q, r, u.
 General Electric Co., X-Ray Dept., h, r.
 General Kinetics Inc., m, q.
 Paul E. Gerst & Co.
 Gilmore Industries, Inc., a.
 Gits Brothers Mfg. Co., a, j.
 Glasco Instrument Co., a, c, e, g, i, k, m, p, u.
 Great Lakes Mfg. Corp., a, e, g.
 Gulton Industries Inc., c, m.
 Haagen Chemicals & Controls Inc., c.
 George E. Harris & Co., Inc., c.
 Haskel Engrg. & Supply Co., a, g, s.
 Helicoid Gage Div.-American Chain & Cable Co., Inc., a, e, g, h, k, m, o, u.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., u.
 E. Vernon Hill & Co., a, l, m, u.
 Hako Inc., a, e, g, i, k, m.
 Hunter Spring Co., Div.-American Machine & Metals, Inc., q.
 Illinois Testing Laboratories, Inc., l.
 Intra Corp., q.
 Interno Mfg. Corp., h.
 Instrument Div., The Budd Co., b, a, q, s.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, h, n.
 Wayne Kerr Corp., d, r.
 Kieley & Mueller, Inc., d, h.
 Kistler Instrument Corp., b, g, i, m.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., a, c, e, i, m, p.
 Lear, Inc., h, j, o.

*WALLACE O. LEONARD, INC., a, c, e, g, h, m, u.
 Lewis Engrg. Co., The, i.
 Liquidometer Corp., The, f, h, j, n.
 MSA Research Corp., m.
 Magnalux Corp., Sub.-General Mills, Inc., t.
 Magnetic Instrument Co. Inc., h.
 Marsh Instrument Co., Div.-Colorado Oil & Gas Corp., a, e, g, i, k, m, a, u.
 *MARTIN CO., THE, DENVER DIV., a, q, s.
 Martin-Decker Corp., a, g, k, m, q, u.
 Mead Specialties Co., Inc., a.
 Minneapolis-Honeywell Regulator Co.-Aeronautical Div., f, h, j.
 C. A. Morgan Co., a.
 Murhead Instruments Inc., q, r.
 Narda Ultrasonics Corp., The, h.
 National Ultrasonic Corp., t.

Newton Hydraulic Tooling Co., g.
 Nuclear Corp. of America, h, u.
 Nuclear Development Corp. of America, h.
 Oil-Rite Corp., h, j.
 Overload Control Co., s.
 Oxygen Equipment & Service Co., u.
 Pacific Scientific Co., q.
 Pennsylvania Tool & Mfg. Co., The
 Philips Electronic Instruments, r.
 Photocon Research Products, c, d, t.
 Pioneer Industries Div., Almar-York Co. Inc., r, t.
 Wm. Powell Co., The, h.
 Puritan Aerospace Div.-Puritan Compressed Gas Corp.
 Rahm Instruments Div.-American Machine & Metals, a, c, e, thru n.
 Recony Div.-Vincro Corp.
 Republic Mfg. Co., h, j.
 Research Indst. Lab. of Electronics, u.
 Restron Labs., Inc., u.
 Reverse Corp. of America, Sub., Neptune Meter Co., f, h, j.
 Rochester Mfg. Co. Inc., a, e, thru n.
 Rochester Mfg. Co. Inc. of Calif., a, e, thru h, j, thru n, p, u.
 Ronan & Kunz, Inc., h, u.
 Milton Roy Co., h.
 Rucker Co., The, j.
 Schaevitz Engrg., b, thru e, g, k, m, q, r, s.
 Scientific Engrg. Labs., Inc., u.
 Scott Aviation Corp., a, k, l, m.
 Servomechanisms, Inc., a, c, h, m.
 Sierra Electronic Corp., Div.-Phico Corp., u.
 Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp., f, h, j.
 Simmonds Aerocessories, Inc., o, e, thru h, j, k, m, n.
 Skidmore-Wilhelm Mfg. Co., q, s.
 Southwest Research Institute, a, d, e, f, h, thru m, o, r, t.
 Space Corp., h, s.
 Sperry Products Co., Div.-Howe Sound Co., t.
 Squiers Gage Co., n, o.
 Statham Instruments, Inc., a, thru e, g, k, m, a, p, q, u.
 Stewart-Warner Corp., Alemite Div., o, u.
 F. J. Stokes Corp., u.
 Superior Pneumatic & Mfg., Inc., o.

Taft-Peirce Mfg. Co., The, d.
 Technical Development Co., h, j.
 Technology Instrument Corp., a, c, d.
 Technoproducts, Inc., m.
 Techchrome Mfg. Corp., d, e, a, q.
 Texas Instruments Inc., h.
 Tracerlab Inc., h.
 Trans-Sonics, Inc., h, m, a, u.
 Trimount Instrument Co., h.
 Uehling Instrument Co., a, c, f, h, j, m, p, u.
 Unit Process Assemblies, Inc., r.
 Vacuum Specialties Co., Inc., u.
 Vacuum Tube Products, Div.-Hughes Aircraft Co., u.
 Veeco Vacuum Corp., a, i, u.
 Wallace & Tiernan Inc., m.
 Waters Mfg., Inc., s.
 Westler Instruments Corp., a, b, c, e, g, i, k, l, m, u.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co., u.
 Wells Industries Corp., h.
 Westinghouse Electric Corp., t.
 Zep Aero

GAUSSMETERS

R. B. Annis Co.
 Epic, Inc.
 General Electric Co., Apparatus Sales Div.
 Keithley Instruments, Inc.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 Rawson Electrical Instrument Co.
 Sensitive Research Instrument Corp.
 Sunshine Scientific Instrument

GEAR ASSEMBLIES REDUCTION

Advance Instrument Corp.
 Aircraft Accessory Turbine Dept.-General Electric Co.
 Allison Div., General Motors Corp.
 Arch Gear Works Inc.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 A. Biederman, Inc.
 Bowmar Instrument Corp.
 Bristol Instrument Gears, Inc.
 A. M. Byers Co.
 Caterpillar Tractor Co., Delense Products Dept.
 Clark Equipment Co.
 Croname Inc.
 Daimo Victor Co., Div.-Textron, Inc.
 Dana Corp.
 Joe Davidson & Associates
 *DEL MAR ENGRG. LABS.
 Dodge Mfg. Corp.
 Dynamic Gear Co., Inc.
 Elgin Micronics, West Coast Div.-Elgin National Watch Co.
 Exact Engrg. & Mfg. Inc.
 FAE Instrument Corp.
 Feedback Controls, Inc.
 Fenn Mfg. Co., The
 Florida Gears & Systems, Inc.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 Franke Gear Works, Inc.
 Gear Specialties, Inc.
 General Aniline & Film Corp., Anso Div.
 General Mills, Inc.
 Graflex Inc.
 Guidance Controls Corp.
 Hamilton Watch Co., Military Products Div.
 Hoover Electric Co.
 ITE Circuit Breaker Co., Special Products Div.
 Indiana Gear Works, Inc.
 Industrial Control Co.
 Inasco Co., Div.-Barry Controls Inc.
 Instru-Lec Corp.
 Jack & Heintz, Inc.
 Jan Hardware Mfg. Co., Inc.
 Juall Gear Co., Inc.
 Lear, Inc.
 Leemath Inc.
 Link Belt Co.
 Lycoming Div., Avco Corp.
 McGregor Mfg. Corp.
 Metron Instrument Co.
 Micron Gear Co., Inc.
 National Pneumatic Co., Inc., Holtzer-Cabot Divs.
 Piasecki Aircraft Corp.
 Precision Gears & Products, Inc.
 Rae Motor Corp.
 Rampe Mfg. Co.
 Reeves Instrument Corp.
 Research Development Mfg. Inc.
 Sargent Engrg. Corp.
 Sier-Bath Gear & Pump Co., Inc.
 Southwestern Industries, Inc.
 Spiroid Div., Illinois Tool Works
 Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.

Sundstrand Turbo
 Talley Corp., The
 Transcoil Div.-Daystrom Inc.
 U. S. Gear Corp.
 U. S. Industries, Inc.
 Vickers, Inc., Mich.
 Victor Tool & Mfg., Inc.
 Vinco Corp.
 Waste King Corp., Technical Products Div.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.

GEARS, POWDERED METAL

Bergen Carbide Co.
 Daystrom, Inc., Military Electronics Div.
 Eaton Mfg. Co.
 Keystone Carbon Co.
 Kwikset Powdered Metal Products
 Lear, Inc.
 Sier-Bath Gear & Pump Co., Inc.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.

GEARS, PRECISION

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS
 Aero Mfg. & Mach. Co., Inc.
 Aircraft Accessory Turbine Dept.-General Electric Co.
 Allied Products Corp.
 Allison Div., General Motors Corp.
 Arch Gear Works Inc.
 Atlas Precision Products Co.
 Beaver Gearworks, Inc.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bergen Carbide Co.
 A. Biederman, Inc.
 Boston Gear Works
 Bristol Instrument Gears, Inc.
 A. M. Byers Co.
 Camdale Precision, Inc.
 Clark Equipment Co.
 Commercial Shearing & Stamping Co.
 Daimo Victor Co., Div.-Textron, Inc.
 Dana Corp.
 Joe Davidson & Associates
 Daystrom, Inc., Military Electronics Div.
 Daystrom Inc., Transcoil Div.
 Dynamic Gear Co., Inc.
 Eastman Kodak Co.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
 Elgin Micronics, West Coast Div.-Elgin National Watch Co.
 Exact Engrg. & Mfg. Inc.
 FAE Instrument Corp.
 Feedback Controls, Inc.
 Fenn Mfg. Co., The
 Florida Gears & Systems, Inc.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 Franke Gear Works, Inc.
 Gap Instrument Corp.
 Gear Specialties, Inc.
 General Aniline & Film Corp., Anso Div.
 General Electric Co., Apparatus Sales Div.
 General Mills, Inc.
 Gleason Works
 Gordon Enterprises
 Graflex Inc.
 Grant Gear Works, Inc.
 Guidance Controls Corp.
 Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products Div.
 Hoover Electric Co.
 Hupp Aviation Div.-Hupp Corp.
 ITE Circuit Breaker Co., Special Products Div.
 Indiana Gear Works, Inc.
 Industrial Control Co.
 Instru-Lec Corp.
 Juall Gear Co., Inc.
 *KEARFOOT DIV., GENERAL PRECISION, INC.
 Kelsey-Hayes Co.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 La Vezzi Machine Works
 Lear, Inc.
 Leemath Inc.
 Link-Belt Co.
 Lycoming Div., Avco Corp.
 Massachusetts Gear Div.-Geartronics Corp.
 W. L. Maxson Corp., The
 Micron Gear Co., Inc.
 W. H. Nichols Co.
 Precision Gears & Products, Inc.
 Reaney Div.-Vinco Corp.
 Reeves Instrument Corp.
 Research Development Mfg. Inc.
 Sargent Engrg. Corp.
 Servomechanisms, Inc.

Sier-Bath Gear & Pump Co., Inc.
 Spiroid Div., Illinois Tool Works
 Herman D. Steel Co.
 Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.
 Sundstrand Turbo
 Talley Corp., The
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Techchrome Mfg. Corp.
 Thompson Ramo Wooldridge Inc.
 U. S. Gear Corp.
 U. S. Industries, Inc.
 Vickers, Inc., Mich.
 Vinco Corp.
 Waterbury Companies, Inc.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.

GEARS, RADIO & INSTRUMENT

Arch Gear Works Inc.
 Beaver Gearworks, Inc.
 Bristol Instrument Gears, Inc.
 Camdale Precision, Inc.
 Daimo Victor Co., Div.-Textron, Inc.
 Daystrom, Inc., Military Electronics Div.
 Dynamic Gear Co., Inc.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
 FAE Instrument Corp.
 Florida Gears & Systems, Inc.
 Frank Gear Works, Inc.
 General Aniline & Film Corp., Anso Div.
 General Mills, Inc.
 Gleason Works
 Graflex Inc.
 Gries Reproducer Corp.
 Hamilton Watch Co., Military Products Div.
 Indiana Gear Works, Inc.
 Instru-Lec Corp.
 Juall Gear Co., Inc.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 La Vezzi Machine Works
 Lear, Inc.
 Massachusetts Gear Div.-Geartronics Corp.
 Micron Gear Co., Inc.
 Reeves Instrument Corp.
 Research Development Mfg. Inc.
 Spiroid Div., Illinois Tool Works
 U. S. Gear Corp.
 Vinco Corp.
 Waterbury Companies, Inc.
 Western Gear Corp.-Precision Products Div.

GENERATORS

- a. Electric AC
- b. Electric DC
- c. Engine Driven
- d. Liquid Oxygen
- e. Liquid Oxygen, Mobile
- f. Plasma
- g. Sequence Indicators for Three Phase
- h. Tachometer
- i. Timing Marker

*AEROJET-GENERAL CORP., a, b.
 Aerona Mfg. Corp.-Aerospace Div., h.
 Air Products, Inc., d, e.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc., a, b, c.
 *AIRESEARCH MFG. OF ARIZONA, a, b, c.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, c.
 Allied International Corp., a, b, c.
 Allis Chalmers, a, b, c.
 Allison Div., General Motors Corp., a, b, c.
 American Machine & Foundry Co., Government Products Group, h.
 Avco Corp.-Research & Advanced Development Div., f.
 Barber-Colman Co., h.
 Beckman Instruments, Inc., Berkeley Div., h.
 Beech Aircraft Corp., c.
 Bendix Aviation Corp., a, b, c, h.
 Bendix Aviation Corp.-Monroese Div., h.
 Bogue Electric Mfg. Co., a, b, c, h.
 Breeze Corporations, Inc., b.
 Brunswick Instruments, g.
 Carson Mach & Supply Co., a, c.
 Caterpillar Tractor Co., Delense Products Dept., c.
 Caterpillar Tractor Co., Engine Div., a.
 Caterpillar Tractor Co., Industrial Engine Plant, a.
 Columbia Electric Mfg. Co., a, b.
 Communication Measurements Lab., Inc., a.
 Consolidated Diesel Electric Corp., a, b, c.
 Cosmic Instruments Inc., a, b.
 Courter Products, Div.-Model Engrg. & Mfg., Inc., h.
 Curtiss-Wright Corp., Santa Barbara Div., c.
 Davenport Mfg. Co., g.
 Joe Davidson & Associates, a, b, c, h.
 Daystrom Inc., Transcoil Div., a, h.

Daystrom Inc., Weston Instruments Div., h.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., a.
 Delco Products Div.-General Motors Corp., a, b.
 Detroit Diesel Engine Div.-General Motors Corp., a, b, c.
 Diehl Mfg. Co., a, b, h.
 Eacor Div.-Scranton, a, b, c, h.
 Electric Autolite Co., The, b, c.
 Electric Indicator Co. Inc., a, b, h.
 Electric Machinery Mfg. Co., a, c.
 Epic, Inc., h.
 Eureka Williams Corp., a, b.
 Ford Instrument Co., Div.-Sperry Rand Corp., h.
 Garwin, Inc., b, h.
 General Electric Co., Apparatus Sales Div., a, b, h.
 Genisco, Inc., a.
 Georator Corp., a, b, c, h.
 Paul E. Gerst & Co., a, b, c.
 Gordon Enterprises, i.
 Gremco, Inc., c.
 Hammett-Mercury-Rex Div., a, b, c.
 Hanson-Van Winkle-Munning Co., b.
 George E. Harris & Co., Inc., a, h.
 A. W. Haydon Co., The, h.
 Hertzner Electric Co., The, a, b.
 Hewlett-Packard Co., h.
 High Voltage Engrg. Corp., f.
 Hobart Brothers Co., a, b.
 Hol-Gar Mfg. Corp., a, b, c.
 Holtzer-Cabot Div., National Pneumatic Co., Inc., a, b, h.
 Homelite Div.-Textron Inc., a, b, c.
 Hoover Electric Co., a, b, c.
 William I. Horlick Co., Inc., a, b.
 I-I-S Instrument Div., The Meriam Instrument Co., h.
 IMC Magnetic Corp., h.
 Induction Heating Corp., a.
 *INTERELECTRONICS CORP., a, b.
 International Ferromat Machinery Co., Inc., c.
 Jack & Heintz, Inc., a, b, c, h.
 Jeto, Inc., a, c.
 Kato Engrg. Co., a, b, c.
 Katolith Corp., a, b, c.
 *KEARFOTT DIV., GENERAL PRECISION, INC., h.
 Ketay Dept., Norden Div., United Aircraft Corp., h.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., h.
 Leach Corp., a, b, c.
 Lear, Inc., a, b, c, f.
 Leece-Neville Co., The, a, b, c.
 Leland Airborne Products, Div.-American Machine & Foundry Co., a, b, c.
 Lincoln Electric Co., The, a, b, c.
 Linde Co., Div.-Union Carbide Corp., d, e.
 Motor Generator Corp., a, b, c.
 Motorayne Inc., a, b, h.
 Motoresearch Co., a, b, c.
 Heinz Mueller Eng. Co. Inc., a, b.
 Muirhead Instruments Inc., h.
 National Pneumatic Co., Inc., Holtzer-Cabot Div., a, b, h.
 Navigation Computer Corp.
 Northwestern Electric Co., a, b.
 D. W. Onan & Sons Inc., a, b, c.
 Orbitron Co., Inc., i.
 John Oster Mfg. Co., Avionic Div., a, h.
 Otis Elevator Co., Defense & Industrial Div., a, b.
 PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y., h.
 Patterson Maos Research, Div.-Leesona Corp., b.
 Pesco Products Div.-Borg-Warner Corp., a, b, c.
 Pesco Products Div., Borg-Warner Corp., Calif., a, b.
 Philco Corp. Govt. & Industrial Group, i.
 Pre-File Industries Corp.-Sub.-Avco Mfg. Corp., e.
 Pryor Mfg. Co., e.
 Radelab Inc., a.
 *RADIO CORP. OF AMERICA, f.
 Radio Development & Research Corp., a, b, c, h.
 Ready-Power Co., The, c.
 Reliance Electric & Engrg. Co., a, b.
 S & G Mfg. Corp., c.
 Safety Electrical Equipment Corp., a, b.
 Sangamo Electric Co., a, b, c.
 Servomechanisms, Inc., h.
 Servo-Tek Products Co., b, h.
 Small Motors Inc., a, b, h.
 Solar Aircraft Co., c.
 Standard Steel Corp., Cambridge Div., d, e.
 Stewart & Stevenson Services, Inc., a, b, c.
 Herman H. Sticht Co., Inc., h.
 Stromberg-Carlson Div.-General Dynamics Corp., i.
 Summers Gyroscope Co., h.
 Sunshine Scientific Instrument, g.
 Superior Air Products Co., d.
 TKM Electric Corp., a, b.
 Talley Corp., The, a, b, c, h.
 Tapco Group, Thompson Ramo Wooldridge Inc., a, b, h.
 Telectro Industries Corp., a, i.
 Thompson Ramo Wooldridge Div., a, b, h.

Transcoil Div.-Daystrom, Inc., h.
 Varo Mfg. Co., Inc., a, b, c, g, h, i.
 Wacine, Inc., h.
 Wang Labs, Inc., i.
 Westinghouse Electric Corp., a, b, c, f.
 Wincharger Corp., Sub.-Zenith Radio Corp., a, c.
 Wimpower Mfg. Co., a, b, c.
 Wolverine Diesel Power Co., c.
 Worthington Corp., a, b, c.

GENERATORS, ELECTRONIC

a. Microwave
 b. Noise
 c. Picture Signal
 d. Pulse
 e. Signal, AF
 f. Signal, FM
 g. Signal, RF
 h. Signal, SHF
 i. Signal, Single Sideband
 j. Signal, Sweep
 k. Signal, Television Synchronizing
 l. Signal, UHF, VHF
 m. Square Wave
 n. Ultrasonic
 o. Variable Frequency
 p. Waveform
 A R F Products, Inc., d.
 Admiral Corp., d.
 Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., b.
 Aircom Inc., a.
 *AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP., e.
 Alcar Instruments, Inc., n.
 Alfred Electronics, a, d, j.
 Alto Scientific Co., Inc., d, m.
 Amerac Inc., a.
 American Electronic Labs., Inc., d, m.
 Arkay Engrg., Inc., d, m, o.
 Avco Corp.-Research & Advanced Development Div., b.
 B & K Instruments, Inc., e.
 Babcock Radio Engr., Inc., f.
 E. Bauches S. A., Freeport Engrg. Co., Beckman-Systems Div.
 Bendix Aviation Corp., Cincinnati Div., f, g, j.
 Bendix Aviation Corp., Pioneer-Central Div., n.
 Bendixstone Corp., n.
 Bogue Electric Mfg. Co., o.
 Boonton Radio Corp., e, f, j.
 Bruno-New York Industries Corp., g, h, l, p.
 Budd Lewyt Electronics, Inc., e, f, j.
 Burr-Brown Research Corp., e, m, n.
 CBS Laboratories, Div.-Columbia Broadcasting System, c, l.
 CGS Labs, Inc., h, j, l, o.
 Carol Electronics Corp., e, o.
 Chalco Engrg. Corp., e, o.
 Chance Vought Aircraft, Inc., d.
 Circo Equipment Co., n.
 Circo Ultrasonic Corp., n.
 Clegg Labs, Div.-Clegg, Inc., a, b, d, g, i, j, m, o, p.
 Cleveite Ordnance, Div.-Cleveite Corp., e, n.
 Collins Radio Co., a, f, g, i, l.
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., a, g, m.
 Communication Measurements Lab., Inc., e, n, o.
 Crosby-Teletronics Corp., d, i.
 Cubic Corp., p.
 Curtiss-Wright Corp., Santa Barbara Div., n.
 Dage Television Div., Thompson Ramo Wooldridge, Inc., c, k.
 Data-Control Systems, Inc., f.
 Daven Co., The, d, g, m.
 Joe Davidson & Associates, a, d, m, n, o.
 *DEL MAR ENGRG. LABS., j.
 Demoray-Bonardi, b.
 Detrex Chemical Industries, Inc., n.
 Dieco, Div.-Djordjevic Engrg. Co., d, m.
 Allen B. DuMont Labs., Inc., d.
 Edgerton, Germeshausen & Grier, Inc., d.
 Eitel-McCullough, Inc., a.
 Electrical & Physical Instrument Corp., d.
 Electronic Applications, Inc., a, b, e, thru h, j, l, o.
 Electronic Measurements Corp., e, g, o.
 Electronic Tube Corp., d.
 Electronics of Clearfield, Inc., d, j.
 Electron-Radar Products, b.
 Electro-Pulse, Inc., d, o.
 Eigenco, Inc., b.
 Elin Div., International Electronic Research Corp., e.
 Empire Products Sales Corp., a, b, d, g, l, a.
 Enesco, Inc., d, e, p.
 *EQUIPMENT DIV., RAYTHEON CO., a, b, d, n.
 FXR, Inc., a, d.
 Fla. Aircraft Radio & Marine, e, f, g, l.
 Flight Research, Inc., d.

Flow Corp., b.
 Gates Radio Co., b, i.
 General Aniline & Film Corp., Anso Div., a.
 General Communication Co., a, d, g, m, a.
 General Instrument Corp., Defense & Engrg. Products Group, j, n.
 General Radio Co., a, b, d, e, g, j, l thru o.
 Guided Missile Div., The Firestone Tire & Rubber Co., b.
 Gulton Industries, Inc., n.
 Hallamore Electronics Co., Div.-Sieglar Corp., k.
 Hallicrafters Co., The, a, g.
 Hammett-Mercury-Rex Div., a.
 Hathaway Instruments, Inc., d, m.
 Hazeltine Electronics Div.-Hazeltine Corp.
 Hewlett-Packard Co., a, b, d thru h, j, l thru p.
 Hickok Electrical Instrument Co., The, c thru g, j thru m, o, p.
 William I. Horlick Co., Inc., a.
 I-I-S Instrument Div., The Meriam Instrument Co., d, a.
 Iconix Inc., d.
 Image Instruments, Inc., c.
 Industrial Acoustics Co., Inc., b.
 Industrial Control Co., j.
 Industrial Test Equipment Co., e, o.
 Instrument Div., The W. L. Maxson Corp., l.
 Instruments for Industry, Inc., g, l, a.
 Intercontinental Dynamics Corp., b.
 *INTERELECTRONICS CORP., e, m thru p.
 International Electronic Research Corp., e.
 J.V.M Microwave Co., a, g.
 James Electronics Inc., m.
 Kato Engrg. Co., o.
 Kay Electric Co., o thru g, i, l thru o.
 Wayne Kerr Corp., e.
 Kollmorgen Optical Corp., a, b.
 Lab. for Electronics, Inc., a.
 Lampkin Labs, Inc., M.R. Div., g, l, o.
 Lavore Labs, Inc., d.
 Lear, Inc., b, e.
 Leland Airborne Products, Div.-American Machine & Foundry Co., m.
 Levinthal Electronic Products, Inc., a, d.
 Litton Industries, Inc., a, b.
 MB Electronics, b, o, p.
 Manson Labs, Inc., a, d, g, l, i.
 Marconi Instruments, b, d thru j, l thru p.
 *MARTIN CO., THE, DENVER DIV., d thru g, i thru m, o.
 Mc Kenna Labs., n.
 Micro Gee Products, Inc., o.
 Microwave Associates, Inc., a.
 Motorola, Inc., a thru p.
 Muirhead Instruments Inc., e, m, n, o.
 Narda Ultrasonics Corp., The, n.
 National Co., Inc., a, d thru i, l, o.
 National Ultrasonic Corp., n.
 Navigation Computer Corp., d.
 New London Instrument Co., Inc., f, g, l, m, o.
 Northeast Scientific Corp., a.
 Orbitron Co., Inc., d.
 Otis Elevator Co., Defense & Industrial Div., n.
 Paco Electronics Co., Inc., e, f, g thru m.
 Panoramic Radio Products, Inc., e, g, j, o.
 Parabam, Inc., d, m, o, p.
 Philomab Labs, Inc., i.
 Philco Corp.-Govt. & Industrial Group, a thru p.
 Phillips Mfg. Co., n.
 Piasecki Aircraft Corp., a, e thru h, n, o.
 Pitometer Log Corp., a.
 Polarad Electronics Corp., a, b, d, j.
 Probescope Co., Inc., j.
 RS Electronics Corp., b.
 Radalab Inc., a, b, e thru h, j, l, o.
 Radiation, Inc., d.
 Radiation Instrument Development Lab., Inc., d.
 Radio City Products Co., Inc., e thru h, l.
 *RADIO CORP. OF AMERICA, a thru p.
 Radio Development & Research Corp., n, o, p.
 Radio Frequency Co., Inc., n.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., j.
 Rontec Corp., a, i.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., b.
 Reeves Instrument Corp., b, p.
 Reflectone Electronics, Inc., d.
 Resdal Engrg. Corp., a, l.
 Rese Engrg., Inc., d.
 Research, Inc., b.
 Rutherford Electronics Co., d.
 Scientific-Atlanta, Inc., a, g, j, l, o.
 H. H. Scott, Inc., b.
 Servo Consultants Ltd., e, f, g.
 Sierra Electronic Corp., Div.-Philco Corp., a, f, g, l, o.
 Simpson Electric Co., d, f, g, j, l, o.
 Southwest Research Institute, n.
 Southwestern Industrial Electronics Co., m, o.
 Specialty Electronics Development Corp., a, d, g.

Spectralab Instruments, g, l.
 Spectrum Instruments Inc. o, p.
 Spencer-Kennedy Labs., Inc., d.
 Sperry Electronic Tube Div - Sperry Rand Corp., o.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., o.
 Stewart-Warner Electronics Div., o, d.
 Stillman Rubber Co., d.
 Stromberg-Carlson Div.-General Dynamics Corp., o, d, f, g, i, l, o.
 Superior Electric Co., The, d, g, o.
 Systems Incorporated, e, f, l.
 TRG Inc., o, b.
 Talley Corp., The, d thru g, l.
 Tektronix, Inc., d, g, m, p.
 Telechem Mfg. Corp., o, b, c, k, l, o, p.
 Telectro Industries Corp., o, b, d thru j, m.
 Telerad Mfg. Corp., o.
 Television Utilities Corp., c, k.
 Tel-Instrument Electronics Corp., c, g, j, k, l, o.
 Telkor Inc., m, o.
 Telsonic Industries Inc., o, c thru h, j, l, o.
 Ultrasonic Engineering Co., n, o.
 Universal Transistor Products Corp., d, m, p.
 Vator Instruments Inc., d, m.
 Varc Mfg. Co., Inc., b, d, e, m, o, p.
 Vicon Corp. Sub-Insul-8-Corp., k.
 Walkin Co., d, m.
 Waltham Electronics Corp., f, g, l, o.
 Wana Labs., Inc., c, d, p.
 Waveline Inc., b.
 Westinghouse Electric Corp., o, b, e, f, i, l, n.
 Wheelock Signals Inc., d.
 Wickes Engrg. & Construction Co., g, k.

GEOPHYSICAL APPARATUS

***ASKANIA-WERKE, U. S. BRANCH OFFICE**
 Autometric Corp.
 Ball Brothers Research Corp.
 Benson-Lehner Corp.
 Century Electronics & Instruments Inc.
 Daimler-Victor Co., Div.-Textron Inc.
 Georator Corp.
 Gordan Enterprises
 Guided Missile Div.-The Firestone Tire & Rubber Co.
 Lockheed Aircraft Corp.-Missiles & Space Div.
 Optomechanisms Inc.
 Packard Bell Computer Corp.
 Seisnor Div.-Seismograph Service Corp.
 Southwest Research Institute.
 Southwestern Industrial Electronics Co.
 Spectra Electronics Corp.
 Texas Instruments Inc.
 Triad Transformer Corp.
 Vector Mfg. Co.
 Wang Labs., Inc.

GERMANIUM

Allegheny Electronic Chemicals Co.
 Allied Chemical Corp.-General Chemical Div.
 Alloys Unlimited Inc.
 American Smelting & Refining Co.
 Belmont Smelting & Refining Works Inc.
 Bios Labs Inc.
 Bram Metallurgical Chemical Co.
 City Chemical Corp.
 Delta Chemical Works Inc.
 Eagle-Picher Co. The.
 Harmon, Lichtenstein & Co.
 Republic Lens Co., Inc.
 Santa Barbara Research Center.
 Semi-Elements Inc.
 Semimetals Inc.
 United Mineral & Chemical Corp.
 Var-lac-Oid Chemical Co.

GLASS INSULATION

Actioncraft Products
 Allied Plastics Supply Corp.
 Semon Bache & Co.
 Birma Mfg. Co. Inc.
 William Brand Rex Div.-American Enka Corp.
 Corning Glass Works.
 Deutsch Co. The-Electronic Components Div.
 Insulation Mfrs. Corp.
 Lantex Industries Inc.
 Mechanical Felt & Textiles Co.
 Mica Insulator Div.-Minnesota Mining & Mfg. Co.
 Mitronics Inc.
 Natvar Corp.
 Owens-Corning Fiberglas Corp.
 Pittsburgh Corning Corp.
 Plastic Age Sales Inc.
 Saletee Glass Co.
 Seaman Products Div.-Seaman Paper Co.
 F. M. Stevenson Co., Inc.
 H. J. Thompson Fiber Glass Co.
 Westinghouse Electric Corp., Micarta Div.

GLASS, MICA-WOVEN OR LAMINATED

Allied Plastics Supply Corp.
 Asheville-Schoonmaker Mica Co.
 Semon Bache & Co.
 Brunswick Balke Collender Co., The, Defense Products Div.
 Continental Diamond Fibre Corp.
 Insulation Mfrs. Corp.
 Mica Insulator Div.-Minnesota Mining & Mfg. Co.
***MINNESOTA MINING & MFG. CO.**
 Pacific Universal Products Corp.
 Saletee Glass Co.
 Sierracin Corp., The.
 Westinghouse Electric Corp.
 Westinghouse Electric Corp., Micarta Div.

GOLD

Accurate Specialties Co. Inc.
 Allied Engraving & Stamping Co.
 Alloys Unlimited Inc.
 Alpha Metals Inc.
 American Silver Co., Inc.
 American Smelting & Refining Co.
 Attiboro Refining Co., Inc.
 J. Bishop & Co., Platinum Works
 Brom Metallurgical Chemical Co.
 Sigmund Cohn Corp.
 Delta Chemical Works, Inc.
 Deringer Metallurgical Corp.
 Eastern Smelting & Refining Corp.
 Engelhard Industries, Inc.
 Goldsmith Bros. Div., National Lead Co.
 Handy & Harman
 Leach & Garner Co., Indsl. Div.
 Metz Refining Co.
 Secon Metals Corp.
 Technic Inc.
 United Mineral & Chemical Corp.
 Var. Inc. Old Chemical Co.
 Western Gold & Platinum Co.

GOVERNORS, MISSILE CONTROL

Avco Corp.-Crosley Div.
***BENDIX AVIATION CORP., HAMILTON DIV.**
 Holley Carburetor Co.
 Integrated Dynamics Div., Globe Industries, Inc.
 Republic Aviation Corp., Missile Systems Div.
 Varo Mfg. Co., Inc.
 Vickers, Inc., Mich.

GRAPHITE, COLLOIDAL

Acheson Colloids Co., Div.-Acheson Industries, Inc.
 Gralo Colloids Corp.
 Kano Labs.
 Superior Graphite Co.

GRAPHITE, INSULATING

Custom Tool & Mfg. Co.
 General Electric Co., Rocket Engine Section.
 Great Lakes Carbon Corp.-Electrode Div.
 Hughes Tool Co., Aircraft Div.
 National Carbon Co., Div.-Union Carbide Corp.
 Olympic Plastics Co., Inc.
 Pittsburgh Corning Corp.
 Portland Copper & Tank Works Inc.
 Southwest Research Institute.
 Speer Carbon Co.
 Superior Graphite Co.

GRAPHITE, LUBRICATING

Acheson Colloids Co., Div.-Acheson Industries, Inc.
 American Potash & Chemical Corp., National North-ern Div.
 Blaco Mfg. Co.
 Gralo Colloids Corp.
 National Carbon Co., Div.-Union Carbide Corp.
 Superior Graphite Co.
 United States Graphite Co., The, Div.-The Wickes Corp.

GREASES, VACUUM

***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Dow Corning Corp.
 Esso Standard, Div.-Humble Oil & Refining Co.
 Fluoro-Chem Corp.
 Holocarbon Products Corp.
 Lockrey Co., The-Lubricants Div.
 Parker Seal Co., Div.-Parker-Hannifin Corp.
 Standard Oil Co. of Indiana

GRID FRAMES

California Plasteck Inc.
 Fansteel Metallurgical Corp.
 Fouch Electric Mfg. Co., Inc.
 Rimak, Inc.
 Thermionic Products Co.

GRIDS

Allegony Instrument Co., Inc.
 Calcor Corp.
 Emeloid Co., Inc., The.
 Fansteel Metallurgical Corp.
***RADIO CORP. OF AMERICA**
 Thermionic Products Co.

GRILLES, METAL

Alpitec, Inc.
 Anchor Metal Spinning Co., The.
 Bell Aircraft Corp., Niagara Frontier Div.
 Belmar Wheel & Machine Co., Inc.
 Bohn Aluminum & Brass Corp.
 Brooks & Perkins, Inc.
 Bud Radio, Inc.
 A. M. Byers Co.
 California Stamping & Mfg. Co.
 Chemical Micro Milling Co.
 Croname Inc.
 Farwell Metal Fabricating
 Fouch Electric Mfg. Co., Inc.
 G-C Electronics Co.
 Kentucky Metal Products Co.
 Kling Metal Spinning & Stamping Co.
 Lofstrand Co., The.
***MARTIN CO., THE, DENVER DIV.**
 Olin Mathieson Chemical Corp., N. Y.
 Parkway Specialties Co.
 Penn Metal Co., Inc.
 Pioneer Industries Div., Almar-York Co. Inc.
 Premier Metal Products Co.
 Rimak, Inc.
 Rolock Inc.
 Unified Industries, Inc.
 Victor Tool & Mfg., Inc.

GRILLES, MOLDED PLASTIC

American Insulator Corp.
 Brook Molding Corp.
 Dura Plastics of N. Y., Inc.
 Erie Resistor Corp.
 General American Transportation Corp.
***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.**
 M & Q Plastic Products
 Olympic Plastics Co., Inc.
 Parsons Corp., Special Products Div.
 Remler Co.
 Milton Ross Metals Co., The.
 Sillocks-Miller Co.
 U. S. Plastic Molding Corp.
 Waterbury Companies, Inc.

GRILLS, SPEAKER

Belmar Wheel & Machine Co., Inc.
 Bestcraft Products Co. Inc.
 Bud Radio, Inc.
 Croname Inc.
 Du Kane Corp.
 Flock Process Co. Inc.
 Kendall Co., The.
 Kentucky Metal Products Co.
 Parkway Specialties Co.
 Premier Metal Products Co.
 Remler Co.
 Unified Industries, Inc.

GROMMETS

A. P. M. Corp.
 Abbott Screw & Mfg. Co.
 Aero Spares, Inc.
 All Specs Corp.
 Allied Plastics Supply Corp.
 Anatom Electronic Hardware Co. Inc.
 American Brass Co., The.
 Best Aircraft Corp.
 A. M. Byers Co.
 Chase Brass & Copper Co., Inc.
 Continental Rubber Works
 Deutsch Co., The, Electronic Components Div.
 Federal Screw Products Inc.
 Fluorocarbon Co., The.
 G-C Electronics Co.
 Garlock Packing Co.
 General Gasket Inc.
 Gordon Rubber & Packing Co. Inc.
 Goshen Rubber Co., Inc.
 Hallett Mfg. Co.
 Heyman Mfg. Co.
 Walter J. Hyatt Co., The.
 Walter K. Joros Aircraftalters
 Lord Mfg. Co.
 Mechanical Rubber Products Co.
 Minnesota Rubber Co.
 Narrich Plastics Corp.
 Ohlson Empire Inc.
 Olympic Plastics Co., Inc.

Roberts Toledo Rubber Co., The
Milton Ross Metals Co., The
Rubbercraft Corp. of California
Servicair Co.
Stevens Co. Inc.
Tetrafluor, Inc.
United Shoe Machinery Corp.
Western Felt Works & Acadia Synthetic Products
Div.
Western Sky Industries
Wilmington Fibre Specialty Co.

GROUND HANDLING EQUIPMENT, MISSILES

ACF Industries Inc.
Accessory Products Co., Div.-Textron Inc.
Advance Industries, Inc.
Aerocal Div., Aerona Mfg. Corp.
*AEROJET-GENERAL CORP.
Aerojet-General Corp., Downey Plant
Aeroquip Corp., Jackson Div.
Aeroscience, Inc.
Aero-Test Equipment Co., Inc.
Aerostat Laboratories, Inc.
Ainslie Corp.
Air Logistics Corp.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
All American Engrg. Co.
Allied International Corp.
Allison Steel Mfg. Co.
American Car & Foundry Div., ACF Industries, Inc.
American Machine & Foundry Co.
American Machine & Foundry Co., Government
Products Group
American Machine & Foundry Co., Government
Products, N.Y.
American Machine & Foundry Co., Greenwich Engrg.
Div.
American Research & Mfg. Corp.
*AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
Anaconda Metal Hose Div., The American Brass Co.
Anderson, Greenwood & Co.
Aro Equipment Corp., The
Associated Co., Inc.
Austin-Western, Constr. Equip. Div.-Baldwin-Lima-
Hamilton Corp.
Avco Corp., Nashville Div.
Avco Corp., Research & Advanced Development Div.
Baldwin-Lima-Hamilton Corp., Electronics & Instru-
mentation Divs.
Basic Tool Industries, Inc.
Beech Aircraft Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Benbow Mfg. Corp.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.
Benson Mfg. Co.
Bernco Engrg. Corp.
E. W. Bliss Co.
Bogue Electric Mfg. Co.
Bowser Inc., Defense Div.
Broadview Research Corp.
Brooks & Perkins, Inc.
Budd Co., The
Budd Lewyt Electronics, Inc.
Bulova Research & Development Labs., Inc.
A. M. Byers Co.
Byron Jackson Pumps, Inc.
CG Electronics Corp.
Calcor Corp.
California Aircraft Products
California Stamping & Mfg. Co.
Camerflex Div., The Federal Mfg. & Engrg. Corp.
Captive Seal Corp.
Caterpillar Tractor Co., Defense Products Dept.
Chance Vought Aircraft, Inc.
Clark Equipment Co.
Colonial Aircraft Corp.
Colorado Fuel & Iron Corp., The
Components Corp.
Consolidated Diesel Electric Corp.
Continental-Emsco Co., Div.-The Youngstown Sheet
& Tube Co.
Cornelius Co., The Aero Div.
Cornell Deep Drawing Co., Div.-Lanes Industries
Corp.
Craig Systems, Inc.
Crane Co., Special Products Div.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Dalmo Victor Co., Div.-Textron, Inc.
Dana Corp.
Joe Davidson & Associates
Daystrom, Inc., Military Electronics Div.
Daystrom Inc., Transicoil Div.
De Havilland Aircraft of Canada, Ltd., Special Prod-
ucts Div.
*DEL MAR ENGRG. LABS.
Doak Aircraft Co. Inc.

Douglas Aircraft Co., Inc.
Drayer Hanson Div., Crane Co.
Allen B. Du Mont Labs, Inc.
Eastern Rotorcraft Corp.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Eidal Mfg. Co., Inc.
Elwell-Parker Electric Co., The
*EQUIPMENT DIV., RAYTHEON CO.
Erie Instrumentation, Div.-Erie Resistor Corp.
*EXCELCO DEVELOPMENTS INC.
Ex-Cell-O Corp.
FWD Corp.
Fairchild Aircraft & Missiles Div., Fairchild Engine &
Airplane Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane
Corp.
Falstrom Co.
Firestone Indsl. Products Co., Div.-Firestone Tire &
Rubber Co.
Flight Refueling, Inc.
Flight Support Inc.
Food Machinery & Chemical Corp., Ordnance Div.
Ford Instrument Co., Div.-Sperry Rand Corp.
Fruehauf Trailer Co., Military Equipment Div.
Gar Wood Industries Inc.
Gatewood Products Inc.
General American Transportation Corp.
General Electric Co., Missile & Space Vehicle Dept.,
Pa.
General Electric Co., Ordnance Dept.
General Logistics Div., Aeroquip Corp.
Genisco, Inc.
Goodyear Aircraft Corp.
Gramm Trailer Corp.
Gremco, Inc.
Guided Missile Div., The Firestone Tire & Rubber Co.
B. H. Hadley, Inc.
Hamilton Standard Div.-United Aircraft Corp.
Hammett-Mercury, Rex Div.
Hardman Tool & Engrg. Co.
Haskel Engrg. & Supply Co.
Hendrickson Mfg. Co.
Herlo Corp.
Highland Engrg. Co.
Highway Trailer Co.
Hoelner Corp.
C. G. Hokanson Co., Inc.
Hol-Gar Mfg. Corp.
Hoover Electric Co.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON
FEARLESS CORP.
Hughes Tool Co., Aircraft Div.
Hydra-Power Corp.
Hyster Co.
Indiana Gear Works, Inc.
Industrial Equipment Div., Baldwin Lima Hamilton
Corp.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool
Industries, Inc.
Intercontinental Mfg. Co., Inc.
International Ferromont Machinery Co., Inc.
Interstate Electronics Corp.
Irving Air Chute Co., Inc.
Jack & Heintz, Inc.
Jeta Inc.
Jonco Aircraft Corp., Sub.-Fairchild Engine & Air-
plane Corp.
Kahn & Co., Inc.
Kanarr Corp.
Kelleit Aircraft Corp.
Kittell-Lacy, Inc.
Langley Corp.
Leach Corp.
Lear, Inc.
Link-Belt Co.
Arthur D. Little, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Lofstrand Co., The
Lycoming Div., Avco Corp.
Machine Products Div., New Haven Trap Rock Co.
Magnesium Co. of America
Major Tool & Machine, Inc.
Mak Industries, Inc.
*MARTIN CO., THE, DENVER DIV.
McDowell-Wellman Companies, The
Miami Engrg., Div.-Miami Shipbuilding Corp.
Minneapolis-Honeywell Regulator Co., Missile Equip-
ment Div.
Monrovia Aviation Corp.
George I. Nankervis Co.
Nelson Electric Mfg. Co.
Neway Equipment Co.
Northeast Metals Industries, Inc.
Northrop Corp.
Nortronics, Div.-Northrop Corp.
On Mark Couplings, Inc.
Opelika Welding, Machine & Supply Inc.
Ohio Elevator Co., Defense & Industrial Div.
Pacific Coast Engrg. Co.
Parts Engrg. Co., Inc.

Pastushin Industries, Inc.
Pegasus Labs., Inc.
Phlco Cora-Govt. & Industrial Group
Richard Phlin Co.
Plasceki Aircraft Corp.
Portland Copper & Tank Works Inc.
Pre-Fite Industries Corp.-Sub-Avco Mfg. Corp.
Pryor Mfg. Co.
REF Mfg. Corp.
Radiophone Co. Inc.
Radiation, Inc.
*RADIO CORP. OF AMERICA, DEFENSE ELECTRON-
ICS PRODUCTS
Radio Development & Research Corp.
Ramo-Wooldrige, Div.-Thompson Ramo Wool-
dridge Inc.
Redco Corp.
Regent Jack Mfg. Co., Inc.
Republic Aviation Corp., Missile Systems Div.
Resistoflex Corp.
Rimak Inc.
J. R. Robbins Co.
Ronan & Kunz, Inc.
Sancor Corp.
Sargent Engrg. Corp.
Scott Aviation Corp.
Servomechanisms, Inc.
Sierra Engrg. Co.
Silent Hoist & Crane Co.
Skyline Electric & Mfg. Co.
Skyline Products, Inc.
Solar Aircraft Co.
South Wind Div., Stewart Warner Corp.
Spaceatoms Div., The Budd Co.
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Stainless Inc.
Stearns-Roger Mfg. Co., The
F. M. Stevenson Co., Inc.
Sundastrand Turbo
Superior Air Products Co.
B. K. Sweeney Mfg. Co.
Sylvania Electronic Systems, Div.-Sylvania Electric
Products Inc.
TRG, Inc.
Talley Corp., The
Tapco Group, Thompson Ramo Wooldrige Inc.
Temco Aircraft Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Thompson Ramo Wooldrige Inc.
Trailmobile Inc.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
United Mfg. Co. The
United Mfg. Co. Div., The W. L. Maxson Corp
U. S. Industries, Inc.
U. S. Science Corp., Div.-Topp Industries Inc
United States Rubber Co.
Van Zelm Associates, Inc.
Vickers Inc.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Waco Aircraft Co.
Waldick Engrg. Co.
Ward LaFrance Truck Corp.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Weber Aircraft Corp.
Welded Construction Inc.
Wells Industries Corp.
Wenzlous Engrg. Co.
Western Design, Div.-U.S. Industries, Inc.
Western Div., Aeroquip Corp.
Western Gear Corp.-Precision Products Div.
Westholt Mfg. Inc.
Westinghouse Electric Corp.
Wiancko Engrg. Co.
Wickes Engrg. & Construction Co.
Wickfield, Inc.
Winder Aircraft Corp. of Florida
Wolverine Diesel Power Co.
Wright Hoist Div., American Chain & Cable Co., Inc.

GROUND LANDING SYSTEMS

Air Logistics Corp.
All American Engrg. Co.
Allied International Corp.
American Machine & Foundry Co., Government
Products Group
American Machine & Foundry Co., Government
Products, N.Y.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Aviation Corp.
A. Brederman, Inc.
Broadview Research Corp.
Budd Co., The
Burrroughs Corp.
A. M. Byers Co.
Calcor Corp.
Cubic Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Diamond Antenna & Microwave Corp.

***EQUIPMENT DIV., RAYTHEON CO.**
 General Instrument Corp., Defense & Engr. Products Group
 Gillfillan Bros. Inc.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Lab. for Electronics, Inc.
 Lear, Inc.
 Arthur D. Little, Inc.
 Litton Industries, Maryland Div.
 Madigan Corp.
 Motorola, Inc.
 A. M. Byers Co.
 Northrop Corp.
 Precision Lapping Co., Inc.
 Radiophone Co. Inc.
 Radio Condenser Co.
 Radio Receptor Co., Inc., Sub-General Instrument Corp.
 Republic Aviation Corp., Missile Systems Div.
 TRG, Inc.
 Temco Aircraft Corp.
 Von Zelm Associates, Inc.
 Weber Aircraft Corp.
 Western Gear Corp., Precision Products Div.
 Winder Aircraft Corp. of Florida

GUIDANCE EQUIPMENT, MISSILES

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
 ACF Industries Inc.
 Advance Industries, Inc.
 American Machine & Foundry Co., Government Products, N.Y.
 American Missile Products Co., Inc.
***ANDREW CORP.**
 Applied Electronics Corp. of N.J.
***ARNOUX CORP.**
 Associated Engineers, Inc.
 Autonetics, Div.-North American Aviation, Inc.
 Bell Aircraft Corp., Niagara Frontier Div.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Corp., The Eclipse-Pioneer Div.
 Bermite Powder Co.
 A. Biederman, Inc.
 Blonder-Tongue Labs., Inc., Special Products Div.
 Broadview Research Corp.
 Budd Lewyt Electronics, Inc.
 A. M. Byers Co.
 CG Electronics Corp.
 Calcor Corp.
 Capital City Mfg. Co., Inc.
 Chance Vought Aircraft, Inc.
 Control Data Corp.
 Joe Davidson & Associates
 Davidson Optronics, Inc.
 Daystrom, Inc., Military Electronics Div.
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Delco Radio Div.-General Motors Corp.
 Designers for Industry, Inc.
 Diamond Antenna & Microwave Corp.
 Douglas Aircraft Co., Inc.
 Allen B. Du Mont Labs, Inc.
 Dunn Engr. Associates Inc.
 Electromatation Co., Div.-Del Mar Engrg. Labs.
 Emertran, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
 FAE Instrument Corp.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 GPI Div.-General Precision, Inc.
 Gates Radio Co.
 General Devices, Inc.
 General Electric Co., Instrument Div.
 General Electric Co., Light Military Electronics Dept.
 General Electric Co., Missile & Space Vehicle Dept.
 General Electric Co., Ordnance Dept.
 General Instrument Corp., Defense & Engr. Products Group.
 General Mills, Inc.
 Genisco, Inc.
 Gillfillan Bros. Inc.
 Goodyear Aircraft Corp.
 Guidance Controls Corp.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Gulton Industries, Inc.
 Gyrex Corp., The
 A. W. Haydon Co., The
 Hazeltine Electronics Div.-Hazeltine Corp.
 Hoover Electric Co.
 Hoover Electronics Co.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Integrated Dynamics Div., Globe Industries, Inc.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 Lear, Inc.

***WALLACE O. LEONARD, INC.**
 Libroscope Div., General Precision, Inc.
 Litton Industries, Maryland Div.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lockheed Electronics Co., Stavid Div.
 Madigan Corp.
 W. I. Maxson Corp., The
 Mc Donnell Aircraft Corp.
 Meridian Metalcraft, Inc.
 Micro Gee Products, Inc.
 Minneapolis-Honeywell Regulator Co., Aeronautical Div.
 Minneapolis-Honeywell Regulator Co., Boston Div.
 Motorola, Inc.
 National Co., Inc.
 Newton Co., The
 Norden Div., United Aircraft Corp.
 Northrop Corp.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Perkin Elmer Corp.
 Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
 Reeves Instrument Corp.
 Remington Rand Univac Div.-Sperry Rand Corp.
 Republic Aviation Corp., Missile Systems Div.
 Sanders Associates, Inc.
 Singer Military Products Div.-The Singer Mfg. Co.
 Skiatron Electronics & Television Corp.
 Southwest Research Institute
 Specialties, Inc.
 Sperry Farragut Co., Div.-Sperry Rand Corp.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp.
 Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Summers Gyroscope Co.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Temco Aircraft Corp.
 Texas Instruments Inc.
 Theta Instruments Corp.
 Thompson Ramo Wooldridge Inc.
 U. S. Industries, Inc.
 United States Time Corp.
 Varo Mfg. Co., Inc.
 Vickers Inc., Electric Products Div.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.
 Whittaker Gyro Div.-Telecomputing Corp.
 Wiancko Engrg. Co.
 Winder Aircraft Corp. of Florida

GUIDANCE SYSTEMS

- a. Inertial
- b. Infrared
- c. Pilotless Aircraft
- d. Radar
- e. Radio
- f. Stellar

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS.**
 ACF Industries Inc., b.
 ACF Electronics Div., ACF Industries Inc., b.
 Advance Industries, Inc., b, d, e.
 Aeroflex Labs. Div., Aeroflex Corp., a, b.
***AEROJET-GENERAL CORP., b, c.**
 Aeronca Mfg. Corp.-Aerospace Div., c.
 Allied International Corp., e.
 American Machine & Foundry Co., Government Products, N.Y., a thru f.
 American Optical Co., Instrument Div., b.
 American Potash & Chemical Corp., National Northern Div., b.
 Applied Electronics Corp. of N.J., a, d, f.
 Armament Div.-Universal Match Corp., c.
 Autonetics, Div.-North American Aviation, Inc., a, c, d, f.
 Babcock Radio Engrg., Inc., e.
 Beech Aircraft Corp., e.
 Belock Instrument Corp., a.
 Bendix Aviation Corp., a thru e.
 Bendix Corp., The Eclipse-Pioneer Div., a, b, c.
 Bendix-Pacific Div., Bendix Aviation Corp., b thru e.
 Bendix Radio Div., Bendix Aviation Corp., b.
 Bermite Powder Co., b.
 Blonder-Tongue Labs. Inc., Special Products Div., b.
 Broadview Research Corp., a thru e.
 Bruno-New York Industries Corp., d.
 Budd-Lewyt Electronics, Inc., a thru f.
 Bulova Research & Development Labs., Inc., b.
 Chance Vought Aircraft, Inc., a thru d.
 Dage Television Div., Thompson Ramo Wooldridge, Inc., e.
 Joe Davidson & Associates, b.

Davidson Optronics, Inc., a, b, f.
 Daystrom Inc., Military Electronics Div., d.
 Daystrom Inc., Transcoil Div., a.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., b.
***DEL MAR ENGRG. LABS., c, d, e.**
 Designers for Industry, Inc., a thru f.
 Diamond Antenna & Microwave Corp., d, e.
 Allen B. Du Mont Labs, Inc., d.
 Dunn Engr. Associates Inc., a, d.
 Dynatronics, Inc., a.
 Eastman Kodak Co., b.
 Electromatation Co., Div.-Del Mar Engrg. Labs.
 Emertran, Sub.-Emerson Radio & Phonograph Corp., a thru f.
***EQUIPMENT DIV., RAYTHEON CO., a thru d.**
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., a, c thru f.
 Ford Instrument Co., Div.-Sperry Rand Corp., a, c, d.
 GPI Div.-General Precision, Inc., a, b, d, f.
 Gates Radio Co., c, e.
 General Bronze Electronics Corp., d.
 General Devices, Inc., a thru f.
 General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept., a thru f.
 General Electric Co., Heavy Military Electronics Dept., d, e.
 General Electric Co., Light Military Electronics Dept., a thru e.
 General Electric Co., Ordnance Dept., a, d.
 General Instrument Corp., Defense & Engr. Products Group, b thru e.
 General Mills, Inc., a.
 Gillfillan Bros. Inc., d, e.
 Goodyear Aircraft Corp., d.
 Gorham Electronics Div.-Gorham Mfg. Co., d.
 Guidance Controls Corp.
 Guided Missile Div., The Firestone Tire & Rubber Co., c, d, e.
 Gulton Industries, Inc., a.
 HRB-Singer, Inc., Sub.-Singer Mfg. Co., b.
 Hallicrafters Co., The, b, d, e.
 Hazeltine Electronics Div.-Hazeltine Corp., d.
 Hoover Electric Co., c.
 Hoover Electronics Co., a.
 Hydro-Power Corp., b.
 ITE Circuit Breaker Co., Special Products Div., d.
 ITT Federal Div., International Telephone & Telegraph Corp., a, d, e.
 Infrared Industries, Inc., b.
 Integrated Dynamics Div., Globe Industries, Inc., a, c.
***KEARFOTT DIV., GENERAL PRECISION, INC., a thru d, f.**
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., a, b, f.
 Lab. For Electronics, Inc., a, d.
 Lavoie Labs, Inc., d.
 Lear Inc., a thru f.
 Leamath Inc., a.
 Lel, Inc., d.
 Libroscope Div., General Precision, Inc., a, f.
 Litton Industries, Inc., a.
 Litton Industries, Maryland Div., d.
 Lockheed Electronics Co., Stavid Div., d.
 Madigan Corp., e.
***MARTIN CO., THE, DENVER DIV.**
 W. I. Maxson Corp., The, a, c, d.
 Micro Gee Products Inc.
 Minneapolis-Honeywell Regulator Co., Aeronautical Div., a, b, c.
 Minneapolis-Honeywell Regulator Co., Boston Div., a, b thru e.
 National Co., Inc., d, e.
 Networks Electronic Corp., b.
 Norden Div., United Aircraft Corp., a, b, d, f.
 Northrop Corp., a thru f.
 Nortronics, Div.-Northrop Corp., a, b, f.
 Ordnance Research & Development Co., Div.-Bermite Powder Co., b.
 Philco Corp.-Govt. & Industrial Group, b, d, f.
 Precision Lapping Co. Inc., b.
 Production Research Corp., Sub.-Radio Condenser Co., b.
 Radio Condenser Co., b, e.
***RADIO CORP. OF AMERICA, a thru f.**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS a, d, e.**
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., b thru e.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., b, d, e.
 Reeves Instrument Corp., a, d.
 Republic Aviation Corp., Missile Systems Div., a, c, d, e.
 Resdel Engrg. Corp., d.
 Sanders Associated, Inc., c.
 Santa Barbara Research Center, b, f.
 Singer Military Products Div.-The Singer Mfg. Co., b, c.
 Skiatron Electronics & Television Corp., d.

Skydyne, Inc.
Southwest Research Institute
Special Programs Section, General Electric Co., a, d, e.
Spectra Electronics Corp., b.
Sperry Farragut Co., Div.-Sperry Rand Corp., a.
Sperry Gyroscope Co., Div.-Sperry Rand Corp., a, c thru f.
Sperry Piedmont Co., Div.-Sperry Rand Corp., d.
Summers Gyroscope Co., e.
TRG, Inc., a thru f.
Tamar Electronics, Inc., c, d, e.
Tapco Group, Thompson Ramo Wooldridge Inc., a, c.
Telerad Mfg. Corp., d.
Temco Aircraft Corp., c, d.
Texas Instruments Inc., a thru f.
Thompson Ramo Wooldridge Inc., a, c.
U. S. Industries, Inc., b, c, d.
Westinghouse Electric Corp., b, d, e.
Whittaker Gyro. Div.-Telecomputing Corp., a, c.

GUN MOUNTS, TELEVISION

Aeroflex Labs. Div., Aeroflex Corp.
American Machine & Foundry Co., Greenwich Engrg. Div.
Blonder-Tongue Labs. Inc., Special Products Div.
Capital City Mfg. Co., Inc.
Continental Electric Co
Dage Television Div., Thompson Ramo Wooldridge, Inc.
Gordon Enterprises
Hallamore Electronics Co., Div.-Sieglar Corp.
Houdaille Industries, Inc., Buffalo Hydraulics Div.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Link-Belt Co.
Optomechanisms Inc.
*RADIO CORP. OF AMERICA
Wollensak Optical Co.

GYROSCOPES

- a. Attitude
- b. Directional
- c. Free
- d. Integrating
- e. Missiles
- f. Rate

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS d, e, f.

Aeroflex Labs. Div., Aeroflex Corp., a, c, f.
*R. C. ALLEN AIRCRAFT INSTR. DIV., R. C. ALLEN BUS. MACHINES, INC., f.
American Beryllium Co.
Autonetics, Div.-North American Aviation, Inc.
Aviation Instrument Mfg. Corp., a, b, c.
Belock Instrument Corp., a thru f.
Bendix Aviation Corp., a thru f.
Bendix Corp., The, Eclipse-Pioneer Div., a thru f.
A. Biederman, Inc., a thru f.
Collins Radio Co., b.
Daystrom Inc., Pacific Div., a, b, c, e, f.
Decker Corp., The, b, f.
R. C. Dudek & Co., a, b, e, f.
Fairchild Controls Corp., e, f.
Fairchild Controls Corp., Components Div., e, f.
Ford Instrument Co., Div.-Sperry Rand Corp., a, d, e, f.
Garwin, Inc., a, b.
General Electric Co., Instrument Dept., b, e.
General Electric Co., Missile & Space Vehicle Dept., Pa.

General Electric Co., Ordnance Dept.
Gordon Enterprises, a thru f.
Greenleaf Mfg. Div., The, Mandrel Ind. Inc., c thru f.
Gyrex Corp., The, f.
Hammett-Mercury-Rex Div., b, c, d.
Hoffman Electronics Corp., Military Products Div., a thru f.
Humphrey, Inc. Electro Mechanical Instruments, a thru f.
Integrated Dynamics Div., Globe Industries, Inc., a, c, f.
*KEARFOOT DIV., GENERAL PRECISION, INC., a thru f.
Kelay Dept., Norden Div., United Aircraft Corp., b, e, f.
Leor, Inc., a thru f.
W. L. Maxson Corp., The, c thru f.
Merix Chemical Co.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., a thru f.
Minneapolis-Honeywell Regulator Co., Boston Div., c thru f.
Norden Div., United Aircraft Corp., a thru f.
Northrop Corp., f.
Reeves Instrument Corp., d, e.
Sanders Associates, Inc., f.
Sperry Farragut Co., Div.-Sperry Rand Corp., d, e.
Sperry Gyroscope Co., Div.-Sperry Rand Corp., a thru d, f.

Sperry Piedmont Co., Div.-Sperry Rand Corp., b, f.
Summers Gyroscope Co., a, b, c, e, f.
United States Chemical Milling Corp., f.
United States Time Corp., a, c thru f.
Westinghouse Electric Corp., b, d, f.
Whittaker Gyro. Div.-Telecomputing Corp., a thru f.

HAMMERS

Ampco Metal, Inc.
Billings & Spencer Co., The
California Stamping & Mfg. Co.
Capewell Mfg. Co.
Chase Brass & Copper Co., Inc.
Chicago Rawhide Mfg. Co.
Division Lead Co.
Greene, Tweed & Co.
Hunter Tool Co.
L & R Mfg. Co.
Miller Falls Co.
Proto Tool Co.
Simonds Saw & Steel Co.
Snap-On-Tools Corp.
Superior Pneumatic & Mfg., Inc.
Vlchek Tool Co.

HAND SETS

American Microphone Mfg. Co., Div.-G-C Traxton Electronics
G-C Electronics Co.
Hi-Shear Rivet Tool Co.
Keystone Electronics Corp.
Permolux Products Co.
Remler Co.
Sun Electric Corp., Aeronautical Div.
Telectro Industries Corp.

HANDLES

Adams Rite Mfg. Co.
Alac, Inc.
Allied Plastics Supply Corp
Alpine Electronic Components, Inc.
Amatom Electronic Hardware Co. Inc.
American Brass Co., The
The American Insulator Corp.
Balcrank Inc.
Bud Radio, Inc.
California Plastec Inc.
Cambridge Thermionic Corp.
Dimco-Gray Co.
Friez Instrument Div., Bendix Aviation Corp.
Goe Engrg. Co.
Grant Pulley & Hardware Corp.
George E. Harris & Co., Inc.
Lerco Electronics, Inc.
Norrich Plastics Corp.
Norrich Screw Machine Products
Precision Metal Products Co. Inc.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.
Richards-Wilcox Mfg. Co.
Simonds Saw & Steel Co.
Skydyne, Inc.
TA Mfg. Corp.
Unified Industries, Inc.
Vemoline Products Co.
Waterbury Companies, Inc.

HANDLES, LEATHER

Auburn Mfg. Co., The
Milton Ross Metals Co., The

HARDWARE

Abbott Screw & Mfg. Co.
Adams Rite Mfg. Co.
Aero Bolt & Screw Co., Inc.
Aero Spares, Inc.
Aeroquip Corp., Jackson Div.
Aero-Stat Co., The
Aerotron Supply Co.
Airhardware, Inc.
Airtron, Div.-Liton Industries
Alac, Inc.
All Specs Corp.
Amatom Electronic Hardware Co., Inc.
Ampco Metal, Inc.
Associated Engineers, Inc.
Atlee Corp.
Autoscrew Co., Inc.
Best Aircraft Corp.
Bland Burner Co., The
Bruning Co., The
The Burndy Corp., Omaton Div.
California Stamping & Mfg. Co.
Cambridge Thermionic Corp.
Capewell Mfg. Co.
Deutsch Co., The, Electronic Components Div.
Eastern Rotorcraft Corp.
Federal Screw Products Inc.
Fenn Mfg. Co., The

Forseberg Mfg. Co., The
G-C Electronics Co.
General Logistics Div., Aeroquip Corp.
Goe Engrg. Co.
Grant Pulley & Hardware Corp.
Gries Reproducer Corp.
Hobbs Mfg. Co.
Walter J. Hyatt Co., The
Imperial Brass Mfg. Co., The
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Jon Hardware Mfg. Co., Inc.
Janitrol Aircraft Div.-Midland-Ross Corp.
Keystone Electronics Corp.
Lerco Electronics, Inc.
Mercury Air Parts Co., Inc.
J. I. Morris Co.
Norrich Plastics Corp.
Norrich Screw Machine Products
North & Judd Mfg. Co.
Northeast Metals Industries, Inc.
Northrop Corp.
Nyllok Corp., The
The Ohlson Empire Inc.
Olympic Plastics Co., Inc.
Parker Seal Co., Div.-Parker-Hannifin Corp.
Richard Philip Co.
Precision Metal Products Co. Inc.
Prestole Corp.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.
Richards-Wilcox Mfg. Co.
Robot Industries Inc.
J. H. Sessions & Son
Shur-Lok Corp.
Standard Pressed Steel Co.
Taurus Corp.
Unified Industries, Inc.
United States Chemical Milling Corp.
United States Steel Corp.
Vector Electronic Co., Inc.
Vlier Engrg. Corp.
Waldick Engrg. Co.
Western Div., Aeroquip Corp.
Wilcox-Crittenden Div., North & Judd Mfg. Co.

HARNESSES

- a. Electric
- b. Ignition
- c. Thermocouples
- d. Wire

Advanced Electronics, Inc., a thru d.
Aero Research Instrument Co. Inc., c.
Aerolite Electronics Corp., c.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, d.
Alden Products Co., d.
Allen Electric & Equipment Co., a.
American Missile Products Co., Inc., d.
Anchor Specialty Mfg. Co. Inc., a, d.
Associated Engineers, Inc., a.
B G Corp., The, c.
Beaton & Corbin Mfg. Co., The, b.
Bendix Aviation Corp., a, b.
Bendix Aviation Corp., Cincinnati Div., a.
Benco Engrg. Corp., a thru d.
Bernbach Radio Co., Inc., d.
Brach Mfg. Corp., d.
William Brand, Rex Div.-American Enka Corp., a, c, d.
Breeze Corporations, Inc., a, b, d.
Cable Electric Products Inc., a, d.
Camerallex Div., The Federal Mfg. & Engrg. Corp., a, b.
Cannon Electric Co., a.
Chance Vought Aircraft Inc., a, b, d.
Clevite Ordnance, Div.-Clevite Corp., a.
Cole Electric Co., a.
Conax Corp., c.
Co-Operative Industries, Inc., b, c.
Cord Products Co., a, d.
Dejur-Amsco Corp., Electronic Sales Div., c.
Deutsch Co., The, Electronic Components Div., a.
Dit-Mco, Inc., a, d.
Double E Products Co., a, b, d.
Douglas Aircraft Co., Inc., a, b.
Du Kane Corp., a, d.
Dyna-Therm Chemical Corp., a.
Eagle Signal Co., d.
Electric Autolite Co., The, a thru d.
Electric Cords & Supply Corp., a thru d.
Electromath Corp., d.
Electronic Brazing Co., a, d.
Emertson, Sub.-Emerson Radio & Phonograph Corp., a, c, d.
Empire Electronics Co., Inc., a, d.
Farwest Mfg. Div., Inc., a, d.
Fenwal Inc., c.
General Aniline & Film Corp., Anasco Div., d.
General Electric Co., Apparatus Sales Div., c.
General Laboratory Associates, Inc., a, b, d.
Gilliland Bros. Inc., a.

Claud S. Gordon Co., c.
 Graflex Inc., a, d.
 Graphik Circuits, Div., Cinch Mfg. Co., d.
 Guided Missiles Div., The Firestone Tire & Rubber Co., a.
 Hallett Mfg. Co., a thru d.
 Hamilton Watch Co., Military Products Div., a.
 Hammett-Mercury Rex Div., a thru d.
 Harco Labs, Inc., a thru d.
 George E. Harris & Co., Inc., a, b.
 International Electric Industries, Inc., a, b, d.
 Walter K. Jaros Aircrafters, d.
 Jefferson Electronic Products, a thru d.
 Lab-Tronics, Inc., a, d.
 Land Air Inc., Sub.-California Eastern Aviation, Inc., a, d.
 Lane Electronics Mfg. Corp., a.
 Lear, Inc., a, d.
 Leece-Neville Co., The, a, b, d.
 Lewis Engrg. Co., The, c, d.
 Lyle Corp., a, d.
 MEG Products, Div., Mandrel Industries, Inc., a thru d.
 *MARTIN CO., THE, DENVER DIV., a, c.
 J. E. Menough Co., b.
 *MINNESOTA MINING & MFG. CO., a, c, d.
 Modern Design Div., H.C. Schloer, Inc., d.
 Chester Morton Electronics Corp., a thru d.
 Motorola, Inc.
 Mullenbach Div., Electric Machinery Mfg. Co., a.
 Mutron Corp., a, b, d.
 Nevada Air Products Co., d.
 M. M. Newman Corp., d.
 Opad Electric Co., a, d.
 Pacific Automation Products, Inc., a, b, d.
 Packard Electric Div., General Motors Corp., a, b, d.
 Paraplegics Mfg. Co., Inc., a, b, d.
 Performance Measurements Co., a, d.
 Phalo Plastics Corp., a, d.
 Piasecki Aircraft Corp., a thru d.
 Piguu Engrg. Inc., a.
 Radex Corp., a.
 *RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY, a.
 Republic Aviation Corp., Missile Systems Div., a.
 Research, Inc., a, c.
 Revere Corp. of America, Sub., Neptune Meter Co., a thru d.
 Fred T. Roberts & Co., a, d.
 Milton Ross Metals Co., The, a.
 Sanders Associates, Inc., d.
 Sangamo Electric Co., d.
 Scintilla Div., Bendix Aviation Corp., a thru d.
 Seeger-Williams, Inc., a, d.
 Servicar Co., a, b.
 Sheltered Workshops, d.
 Skyline Electric & Mfg. Co., a.
 Skytronics, Inc., a, b.
 Small Motors Inc.
 E. C. Smith Mfg. Co., Inc., c.
 Specialty Electronics Development Corp., b, d.
 Stewart & Stevenson Services, Inc., a.
 Stewart-Warner Electronics Div., d.
 Surprenant Mfg. Co., a, d.
 Taffet Electronics, Inc., a, d.
 Teleflex Inc., c.
 Telkor, Inc., a.
 Thermo Electric Co., Inc., c.
 Thor Ceramics, Inc., b.
 Titelflex, Inc., b, d.
 Transco Products, Inc., a.
 Twin Coach Co., Aircraft Missiles, a.
 U. S. Plastic Molding Corp., a.
 Virginia Electronics Co., Inc., d.
 Wesrep Corp., a, d.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp., a, b, d.
 Whittaker Cable Corp., a, d.
 Winder Aircraft Corp. of Florida, a thru d.

HEADERS

Allied Products Corp.
 American Research & Mfg. Corp.
 *ARNOUX CORP.
 California Stamping & Mfg. Co.
 L. L. Constantin & Co.
 Eljay Corp.
 Fusite Corp.
 Garde Mfg. Co.
 Hermetic Seal Corp.
 Hermetic Seal Corp.
 Walter K. Jaros Aircrafters
 *MARTIN CO., THE, DENVER DIV.
 Mitronics Inc.
 Robert E. Morris Co., The
 Networks Electronic Corp.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Milton Ross Metals Co., The
 Spacematronics Div., The Budd Co.
 Torwico Electronics, Inc.
 Warren Components, Div.-El-Tronics, Inc.

HEADPHONES & HEADSETS

American Microphone Mfg. Co., Div., G-C Textron Electronics
 S. G. Brown
 Calvert Electronics Inc.
 C. F. Cannon Co.
 David Clark Co., Inc.
 Electronic Applications, Inc.
 Fla. Aircraft Radio & Marine
 Melody Master Mfg. Co.
 Permolux Products Co.
 Radalab Inc.
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Remler Co.
 Rye Sound Corp.
 Sierra Engrg. Co.
 Sonatone Corp.
 Sun Electric Corp., Aeronautical Div.
 Superex Electronics Corp.
 Teletron Industries Corp.
 Telex, Inc.
 United States Instrument Corp.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

HEADS, COMPUTER

Edwin A. Lipps Engrg.
 Magne-Head Div., General Transistor Corp.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div.
 Norton Associates, Inc.
 Philco Corp., Govt. & Industrial Group
 Pictor Instrument Co., Inc.
 *RADIO CORP. OF AMERICA
 J. B. Rea Co.
 Sonatone Corp.
 Telex, Inc.

HEAT TRANSFER CONTROL SYSTEMS

*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 Allied International Corp.
 American Machine & Foundry Co.
 *BENDIX AVIATION CORP., HAMILTON DIV.
 Blue M Electric Co.
 Budd Lewyt Electronics, Inc.
 Clark Controller Co., The
 Drayer Hanson Div.-Crane Co.
 Eastern Industries Inc.
 Emhart Mfg. Co., Maxim Div.
 Flight Refueling, Inc.
 General American Transportation Corp.
 General Electric Co., Computer Dept.
 Hastings Plastics, Inc.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
 Janitrol Aircraft Div.-Midland-Ross Corp.
 Kentucky Metal Products Co.
 Lear, Inc.
 Manning & Lewis Eng. Co.
 Nuclear Development Corp. of America
 Ordnance Engrg. Associates, Inc.
 South Wind Div., Stewart Warner Corp.
 Southwest Research Institute
 Southwestern Industrial Electronics Co.
 Statham Development Corp.
 Thermon Mfg. Co.
 Tranter Mfg., Inc.
 United Aircraft Products, Inc.
 Vemaline Products Co.
 Vickers Inc., Div.-Sperry Rand
 Vickers, Inc., Mich.
 Waste King Corp., Technical Products Div.
 Whitlock Mfg. Co., The
 Edwin L. Wiegand Co.

HEAT TREATING SERVICE

American Gas Furnace Co.
 American Machine & Foundry Co., Government Products Group
 Bethlehem Steel Co.
 E. W. Bliss Co.
 California Stamping & Mfg. Co.
 Colonial Aircraft Corp.
 Foster Wheeler Corp.
 General American Transportation Corp.
 General Electric Co., Rocket Engine Section
 Graver Tank & Mfg. Co., Div.-Union Tank Car Co.
 Griscom-Russell Co., The
 Hamilton Watch Co., Military Products Div.
 C. I. Hayes, Inc.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products Inc.
 A. F. Holden Co., The
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
 Intercontinental Mfg. Co., Inc.

Jan Hardware Mfg. Co., Inc.
 Kanarr Corp.
 Kerns Mfg. Corp.
 Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
 Lear, Inc.
 Lucifer Furnaces Inc.
 Metallurgical, Inc.
 Nooter Corp.
 Pennsylvania Tool & Mfg. Co., The
 Portland Copper & Tank Works Inc.
 J. W. Rex Co.
 Rimak, Inc.
 Sargent Engrg. Corp.
 Sherman Instl. Electronics Co., Div.-Electronic Development Inc.
 State Testing Laboratory Inc.
 Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.
 Tall-Peace Mfg. Co., The
 Vac-Hyd Processing Corp.
 Vickers, Inc., Mich.
 Wall Colmonoy Corp., Stainless Processing Div.

HEATER MUFFLER ASSEMBLIES

Calcor Corp.
 California Stamping & Mfg. Co.
 Colonial Aircraft Corp.
 Emhart Mfg. Co., Maxim Div.
 Hanlon & Wilson Co., The
 Industrial Acoustics Co., Inc.
 Lucifer Furnaces Inc.
 Edw. Renneburg & Sons Co.
 Woolf Aircraft Products, Inc.

HEATERS

Aerol Products Co., Inc.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 Allied International Corp.
 American Air Filter Co., Defense Products Div.
 American Instrument Co., Inc.
 Blue M Electric Co.
 Calcor Corp.
 Carborandum Co., The
 Cole Electric Co.
 Crane Co., Special Products Div.
 Damp-Choser, Inc.
 Dean Products, Inc.
 Despatch Oven Co.
 Drayer Hanson Div.-Crane Co.
 Electrolim, Inc.
 Electro-Flex Heat, Inc.
 Electromode, Div.-Commercial Controls Corp.
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 General American Transportation Corp.
 General Electric Co., Apparatus Sales Div.
 B. F. Goodrich Aviation Products
 Hanlon & Wilson Co., The
 Hastings Plastics, Inc.
 C. G. Hokanson Co., Inc.
 Hunter Mfg. Co.
 ILC Electric Ventilating Co.
 Janitrol Aircraft Div.-Midland-Ross Corp.
 Lear, Inc.
 Manning & Lewis Eng. Co.
 *MARTIN CO., THE, DENVER DIV.
 Minco Products, Inc.
 Perfection Div.-Hupp Corp.
 Edw. Renneburg & Sons Co.
 Safeway Heat Elements, Inc.
 Selas Corp. of America
 Show Burner Co.
 E. C. Smith Mfg. Co., Inc.
 Smith-Gates Corp., The
 South Wind Div., Stewart Warner Corp.
 Southwest Research Institute
 Surface Combustion Div.-Midland-Ross Corp.
 Thermal Research & Eng. Corp.
 Therm-O-Lab Corp.
 Tober Electronic Corp.
 United Aircraft Products, Inc.
 Wenzlau Engrg. Co.
 Whitlock Mfg. Co., The
 Edwin L. Wiegand Co.
 Worthington Corp.

HEATING EQUIPMENT, FLEXIBLE

American Air Filter Co., Defense Products Div.
 American Instrument Co., Inc.
 Briscoe Mfg. Co.
 Cox & Co., Inc.
 Dean Products, Inc.
 Electrolim, Inc.
 Electro-Flex Heat, Inc.
 General Electric Co., Apparatus Sales Div.
 General Electric Co., Light Military Electronics Dept.
 B. F. Goodrich Aviation Products
 Goodyear Tire & Rubber Co., The, Aviation Products Div.

Hammett-Mercury-Rex Div.
Hanlon & Wilson Co., The
C. G. Hokanson Co., Inc.
Janitrol Aircraft Div.-Midland-Ross Corp.
Jet-Heat, Inc.
Lepl High Frequency Labs. Inc.
Manning & Lewis Eng. Co.
Missimers Inc.
Napier Engines Inc.
Recony Div.-Vinco Corp.
Safeway Heat Elements, Inc.
Shaw Burner Co.
E. C. Smith Mfg. Co., Inc.
Smith-Gates Corp., The
Southwest Research Institute
Surface Combustion Div.-Midland-Ross Corp.
United States Rubber Co.
Vap-Air Aeronautical Products Div., Vapor Heating Corp.
Edwin L. Wiegand Co.
Worthington Corp.

HINGES

Aero Bolt & Screw Co., Inc.
Aero Spares, Inc.
Airhardware, Inc.
Bergen Carbide Co.
Burklyn Co.
Capital City Mfg. Co., Inc.
Hartwell Aviation Supply Co.
Walter K. Jaros Aircrafters
Ohlson Empire Inc.
Precision Shapes, Inc.
Richards-Wilcox Mfg. Co.
J. H. Sessions & Son
TA Mfg. Corp.
Twix Mfg. Co., Inc.

HOISTS, AIRBORNE

Aero Supply Mfg. Inc.
Agricultural Aviation Engineering Co. Inc.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
All American Engrg. Co.
American Machine & Foundry Co., Government Products, N. Y.
Associated Co., Inc.
Atlas Industrial Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bendix Utica Div., Bendix Aviation Corp.
Breeze Corporations, Inc.
Calcor Corp.
Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp.
Cromer Mfg. & Engrg., Inc.
Dalmo Victor Co., Div.-Textron, Inc.
Hoover Electric Co.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
Indiana Gear Works, Inc.
Jack & Heintz, Inc.
Lear, Inc.
*MARTIN CO., THE, DENVER DIV.
Pacific Scientific Co.
Robbins & Meyers, Inc., Hoist & Crane Div.
Silent Hoist & Crane Co.
Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.
Talley Corp., The
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Western Gear Corp.-Precision Products Div.
Wright Hoist Div., American Chain & Cable Co., Inc.

HOISTS, GROUND

Agricultural Aviation Engineering Co. Inc.
Air Logistics Corp.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
All American Engrg. Co.
Associated Co., Inc.
Atlas Industrial Corp.
Baker Industrial Trucks, Div.-Otis Elevator Co.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bendix Utica Div., Bendix Aviation Corp.
Breeze Corporations, Inc.
Budd Co., The
Calcor Corp.
Albert H. Cayne Equipment Corp.
Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp.
Coffing Hoist Div., Duff-Norton Co.
Colson Corp., The
Consolidated Diesel Electric Corp.
Cromer Mfg. & Engrg., Inc.
Droyer Hanson Div.-Crane Co.
Gardner-Denver Co.
Gar Wood Industries Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Joy Mfg. Co.

Link-Belt Co.
*MARTIN CO., THE, DENVER DIV.
Miami Engrg., Div.-Miami Shipbuilding Corp.
National Screw & Mfg. Co., The
Pre-Flite Industries Corp.-Sub-Avco Mfg. Corp.
Robbins & Meyers, Inc., Hoist & Crane Div.
Robot Industries Inc.
Rotary Lift Co., Div.-Dover Corp.
Sancor Corp.
Silent Hoist & Crane Co.
Standard Armament Inc.
B. K. Sweeney Mfg. Co.
Talley Corp., The
Thor Power Tool Co.
Weaver Mfg. Co., Div.-Dura Corp.
Wells Industries Corp.
Western Gear Corp.-Precision Products Div.
Westholt Mfg. Inc.
Wright Hoist Div., American Chain & Cable Co., Inc.

HOLDERS, CHASSIS

A&P Metal Products Mfg. Corp.
Budd Co., The
Crane Carrier Corp.
G. C. Electronics Co.
Kellett Aircraft Corp.
*MARTIN CO., THE, DENVER DIV.
Northeast Metals Industries, Inc.
Edw. Renneburg & Sons Co.
Waldick Engrg. Co.
Western Devices Inc.

HOLDERS, CRYSTAL

Accurate Electronics Corp.
Birnbach Radio Co., Inc.
Birtcher Corp., The
*DEL MAR ENGRG. LABS.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
E. F. Johnson Co.
Meridian Metalcraft, Inc.
Microwave Associates, Inc.
Permaflux Products Co.
Sage Labs, Inc.
Sanders Associates, Inc.
Sillocks-Miller Co.
Victor R. F. & Microwave Co.
Warren Components, Div.-El-Tronics, Inc.
Waveline, Inc.

HOLDERS, FUSE

Accurate Electronics Corp.
Alden Products Co.
Associated Engineers, Inc.
Bel Fuse Inc.
Birnbach Radio Co., Inc.
Burndy Corp., Omaton Div.
Hartwell Aviation Supply Co.
Kolton Electric Mfg. Co.
Kulka Electric Corp.
Littelfuse, Inc.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.

HORNS, MICROWAVE

Ainslie Corp.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Aircorn Inc.
American Beryllium Co.
American Electronic Labs., Inc.
Antlab Inc.
Bendix Aviation Corp.
Bogart Mfg. Corp.
Brooks & Perkins, Inc.
Dalmo Victor Co., Div.-Textron, Inc.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
FXR, Inc.
Gilliflan Bros. Inc.
John Gombos Co., Inc.
Gorham Electronics-Div.-Gorham Mfg. Co.
Hammett-Mercury-Rex Div.
Ludwig Hanold Mfg. Co.
ITT Federal Div., International Telephone & Telegraph Corp.
J.V.-M Microwave Co.
D. S. Kennedy & Co.
W. I. Maxson Corp., The
Meridian Metalcraft, Inc.
Microwave Associates, Inc.
Motorola, Inc.
Narda Microwave Corp., The
Omega Labs, Inc.
Polarad Electronics Corp.
Prodelin Inc.
Racon Electric Co. Inc.
Radalab Inc.
Radar Design Corp.
*RADIO CORP. OF AMERICA
Rontec Corp.

Republic Aviation Corp., Missile Systems Div.
Sage Labs, Inc.
Special Products Dept., Melpar, Inc.
Specialty Electronics Development Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stainless Inc.
Tamar Electronics, Inc.
Telerad Mfg. Corp.
Tober Electronic Corp.
Tranco Products, Inc.
Waveline, Inc.

HORNS, SPEAKER PROJECTOR

Atlas Sound Corp.
Electro-Voice, Inc.
Racon Electric Co. Inc.
*RADIO CORP. OF AMERICA
Wheelock Signals Inc.

HOSE

a. Air
b. Assemblies, Flexible
c. Flexible, Metallic
d. Flexible, Non-Metallic
e. Hydraulic
Aero Spares, Inc., b, e.
Aeroquip Corp., Jackson Div., a thru e.
Airterra, b.
All Specs Corp., b, e.
Allied Plastics Supply Corp., a thru e.
American Brass Co., The, a thru e.
Anaconda Metal Hose Div., The American Brass Co., a thru e.
Anchor Coupling Co. Inc., a, b, e.
Anchor Packing Co., The, a, c, d, e.
Ardmore Products Div., Amco Corp., b.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., a thru d.
Atlantic Metal Hose Co., Inc., c.
Avica Corp., a, c.
Bemis Bro. Bag Co., d.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., e.
Binks Mfg. Co., a.
Borden Chemical Co., d.
Breeze Corporations, Inc., a, b, c.
Chance Yough Aircraft, Inc., b thru e.
Cleco Air Tools, Div.-Reed Roller Bit Co., a.
Cobehn, Inc., a, b, d.
Cobra Metal Hose Div., DK Mfg. Co., b, c, e.
Components Corp., c.
Continental Rubber Works, a, b, d, e.
Co-Operative Industries, Inc., c.
Crystal-X Corp., d.
D K Mfg. Co., c.
R. E. Darling Co., Inc., a, b, d.
De Vilbiss Co., The, a, d.
Douglas Aircraft Co., Inc., b.
Dunbar-Kaplle Inc.-Aircraft Components Div., a, b, c, e.
Electric Hose & Rubber Co., a, b, d, e.
Federal Metal Hose Corp., c.
Flexaust Co., The, a, c, d.
Flexible Metal Hose Mfg. Co., b, c.
Flexible Tubing Corp., b, d.
Flexonics Corp., b, c, e.
Franklin Fibre-lamitex Corp., d.
Gates Rubber Co., The, a, d, e.
B. F. Goodrich Aviation Products, a, d, e.
B. F. Goodrich Industrial Products Co., a, d, e.
Goodyear Tire & Rubber Co., The, Aviation Products Div., a, d.
Hallett Mfg. Co., b, c.
George E. Harris & Co., Inc., b, c, e.
Haskel Engrg. & Supply Co., a, e.
Imperial Brass Mfg. Co., The, a, b, d, e.
Industrial Tools Mfg. Corp., Sub-Pendleton Tool Industries, Inc., b.
Johnson Metal Hose, Inc., a, b, c.
Kennedy Aircraft Supply Co., b.
M & Q Plastic Products, d, e.
Marginator Co., e.
*MINNESOTA MINING & MFG. CO., b, d.
Minnesota Rubber Co., d.
J. J. Monaghan Co., Inc., d.
New England Tape Co., Div.-United-Carr Fastener Corp., d.
Parker Fittings & Hose Div., Parker-Hannifin Corp., a, b, e.
Parts Engrg. Co., Inc., c.
Polymer Corp., The, a, b, d, e.
Raybestos-Manhattan, Inc., a, d, e.
Reeves Bros. Inc., Vulcan Rubber Div., a, d.
Resistoflex Corp., a, b, d, e.
Fred T. Roberts & Co., a, b, d.
Roberts Toledo Rubber Co., The, d.
Roylin Inc., b.
Rubbercraft Corp. of California, d.
Scott Aviation Corp., a.

Servicair Co., c.
 Sierra Engrg. Co., b.
 Skytronics, Inc., a, d.
 Standard-Thomson Corp., Clifford Mfg. Co. Div., c.
 Stewart-Warner Corp., Alamite Div., a, b, e.
***STRATOFLEX, INC., a thru e.**
 Superior Pneumatic & Mfg., Inc., a.
 Swan Rubber Co., a, d.
 Technicraft, Div., Electronic Specialty Co., c.
 Tetrafluor, Inc., d.
 Textstar Plastics, Div., The Textstar Corp., a thru e.
 Thermoform Div., H. K. Porter Co., Inc., a thru e.
 Titelflex, Inc., a thru e.
 United States Rubber Co., a, d, e.
 Utility Brass & Copper Corp., c.
 Weatherhead Co., The, a thru e.
 Western Div., Aeroquip Corp., a thru e.
 Winder Aircraft Corp. of Florida, b.
 Zep Aero, a thru d.
 Zippertubing Co., The, b, c, d.

HOT GAS SYSTEMS & CONTROLS

Chandler Evans Corp.

HUMIDITY CONTROL SYSTEMS

American Instrument Co., Inc.
 American Research Corp.
 Baker Co., Inc., The
 Bendix Aviation Corp.
***BRISTOL CO., THE**
 Budd Lewyt Electronics, Inc.
 Chance Vought Aircraft, Inc.
 Joe Davidson & Associates
 Daystrom, Inc., Weston Instruments Div.
 Decker Corp., The
 Dreyer Hanson Div., Crane Co.
 Driair, Inc.
 Drymatic Corp.
 Eastern Industries Inc.
 Frick Co.
 Gardner Laboratory, Inc.
 Great Lakes Mfg. Corp.
 Hughes Tool Co., Aircraft Div.
 Humidial Co.
***INTERELECTRONICS CORP.**
 Kahn & Co., Inc.
 Lear, Inc.
 Leeds & Northrup Co.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
 Messimers Inc.
 New England Scientific Instruments Co.
 Pioneer Industries Div., Almar-York Co. Inc.
 Powers Regulator Co., The
 Research Products Corp.
 Serdex, Inc.
 Southwest Research Institute
 Southwestern Industrial Electronics Co.
 Spraying Systems Co.
 Statham Development Corp.
 Surface Combustion Div., Midland-Ross Corp.
 Transco Products, Inc.
 Universal Dynamics Corp.
 Warren Components, Div., El-Tronics, Inc.
 Wells Industries Corp.
 York Div., Borg-Warner Corp.

HYDRAULIC RESERVOIRS

American Instrument Co., Inc.
 Arnold Corp.
 Benbow Mfg. Corp.
 Bendix Aviation Corp.
 Bendix-Pacific Div., Bendix Aviation Corp.
 Cadillac Gage Co.
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Colson Corp., The
 Eastern Industries Inc.
 Electrol Inc.
 Ex-Cell-O Corp.
 Flight Support, Inc.
 General American Transportation Corp.
 Great Lakes Mfg. Corp.
***HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.**
 Hydra-Power Corp.
 Integral Corp.
 Kahn & Co., Inc.
 Kelsey-Hayes Co.
***MARTIN CO., THE, DENVER DIV.**
 George L. Nankervis Co.
 National Water Lift Co., Div., Cleveland Pneumatic Industries Inc.
 Northeast Metals Industries, Inc.
 Oil-Dyne, Inc.
 Ozone Metal Products Corp.
 Peacock Engrg. & Mfg. Co.
 Richard Philip Co.
 Pressed Steel Tank Co.

REF Mfg. Corp.
 Rucker Co., The
 Sancor Corp.
 Sargent Engrg. Corp.
 Simmonds Aerocessories, Inc.
 Sun Electric Corp., Aeronautical Div.
 Sweetland Engrg. Co.
 United Aircraft Products, Inc.
 Vickers Inc.
 Vickers Inc., Div., Sperry Rand
 Vickers, Inc., Mich.
 Vinson Mfg. Co., Inc.
 Weatherhead Co., The
 Wells Industries Corp.

HYDRAULIC SYSTEMS & CONTROLS

Adel Precision Products of Calif., Div., General Metals Corp.
 Aeroflex Labs. Div., Aeroflex Corp.
 Aeronautical Machinists Inc.
 Aircraft Accessory Turbine Dept., General Electric Co.
 Airdrome Parts Co.
 Alco Valve Co.
 Allison Div., General Motors Corp.
 American Brake Shoe Co.
 American Brake Shoe Co., Kellogg Div.
 American Machine & Foundry Co., Government Products, N. Y.
 Anderson, Greenwood & Co.
 Applied Dynamics Corp.
 Arkwin Industries, Inc.
***ASSOCIATED TESTING LABS., INC.**
 Auto-Control Labs. Inc.
 Autonetics, Div., North American Aviation, Inc.
 Benbow Mfg. Corp.
 Bendix Aviation Corp.
***BENDIX AVIATION CORP., HAMILTON DIV.**
 Bendix Aviation Corp., Mantrose Div.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
 Bendix-Pacific Div., Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Bowser, Inc.
 Budd Lewyt Electronics, Inc.
 Cadillac Gage Co.
 Cardell Mrs.
 Chance Vought Aircraft, Inc.
 Cincinnati Milling Machine Co., The
 The Clark Equipment Co.
 Colson Corp., The
 Columbia Research & Development Corp.
 Consolidated Controls Corp.
 Consolidated Diesel Electric Corp.
 Cornelius Co., The, Aero Div.
 Douglas Aircraft Co., Inc.
 Dynamic Controls Corp.
 Eastern Industries Inc.
 Electrol Inc.
 Electro-Seal Corp.
 Ex-Cell-O Corp.
 Flight Refueling, Inc.
 Food Machinery & Chemical Corp., Ordnance Div.
 Futurecraft Corp.
 Gar Wood Industries Inc.
 General American Transportation Corp.
 General Electric Co., Armament & Control Sect., Light Mil Elec. Dept.
 General Electric Co., Light Military Electronics Dept.
 General Regulator Corp.
 Gillilan Bros. Inc.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 B. H. Hadley, Inc.
 Hagan Chemicals & Controls Inc.
 Hamilton Standard, Div., United Aircraft Corp.
 Hein-Werner Corp.
 Holley Carburetor Co.
***HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.**
 Hughes Tool Co., Aircraft Div.
 Huyck Systems Co.
 Walter J. Hyatt Co., The
 Hydra-Power Corp.
 Hydraulic Press Mfg. Co., The, Div., Koehring Co.
 Hydraulic Research & Mfg. Co.
 Hydraulics, Inc.
 Integral Corp.
 Janitrol Aircraft Div., Midland-Ross Corp.
 Kaha & Co., Inc.
***KEARFOTT DIV., GENERAL PRECISION, INC.**
 Kelsey-Hayes Co.
 Kemp Aero Products
 Kieley & Mueller, Inc.
 Lear, Inc.
***WALLACE O. LEONARD, INC.**
 M. C. Mfg. Co.
 Marginator Co.
 Marauder Corp., The
***MARTIN CO., THE, DENVER DIV.**
 Midwestern Instruments, Inc.

Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
 J. E. Myles, Inc.
 George L. Nankervis Co.
 National Water Lift Co., Div., Cleveland Pneumatic Industries Inc.
 New York Air Brake Co., The, Watertown Div.
 Northrop Corp.
 Oil-Dyne, Inc.
 Ordnance Engrg. Associates, Inc.
 Owatonna Tool Co., Precision Hydraulic Div.
 Ozone Metal Products Corp.
 Parabam, Inc.
 Peacock Engrg. & Mfg. Co.
 Pegasus Labs., Inc.
 Pesco Products Div., Borg-Warner Corp.
 Pneu-Hydro Valve Corp.
 Pre-Fite Industries Corp., Sub-Avco Mfg. Corp.
 REF Mfg. Corp.
 Regent Jack Mfg. Co., Inc.
 Republic Aviation Corp., Missile Systems Div.
 Research, Inc.
 Rimak, Inc.
 J. R. Robbins Co.
 Ronson Hydraulic Units Corp.
 Royal Jet, Div., Royal Industries, Inc.
 Rucker Co., The
 Sancor Corp.
 Sanders Associates, Inc.
 Sargent Engrg. Corp.
 Sierra-Schroeder Controls, Div., Idaho Maryland Mines Corp.
 Simmonds Aerocessories, Inc.
 A. O. Smith Corp., Smith-Erie Div.
 Sperry Piedmont Co., Div., Sperry Rand Corp.
 A. U. Stone & Co., Inc.
 Sun Electric Corp., Aeronautical Div.
 Sundstrand Turbo
 Sweetland Engrg. Co.
 Tactair Valve Div., Aircraft Products Co.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 Trimount Instrument Co.
 United Aircraft Products, Inc.
 Vickers Inc.
 Vickers Inc., Div., Sperry Rand
 Vickers, Inc., Mich.
 Vinson Mfg. Co., Inc.
 Waterman Hydraulics Corp.
 Wayne Pump Co., The, Div., Symington Wayne Corp.
 Weatherhead Co., The
 The Weaver Mfg. Co., Div., Dura Corp.
 Wells Industries Corp.
 Western Design, Div., U. S. Industries, Inc.
 Western Sky Industries
 Weston Hydraulics Ltd., Sub-Borg-Warner Corp.
 Whittaker Controls, Div., Telecomputing Corp.
 Wickfield, Inc.

HYDROMETERS

Automation Products, Inc.
 Cox Instruments Div., George L. Nankervis Co.
 Fischer & Porter Co.
 Fisher Scientific Co., Maryland
 Gardner Laboratory, Inc.
 General Scientific Equipment Co.
 Liquidometer Corp., The
 George L. Nankervis Co.
 Weksler Instruments Corp.

IGNITERS, JET ENGINE

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
 Allied International Corp.
 Allison Div., General Motors Corp.
 American Potash & Chemical Corp., National Northern Div.
 Armament Div., Universal Match Corp.
 Auburn Spark Plug Co., Inc.
 B. G. Corp., The
 Beckman & Whitley, Inc., Missile Products Div.
 Bendix Aviation Corp.
 Bermet Powder Co.
 Champion Spark Plug Co.
 Delavan Mfg. Co.
***DEL MAR ENGRG. LABS.**
 Electric Autolite Co., The
 Ex-Cell-O Corp.
 Gabriel Co., Rocket Power-Talco
 General Laboratory Associates, Inc.
 Hercules Powder Co., Chemical Propulsion Div.
***HOLEX, INC.**
 Mc Cormick Selph Associates
 Olin Mathieson Chemical Corp., N. Y.
 Olin Mathieson Chemical Corp., Winchester-Western Div.
 Ordnance Research & Development Co., Div., Bermet Powder Co.
 Plastic Age Sales, Inc.
 Propellex Chemical Div., Chromalloy Corp.

IGNITION ASSEMBLIES

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
 American Potash & Chemical Corp., National Northern Div.
 Auburn Spark Plug Co., Inc.
 Beaton & Corbin Mfg. Co., The Bendix Aviation Corp.
 Bermite Powder Co.
 Cosmic Instruments Inc.
 Curtiss-Wright Corp.-Wright Aeronautical Div.
***DEL MAR ENGRG. LABS.**
 Electric Autolite Co., The Gabriel Co., Rocket Power-Talco General Laboratory Associates, Inc.
 Hallett Mfg. Co.
 George E. Harris & Co., Inc.
***HOLEX, INC.**
 Kilgore Inc., International Flare-Signal Div.
 Leece-Neville Co., The
***MARTIN CO., THE, DENVER DIV.**
 J. E. Menough Co.
 Olin Mathieson Chemical Corp., Winchester-Western Div.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Rimak, Inc.
 Rocketdyne Div.-North American Aviation, Inc.
 Scintilla Div., Bendix Aviation Corp.
 Servicair Co.
 Skytronics, Inc.
 Southwest Research Institute
 Thor Ceramics, Inc.
 Titeflex, Inc.

IGNITION ASSEMBLIES, SOLID ROCKET

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
***AEROJET-GENERAL CORP.**
 Amcel Propulsion Inc.
 American Potash & Chemical Corp., National Northern Div.
 American Rocket Co.
 Auburn Spark Plug Co., Inc.
 Beckman & Whitley, Inc., Missile Products Div.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bendix Aviation Corp.
 Bermite Powder Co.
 A. M. Byers Co.
***EXCELCO DEVELOPMENTS INC.**
 Food Machinery & Chemical Corp., Ordnance Div.
 Gabriel Co., Rocket Power-Talco
 Grand Central Rocket Co.
 Hallett Mfg. Co.
 Hercules Powder Co., Chemical Propulsion Div.
 Hicks Corp., The
***HOLEX, INC.**
 Kilgore Inc., International Flare-Signal Div.
 Librascope Div., General Precision, Inc.
***MARTIN CO., THE, DENVER DIV.**
 Mc Cormick Selph Associates
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Plastic Age Sales, Inc.
 Propellax Chemical Div., Chromalloy Corp.
 Scintilla Div., Bendix Aviation Corp.
 Solar Aircraft Co.
 Solid Propulsion Ops., Rocketdyne Div., North American Aviation
 Southwest Research Institute
 Thiokol Chemical Corp., Hunter-Bristol Div.
 Thiokol Chemical Corp., Redstone Div.

IGNITION SYSTEMS, AIRBORNE

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
 American Potash & Chemical Corp., National Northern Div.
 Auburn Spark Plug Co., Inc.
 Beckman & Whitley, Inc., Missile Products Div.
 Bendix Aviation Corp.
 Bermite Powder Co.
 Gabriel Co., Rocket Power-Talco
 General Electric Co., Rocket Engine Section
 General Laboratory Associates, Inc.
 Hallett Mfg. Co.
 George E. Harris & Co., Inc.
 lear, Inc.
 Librascope Div., General Precision, Inc.
***MARTIN CO., THE, DENVER DIV.**
 J. E. Menough Co.
 Olin Mathieson Chemical Corp., Winchester-Western Div.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Skytronics, Inc.

IGNITION SYSTEMS, ELECTRONIC

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
 American Potash & Chemical Corp., National Northern Div.
 Auburn Spark Plug Co., Inc.
 Bendix Aviation Corp.
 Bermite Powder Co.
 Electric Autolite Co., The Engrg. Specialties
 General Laboratory Associates, Inc.
 Hammett-Mercury-Rex Div.
***HOLEX, INC.**
 Lear, Inc.
 Librascope Div., General Precision, Inc.
***MARTIN CO., THE, DENVER DIV.**
 Modelectric Products Corp.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Rimak, Inc.
 Scintilla Div., Bendix Aviation Corp.

IGNITION TUBE ASSEMBLIES

American Potash & Chemical Corp., National Northern Div.
 Bermite Powder Co.
***DEL MAR ENGRG. LABS.**
 Food Machinery & Chemical Corp., Ordnance Div.
 General Laboratory Associates, Inc.
 Lantex Industries Inc.
 J. E. Menough Co.
 Narrich Plastics Corp.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Plastic Age Sales, Inc.
 Scintilla Div., Bendix Aviation Corp.

IMPELLERS

Aero Mfg. & Mach. Co., Inc.
 Allison Div., General Motors Corp.
 American Insulator Corp.
 Beckman & Whitley, Inc., Missile Products Div.
 Bendix Utica Div., Bendix Aviation Corp.
 Bethlehem Steel Co.
 A. M. Byers Co.
 Capital City Mfg. Co., Inc.
 Curtiss-Wright Corp.-Wright Aeronautical Div.
***EXCELCO DEVELOPMENTS INC.**
 General American Transportation Corp.
 George Garton Machine Co.
 Jarvis Corp.
 Kerns Mfg. Corp.
 Lycoming Div., Avco Corp.
 Small Motors Inc.
 Stalker Corp., The
 Sundstrand Turbo
 Topco Group, Thompson Ramo Wooldridge Inc.
 Therm, Inc.
 Thompson Ramo Wooldridge Inc.
 Warrington Corp.

INCLINOMETERS

A. Biederman, Inc.
 Eastman Kodak Co.
***ENGIS EQUIPMENT CO.**
 Integrated Dynamics Div., Globe Industries, Inc.
 A. Lietz Co., The
 Micro Gee Products, Inc.
 Spectra Electronics Corp.
 Warren-Knight Co.

INDICATORS

a. Antenna Position
 b. Arc-Back
 c. Arc-Over
 d. Capacitor Leakage
 e. Data Display
 f. Detonation Indicators & Meters
 g. Deviation
 h. Dew Point
 i. Dielectric Constant
 j. Film Thickness
 k. Fluid Conductivity
 l. Fluid Flow, Electronic
 m. Frequency
 n. Fuel Flow Rate
 o. Fuel Mixture
 p. Humidity
 q. Illumination
 r. Liquid Level
 s. Magnetic Field
 t. Materials Thickness
 u. Miss-Distance
 v. Modulation
 w. Moisture
 x. Null
 y. Null-Balance
 z. Oxygen

a-1. Ph
 b-1. Photographic Exposure
 c-1. Plan Position
 d-1. Pressure
 e-1. Proximity
 f-1. Pulse Timer Riser
 g-1. Radiation
 h-1. Radiation, Nuclear
 i-1. Recording Engine
 j-1. Remote
 k-1. Servo
 l-1. Smoke & Combustion, Electronic
 m-1. Sound Level
 n-1. Specific Gravity
 o-1. Speed
 p-1. Strain
 q-1. Telemetering
 r-1. Temperature
 s-1. Thrust
 t-1. Timing
 u-1. Torque
 v-1. Vacuum
 w-1. Variable
 x-1. Vibration
 y-1. Volume
 z-1. Weight
 a-2. Wind Direction
 b-2. Wind Speed, Electronic

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**

r, u-1.
 ACF Industries Inc., d-1, v-1.
 ASCOP Div., Electro-Mechanical Research, Inc., q-1.
***ABRAMS INSTRUMENT CORP., t-1.**
 Acromag Inc., m.
 Actuator Products Div., Geartronics Corp., a-1.
 Admiral Corp., c-1.
 Advance Instrument Corp., e, p, j-1, k-1, r-1, a-2.
 Advanced Electronics, Inc., x-1.
 Aero Instrument Co., m, t-1.
 Aero Supply Mfg. Inc., l.
***AEROJET-GENERAL CORP., d-1.**
 Aerona Mfg. Corp.-Aerospace Div., e, u, e-1, q-1.
 Aeroscience, Inc., m, p-1, s-1, u-1, y-1, z-1.
 Aerotec Industries Inc., Aircraft Equipment Div., n, r, z, d-1, v-1.
 Ainslie Corp., o.
 Air Products, Inc., z.
 Aroterra, r.
 Aircraft Armaments, Inc., u.
 Aircraft Instruments Co., r, c, l, d-1.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., l, n, d-1, k-1, r-1, y-1, z-1.**
 Airpax Electronics Inc., Cambridge Div., m.
 Airpax Electronics Inc., Semole Div., m.
 Allard Instrument Corp., e.
 Allegany Instrument Co., Inc., p-1, s-1.
 Allied International Corp., a, v-1.
 American Electronics Inc., Teller-Cooper Div. & Data Systems Div., q-1.
 American Instrument Co., Inc., h, j, p, t, a-1, d-1, p-1, r-1, v-1.
 American Machine & Foundry Co., Government Products, N. Y., m, t.
 American Research & Mfg. Corp., x-1.
 American Tradair Corp., h-1.
 B. C. Ames Co., t.
 Amhor Testing Instrument Co., Inc., a-1.
 Analytical Measurements, Inc., w, a-1.
 Andersen Labs, Inc., r-1.
 Anlab Inc., o, k-1, q-1.
 Applied Electronics Corp. of N. J., e, q-1.

***ARNO CORP., e, q-1, r-1.**
 Aro-Fireweld Co. Inc., Sub. The Aro Equip. Corp., r, z.
 Associated Research, Inc., d, i.
 Auto-Control Labs, Inc., n.
 Automatic Timing & Controls, Inc., l, r, x, d-1, e-1, k-1, t-1, y-1, z-1.
 Automation Products, Inc., o, r, n-1.
 Autotronics Inc., u-1.
 Avien, Inc., n, a, r, y, q-1, r-1.
 Avtron Mfg., Inc., v.

B & H Instrument Co., Inc., l, m, n, x, y, d-1, t-1, k-1, o-1, q-1, r-1, z-1.
 B & K Instruments, Inc., m-1, x-1.
 Boird-Atomic, Inc., g-1, h-1.
 Baldwin-Lima-Hamilton Corp., Electronics & Instrumentation Divs., y, p-1, u-1, z-1.
 Barnes Development Co., d, x, y.
 Beckman Instruments, Inc., Berkeley Div., e, l, m, n, j-1, o-1, r-1, t-1.
 Beckman & Whitley, Inc., Instrument Div., r-1, a-2, b-2.
 Belock Instrument Corp., e, j-1, k-1, t-1.
 Bendix Aviation Corp., a, e, g, h, l, n, o, p, r, s, u, w, z, d-1, e-1, g-1, h-1, j-1, k-1, l-1, o-1, q-1, r-1, v-1, x-1, a-2, b-2.
 Bendix Aviation Corp., Cincinnati Div., e, m, w, g-1, h-1.

Bendix Aviation Corp., Montrose Div., a, e, g, l, n, d-1, j-1, a-1, s-1, u-1, a-2.

Bendix Aviation Corp., Pioneer-Central Div., l, n, r, z.

Bendix Corp., The, Eclipse-Pioneer Div., j-1, k-1.

Benson-Lehner Corp., e, l.

Bergen Labs., Inc., r-1, u-1.

James G. Bidale Co., m, a-1.

A. Biederman, Inc., a, n, a, z, d-1, a-1, r-1, s-1, u-1, v-1, a-2.

Blonder-Tongue Labs., Inc., Special Products Div., r-1.

Boonton Electronics Corp., x.

Boston Auto Gage Co., The, r.

Bowmer Instrument Corp., a, g, k-1, t-1, w-1, a-2.

Bowser Inc., Defense Div., n.

Branson Instruments, Inc., t.

*BROOKS CO., THE, h, p, r, y, d-1, k-1, q-1, r-1, v-1.

Brosius Rotameter Co., l, n, a, r, n-1.

Bruno-New York Utilities Corp., u, y, q-1.

Budd Co., The, p-1, u-1.

Budd Lewyt Electronics, Inc., e, m, c-1, k-1.

Bulova Research & Development Labs., Inc., d-1, k-1, a-1, q-1, t-1, u-1.

Burr-Brown Research Corp., x.

Burroughs Corp., Electronic Tube Div., e.

Bytrec Corp., n, x, y, j-1, k-1, p-1, s-1, u-1, z-1.

CG Electronics Corp., a, e.

California Plasteck Inc., q.

Camerflex Div., The, Federal Mfg. & Engrg. Corp., k-1.

Carling Electric, Inc., q.

Cedar Engr. Div., Control Data Corp., k-1.

Central Scientific Co., a-1, v-1.

Chico Engr. Corp., e.

Chloro Chemical Corp., a-1.

Clark Electronic Laboratories, d-1, z-1, b-2.

Coleman Instruments, Inc., a-1.

Collins Radio Co., g, c-1.

Colvin Labs., Inc., j, q.

Conflow Corp., r, d-1.

Consolidated Airborne Systems, Inc., r, x, y, k-1.

Consolidated Controls Corp., d-1, s-1.

*CONSOLIDATED ELECTRODYNAMICS CORP., e, w, d-1, p-1, q-1, v-1, x-1.

Consolidated Vacuum Corp., v-1.

Continental Electric Co., v-1.

Convairst Instruments, Convairst Div.-General Dynamics Corp., k-1.

Control Sw. Div. Controls Co. of America, e, q.

Courter Products, Div. Model Engr. & Mfg., Inc., e, l, d-1.

Cox Instruments Div., George L. Nankervis Co., e, l, m, n, d-1, j-1, k-1, n-1, a-1, p-1, r-1, s-1, u-1, w-1, z-1.

Cramer Controls Corp., t-1.

Crescent Engr. & Research Co., l, x, d-1, k-1, a-1, q-1.

Cubic Corp., u.

DBM Research Corp., p, w.

Dalmo Victor Co., Div. Textron, Inc., k-1.

Datascan Inc., b, c, e.

Daven Co., The, y-1.

Joe Davidson & Associates, a-1, r-1, u-1.

Daystrom, Inc., Military Electronics Div., e.

Daystrom Inc., Transcoil Div., a, e, j-1, k-1, b-2.

Daystrom Inc., Weston Instruments Div., m, p, q, v, w, x, b-1, m-1, a-1, r-1, t-1, y-1.

Daytronic Corp., t, p-1, u-1.

Decker Corp., The, i, j, l, m, p, r, t, w, d-1, e-1, n-1, u-1, x-1.

Deur-Amsco Corp., Electronic Sales Div., b-1, r-1, t-1.

*DEL MAR ENGRG. LABS., e, u.

Deisen Corp., t, y.

Desoma Products, Inc.-Anders-Drilme, h, w.

Diablight Corp., e.

Diamond Power Specialty Corp., r.

J. W. Dice Co., j, t.

Henry G. Dietz Co., Inc., n.

Digital Sensors Inc., j-1, t-1.

W. C. Dillon & Co., Inc., r-1, u-1, z-1.

Dryer-Hanson Div.-Crane Co., a.

Draine Inc., p, w.

Allen B. DuMont Labs., Inc., e, u, i-1.

Dumont Engr. Co., r.

Eastern Industries Inc., p.

Eastman Kodak Co., u, b-1, d-1, e-1, q-1, t-1.

Eberline Instrument Corp., g-1, h-1.

Eclipse-Pioneer Div.-Bendix Aviation Corp., k-1, u-1.

Elect. Instruments, d-1.

Emerson Edison Ind. Instrument Div.-McGraw-Hill, Inc., d-1, k-1, r-1.

Edwards High Vacuum Ltd., d-1, v-1.

Eltek McCullough, Inc., v-1.

Electro Instruments, Inc., d, e, g, i, m, j-1.

Electro Products Labs., Inc., e-1, a-1, t-1.

Electronic Control Corp., l-1.

Electronic Radar Products, h, p, w.

Elision Dratt Gage Co., Inc., w, z, d-1, v-1.

Emerson Sub. Emerson Radio & Phonograph Corp., u, e-1, t-1, h-1, j-1, q-1, x-1, a-2, b-2.

Engelhard Industries, Inc., z.

Epic, Inc., m, x, r-1, x-1.

*EQUIPMENT DIV., RAYTHEON CO., a, e, u, c-1.

Erie Instrumentation, Div.-Erie Resistor Corp., e.

Erie Resistor Corp., l, m, q-1, r-1, t-1.

Eureka Williams Corp., p.

Exocet Engr. & Mfg., Inc., k-1.

FKK, Inc., m.

FAE Instrument Corp., k-1, a-1.

Federal Products Corp., t.

Feedback Controls, Inc., k-1.

Fenwal Inc., k-1, l-1, r-1.

Fischer & Porter Co., l, n, r, r-1.

Fisher Scientific Co., z, a-1, n-1, r-1, v-1.

Fisher Scientific Co., Maryland, h, p, a-1, n-1, r-1, v-1, z-1.

Flight Refueling, Inc., r.

Flow Measurements Corp., l, n.

Fluid Power Inc., z.

Freed Transformer Co., Inc., x.

Friez Instrument Div.-Bendix Aviation Corp., p, d-1, q-1, a-2, b-2.

Furane Plastics, Inc., j, j.

Gardner Laboratory, Inc., j, p, t, w, a-1, n-1, a-2.

Garwin, Inc., n, d-1, r-1.

General Communication Co., n-1.

General Controls Corp., r, d-1, j-1, r-1.

General Devices, Inc., v, v, f-1, q-1, t-1.

General Electric Co., Apparatus Sales Div., m, n, t, b-1, h-1, j-1, k-1, l-1, a-1, r-1, s-1, v-1, x-1.

General Electric Co., Instrument Dept., n, r, c-1, k-1, r-1, u-1.

General Electric Co., Missile & Space Vehicle Dept., Pa.

General Instrument Corp., Defense & Engrg. Products Group, e, c-1, j-1, q-1.

General Radio Co., i, m, v, x, y, m-1, x-1.

Gillilan Bros. Inc., a, q-1.

Gilmore Industries, Inc., e, l, n, x, y, d-1, t-1, k-1, n-1, a-1, p-1, r-1, s-1, u-1, z-1.

Glassco Instrument Co., d-1, v-1.

Good Electronic Corp., b-2.

Gordon Enterprises, b-1.

Graflex Inc., e, k-1.

Greibach Instruments Corp., e, l.

Gulton Industries, Inc., a, e, i, r, d-1, k-1, m-1, q-1, r-1, x-1.

W & L E. Gurley, a-2, b-2.

B. H. Hadley, Inc., r.

Haley Electronics Co., l, r.

Hallamore Electronics Co., Div.-Sieglar Corp., a, q-1.

Hallcrafters Co., The, e.

Hammett-Mercury Rex Div., k-1, q-1.

Hathaway Instruments, Inc., r-1.

A. W. Haydon Co., The, j-1, q-1, t-1.

Hays Corp., The, z, a-1, d-1, j-1, k-1, v-1.

Hazeltine Electronics Div.-Hazeltine Corp., e.

Hickok Electrical Instrument Co., The, p, r, w, a-2.

High Vacuum Equipment Corp., Sub. Robinson Tech. Products, Inc., v-1.

E. Vernon Hill & Co., h, p, w, d-1, a-1, r-1, v-1, x-1.

John W. Hobbs Corp., Div.-Stewart-Warner Corp., t-1.

Hoffman Electronics Corp., Military Products Div., s-1.

Honeywell, Marion Instruments Div., e, g, u, x.

Hoover Electronics Co., q-1.

Houston Fearless Corp., a.

Humidat Co., p.

Huyck Systems Co., e, l, n, k-1, a-2, b-2.

Walker J. Hyatt Co., The, d-1.

I-I-S Instrument Div., The Meriam Instrument Co., l, m, n, r, e-1, f-1, a-1, t-1, u-1.

ITT Federal Div., International Telephone & Telegraph Corp., e, k-1, b-2.

Ideal-Aerosmith, Div. Royal Industries, Inc., d-1.

Illinois Testing Laboratories, Inc., h, r-1.

Image Instruments, Inc., e, j-1, y-1.

Impact-O Graph Corp., The, n-1, s-1.

Imperial Brass Mfg. Co., The, r.

Industrial Acoustics Co., Inc., m-1.

Industrial Control Co., a, d, x, y.

Industrial Electronic Engineers, Inc., e.

Industrial Instruments, Inc., d, i, k, r.

Industrial Test Equipment Co., d, x, y.

Industrial Timer Corp., t-1.

Ingraham Co., The, t-1.

Instrument Div., The Budd Co., g-1, p-1.

Intercontinental Electronics Corp., c-1.

International Electronic Research Corp., n, g-1, h-1, j-1, z-1.

Interstate Electronics Corp., u, g-1, h-1, q-1.

Isotopes Specialties Co., Div. Nuclear Corp. of America, r, t, h-1.

Jeffrey Mfg. Co., The, t.

Kahn & Co., Inc., h, m, p, r-1.

Kay Electric Co., m, x-1.

*KEARFOTT DIV., GENERAL PRECISION, INC., e, d-1, j-1, k-1, a-1, r-1, u-1, a-2, b-2.

Keithley Instruments, Inc., x, y.

Wayne Kerr Corp., d, i, j, e-1, x-1.

Kidde Aero-Space Div., Walter Kidde & Co., Inc., r-1.

Kielely & Mueller, Inc., r.

Kin Tel Div.-Cohu Electronics, Inc., x.

Kistler Instrument Corp., s-1, x-1.

Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc., e, u, d-1, j-1, k-1, a-1, r-1, s-1, b-2.

Lab. for Electronics, Inc., e, q-1.

Lampkin Labs., Inc., M.R. Div., g, m, v.

Langley Corp., r-1.

Leor, Inc., a, d, e, g, k, l, n, a, p, r, s, u, w, y, c-1, d-1, i-1, j-1, k-1, a-1 thru s-1, u-1, v-1, b-2.

Leeds & Northrup Co., k, q, x, y, a-1, r-1.

LEWALLONS, Inc., j-1.

*LEWIS ENGRG. CO., THE, y, r-1.

Liquidometer Corp., The, r, x, y, z, k-1, n-1, r-1, y-1.

Lockheed Aircraft Corp., Missiles & Space Div., u, q-1.

MB Electronics, x-1.

Madigan Corp., a, e, l, n, u, c-1, d-1, k-1, q-1, s-1, a-2, b-2.

Magnaflex Corp., Sub.-General Mills, Inc., s, t, p-1.

Magnetic Circuit Elements, Inc., j-1.

Magnetic Instrument Co., Inc., r, r-1.

Magtrol, Inc., u-1.

Marion Instrument Div.-Minneapolis-Honeywell Regulator Co., x.

Marsh Instrument Co., Div.-Colorado Oil & Gas Corp., d-1, r-1, v-1.

*MARTIN CO., THE, DENVER DIV., e, g, m, j-1, k-1, p-1.

Mason-Neelan, r.

W. L. Maxson Corp., The, n, r, j-1.

Metron Instrument Co., a-1, u-1.

Metro Electronic Corp., e, k-1.

James Millen Mfg. Co., Inc., v, x, y.

Minco Products, Inc., r-1.

Mine Safety Appliances Co., h, m, r, z, m-1.

Minneapolis-Honeywell Regulator Co., Aeronautical Div., r, x, y, z.

Minneapolis-Honeywell Regulator Co., Boston Div., a, y.

Mira Corp., The, z.

Mitchell Camera Corp., e, d-1, j-1, k-1, r-1, s-1.

Molded Insulation Co., p, r-1.

J. J. Monaghan Co., Inc., y-1.

Motorola, Inc., e, u, v, c-1, e-1, j-1, q-1.

Muirhead Instruments, Inc., t, x, y, k-1.

NUMEC Nuclear Materials & Equipment Corp., g-1, h-1, y-1, z-1.

National Co., Inc., e, m, u, q-1, v-1.

National Cylinder Gas, Div.-Chemtron Corp., z.

National Electronics, m, a-1, r-1.

Navigation Computer Corp., e.

New England Scientific Instruments Co., p, a-1.

New London Instrument Co., Inc., g, v.

Non-Linear Systems, Inc., e, g.

Northrop Corp., j.

Nuclear Corp. of America, r, h-1.

Nuclear Measurements Corp., h-1.

Nuclear-Chicago Corp., g-1, h-1.

Ohmart Corp., The, h-1.

Optomechanisms, Inc., b-1.

Orbitron Co., Inc., s-1, z-1.

John Oster Mfg. Co., Avionic Div., l, d-1, k-1, s-1.

Owen Labs., Inc., p-1.

Oxygen Equipment & Service Co., z.

PSP Engr. Co., Div.-IMC Magnetics Corp., N, Y, a, j-1.

Paco Electronics Co., Inc., d.

Palmer Thermometers, Inc., p, r-1.

Panoramic Radio Products, Inc., g, m, v, q-1, x-1.

Ralph M. Parsons Co., The, Electronics Div., u, e-1.

Patterson Moos Research, Div.-Leesona Corp., e-1, g-1, t-1.

Patwin, Div. Patent Button Co., e.

Penn Keystone Corp., e, r, c-1, j-1.

Performance Measurements Co., n, y, d-1, j-1, k-1, n-1, a-1, p-1, r-1, s-1, u-1, z-1.

Philco Corp.-Govt. & Industrial Group, e.

Philips Electronic Instruments, j.

Photocore Research Products, d-1, e-1.

Photovolt Corp., a-1, b-1.

Pimax, Inc., p, w, a-1, r-1.

Pitometer Log Corp., g, m, a-1, u-1.

Pittsburgh Electrodryer Div.-McGraw-Edison Co., h.

Polador Electronics Corp., k-1.

Polyphase Instrument Co., p-1.

Potter Aeronautical Corp., l, m, n, n-1, a-1.

Powers Regulator Co., The, r-1.

Precision Thermometer & Instrument Co., p, r-1, v-1.

Process Instruments, v-1.

Pryometer Instrument Co., Inc., r-1.

Radiolab, Inc., a.

Radiation Instrument Development Lab., Inc., h-1.

*RADIO CORP. OF AMERICA, a, d, e, g, i, j, l, m, p, t, e-1, j-1, k-1, m-1, v-1.

Radio Development & Research Corp., n, z, o-1.

Radio Receptor Co., Inc., Sub.-General Instrument

Corp., e, c-1, j-1, q-1.

Radio Specialty Mfg. Co., g.

Ramo-Wooldridge, Div.-Thompson Ramo Wool-

dridge Inc., q-1.

Rawson Electrical Instrument Co., s.

Reeves Instrument Corp., k-1.

Republic Mfg. Co., d-1.

Research Indsl. Lab. of Electronics, j, v-1.

Revere Corp. of America, Sub., Neptune Meter Co.,

l, n, r, s-1, z-1.

Robbins Aviation, Inc., h.

Rochester Mfg. Co., Inc., r, d-1, r-1, v-1.

Rosemount Engrg. Co., d-1, r-1.

Milron Roy Co., r, z, a-1, e-1.

Roylyn Inc., r.

St. John X-Ray Laboratory, g-1, h-1.

Schoevitz Engrg., t, k-1, s-1.

Schutte & Koerting Co., n-1.

Scientific-Atlanta, Inc., a.

H. H. Scott, Inc., x, y, m-1, x-1.

Scott Aviation Corp., z.

Serdex, Inc., p.

Servomechanisms, Inc., e, o, r, d-1, k-1, s-1, a-2, b-2.

Servo-Tek Products Co., j-1, k-1, o-1.

Shallcross Mfg. Co., x, y.

Sierra Electronic Corp., Div.-Philco Corp., q-1, v-1.

Sierra Engrg. Co., z, d-1.

Sigma Instruments, Inc., e.

Sillocks-Miller Co., h, p, g-1, r-1.

Simmonds Aerospaces, Inc., l, n, r, d-1.

Simpson Electric Co., d, x, r-1.

Skiatron Electronics & Television Corp., e.

Skiatmore-Wilhelm Mfg. Co., u-1.

Southwest Research Institute, a, e, h, k, l, n, a, p, r, u,

w, z, a-1, b-1, d-1, r-1, y-1, z-1, a-2, b-2.

Southwestern Industrial Electronics Co., x-1.

Specialties, Inc., e, k-1.

Specialty Electronics Development Corp., g-1, h-1,

q-1, a-2, b-2.

Spectra Electronics Corp., e-1, g-1, r-1.

Spectral Electronics Corp., e, j-1, k-1.

Sperry Microwave Electronics Co., Div.-Sperry Rand

Corp., m, g-1.

Sperry Piedmont Co., Div.-Sperry Rand Corp., e, j-1.

L. S. Starrett Co., The, t.

M. C. Stewart, a-2, b-2.

Herman H. Sticht Co., Inc., m.

Stromberg-Carlson Div.-General Dynamics Corp., e,

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Summers Gyroscope Co., j-1.

Sun Electric Corp., Aeronautical Div., d, m, n, a, v,

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B. K. Sweeney Mfg. Co., d, e-1, u-1.

Systrom Corp., e, m, n, a, t-1.

TRG, Inc., a, g-1, h-1, a-2, b-2.

*TABER INSTRUMENT CORP., d-1, r-1.

Tally Register Corp., e.

Topco Group, Thompson Ramo Wooldridge Inc., k-1.

W. A. Taylor & Co., a-1.

Technical Development Co., r.

Technique Associates Div., Duncan Electric Co., Inc.,

r-1.

Technology Instrument Corp., d-1.

Telechrome Mfg. Corp., e, l, r, p-1, q-1, t-1.

Temperature Engrg. Corp., r-1, v-1.

Texas Instruments Inc., u-1.

Thermo Electric Co., Inc., l, p, r, y, a-1, d-1, k-1, m-1,

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Theta Instrument Corp., a, x, y, j-1, k-1.

Thompson Ramo Wooldridge Inc., k-1.

Tracerlab Inc., j, r, h-1, z-1.

Traid Corp., b-1.

Transco Products, Inc., a.

Transcoil Div.-Daystrom Inc., e, k-1.

Transistor Electronics Corp., e.

Trans-Sonics, Inc., l, r, u, d-1, r-1, v-1.

Trepac Corp. of America, g, j-1.

Trimount Instrument Co., i.

Trio Laboratories, Inc., g, k-1.

Union Switch & Signal, Div.-Westinghouse Air Brake

Co., e.

Unit Process Assemblies, Inc., j, t.

United Electric Controls Co., r-1.

U. S. Science Corp., Div.-Topp Industries, Inc., e, b-1,

c-1, k-1.

Universal Dynamics Corp., p.

Universal Transistor Products Corp., g-1, h-1, j-1.

Vacuum Tube Products, Div.-Hughes Aircraft Co., v-1.

Voro Mfg. Co., Inc., g, m, v, x, k-1, a-1.

Vaeoco Vacuum Corp., v-1.

Vickers, Inc., Mich., r, a-1, y-1.

Victoreen Instrument Co., g-1, h-1.

Victory Engrg. Corp., l, r, r-1.

Video Instruments Co., Inc., x, y, p-1.

Virginia Electronics Co., Inc., y-1.

Wacline, Inc., m, a-1.

Walloce & Tiernan Inc., r, a-1, d-1, n-1, r-1.

Warren Components, Div.-El-Tronics, Inc., p, w.

Waugh Engrg. Co., l, m, n.

Weksler Instruments Corp., p, d-1, r-1.

W. M. Welch Scientific Div., W. M. Welch Mfg. Co.,

a-1, b-1.

Wells Industries Corp., h, p thru s, w, j-1, l-1, n-1,

r-1, t-1, z-1.

Westberg Mfg. Co., m, a-1, a-2, b-2.

Westinghouse Electric Corp., e, m, h-1.

Westronics Inc., e, k thru n, p, q, r, t, w, x, y, a-1,

g-1, h-1, j-1, k-1, n-1, a-1, p-1, r-1, s-1, u-1, v-1,

z-1.

Wind Turbine Co., a.

Wollensak Optical Co., b-1.

Zep Aero, z.

INDUCTANCE SPECIALTIES, MEASUREMENT

Coil Co. of America

Electro Instruments, Inc.

Electro Scientific Industries

Electronic Applications, Inc.

Freed Transformer Co., Inc.

General Instrument Corp., Defense & Engrg. Products

Group

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Industrial Instruments Inc.

*MARTIN CO., THE, DENVER DIV.

Optomechanisms Inc.

*RADIO CORP. OF AMERICA

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Southwestern Industrial Electronics Co.

Sunshine Scientific Instrument

INDUCTANCES, VARIABLE

ACDC Electronics, Inc.

Barker & Williamson Inc.

CGS Labs., Inc.

Coil Co. of America

Corning Glass Works

Ferrotron Electronics Co., Inc.

Forbes & Wagner, Inc.

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Gates Radio Co.

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Johnson Electronics Inc.

Lear, Inc.

James Millen Mfg. Co. Inc.

J. W. Miller Co.

Motorola, Inc.

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*RADIO CORP. OF AMERICA

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Southwestern Industrial Electronics Co.

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Superex Electronics Corp.

Taffel Electronics, Inc.

Tele Coil Co.

Valor Instruments, Inc.

Vanguard Electronics Co.

Voro Mfg. Co., Inc.

INDUCTION HEATING EQUIPMENT

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Allis-Chalmers

Cincinnati Milling Machine Co., The

Dieco, Div.-Djordjevic Engrg. Co.

Eisler Engrg. Co., Inc.

Erdco Engrg. Corp.

General Electric Co., Apparatus Sales Div.

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High Vacuum Equipment Corp., Sub.-Robinson Tech.

Products, Inc.

Hobart Brothers Co.

Induction Heating Corp.

Industron Corp.

Lepel High Frequency Labs. Inc.

Lindberg Engrg. Co.

Morion Instrument Div.-Minneapolis-Honeywell Regu-

lator Co.

*MARTIN CO., THE, DENVER DIV.

Motor Generator Corp.

Radio Frequency Co., Inc.

Reeve Electronics, Inc.

Roylyn Inc.

Scientific Electric Inc.

Sherman Indsl. Electronics Co., Div.-Electronic De-

velopment Inc.

Tocco Div., The Ohio Crankshaft Co.

Westinghouse Electric Corp.

INDUCTORS

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ADC Inc.

Aladdin Electronics, Div.-Aladdin Industries Inc.

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Barker & Williamson Inc.

Barwood Electronics Inc.

Burnell & Co., Inc.

Caledonia Electronics & Transformer Corp.

Cambridge Thermionic Corp.

Communication Accessories Co.

Computer Engrg. Associates, Inc.

Corning Glass Works

De Havilland Aircraft of Canada, Ltd., Special Prod-

ucts Div.

Deluxe Coils Inc.

Electronic Transformer Co., Inc.

Ferrotron Electronics Co., Inc.

Filtron Co., Inc.

Fisher Engrg., Inc.

Forbes & Wagner, Inc.

Freed Transformer Co., Inc.

Fugle-Miller Labs. Inc.

Gates Radio Co.

General Radio Co.

Genstron, Inc.

Donald C. Harder Co.

Induction Heating Corp.

JFD Electronics Corp.

Johnson Electronics Inc.

Lear, Inc.

Lindberg Engrg. Co.

Magnetic Circuit Elements Co., Inc.

*MARTIN CO., THE, DENVER DIV.

Merit Coil & Transformer Corp.

James Millen Mfg. Co. Inc.

J. W. Miller Co.

National Coil Co.

National Co., Inc.

Networks Electronic Corp.

New York Transformer Co. Inc.

Nytronics, Inc., Essex Electronics Div.

Polo Alto Engrg. Co.

Polyphase Instrument Co.

Pulse Engrg. Inc.

Redman Electronics Corp.

Servo Consultants Ltd.

Southwestern Industrial Electronics Co.

Sprague Electric Co.

Standard Electronics Div.-Reeves Instrument Corp.

Statham Instruments, Inc.

Tele Coil Co.

Topper Mfg. Co., Inc.

Torwico Electronics, Inc.

Transformer Design, Inc. of Milwaukee

Transformers, Inc.

Tresco, Inc.

U. E. Electronics Corp.

Valor Instruments, Inc.

Voro Mfg. Co., Inc.

INDUCTORS, COILS

ACDC Electronics, Inc.

ADC Inc.

Aladdin Electronics, Div.-Aladdin Industries Inc.

Arnold Magnetics Corp.

Barker & Williamson Inc.

Burnell & Co., Inc.

CG Electronics Corp.

Caledonia Electronics & Transformer Corp.

Communications Accessories Co.

Cycle Transformer Corp.

De Havilland Aircraft of Canada, Ltd., Special Prod-

ucts Div.

Deluxe Coils Inc.

De Witt Development Co.

Electronic Transformer Co., Inc.

Ferrotron Electronics Co., Inc.

Filtron Co., Inc.

Fisher Engrg., Inc.

Forbes & Wagner, Inc.

Fugle-Miller Labs. Inc.

Gates Radio Co.

Genstron, Inc.

Donald C. Harder Co.

Induction Heating Corp.

JFD Electronics Corp.

Johnson Electronics Inc.

Kellogg Switchboard & Supply Co., Communications

Div.-IT&T Corp.

Lear, Inc.

Lindberg Engrg. Co.

Magnetic, Inc.

*MARTIN CO., THE, DENVER DIV.

Merit Coil & Transformer Corp.

Mid-West Coil & Transformer Co.

James Millen Mfg. Co. Inc.

J. W. Miller Co.

Motorola, Inc.

National Coil Co.

National Co., Inc.

Networks Electronic Corp.

New York Transformer Co. Inc.

Nytronics, Inc., Essex Electronics Div.

Polo Alto Engrg. Co.

Polyphase Instrument Co.
 Redman Electronics Corp.
 Southwestern Industrial Electronics Co.
 Standard Electronics Div. Reeves Instrument Corp.
 Stanwick Winding Co., Inc.
 Stewart-Warner Electronics Div.
 Tele Coal Co.
 Thermionic Products Co.
 Topper Mfg. Co., Inc.
 Torwico Electronics, Inc.
 Transformer Design, Inc. of Milwaukee
 Transformers, Inc.
 U. E. Electronics Corp.
 Universal Toroid Coil Winding, Inc.
 Valor Instruments, Inc.
 Vanguard Electronics Co.
 Vari-L Co., Inc.
 Varo Mfg. Co., Inc.
 Virginia Electronics Co., Inc.

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a. Cooling Systems
 b. Detection Systems
 c. Detector Cells
 d. Image Converters
 e. Optics
 f. Systems
 g. Systems, Guidance

ACF Electronics Div., ACF Industries Inc., b, f, g.
 ACF Industries Inc., b, c, f, g.
 Advance Industries Inc., f, g.
 Aerolux Labs Div., Aeroflex Corp., g.
 *AEROJET-GENERAL CORP., a thru g.
 Air Products Inc. a
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, b.
 Alite Div., U. S. Stoneware Co., b, c.
 American Instrument Co., Inc. c.
 American Machine & Foundry Co., Government Products, N. Y., b, e, f, g.
 American Optical Co., Instrument Div., e, f, g.
 American Potash & Chemical Corp., National Northern Div., f.
 Armament Div.-Universal Match Corp., f.
 Aro Equipment Corp., The. a.
 Aro-Fireweel Co. Inc., Sub.-The Aro Equip. Corp., a.
 Associated Engineers, Inc., e.
 Avco Corp., Crosley Div., f.
 Baird-Atomic, Inc., b thru g.
 Ball Brothers Research Corp., f.
 Bausch & Lomb Optical Co., b, e, f, g.
 Beech Aircraft Corp., f.
 Bendix Aviation Corp., a, b, c, g.
 Bendix Aviation Corp., Pioneer-Central Div., a.
 Bendix-Pacific Div., Bendix Aviation Corp., b, f, g.
 Bermite Powder Co., f.
 Bjorksten Research Labs. for Industry, Inc., c, e.
 Blonder-Tongue Labs. Inc., Special Products Div., b, c, d, f, g.
 Budd Lewyt Electronics, Inc., a, b, f, g.
 Bulova Research & Development Labs., Inc., b, e, f, g.
 Cameralex Div., The, Federal Mfg. & Engr. Corp., e.
 Chance Vought Aircraft, Inc., f, g.
 Connecticut Instrument Corp., e.
 *CONSOLIDATED ELECTRODYNAMICS CORP., e.
 Continental Electric Co., c.
 Cornelius Co., The, Aero Div., a.
 Corning Glass Works, e.
 Cryogenerators, Inc., a, f.
 Dage Television Div., Thompson Ramo Wooldridge, Inc., d.
 Joe Davidson & Associates, f, g.
 Davidson Optronics, Inc., e, f.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., b, e, f, g.
 Del Optics Co., Ltd., e.
 Designers for Industry, Inc., b, f, g.
 Douglas Aircraft Co., Inc., b, f.
 Dow Corning Corp., e.
 Allen B. Du Mont Labs., Inc., b, d.
 Eastman Kodak Co., b thru g.
 Edmund Scientific Co., d, e, f.
 Emertson, Sub.-Emerson Radio & Phonograph Corp., b, d thru g.
 *ENGIS EQUIPMENT CO., e.
 *EQUIPMENT DIV., RAYTHEON CO., b, c, f, g.
 J. W. Fecker Div., American Optical Co., e.
 Fenwal Inc., b, f.
 GPI Div.-General Precision, Inc., f, g.
 Gabriel Co., Rocket-Power-Talco, f.
 General Bronze Electronics Corp., b, c, e.
 General Electric Co., Instrument Dept., c, e.
 General Electric Co., Light Military Electronics Dept., b, f, g.
 General Electric Co., Missile & Space Vehicle Dept Pa.,
 General Electrodynamics Corp., d.
 General Instrument Corp., Defense & Engr. Products Group, g.
 Gordon Enterprises, b, e, f.

Guided Missile Div., The Firestone Tire & Rubber Co., b, c, e, f.
 HRB-Singer, Inc., Sub.-Singer Mfg. Co., f, g.
 Hallicrafters Co., The, f, g.
 Hamilton Standard, Div.-United Aircraft Corp., a.
 Hughes Semiconductor Div., Hughes Aircraft Co., e.
 Image Instruments, Inc., f.
 Infrared Industries, Inc., a, b, c, e, f, g.
 Interstate Electronics Corp., g.
 Jeffrey Mfg. Co., The, a.
 Joseph Kaye & Co., a.
 *KEARFOTT DIV., GENERAL PRECISION, INC., f, g.
 Hugo P. Keller, Jr., e.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc., a.
 Kollmorgen Optical Corp., e.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., b, e, f, g.
 Kopp Glass, Inc., e.
 Lear, Inc., b, c, e, f, g.
 letronics, Inc., e.
 Liberty Mirror Div., Libbey-Owens-Ford Glass Co., e.
 Librascope Div.-General Precision, Inc., b.
 Linde Co., Div.-Union Carbide Corp., a.
 Marquardt Corp., The, f.
 *MARTIN CO., THE, DENVER DIV.
 Mine Safety Appliances Co., b.
 Minneapolis-Honeywell Regulator Co.-Aeronautical Div., b, f, g.
 Motorola, Inc., b, d, g, g.
 Networks Electronic Corp., b, c, f.
 Northrop Corp., a, b, d thru g.
 Optical Coating Lab., Inc., e.
 Optomechanisms Inc., b.
 Ordnance Research & Development Co., Div.-Bermite Powder Co., f.
 Pacific Optical Corp., Div.-Chicago Aerial Industries b, e, f.
 Patterson Moos Research, Div.-Leesona Corp., b, c, e, f, g.
 Perkin Elmer Corp., b, e, f.
 Pesco Products Div.-Borg-Warner Corp., a, b.
 Philco Corp.-Govt. & Industrial Group, b thru g.
 Photobell Co., Inc., b.
 Polaroid Corp., e.
 Precision Lapping Co. Inc., e, f.
 Production Research Corp., Sub.-Radio Condenser Co., b, f, g.
 Pyroferic Co. Inc., d.
 Pyrotec Inc., b, e.
 Radio Condenser Co., b, f, g.
 *RADIO CORP OF AMERICA, b thru g.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., g.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., b, f, g.
 Republic Aviation Corp., Missile Systems Div., b, e, f, g.
 Santa Barbara Research Center, a thru e, g.
 Semi-Elements, Inc., e.
 Singer Military Products Div.-The Singer Mfg. Co., b, d thru g.
 Southwest Research Institute
 Spectra Electronics Corp., b, f, g.
 Spectracool, Inc., e.
 Stratots, Div.-Fairchild Engine & Airplane Corp., a.
 Sun Electric Corp., Aeronautical Div., b.
 TRG, Inc., b, e, f, g.
 Texas Instruments Inc., b thru g.
 Thompson Ramo Wooldridge Inc., b, f, g.
 Tinsley Labs., Inc., e.
 Topper Mfg. Co., Inc., f, g.
 U. S. Industries, Inc., b, e, f, g.
 Valpey Crystal Corp., e.
 Westinghouse Electric Corp., a, b, c, g.
 Wollensak Optical Co., e, f.
 Zenith Optical Laboratory, e, f.

INJECTION SYSTEMS, FUEL

B. H. Aircraft Co., Inc.
 Bendix Aviation Corp.
 *BENDIX AVIATION CORP., HAMILTON DIV.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Bowser, Inc.
 Caterpillar Tractor Co., Defense Products Dept.
 Delavan Mfg. Co.
 *DEL MAR ENGRG. LABS.
 Ex-Cell-O Corp.
 Lear, Inc.
 Parker-Hannifin Corp.
 Simmonds Aeroaccessories, Inc.
 Southwest Research Institute

INJECTION SYSTEMS, WATER

Agricultural Aviation Engineering Co. Inc.
 Bendix Aviation Corp.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Bendix Utica Div., Bendix Aviation Corp.
 Bowser Inc.

Delavan Mfg. Co.
 Hydra-Power Corp.
 Lear, Inc.
 Tapco Group
 Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.

INSPECTION EQUIPMENT

- a. Fluorescent
- b. Lighting
- c. Magnetic
- d. Optical
- e. X-Ray

Acme Industrial Co., d.
 Advance Industrial X-Ray Labs., Inc., a, c, e.
 American Cystoscope Makers Inc., d.
 American Electronics, Inc., Nuclear Div.
 American Optical Co., d.
 American Optical Co., Instrument Div., d.
 American Research & Mfg. Corp., d.
 Automation Industries, Inc., e.
 Baird-Atomic, Inc., d.
 Bar-Ray Products, Inc., e.
 Bausch & Lomb Optical Co., d.
 Bendix Aviation Corp., d, e.
 E. W. Bliss Co., c, d, e.
 Blowers Inc., b, d.
 Branson Instruments, Inc.,
 Cleveland Instrument Co.,
 Curtiss-Wright Corp., Metals Processing Div., a, c, d, e.
 Curtiss-Wright Corp., Princeton Div., a, e.
 Joe Davidson & Associates, e.
 Davidson Optronics, Inc., d.
 Dayton Instrument, Weston Instruments Div., d, e.
 Delta Corp., e.
 J. W. Dice Co., c.
 Eastman Kodak Co., d.
 Eder Instrument Co., Inc., b, d.
 Edgerton, Germeshausen & Grier, Inc., b.
 Engelhard Industries, Inc., National Electric Instrument Div., d.
 Engrg. Developments, Inc., a, d.
 *ENGIS EQUIPMENT CO., d.
 J. W. Fecker Div., American Optical Co., d.
 General Electric Co., X-Ray Dept., e.
 Gordon Enterprises, d.
 Hammett-Mercury Rex Div., d, e.
 High Voltage Engrg. Corp., e.
 Holophane Co., Inc., b.
 Image Instruments, Inc., b, d, e.
 Instrument Div., The Budd Co., c, e.
 Kollmorgen Optical Corp., d.
 Lear, Inc., d, e.
 Lenox Instrument Co., d.
 Magnalux Corp., Sub.-General Mills, Inc., a, c.
 Marquardt Corp., The, c, d.
 *MARTIN CO., THE, DENVER DIV., e.
 NUMEC-Nuclear Materials & Equipment Corp., Nuclear Development Corp. of America, e.
 Optical Gaging Products, Inc., d.
 Optomechanisms Inc., d.
 Opto-Metric Tools, Inc., d.
 Parker-Hartford Corp., The, d.
 Pennsylvania Tool & Mfg. Co., The
 Philips Electronic Instruments, e.
 Photobell Co., Inc., b.
 Pioneer Industries Div., Almar-York Co. Inc., e.
 *RADIO CORP. OF AMERICA, c, e.
 Recony Div., Vinco Corp.
 Restron Labs., Inc., e.
 Rimak, Inc., a thru d.
 Rototest Labs., Inc., e.
 St. John X-Ray Laboratory, e.
 Shannon Luminous Mat., Affiliate-Curtiss Wright, Princeton Div., a thru d.
 Sperry Products Co., Div.-Howe Sound Co., c, e.
 State Testing Laboratory Inc., e.
 Sterling Glass Corp., d.
 Strat-O-Seal Mfg. Co., a, d.
 Sunshine Scientific Instrument, c.
 Tinsley Labs., Inc., d.
 Tracerlab Inc., e.
 Turco Products, Inc., a.
 Ultra-Violet Products, Inc., a.
 United States Testing Co., Inc.,
 Van Wagner Co., b, c.
 Vapor Blast Mfg. Co.
 Vinco Corp., d.
 Westinghouse Electric Corp., e.
 Wollensak Optical Co., d.

INSTRUMENTS, ELECTRICAL MEASURING

- a. Ammeters
- b. Audiometers
- c. Bridges
- d. Calibrators
- e. Circuit Linearity
- f. Comparators
- g. Comparators Voltage
- h. Galvanometers

i. Magnetometers
j. Megohmmeters
k. Microammeters
l. Microfaradimeters
m. Micromicroammeters
n. Milliammeters
o. Millivaltmeters
p. Ohmmeters
q. Panel
r. Ratiometers
s. Recorders
t. Standards
u. Tracers, Signal
v. Ultrasonic
w. Voltmeters
x. Volt-Ohm-Millimeters
y. Wotmeters

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS, o.**
Adoge, Inc., w.
Aero Instrument Co., q.
Aeronca Mfg. Corp.-Aerospace Div., f, g, s.
Aeroscience, Inc., d.
Air Logistics Corp., r.
Airpox Electronics Inc., Cambridge Div., o, k, n, o, w.
Airpox Electronics Inc. Seminole Div., a, k, n, o, w.
Allegheny Instrument Co., Inc., c, d, r, s.
Allen Electric & Equipment Co., a, q, w, x, y.
Amco Engrg. Co., q.
American Machine & Foundry Co., Government Products Group, w.
American Machine & Foundry Co., Government Products, N. Y., s, w.
American Research & Mfg. Corp., f.
R. B. Annis Co., i.
Antlab, Inc., s.
Arkay Engrg., Inc., g, t.
Assembly Products, Inc., a, k, n, o, q, w, y.
Associated Engineers, Inc., o, c, n, o, w, y.
Associated Research, Inc., j, k, n, p, q.
Atlantic Research Corp.
Automatic Timing & Controls, Inc., q.
Avien, Inc., g.
Avo Ltd., w.
B & H Instrument Co., Inc., c, d, h, n, o, w.
B & K Instruments, Inc., f, j, k, m, s, w.
Baird-Atomic, Inc.
Barnes Development Co., c, s.
E. Bauches S. A., Freeport Engrg. Co., t.
Beckman Instruments, Inc., Berkeley Div., s, w.
Belleville-Hexam Corp., k, m thru p, w, x.
Belmor Wheel & Machine Co., Inc., q.
Bendix Aviation Corp., g, i, s.
Bendix Aviation Corp., Cincinnati Div., a, k, m, w, y.
Benson-Lehner Corp., s.
James G. Biddle Co., h, j, k, p.
Boonton Electronics Corp., c, k, m, n, o, w.
Bronson Instruments, Inc., v.
***BRISTOL CO., THE, a, c, n, o, s, w.**
Bruno-New York Industries Corp., x, y.
Brunswick Instruments, r.
Brush Instruments, Div.-Clevite Corp., s, u.
Burr-Brown Research Corp., s, v, w.
Bytrex Corp., t.
CBS Laboratories, Div.-Columbia Broadcasting System, b, s, v.
Colvert Electronics Inc., a thru e, g thru u, w, x, y.
Comerollex Div., The, Federal Mfg. & Engrg. Corp., s.
Century Electronics & Instruments, Inc., s.
Chemalloy Electronics Corp., y.
Circo Equipment Co., v.
Circo Ultrasonic Corp., v.
Clegg Labs., Div.-Clegg, Inc., c, f.
G. L. Collins Corp., g, r.
Consolidated Airborne Systems, Inc., f.
***CONSOLIDATED ELECTRODYNAMICS CORP., h, s, w.**
Covel Mfg. Co., f.
Crescent Engrg. & Research Co., e.
Crosby-Teletronics Corp., k.
Cubic Corp., j, p, r, u, w, y.
Curtiss-Wright Corp., Princeton Div., o, c, e, f, n, o, p, s, v, x.
Datason Inc., f, g.
Dotex Corp., f.
Daven Co., The, c, w, x.
Davenport Mfg. Co., d, g, j, t.
Joe Davidson & Associates, c, j, o, p, w.
Doystrom Inc., Weston Instruments Div., o, d, g, h, j, k, n thru q, s, t, w, x, y.
Decker Corp., The, f.
Dejaur-Amsco Corp., Electronic Sales Div., a, k, n thru q, w, x.
Djeco, Div.-Djordjevic Engrg. Co., g.
Dmeter Mfg. Co., c, f.
Allen B. Du Mont Labs., Inc., s.
Dynamics Instrumentation Co., o, w.
Dyatronics, Inc., d, f, g.
Dyatronics Co., c, f, t.
Ecor, Inc., m.

Electric Autolite Co., The, s.
Electric Design & Mfg. Co., a, k, n, o, q, w.
Electro Impulse Lab., Inc., y.
Electro Instruments, Inc., o, c, d, f, g, j thru p, r, s, w, x.
Electro Scientific Industries, c, d, g, t.
Electronic Applications, Inc., c, p.
Elin Div., International Electronic Research Corp., d.
Eljay Corp., q.
Emertron, Sub.-Emerson Radio & Photograph Corp., s.
Empire Products Sales Corp., d, t.
***ENGIS EQUIPMENT CO., h.**
Epic, Inc., a, c, h, n, o, q, s, w, x, y.
Epsco Inc., w.
***EQUIPMENT DIV., RATYHEON CO., v.**
Erdco Engrg. Corp., p.
Easterline-Angus Co., The, o, k, n, o, s, w, y.
FXR, Inc., r.
Federal Products Corp., f.
Fischer & Porter Co., q.
Fisher Scientific Co., Maryland, c, h, s.
Flight Support, Inc., q.
Flow Corp., w.
John Fluke Mfg. Co., Inc., d, o, w, y.
Franklin Electronics Inc., w.
Freed Transformer Co., Inc., c, f, j.
Gorwin, Inc., a.
General Controls Co., s.
General Electric Co., Apparatus Sales Div., a, h, k, n, o, q, s, w, y.
General Electric Co., Instrument Dept., a, c, h, n thru s, w, x, y.
General Electric Co., Missile & Space Vehicle Dept., Pa.
General Instrument Corp., Delense* & Engrg. Products Group, c, v.
General Radio Co., c, d, f, j, k, m, o, s, t, w.
Gilmore Industries, Inc., s.
Gordon Enterprises, s.
Gray Instrument Co., c, f, g, p, t.
Greibach Instruments Corp., o, h, j, k, n thru q, w, x.
Gulton Industries, Inc., d, s, v.
Hollamare Electronics Co., Div.-Sieglar Corp., d, o.
Hammett-Mercury-Rex Div., a, k thru o, q, w, x, y.
Hathaway Instruments, Inc., a, h.
Helipot Div.-Beckman Instruments, Inc., a, k, n, w.
Hewlett-Packard Co., a, c, d, j, k, m thru t, w, x, y.
Hickok Electrical Instrument Co., The, a, b, d, e, h, j thru q, w, x.
A. F. Holden Co., The, q.
Honeywell, Marion Instruments Div., a, k, n thru q.
Hoyt Electrical Instrument Works, Inc., Burton Rogers Co., o, k, n, o, q, w.
ITI Electronics, Inc., x.
Illinois Testing Laboratories, Inc., h.
Industrial Control Co., m, o.
Industrial Devices, Inc., w.
Industrial Instruments Inc., c, f, p.
Industrial Test Equipment Co., c, f, y.
Instrument Labs., x.
International Instruments Inc., o, k, n, o, q, w, x.
Interstate Electronics Corp., r.
Kahn & Co., Inc., c, d.
Kay Electric Co., d, s, w.
***KEARFOTT DIV., GENERAL PRECISION, INC., c, e, f.**
Keithley Instruments, Inc., a, c, j, k, m thru p, w.
Wayne Kerr Corp., b, c, d, f, j, o, w, y.
Kin Tel Div.-Cohu Electronics, Inc., a, d, g, h, k, m, n, o, w.
Knopp Inc., t.
Lavoie Labs., Inc., f, t.
Lear, Inc., f, s.
Leeds & Northrup Co., c, h, k, m, p, s, t.
***WALLACE O. LEONARD, INC., r.**
***LEWIS ENGRG. CO., THE, k, r.**
Liquidometer Corp., The, j.
MB Electronics
Magnaflex Corp., Sub.-General Mills, Inc., i, v.
Maico Electronics, Inc., b, s.
Morconi Instruments, c, l, o, w, x, y.
Morian Instrument Div.-Minneapolis-Honeywell Regulator Co., a, k, n, o, q, w.
***MARTIN CO., THE, DENVER DIV., d thru g, q, r, t.**
Mortindale Electric Co., o, j, w, x.
Mosso Div.-Cohu Electronics, Inc., h, s, v.
Mc Millan Companies, The, f.
Meters Inc., a, h, j, k, n thru q, w, x.
Metronix, Inc., Sub.-Assembly Products, Inc., d, n, o, q, w.
Micrometrical Mfg. Co.,
Midwestern Instruments, Inc., c, h, s.
James Millig Mfg. Co. Inc., c, d, f.
Minneapolis-Honeywell Regulator Co., Industrial Systems Div., m, s.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div., d.
Molded Insulation Co., o.
Motorola, Inc., d, w.
Muirhead Instruments Inc., c, t.
National Co., Inc., y.

National Electronics, o, h, j, k, n thru q, w, x, y.
New England Scientific Instruments Co., o, c, h, j, k, n, o, p, s, w, y.
New London Instrument Co. Inc., d, r.
Nilsson Electrical Lab., Inc., a, b, d, h, j, k, m thru t, w, x, y.
Non-Linear Systems, Inc., f, g, o, r, w.
Ernest Narman Laboratories, d.
Northrop Corp.
Paul Nurches Co., o.
Orbitron Co., Inc., r.
Pace Electrical Instruments Co., Inc., o, h, k, n thru q, w, x.
Packard Bell Computer Corp., g, w.
Paco Electronics Co., Inc., a, c, k, n thru q, u, w, x.
Panoramic Radio Products, Inc., v.
Performance Measurements Co., r, s.
Phooston Instrument & Electronic Co., a, k, n, o, w.
Photocan Research Products, d.
Photon Instrument Co., h, s.
Pimex, Inc., c, h, x.
Pioneer Industries Div., Almar-York Co. Inc., v.
Polarad Electronics Corp., r.
Potter Instrument Co., Inc., s.
Probescope Co. Inc., d, v.
Q. V. S. Inc., a, h, k, n thru q, w, x.
Quan-Tech Labs, Inc., a, k, p.
Raddalab Inc., a, c, d, i thru p.
***RADIO CORP. OF AMERICA, w, x.**
Radio Electrical Instrument Co., k, n, o, t, w, y.
Reed Instrument Co., y.
Reed Research Inc., y.
Research Indst. Lab. of Electronics, m.
Rinco, Inc., c.
Rochester Mfg. Co. Inc., o.
Sangamo Electric Co., a, q, s, w, y.
Scientific & Process Instruments Div.-Beckman Instruments, Inc., k.
H. M. Scott Co., The, q.
Sensitive Research Instrument Corp., o, d, f, g, h, k, n, o, q, r, t, w, y.
Servo Consultants Ltd., t.
Servo-Tek Products Co., d, p, w, x.
Shallcross Mfg. Co., c, h, j, k, n, o, w, x.
Sierra Electronic Corp., Div.-Philo Corp., y.
Simpson Electric Co., o, d, h, j, k, n thru q, t, w, x, y.
Slaughter Co., Inc., e, f, g, j.
Southwest Research Institute, v.
Southwestern Industrial Electronics Co., b, c, h, j, o, p, w.
Special Products Dept., Melpar, Inc., e, r.
Specialty Electronics Development Corp., w.
Herman H. Sticht Co., Inc., c, j, p, x.
H. W. Sullivan Ltd., c.
Sun Electric Corp., Aeronautical Div., o, b, k, n, o, q, w, y.
Sunshine Scientific Instrument, a, d, f, j, k, m thru q, t, w, x, y.
Superior Electric Co., The, v.
B. K. Sweeney Mfg. Co., j, l, w.
Systron Corp., j, k, n, o, p, r, w, x.
TRG, Inc., t.
Talfet Electronics, Inc., c, d, e.
Technique Associates Div., Duncan Electric Co., Inc., o, w.
Technology Instrument Corp., c, d, h, n, o, p, s, t, w, x.
Tektronix, Inc., t, m.
Teletrome Mfg. Corp., r.
Telectro Industries Corp., a, f, g, p, s.
Texos Instruments Inc., n, p, s.
Thermo Electric Co., Inc., o, q, s.
Theta Instrument Corp., c, r.
Translormers, Inc., c, g, r.
Trepac Corp. of America, f, s, w.
Trio Laboratories, Inc., f, g, o, q, w.
United States Testing Co., Inc.
Universal Mfg. Co., Inc., f.
Varo Mfg. Co., Inc., t.
Victoreen Instrument Co., m.
Virginia Electronics Co., Inc., c.
Wacline, Inc., a, k, n, o, q, w, x, y.
Waters Mfg. Inc., c.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co., a, h, i, k, n thru q, w, y.
Westinghouse Electric Corp., o, k, n, o, q, s, t, w, x, y.
Winder Aircraft Corp. of Florida, c.
Yellow Springs Instrument Co., The, s.

INSTRUMENTS, GRAPHIC RECORDING

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Allegheny Instrument Co., Inc.
American Electronics Inc., Taller-Cooper Div. & Dato Systems Div.
R. B. Annis Co.
Antlab Inc.
Automatic Timing & Controls, Inc.
B & K Instruments, Inc.
Bendix Aviation Corp.
Benson-Lehner Corp.
***BRISTOL CO., THE**

Brush Instruments Div. Clevite Corp
 CBS Laboratories Div. Columbia Broadcasting System
 Calvert Electronics Inc.
 Century Electronics & Instruments Inc.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Curtiss Wright Corp. Princeton Div.
 Daystrom Inc. Weston Instruments Div.
 Electric Autolite Co. The.
 Electro Instruments Inc.
 Epic Inc.
 Esterline-Angus Co. The.
 Fenske, Fedrick & Miller Inc.
 Fischer & Porter Co.
 General Controls Co.
 General Electric Co., Missile & Space Vehicle Dept.,
 Pa.
 General Radio Co.
 Hathaway Instruments Inc.
 Impact-O-Graph Corp., The.
 Kay Electric Co.
 Lear, Inc.
 Leeds & Northrup Co.
 Librascope Div., General Precision, Inc.
 Loral Electronics Corp.
 Mason-Neilan
 Micrometrical Mfg. Co.
 Midwestern Instruments Inc.
 Minneapolis-Honeywell, Heiland Div.
 Minneapolis-Honeywell Regulator Co., Industrial
 Div.
 Minneapolis-Honeywell Regulator Co., Missile
 Equipment Div.
 Motorola, Inc.
 National Electronics
 New England Scientific Instruments Co.
 Optomechanisms Inc.
 Panoramic Radio Products, Inc.
 Photon Instrument Co.
 Research, Inc.
 Sangamo Electric Co.
 Scientific Atlanta, Inc.
 Servo Consultants Ltd.
 Syston Corp.
 Tally Register Corp.
 Technology Instrument Corp.
 Texas Instruments Inc.
 Westinghouse Electric Corp.
 Yellow Springs Instrument Co., The

INSULATING COMPOUNDS

Acme Wire Co.
 Allied Plastics Supply Corp.
 American Latex Products Corp.
 Biwax Corp.
 Delta Chemical Works, Inc.
 Dow Corning Corp.
 Dyno-Therm Chemical Corp.
 Food Machinery & Chemical Corp. Epoxy Dept.
 Furane Plastics, Inc.
 B. F. Goodrich Chemical Co.
 Goodyear Tire & Rubber Co., The, Aviation Pro-
 ducts Div.
 Hastings Plastics, Inc.
 Insulation Mfrs. Corp.
 Isocyanate Products, Inc.
 Johns-Manville Sales Corp.
***MINNESOTA MINING & MFG. CO.**
***MINNESOTA MINING & MFG. CO.-CHEMICAL
 DIV.**
 Mitchell Rand Mfg. Corp.
 Monsanto Chemical Co.
 National Engrg. Products, Inc.
 Norruch Plastics Corp.
 Permacel
 Raybestos-Manhattan, Inc.
 Saueressen Cements Co.
 Schenectady Varnish Co., Inc.
 Silicone Products Dept., General Precision Co.,
 Dept. C.
 Standard-Toch Chemicals, Inc.
 Stevenson Bro. & Co.
 Thiokol Chemical Corp., Hunter-Bristol Div.
 Topper Mfg. Co., Inc.
 United States Rubber Co.
 Wesrep Corp.
 Zophor Mills Inc.

INSULATION MATERIALS

- a. Aluminum Oxide
- b. Asbestos
- c. Ceramic
- d. Fabric
- e. Fibre
- f. Glass
- g. Glass Fibre
- h. Nylon
- i. Paper
- j. Silicane Compounds

ACF Industries Inc.
 Acme Wire Co., d, e, f, h, i.
 Actioncraft Products
 Aero Leather Products Co., d, g.

Aircraft Porous Media, Inc., g.
 Alite Div., U. S. Stoneware Co., a, c.
 Allied Plastics Supply Corp., b thru j.
 Aluminum Co. of America, a.
 American Feldmuehle Corp., a.
 American Felt Co., d, e, h.
 American Latex Products Corp.
 American Lova Corp., a, c.
 Armstrong Cork Co., g.
 Arrowhead Products, Div.-Federal-Mogul-Bower
 Bearings, Inc., b thru j.
 Auburn Mfg. Co., The, b, d, e, g thru j.
 Semon Boche & Co., f.
 Bar-Ray Products, Inc., g.
 L. J. Barwood Mfg. Co. Inc., b, d, e, g thru j.
 Bemis Bro. Bag Co., i.
***BENDIX PRODUCTS DIV., BENDIX AVIATION
 CORP., c.**
 Bentley, Harris Mfg. Co., g.
 Birma Mfg. Co. Inc., c thru f, h, i.
 Birnbach Radio Co., Inc., c, g.
 Biwax Corp.
 W. H. Brady Co., d, g.
 Brunswick Balke Collender Co., The, Defense Pro-
 ducts Div., a, b, c, f, g, i.
 Budd Co., The, d, e, i, j.
 Carborundum Co., The, a, c, d, e, i.
 Carborundum Co., Laroche Plant, Refractories Div.,
 a, c.
 Carborundum Co., Refractories Div., a, c, e.
 Carmer Industries Inc., h.
 Centralab, Div.-Globe-Union, Inc., c.
 Chemplast, Inc. h.
 Comco Plastics Inc., d thru j.
 Connecticut Hard Rubber Co., The, j.
 Continental Rubber Works, j.
 Coors Porcelain Co., c.
 Corning Glass Works, a, c, f.
 Cryogenic Engrg. Co., g.
 R. E. Darling Co., Inc., j.
 Dell Optics Co., Ltd., f.
 Diamonite Products Mfg. Co., a.
 Dow Corning Corp., j.
 Du-Co Ceramics Co., c.
 E. I. Du Pont de Nemours & Co. Inc., c, d, g.
 Dura Plastics of N. Y., Inc., h.
 Duramic Products, Inc., c.
 Eagle-Picher Co., The, b, e, g.
 Electrical Insulation Co., Inc., b, d, e, g thru j.
 Electro Technical Products Div., Sun Chemical Corp.,
 d, f, i.
 Electronic Mechanics, Inc., c, f.
 Eljoy Corp., g, h.
 Emerson & Cuming, Inc., a, c, j.
 Emerson Plastics Corp., e, g, h, j.
 Enfob Inc., g.
 Erie Resistor Corp., c.
 Folge Engrg. Div. Pen Mac Nye Co., h.
 Fibercraft, Inc., g.
 Fisher & Crome, d, e, g thru j.
 Flightex Fabrics Inc., f.
 Flock Process Co. Inc., e.
 Franklin Fibre-Lamitex Corp., e, g thru j.
 Frenchtown Porcelain Co., a, c.
 Garlock Packing Co., The-Electronic Products, h.
 General Ceramics Div., Indiana General Corp., c.
 General Electric Co., Missile & Space Vehicle Dept.,
 Pa., c, h.
 General Plastics Corp., d, h.
 Gladding, McBean & Co., c.
 Gulron Industries, Inc., a, c.
 Gustin-Bacon Mfg. Co., g.
 Harco Labs. Inc., b.
 Hastings Plastics, Inc., a thru e, g.
 Hays Mfg. Co., g.
 Hughes Tool Co., Aircraft Div., c.
 Illumitronic Engrg. Co., h.
 Insulation Mfrs. Corp., b, d thru j.
 Isolanite Mfg. Corp., c, j.
 Johns-Manville Sales Corp., b, d thru g.
 Kaiser Aluminum & Chemical Sales, Inc., a.
 M. Kirchberger & Co., Inc., a, c.
 Lamtex Industries Inc., g, h.
 Iapp Insulator Co., Inc., Radio Specialties Div., a, c.
 Thomas J. Long, Inc., d thru j.
 M & G Plastic Products, h.
 McMillan Companies, The, d, g.
 Mechanical Felt & Textiles Co., g.
 Mechanical Rubber Products Co., j.
 Mico Insulator Div.-Minnesota Mining & Mfg. Co.,
 b, d, f thru i.
***MICROWAVE & POWER TUBE DIV., RAYTHEON
 CO., c.**
 James Millen Mfg. Co. Inc., c.
***MINNESOTA MINING & MFG. CO., a, c, d, g, i, j.**
 Minnesota Rubber Co., j.
 Mtronics Inc., c.
 Monsanto Chemical Co., a.
 NUMEC-Nuclear Materials & Equipment Corp., c.
 National Beryllia Corp., a, c.
 National Ceramic Co., c.
 National Vulcanized Fibre Co., d, e, g, h, i.

Natvar Corp., d, g, i.
 Nopco Chemical Co., Plastics Div.
 Norton Co., New Products Dept., a, c.
 Ohlson Empire Inc., c.
 Olympic Plastics Co., Inc., g.
 Owens-Corning Fiberglass Corp., f, g.
 Penn Fibre & Specialty Co., Inc., e, h, i.
 Permacel, j.
 Pittsburgh Corning Corp., f.
 Plastic Age Sales, Inc., b, f, j.
 Polymer Corp., The, h.
 Products Research Co., j.
 Quartzite Processing Inc., a, c.
 Raybestos-Manhattan, Inc., b, d, e, j.
 Reeves Brothers, Inc., d.
 Reeves Bros. Inc., Vulcan Rubber Div., d.
 Refractories Div., The, Ferro Corp., Louthan Plant, c.
 Ren Plastics, Inc., g.
 Reynolds Metals Co., a.
 J. R. Robbins Co., g, i.
 Robins Industries Corp., g.
 Rogers Corp., c, e, i.
 Milton Ross Metals Co., The, h.
 Russell Mfg. Co., b.
 St. Regis Paper Co., Panelyte Div., b, d, g, h, i.
 Saxonyburg Ceramics, Inc., c.
 Saylor Electric Products Corp., b, e.
 Seaman Products, Div.-Seaman Paper Co., d thru j, g, j.
 Semi-Elements, Inc., a.
 W. S. Shamban & Co., g, h.
 Sheridan-Gray, Inc.
 Silicone Products Dept., General Electric Co., Dept.
 C, j.
 Silicones Div.-Union Carbide Corp., j.
 Spaceatoms Div., The Budd Co., e, i.
 Spaulding Fibre Co., Inc.
 Special Products Dept., Melpar, Inc., c, j.
 Star Porcelain Co., The, c.
 Stevens Products, Inc., g, j.
 F. M. Stevenson Co., Inc., d, e, g, h.
 Superior Steatite & Ceramic Corp., a, c.
 Swedlow Inc., g, j.
 Synthone Corp., b thru j.
 TRG, Inc., a, c, e, g, j.
 Taylor Fibre Co., b, d, e, f, h, i, j.
 Tetrafluor, Inc., h.
 Thermal American Fused Quartz Co., Inc., c.
 Thermoid Div. H. K. Porter Co., Inc., b.
 H. I. Thompson Fiber Glass Co., d, f, g.
 Thor Ceramics, Inc., a, c.
 Topper Mfg. Co., Inc., a, b, c, f, h, j.
 Union Asbestos & Rubber Co., b, e, f, g.
 United Mineral & Chemical Corp., a.
 United States Rubber Co., b, d.
 Wenzlouw Engrg. Co., g.
 Westinghouse Electric Corp., f.
 Westinghouse Electric Corp., Micorta Div., b, d, g
 thru j.
 Wilmington Fibre Specialty Co., e, i.
 Young Development Div., Hercules Powder Co., g.
 Zippertubing Co., The, b, d, f, g, h, j.
 Zirconium Corp. of America, c.

INSULATION PARTS

- a. Bead
- b. Ceramic
- c. Insulating Sleeves
- d. Rods
- e. Sheets
- f. Silicane Rubber
- g. Stampings & Punchings

Actioncraft Products, f.
 Acushnet Process Co., f.
 Aero Gasket Corp., f, g.
 Alite Div., U. S. Stoneware Co., b.
 Allied Plastics Supply Corp., a thru g.
 Allays Unlimited Inc., g.
 Amatone Electronic Hardware Co. Inc., b, c.
 Amco Engrg. Co., g.
 American Feldmuehle Corp., b.
 American Felt Co., g.
 American Latex Products Corp.
 American Lova Corp., b.
 American Super-Temperature Wires, Inc., c, f.
 Apohover Corp. of N. E., e.
 Arrowhead Products, Div.-Federal-Mogul-Bower
 Bearings, Inc., c, e, f.
 Associated Engineers, Inc., c, e.
 Auburn Mfg. Co., The, c, e, f, g.
 Bacon Industries, Inc., f.
 L. J. Barwood Mfg. Co. Inc., c thru g.
***BENDIX PRODUCTS DIV., BENDIX AVIATION
 CORP., b.**
 Bentley, Harris Mfg. Co., c, f.
 Bergen Carbide Co., b, g.
 Bestcraft Products Co. Inc., g.
 Birma Mfg. Co. Inc., c, g.
 Birnbach Radio Co., Inc., b thru f.
 Bonny Mfg. Corp., g.
 Borden Chemical Co. c

Milton H. Brooks & Son Engraving & Mfg. Co., Inc., d, e, g.
 Brush Beryllium Co., The, b.
 Carborundum Co., The, a thru e.
 Carborundum Co., Latrobe Plant, Refractories Div., a thru d.
 Carborundum Co., Refractories Div., a, b, e.
 Centralab, Div.-Globe-Union, Inc., b.
 Chemplast, Inc., c, d, e, g.
 Chicago Gasket Co., d, e.
 Comco Plastics Inc., d thru g.
 Connecticut Hard Rubber Co., The, f.
 Continental Diamond Fibre Corp., c thru f.
 Continental Rubber Works, f.
 Coors Porcelain Co., b.
 Corning Glass Works, a, b, d, e.
 Crystal-X Corp., d, e.
 R. E. Darling Co., Inc., f.
 Diamonite Products Mfg. Co., b.
 John L. Dore Co., c, d, e.
 Dow-Elco, Inc., f.
 Du-Co Ceramics Co., a thru d.
 Duramic Products, Inc., a thru e.
 Hugh H. Eby Co., g.
 Edwards High Vacuum Ltd., f.
 Electric Autolite Co., The, b.
 Electrical Insulation Co., Inc., c, d, e, g.
 Electrical Refractories Co., The, a, b, c.
 Electronic Mechanics, Inc., a thru e, g.
 Eljoy Corp., c, d, e, g.
 Emerson Plastics Corp., a thru e, g.
 Enfab Inc., c, e, g.
 Engineered Plastics, Inc., g.
 Erie Resistor Corp., b.
 Falge Engrg. Div.-Pen Mac Nye Co., c, g.
 Federal Tool & Mfg. Co., g.
 Fisher & Crome, d, e.
 Flexible Tubing Corp., f.
 Forsberg Mfg., Co., The, g.
 Franklin Fibre-Lamitex Corp., c thru g.
 Frenchtown Porcelain Co., b.
 Furane Plastics, Inc., d, e.
 G-C Electronics Co., c.
 Garlock Packing Co., c, e, f, g.
 Garlock Packing Co., The-Electronic Products, c, d, e, g.
 Gasket Mfg. Co. Inc., g.
 General Ceramics Div., Indiana General Corp., b.
 General Electric Co., Missile & Space Vehicle Dept., Pa., b.
 General Gasket Inc., g.
 Goe Engrg. Co., b.
 B. F. Goodrich Sponge Products, f.
 Goodyear Tire & Rubber Co., The, Aviation Products Div., f.
 Gordon Rubber & Pocking Co. Inc., f.
 Goshen Rubber Co., Inc., f.
 Gries Reproducer Corp.
 Gulton Industries, Inc., b.
 Hastings Plastics, Inc., a, d, e.
 Hays Mfg. Co., e.
 Hermetic Seal Corp., a, b, c.
 Insulation Mfrs. Corp., c thru g.
 Isolantite Mfg. Corp., a thru d.
 Joclun Mfg. Co., The, c, d, e, g.
 Johns-Manville Sales Corp., c, e.
 Keystone Electronics Corp., g.
 M. Kirchberger & Co., Inc., a, b.
 Lamtex Industries Inc., c.
 Lapp Insulator Co., Inc., Radio Specialties Div., b, d.
 Thomas J. Long, Inc., c, d, e.
 M & Q Plastic Products, c, d, e.
 Mechanical Rubber Products Co., f, g.
 J. E. Menough Co., c.
 Mico Insulator Div.-Minnesota Mining & Mfg. Co., d, e, f.
 Mico Instrument Co., d.
 *MICROWAVE & POWER TUBE DIV., RAYTHEON CO., b.
 James Millen Mfg. Co. Inc., a, b.
 *MINNESOTA MINING & MFG. CO., a thru e.
 Minnesota Rubber Co., f.
 Mitronics Inc., b.
 Motorola, Inc., b.
 Mycalex Corp. of America, c, d, e.
 NUMEC-Nuclear Materials & Equipment Corp., b.
 National Beryllia Corp., a thru d.
 National Ceramic Co., b.
 National Moldite Co., a.
 National Vulcanized Fibre Co., c, d, e, g.
 Natvar Corp., c, e, f.
 New England Spring Mfg. Co., Inc., g.
 New England Tape Co., Div.-United-Corr Fastener Corp., c, d.
 M. M. Newman Corp., c.
 Norrich Plastics Corp., a thru e.
 Norton Co., New Products Dept., b.
 Ohlson Empire Inc., b, c.
 Olympic Plastics Co., Inc., c.
 Owens-Corning Fiberglass Corp., c.
 Penn Fibre & Specialty Co., Inc., c, d, e, g.

Permacel, f.
 Polymer Corp., The, c, d, e, g.
 Precision Metal Products Co. Inc., g.
 Prewitt Aircraft Co., c, y.
 Raybestos-Manhattan, Inc., c thru f.
 Reeves Bros. Inc., Vulcan Rubber Div., f.
 Refractories Div., The, Ferro Corp., Louthan Plant, b.
 Resistorflex Corp., d, e.
 R. R. Robbins Co., e, g.
 Roberts Toledo Rubber Co., The, f.
 Rogers Corp., b, c, f.
 Milton Ross Metals Co., The, c, d, g.
 Rubbertcraft Corp. of California, d thru g.
 St. Regis Paper Co., Panelite Div., d, e.
 Soxonberg Ceramics, Inc., b.
 D. A. Schultz Co., e, f, g.
 Seaman Products, Div.-Seaman Paper Co., c, e.
 Servicair Co., c.
 W. S. Shomban & Co., d, e.
 Sheridan-Gray, Inc., g.
 Sillocks-Miller Co., c, e, g.
 Spaulding Fibre Co., Inc., d, e, g.
 Star Porcelain Co., The, a thru e, g.
 Stevens Products, Inc., c, g.
 Stillman Rubber Co., f.
 Superior Seatite & Ceramic Corp., a, b.
 Suprenant Mfg. Co., c.
 Synthane Corp., c, d, e, g.
 Taylor Fibre Co., c, d, e, g.
 Tetrafluor, Inc., c, d, e.
 Thermal American Fused Quartz Co., Inc., b.
 Thermoid Div.-H. K. Porter Co., Inc., f.
 H. I. Thompson Fibre Glass Co., c.
 Thor Ceramics, Inc., a thru e, g.
 Topper Mfg. Co., Inc., b.
 Tri-Point Plastics Inc., a, d.
 Union Asbestos & Rubber Co., c.
 United Mineral & Chemical Corp., d.
 United States Rubber Co., c.
 Vorflex Corp., c, f.
 Victor Tool & Mfg., Inc., g.
 Western Gold & Platinum Co., a, b.
 Westinghouse Electric Corp., d, e.
 Westinghouse Electric Corp., Micarta Div., c, d, e, g.
 Wilmington Fibre Specialty Co., c, d, e, g.
 Young Development Div., Hercules Powder Co., c.
 Zippertubing Co., The, c.
 Zirconium Corp. of America, b, c, d.

INSULATORS

- a. Antenna Insulators & Spring Assemblies
- b. Bead
- c. Bearing
- d. Can Liner
- e. Ceramic
- f. Card
- g. Electric
- h. Fabricated
- i. Feed Through
- j. Feeder Spreader
- k. Fused Quartz
- l. Glass Bonded Mica
- m. High Dielectric Paper
- n. HV Power Line
- o. Laminated
- p. Metallized Bushing
- q. Mica
- r. Molded
- s. Plastic
- t. Rods
- u. Sheets
- v. Shock
- w. Shock & Vibration
- x. Sleeve
- y. Standoff
- z. Strain
- a-1. Test Clip
- b-1. Thermal
- c-1. Thermocouple
- d-1. Tower
- e-1. Transmitting Antenna

Aeroscience, Inc., z.
 Aite Div., U. S. Stoneware Co., b, c, e, g, i, n, p, x, y, c-1, e-1.
 Allied Plastics Supply Corp., h, l, a, q thru u, x.
 Alpine Electronic Components, Inc., i, y.
 Amatom Electronic Hardware Co. Inc., e, i, s, x, y.
 American Agile Corp., s.
 American Feldmuehle Corp., e.
 American Felt Co., v, w.
 American Latex Products Corp., a, d, h, r thru z, a-1 thru e-1.
 American Lava Corp., e, g, i, y, z, c-1.
 Apahouser Corp. of N. E., a, h, a, s, t, u.
 Aries Laboratories, Inc., r, s.
 Arnel Electronics, Inc., i, s, y.
 Arrowhead Products, Div.-Federal-Mogul-Bowen Bearings Inc., h, a.
 Asheville-Schaonmaker Mica Co., q.
 Associated Engineers, Inc., i.
 Auburn Mfg. Co., The, h, s, u, v, w, b-1.

B G Corp., The, e, i.
 I. J. Barwood Mfg. Co. Inc., c, f thru i, a, q, s thru x.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., e.
 Bentley, Harris Mfg. Co., x.
 Bergen Carbide Co., e.
 Bestcraft Products Co. Inc., h, m.
 Carl H. Biggs Co., r, s, t, b-1.
 Birma Mfg. Co. Inc., e, r, u, v, w.
 Birnbach Radio Co., Inc., e, i, j, s, t, u, x, y, z, a-1, e-1.
 Bonny Mfg. Corp., r thru u, x.
 Braun-Knecht-Haimann Corp., Industrial Div., k.
 Brook Molding Corp., r, s.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc., s, t, u.
 Brunswick Bolke Collender Co., The, Defense Products Div., a, r, s.
 Budd Co., The, g, r, s.
 Cambridge Thermionic Corp., e, r, y.
 Carborundum Co., The, b, e, g, m, t, u, x, b-1, c-1.
 Carborundum Co., Latrobe Plant, Refractories Div., b, e, i, j, n, p, t, x, y, z, b-1, c-1.
 Carborundum Co., Refractories Div., e, b-1, c-1.
 Carmer Industries Inc., s, t, u.
 Centralab, Div.-Globe-Union, Inc., b, e, i, j, y, z.
 Ceramaseal, Inc., t, p, y, c-1.
 Champion Spark Plug Co., e.
 Chemplast, Inc., h, r thru u.
 Chicago Gasket Co., s.
 Colonial Rubber Corp., h, a, s, t, u.
 Comco Plastics Inc., h, a, s, t, u.
 *CONSOLIDATED ELECTRODYNAMICS CORP., e.
 Continental Diamond Fibre Corp., h, l, a, q thru u, b-1.
 Continental Rubber Works, r.
 Coors Porcelain Co., e, i, y, e-1.
 Corning Glass Works, b, e, i, r, t, u, x, y, b-1.
 Crystal-X Corp., s, t, u.
 Dayton Aircraft Products, Inc., a, e, h, i, r, s, z, e-1.
 Dell Optics Co., Ltd., k.
 Deutsch Co., The, Electronic Components Div., r.
 Diamonite Products Mfg. Co., e.
 Dixon Corp., s.
 John L. Dore Co., r thru u.
 Dow-Elco, Inc., w.
 Du-Co Ceramics Co., b, e, f, g, i, p, t, x, y, z, b-1, c-1.
 Dura Plastics of N. Y., Inc., s.
 Duramic Products, Inc., e, h, t, u, x.
 E-Z Way Towers, Inc., d-1.
 Electrical Insulation Co., Inc., r thru u.
 Electrical Refractories Co., The, e, c-1.
 Electronic Mechanics, Inc., l, a, q.
 Eljoy Corp., g, h, m, o, r thru u.
 Emeloid Co., Inc., The, r, s.
 Emerson & Cuming, Inc., t, u.
 Emerson Plastics Corp., b, c, e, h, i, l, a, q thru u, y.
 Engelhold Industries, Inc., g.
 Engineered Plastics, Inc., h.
 Epoxy Products, Inc., Div.-Joseph Woldman & Sons, s.
 Erie Resistor Corp., e.
 Falge Engrg. Div.-Pen Mac Nye Co., h, s.
 Fisher & Crome, h, m, s, t, u, y.
 Fluorocarbon Co., The, s, t, u.
 Ford Radio & Mico Corp., q.
 Form-It Products, Inc., h, r, s.
 Franklin Fibre-Lamitex Corp., g, h, a, r thru u.
 Frenchtown Porcelain Co., e, i, p.
 G-C Electronics Co., a.
 Garde Mfg. Co., i, q, r, s.
 Garlock Packing Co., d, a, q, r thru u.
 Garlock Packing Co., The-Electronic Products, g, h, i, r thru u, y.
 General Ceramics Div., Indiana General Corp., e.
 General Electric Co., Insulator Dept., e, g, n, y, z, d-1, e-1.
 General Radio Co., r.
 Gladding, McBean & Co., e, p, b-1, e-1.
 Goe Engrg. Co., e, i, y.
 Cloud S. Gordon Co., b, c, 1.
 Goshen Rubber Co., Inc., w.
 Gries Reproducer Corp., c, r.
 Gulton Industries, Inc., e.
 Hays Mfg. Co., r, s, y.
 Hermetic Seal Corp., b, e, i, y.
 Heyman Mfg. Co., f, i, s.
 Hobson Brothers Inc., r.
 Holub Industries, Inc., s, z.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP., r, s.
 Walter J. Hyatt Co., The, s.
 Industrial Acoustics Co., Inc., w.
 Industrial Devices Inc., r, s.
 Industrial Mica Corp., q.
 Insulation Mfrs. Corp., g, h, l, m, a, q thru u, x.
 Isocyanate Products, Inc., s.
 Isolantite Mfg. Corp., a, b, e, i, j, y, z, e-1.
 Jan Hardware Mfg. Co., Inc., n, y.
 Johns-Manville Sales Corp., g, m, r, s.
 E. J. Johnson Co., a, e, i, y, e-1.
 K. W. Johnson & Co., Inc., w.

Kentucky Metal Products Co., b-1.
 Keystone Electronics Corp., h, y.
 M. Kirchberger & Co., Inc., b, e, g, r, y.
 Malmex Industries Inc., g, h, o, r, s, x, y, e-1.
 Lapp Insulator Co., Inc., Radio Specialties Div., a, e,
 g thru j, n, p, t, y, z, d-1, e-1.

Lone Star Plastics Co. Inc., s.
 Thomas J. Long, Inc., s.
 Lord Mfg. Co., w.
 MB Electronics, v, w.
 M & Q Plastic Products, r thru u, y.
 Martin Machine Works, Inc., s.
 McMillan Companies, The, q.
 Mechanical Rubber Products Co., r.
 J. E. Menough Co., x.
 Mica Fabricating Co., e, h, l, q thru u.
 Mica Industry Association, Inc., q.
 Mica Insulator Div.-Minnesota Mining & Mfg. Co.,
 q, s, t, u.
 Micraform Products Inc., h, l, q.
 *MICROWAVE & POWER TUBE DIV., RAYTHEON
 CO., e.
 James Millen Mfg. Co. Inc., a, b, e, i, j, r, y.
 *MINNESOTA MINING & MFG. CO., a, b, e, g, h, i,
 l, m, o, q thru u, x, b-1.

*MINNESOTA MINING & MFG. CO.-CHEMICAL
 DIV., s, b-1.

Minnesota Rubber Co., h, r.
 Mitronics Inc., e, i, p.
 Molded Insulation Co., r, z.
 Molding Corp. of America, h, i, r, s, y.
 Motorola, Inc., e.
 Mueller Electric Co., a-1.
 Mycalex Corp. of America, g, l, q thru u, x, y.
 Narmco Mfg. Co., o, r, s.
 National Beryllia Corp., b, e, g, h, t, x, c-1.
 National Ceramic Co., b, e, g, i, y, z, b-1.
 National Moldite Co., b.
 National Vulcanized Fibre Co., g, h, m, o, r thru u.
 Natvar Corp., s.
 Nevada Air Products Co., i, e-1.
 New England Tape Co., Div.-United-Carr Fastener
 Corp., s.
 M. M. Newman Corp., s.
 Norrich Plastics Corp., a, b, c, e, i, j, o thru z, a-1,
 d-1.
 Norrich Screw Machine Products, a, b, c, f, h, i, o, r
 thru u, x, y, z, b-1, d-1, e-1.
 Northern Plastics Corp., h, o, s, u.
 Norton Co., New Products Dept., e, c-1.
 Ohlson Empire Inc., e.
 Olympic Plastics Co., s.
 Owens-Corning Fiberglas Corp., g, h, o, r, v, w, b-1.
 Penn Fibre & Specialty Co., Inc., h, m, s thru w.
 Permax Products Div., Chisholm-Ryder Co., Inc., o, v,
 w, y, e-1.
 Pittsburgh Corning Corp., b-1.
 Plastic Age Sales, Inc., o, r, s.
 Polymer Corp., The, c, g, h, s thru y.
 Precision Metal Products Co. Inc., e, h, i, r, y.
 Prewitt Aircraft Co., s.
 Raybestos-Manhattan, Inc., r thru u, x, b-1.
 Refractories Div., The, Ferro Corp., Louthan Plant, e.
 Resistoflex Corp., s, t, u.
 J. R. Robbins Co., m, u.
 Rogers Corp., c, e, g, o, r, s.
 Rohm Mfg. Co., z, d-1.
 Milton Ross Metals Co., The, d, r, s, t, y, z.
 Rubbercraft Corp. of California, r, w.
 St. Regis Paper Co., Panelyte Div., o, s, t, u.
 Sanford Plastics Corp., r thru u.
 Saxony Ceramics, Inc., e, c-1.
 Saylor Electric Products Corp., s, w.
 D. A. Schultz Co., s, u.
 Sealectro Corp., s.
 Seaman Products, Div.-Seaman Paper Co., o, r, u, w,
 b-1.
 Semi-Elements, Inc., k.
 W. S. Shomban & Co., i, r, s, u.
 Sheridan-Gray, Inc., k.
 Sinclair Mfg. Co., h, o, s.
 E. C. Smith Mfg. Co., Inc., e-1.
 Smooth-On Mfg. Co., s.
 Solar Mfg. Corp., e, i, y.
 Southern Plastics Co., r thru u.
 Spaceatoms Div., The Budd Co., b-1.
 Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co., r thru
 u.
 Spaulding Fibre Co., Inc., h, o, s, t, i, u, b-1.
 Sphere Co. Inc., The, e.
 Spruce Pine Mica Co., h, q, s.
 Star Porcelain Co., The, b, e, g, h, i, r, t, u, x, y, z,
 c-1.
 A. T. Stevens Co., w.
 Stevens Products, Inc., o, r.
 Superior Stearite & Ceramic Corp., b, e, g, r, y.
 Surprenant Mfg. Co., x.
 Swedlow Inc., s.
 Synthane Corp., h, o, r thru u.
 Taurus Corp., i, s, y.

Taylor Fibre Co., h, s, t, u, x.
 Tetrafluor, Inc., r, s.
 Thermal American Fused Quartz Co., Inc., e, k.
 Thermo Electric Co., Inc., c-1.
 Thermon Mfg. Co., g.
 Thor Ceramics, Inc., a, b, e, g thru j, p, s, t, u, x, y, z,
 b-1 thru e-1.
 Torwico Electronics, Inc., e.
 Tri-Ex Tower Corp., z.
 Trinity Equipment Corp., c-1.
 Tri-Point Plastics Inc., b, c, h, i, t, y.
 Twix Mfg. Co., Inc., q, s.
 U. E. Electronics Corp., r, s.
 Union Asbestos & Rubber Co., f.
 United Mineral & Chemical Corp., t.
 U. S. Plastic Molding Corp., s.
 United States Rubber Co., h, o, r, s, w, x, b-1.
 Universal Moulded Products Corp., r, s.
 Universal Unlimited, Inc., s, u.
 Varflex Corp., s, x.
 Veeco Vacuum Corp., t.
 Victor R. F. & Microwave Co., s.
 Waterbury Companies, Inc., s.
 Westinghouse Electric Corp., e, g.
 Westinghouse Electric Corp., Micarta Div., m, o, r
 thru u, b-1.
 Whitso, Inc., i, r, s, y.
 Wind Turbine Co., i, j, y, z, d-1, e-1.
 Yardley Plastics Co., d.
 Young Development Div., Hercules Powder Co., g, h,
 o, r thru u, x, b-1.
 Zippertubing Co., The, v thru y, b-1.
 Zirconium Corp. of America, e, b-1, c-1.

INTEGRATORS, ELECTRONIC

Airbarne Instruments Lab., Div.-Cutler-Hammer, Inc.
 *AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.
 Allegany Instrument Co., Inc.
 Andersen Labs., Inc.
 Antlab Inc.
 Beckman Instruments, Inc., Berkeley Div.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 *BRISTOL CO., THE
 Bruno-New York Industries Corp.
 Budd Lewyt Electronics, Inc.
 Burton-Rodgers, Inc.
 Chance Vought Aircraft, Inc.
 Daystrom, Inc., Military Electronics Div.
 Daystrom Inc., Pacific Div.
 Daystrom Inc., Weston Instruments Div.
 Djeco, Div.-Djordjevic Engrg. Co.
 Dynamics Instrumentation Co.
 Eclipse-Pioneer Div., Bendix Aviation Corp.
 Elcar, Inc.
 Electro Instruments, Inc.
 Electronic Tube Corp.
 Enco, Inc.
 *EQUIPMENT DIV., RAYTHEON CO.
 Fischer & Porter Co.
 Flight Support, Inc.
 General Devices, Inc.
 General Electric Co., Missile & Space Vehicle Dept.,
 Pa.
 Hamilton Watch Co., Military Products Div.
 Hoover Electronics Co.
 Huyck Systems Co.
 I-L-S Instrument Div., The Meriam Instrument Co.
 Industrial Control Co.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Lear, Inc.
 Libroscope Div., General Precision, Inc.
 Madigan Corp.
 W. L. Maxson Corp., The
 Micro Gee Products, Inc.
 Motorola, Inc.
 Northrop Corp.
 Packard Bell Computer Corp.
 Philco Corp.-Govt. & Industrial Group
 Reeves Instrument Corp.
 Scientific-Atlanta, Inc.
 Servomechanisms, Inc.
 Servo-Tek Products Co.
 Southwest Research Institute
 Southwestern Industrial Electronics Co.
 Sun Electric Corp., Aeronautical Div.
 Telechrome Mfg. Corp.
 U. S. Industries, Inc.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 Varo Mfg. Co., Inc.

INTERCOMMUNICATION SYSTEMS

Bendix Aviation Corp.
 Broadview Research Corp.
 Bruno-New York Industries Corp.
 Chance Vought Aircraft, Inc.
 Daimo Victor Co., Div.-Textron, Inc.
 Designers for Industry, Inc.
 Diamond Antenna & Microwave Corp.
 Du Kane Corp.

Emerron, Sub.-Emerson Radio & Phonograph Corp.
 Executone, Inc.
 Fla. Aircraft Radio & Marine
 Flush Wall Radio Co.
 GFL Div.-General Precision, Inc.
 Gates Radio Co.
 General Devices, Inc.
 General Instrument Corp., Defense & Engrg. Products
 Group
 Gonsel Div.-Young Spring & Wire Corp.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hallamore Electronics Co., Div.-Sieglar Corp.
 Hammarlund Mfg. Co., The
 ITT Federal Div., International Telephone & Tele-
 graph Corp.
 E. F. Johnson Co.
 Kellogg Switchboard & Supply Co., Communications
 Div.-ITT Corp.
 Lear, Inc.
 Lenkurt Electric Co., Inc.
 Madigan Corp.
 *MARTIN CO., THE, DENVER DIV.
 Motorola, Inc.
 M. V. Palmer, Inc.
 Philco Corp.-Govt. & Industrial Group
 Production Research Corp., Sub.-Radio Condenser
 Radio Corp.
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE
 ELECTRONICS PRODUCTS
 Radio Receptor Co., Inc., Sub.-General Instrument
 Corp.
 Remler Co.
 Rimak Inc.
 Sencor, Div.-Seismograph Service Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Sun Electric Corp., Aeronautical Div.
 Talk-A-Phone Co.
 United States Instrument Corp.
 Vocaline Co. of America Inc.
 Western Union Telegraph Co., The
 Wickes Engrg. & Construction Co.
 Winder Aircraft Corp. of Florida

INTERFERENCE EQUIPMENT RF

Cameralflex Div., The, Federal Mfg. & Engrg. Corp.
 Designers for Industry, Inc.
 Diamond Antenna & Microwave Corp.
 General Instrument Corp., Defense & Engrg. Pro-
 ducts Group
 HRB-Singer, Inc., Sub.-Singer Mfg. Co.
 Hallett Mfg. Co.
 Lear, Inc.
 Miller Associates
 Motorola, Inc.
 Panoramic Radio Products, Inc.
 *RADIO CORP. OF AMERICA
 Radio Receptor Co., Inc., Sub.-General Instrument
 Corp.
 Southwest Research Institute
 Sperry Microwave Electronics Co., Div.-Sperry Rand
 Corp.
 Sprague Electric Co.
 Telechrome Mfg. Corp.

INTERFEROMETERS

Bausch & Lomb Optical Co.
 Davidson Optronics, Inc.
 Diamond Antenna & Microwave Corp.
 Eastman Kodak Co.
 Edgerton, Germeshausen & Grier, Inc.
 *ENGIS EQUIPMENT CO.
 J. V. Fecker Div., American Optical Co.
 Gulton Industries, Inc.
 Jarrell-Ash Co.
 Mc Millan Companies, The
 Omega Labs, Inc.
 Optomechanisms Inc.
 Tinsley Labs, Inc.

INTERVALOMETERS

*AC SPARK PLUG, THE ELECTRONICS DIV.-
 GENERAL MOTORS
 *ABRAMS INSTRUMENT CORP.
 Beckman Instruments, Inc., Berkeley Div.
 Courter Products, Div.-Model Engrg. & Mfg., Inc.
 Joe Davidson & Associates
 Designers for Industry, Inc.
 Eagle Signal Co.
 Elgin Micronics, West Coast Div.-Elgin National
 Watch Co.
 Flight Research, Inc.
 Gordon Enterprises
 Greenleaf Mfg. Div., The, Mandrel Ind. Inc.
 Hamilton Watch Co., Military Products Div.
 A. W. Haydon Co., The
 Jordan Electronics, Div.-Victoreen Instrument Co.
 Lear, Inc.
 Lundy Mfg. Corp.
 Optomechanisms Inc.

Patterson Moos Research, Div.-Leesona Corp.
Revere Corp. of America, Sub.-Neptune Meter Co.
Servomechanisms, Inc.
Southwest Research Institute
Spectral Electronics Corp.
Traid Corp.
Trio Laboratories, Inc.
U. S. Industries, Inc.
U. S. Science Corp., Div.-Tapp Industries, Inc.

INVERTERS

ACF Industries Inc.
Airborne Accessories Corp.
*AIRRESEARCH MFG. CO. DIV.-THE GARRETT
CORP.
American Missile Products Co., Inc.
American Research & Mfg. Corp.
*ARNOUX CORP.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Carter Motor Co.
Chatham Electronics Div.-Tung-Sol Electric Inc.
Collins Radio Co.
*COMMERCIAL APPARATUS & SYSTEMS DIV.,
RAYTHEON CO.
Communication Measurements Lab., Inc.
Carnell-Dubilier Electric Corp.
Cubic Corp.
Joe Davidson & Associates
De Havilland Aircraft of Canada, Ltd., Special Pro-
ducts Div.

Delco Radio Div.-General Motors Corp.
Djeco, Div.-Djordjevic Engrg. Co.
Ecor Div.-Scranton
Electrosolids Corp.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Devices, Inc.
General Electric Co., Apparatus Sales Div.
Georator Corp.
Paul E. Gerst & Co.
Guided Missile Div., The Firestone Tire & Rubber Co.
Gulton Industries, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
George E. Harris & Co., Inc.
Hathaway Instruments, Inc.
Hoover Electric Co.
I-L-S Instrument Div., The Meriam Instrument Co.
Industrial Test Equipment Co.
Johnson Electronics Inc.
Jordan Electronics, Div.-Victoreen Instrument Co.
Leor, Inc.
Leece-Neville Co., The
Iceland Airborne Products, Div.-American Machine
& Foundry Co.
Lockheed Aircraft Corp. Missiles & Space Div.
MEG Products, Div.-Mandrel Industries, Inc.
Magnetic Controls Co.
W. I. Maxson Corp., The
Micro Gee Products, Inc.
Motor Generator Corp.
Motorola, Inc.
Networks Electronic Corp.
D. W. Onan & Sons Inc.
Opad Electric Co.
PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y.
Perkin Engrg. Corp.
Pescos Products Div.-Borg-Warner Corp.
Pescos Products Div.-Borg-Warner Corp., Calif.
Power Supplies Inc.
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge
Inc.
Riverbank Labs., Dept.-Engrg.
Sogamo Electric Co.
Small Motors Inc.
Sonotone Corp.
Southwestern Industrial Electronics Co.
Spectral Electronics Corp.
Sperry Farrogut Co., Div.-Sperry Rand Corp.
Talley Corp., The
Telkor, Inc.
Terado Co.
Torwico Electronics, Inc.
U. S. Industries, Inc.
Varo Mfg. Co., Inc.
Voi-Shon Electronics
Wesrep Corp.
Western Gear Corp.-Precision Products Div.
Westinghouse Electric Corp.
Wickes Engrg. & Construction Co.
Wincharger Corp., Sub.-Zenith Radio Corp.

ION TRAPS

Bendix Aviation Corp., Cincinnati Div.
Emertan, Sub.-Emerson Radio & Phonograph Corp.
General American Transportation Corp.
*RADIO CORP. OF AMERICA

IRON

Antara Chemicals, Div.-General Aniline & Film Corp.
Crucible Steel Co. of America

Custom Tool & Mfg. Co.
Lapham Hickey Steel Corp.
United Mineral & Chemical Corp.
Var-Lac-Oid Chemical Co.

ISOLATORS, MICROWAVE

Airtron, Div.-Liton Industries
American Lava Corp.
Bendix Aviation Corp.
*COMMERCIAL APPARATUS & SYSTEMS DIV.,
RAYTHEON CO.
Demornay-Bonardi
FXR Inc.
Hammett-Mercury-Rex Div.
*KEARFOIT DIV., GENERAL PRECISION, INC.
*KEARFOIT DIV., GENERAL PRECISION, INC.,
MICROWAVE PRODUCTS
Kentucky Metal Products Co.
Lockheed Aircraft Corp., Missiles & Space Div.
Microphase Corp.
Microwave Associates, Inc.
*MICROWAVE & POWER TUBE DIV., RAYTHEON
CO.
Motorola, Inc.
*RADIO CORP. OF AMERICA
Rantec Corp.
Sage Labs, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp.
Sylvania Electric Products Inc., Special Tube
Operations
TRG, Inc.
Victor R. F. & Microwave Co.

JACK PANEL ASSEMBLIES

ADC Inc.
Accurate Electronics Corp.
Aerolite Electronics Corp.
Anchor Specialty Mfg. Co. Inc.
Apothuser Corp. of N.E.
Barco Engrg. Corp.
Bud Radio, Inc.
California Plasteck Inc.
Cronome Inc.
Dage Television Div., Thompson Ramo Wooldridge,
Inc.
Falstrom Co.
Gates Radio Co.
Harco Labs, Inc.
Interstate Electronics Inc.
Jan Hardware Mfg. Co., Inc.
Kelllogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.
Keystone Electronics Corp.
Kings Electronics Co., Inc.
Lab-Tronics, Inc.
Thomas J. Long, Inc.
Lycoming Div., Avco Corp.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Chester Morton Electronics Corp.
Panoramic Radio Products, Inc.
Piosecki Aircraft Corp.
Projects Unlimited, Inc.
Revere Corp. of America, Sub., Neptune Meter Co.
Rimok, Inc.
Sheltered Workshops
Sonex, Inc.
Standard Electric Time Co., The
Standard Electronics Div.-Reeves Instrument Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Switchcraft, Inc.
Technical Material Corp., The
Thermo Electric Co., Inc.
United States Instrument Corp.
Virginia Electronics Co., Inc.

JACKS

ADC Inc.
Accurate Electronics Corp.
Aerolite Electronics Corp.
Alden Products Co.
Aptomat Electronic Hardware Co. Inc.
American Machine & Foundry Co., Greenwich Engrg.
Div.
Beacon Steel Corp.
Bead Chain Mfg. Co., The
Beaver Precision Products Inc.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.
Birnback Radio Co., Inc.
A. M. Byers Co.
Cable Electric Products Inc.
Cambridge Thermionic Corp.
G-C Electronics Co.
General Radio Co.
Harco Labs, Inc.
Hein-Werner Corp.
Carl Hirschmann Co., Inc.
Hoover Electric Co.
Interstate Electronics Inc.

Jan Hardware Mfg. Co., Inc.
E. F. Johnson Co.
Howard B. Jones Div.-Cinch Mfg. Corp.
Kelllogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.
Keystone Electronics Corp.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Kings Electronics Co., Inc.
James Millen Mfg. Co., Inc.
Norrich Screw Machine Products
*RAYTHEON CO., INDUSTRIAL COMPONENTS
DIV.
Reed Instrument Co.
Reed Research Inc.
Regent Jack Mfg. Co., Inc.
Milton Ross Metals Co., The
Sancor Corp.
Sealectro Corp.
Standard Electric Time Co., The
Standard Electronics Div.-Reeves Instrument Corp.
Switchcraft Inc.
Taurus Corp.
Technical Material Corp., The
Telex, Inc.
Templeton, Kenly & Co.
United States Instrument Corp.
Weste King Corp., Technical Products Div.
Weaver Mfg. Co., Div.-Dura Corp.
Whitso, Inc.

JET ENGINES

Allison Div., General Motors Corp.
Bermite Powder Co.
A. M. Byers Co.
Delta Corp.
Falcon Machine & Tool Co.
Fischer & Porter Co.
Lycoming Div., Avco Corp.
Ordnance Research & Development Co., Div.-
Bermite Powder Co.
Pratt & Whitney Aircraft Div., United Aircraft Corp.

JEWELS

Moser Jewel Co.
Swiss Jewel Co.

JEWELS, GLASS

Corning Glass Works
General Electric Co., Apparatus Sales Div.
E. F. Johnson Co.
Manhattan Lighting Equipment Co., Inc.
Moser Jewel Co.

JOINT ASSEMBLIES

Arrowhead Products, Div.-Federal-Mogul-Bower
Bearings, Inc.
Barco Mfg. Co., Inc.
California Stamping & Mfg. Co.
Chikson Co., Sub.-Food Machinery & Chemical
Corp.
FAE Instrument Corp.
Flight Refueling, Inc.
Walter K. Jaros Aircraftrafters
Langley Corp.
Piosecki Aircraft Corp.
Uni-Flex Mfg. & Engrg. Inc.
Weatherhead Co., The

JOINTS

a. Ball
b. Swivel
c. Torsion
d. Universal

Aeroquip Corp., Jackson Div., b.
Allegany Instrument Co., The, a.
Apex Machine & Tool Co., The, d.
Artwin Industries, Inc., a, b.
Arrowhead Products, Div.-Federal-Mogul-Bower
Bearings, Inc., a thru d.
Barco Mfg. Co., Inc., a, b.
Bendix Aviation Corp., a.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP., a, b, d.
Bendix Utica Div., Bendix Aviation Corp., d.
Boston Gear Works, d.
A. M. Byers Co., a thru d.
California Stamping & Mfg. Co., a, b.
Chikson Co., Sub.-Food Machinery & Chemical
Corp., b.
Cobra Metal Hose Div DK Mfg. Co., d.
Components Corp., b.
Continental-Emsco Co., Div.-The Youngstown Sheet
& Tube Co., b.
Curtis Universal Joint Co., Inc., a, d.
Dumont Engrg. Co., b, d.
FAE Instrument Corp., b, d.
Falcon Machine & Tool Co., a, b, d.
Flight Refueling, Inc., a thru d.
B. H. Hadley, Inc., a, b.

Hallett Mfg. Co.
 Walter K. Jaros Aircrafters, **a thru d**.
 Kolcast Industries-Div. Thompson Ramo Wooldridge
 Inc., **a**.
 Langley Corp., **a, b**.
 Lovejoy Flexible Coupling Co., **d**.
 Norrich Plastics Corp., **a, b, d**.
 Norrich Screw Machine Products, **a, d**.
 OPW Jordan, **b**.
 Ohlson Empire Inc., **a, d**.
 Richard Philip Co., **a, d**.
 Phoenix Products Co., **a**.
 Recony Div., Vinco Corp., **a thru d**.
 Resistoflex Corp., **a, b**.
 Sealol Corp., **b**.
 Sierra-Schroeder Controls, Div.-Idaho Maryland
 Mines Corp., **b**.
 Solar Aircraft Co., **a**.
 Southwest Products Co., **a, b, c**.
 Uni-Flex Mfg. & Engr. Inc., **a**.
 Vibration Isolation Products, **c**.
 Vinson Mfg Co. Inc., **b**.
 Vlier Engr. Corp., **b**.
 Waste King Corp., Technical Products Div., **b**.
 Weatherhead Co., The, **a, b**.
 Western Div., Aeroquip Corp., **b**.

JUMPERS, BONDING

All Specs Corp.
 Allen Electric & Equipment Co.
 Bernco Engr. Corp.
 Janco Corp.
 Walter K. Jaros Aircrafters
 Kulko Electric Corp.

JUNCTION BOXES & PANELS

A & E Metal Specialties Inc.
 A&P Metal Products Mfg. Corp.
 Abalon Precision Mfg. Corp.
 Accurate Electronics Corp.
 Aerotest Laboratories, Inc.
 American Aluminum Co.
 Associated Co., Inc.
 Bendix Aviation Corp., Cincinnati Div.
 Bernco Engr. Corp.
 Breeze Corporations, Inc.
 Brooks & Perkins, Inc.
 Bud Radio, Inc.
 Budd Lewyt Electronics, Inc.
 CG Electronics Corp.
 Chance Vought Aircraft, Inc.
 Conrad & Moser
 *DEL MAR ENGRG. LABS.
 Folstrom Co.
 Farwell Metal Fabricating
 Flight Refueling, Inc.
 Grimes Mfg. Co.
 Hallomere Electronics Co., Div.-Sieglar Corp.
 Indiana Gear Works, Inc.
 International Electric Industries, Inc.
 Jovex Electronics
 Kellogg Switchboard & Supply Co., Communications
 Div. IT&T Corp.
 Kirk & Blum Mfg. Co., The
 Kolton Electric Mfg. Co.
 *LAVELLE AIRCRAFT CORP.
 *MARTIN CO., THE, DENVER DIV.
 Nelson Electric Mfg. Co.
 Richard Philip Co.
 Piaszek Aircraft Corp.
 Pneumafil Corp.
 Prewitt Aircraft Co.
 REF Mfg. Corp.
 Radio Condenser Co.
 Skyline Products, Inc.
 Sonex, Inc.
 Specialty Electronics Development Corp.
 Teklor, Inc.
 Thermo Electric Co., Inc.
 Victor Tool & Mfg., Inc.
 Virginia Electronics Co., Inc.

JUNCTIONS, HYBRID, MICROWAVE

Aircorn Inc.
 Artisan Metal Works Co.
 Bendix Aviation Corp.
 Bogart Mfg. Corp.
 Daimo Victor Co., Div.-Textron, Inc.
 Joe Davidson & Associates
 Demornoy-Bonardi
 Diamond Antenna & Microwave Corp.
 FXR, Inc.
 Gorham Electronics-Div.-Gorham Mfg. Co.
 Kellogg Switchboard & Supply Co., Communications
 Div.-IT&T Corp.
 Lieco, Inc.
 Meridian Metalcraft, Inc.
 Microwave Associates, Inc.
 Motorola, Inc.

Narda Microwave Corp., The
 Omega Labs, Inc.
 Specialty Electronics Development Corp.
 Sylvania Electronic Systems, Div.-Sylvania Electric
 Products Inc.
 Tronco Products, Inc.
 Victor R. F. & Microwave Co.
 Wheeler Laboratories, Inc.

KEYERS

ACF Industries Inc.
 ASCOP Div., Electro-Mechanical Research, Inc.
 Applied Electronics Corp. of N. J.
 Barker Sales Co.
 Bruno-New York Industries Corp.
 Dorsett Electronics Labs., Inc.
 Dynatronics, Inc.
 Electromatcon Co., Div.-Del Mar Engrg. Labs.
 GPL Div.-General Precision, Inc.,
 Gates Radio Co.
 General Devices, Inc.
 General Instrument Corp., Defense & Engrg. Pro-
 ducts Group.
 Jordan Electronics, Div.-Victoreen Instrument Co.
 I & R Mfg. Co.
 Litton Industries, Maryland Div.
 Motorola, Inc.
 National Co., Inc.
 Northrop Corp.
 Production Research Corp., Sub.-Radio Condenser
 Co.
 Radalab Inc.
 Radar Relay, Inc.
 Radio Receptor Co., Inc., Sub.-General Instrument
 Corp.
 Small Motors Inc.
 Technical Materiel Corp., The
 Telechrome Mfg. Corp.
 Telectro Industries Corp.
 Texas Instruments Inc.
 Trepac Corp. of America
 United Control Corp.
 Virginia Electronics Co., Inc.
 Winder Aircraft Corp. of Florida

KEYERS & COUPLERS

Electromatcon Co., Div.-Del Mar Engrg. Labs.
 GPL Div.-General Precision, Inc.
 Litton Industries, Maryland Div.
 National Co., Inc.
 Northrop Corp.
 Technical Materiel Corp., The
 Telectro Industries Corp.
 Trepac Corp. of America
 Winder Aircraft Corp. of Florida

KEYS & CODING EQUIPMENT

Alden Products Co.
 Applied Electronics Corp. of N. J.
 Barker Sales Co.
 GPL Div.-General Precision, Inc.
 Gates Radio Co.
 Molded Insulation Co.
 Motorola Inc.
 National Co., Inc.
 Production Research Corp., Sub.-Radio Condenser
 Co.
 Radalab Inc.
 Soroban Engrg., Inc.
 Telechrome Mfg. Corp.

KILOVOLT METERS

Associated Research, Inc.
 Calvert Electronics Inc.
 Davenport Mfg. Co.
 Doystrom Inc., Weston Instruments Div
 Del Electronics Corp.
 Electro Instruments, Inc.
 Esterline-Angus Co., The
 General Electric Co., Apparatus Sales Div.
 Greibach Instruments Corp.
 Hommett-Mercury Rex Div.
 Meters Inc.
 Notional Electronics
 New England Scientific Instruments Co.
 Nilsson Electrical Lab., Inc.
 Peschel Electronics, Inc.
 Q. V. S. Inc.
 Radalab Inc.
 Rowson Electrical Instrument Co.
 Shallcross Mfg. Co.
 Wacline, Inc.

KITS

- a. Geiger Counter
- b. Modification
- c. Portable Lighting
- d. Test Equipment

Accessory Controls & Equipment Corp., d.
 Accessory Products Co., Div.-Textron Inc., d.
 Aeroflex Labs. Div., Aeroflex Corp., d.
 Aero-Test Equipment Co., Inc., d.
 Allied International Corp., c, d.
 Anchor Metal Spinning Co., The, c.
 Aero-Firecol Co. Inc., Sub.-The Aero Equip. Corp., d.
 Bard-Atomic, Inc., a, d.
 Bendix Aviation Corp., Cincinnati Div., a, b, d.
 Benson Mfg. Co., b.
 Bernco Engr. Corp., d.
 A. Biederman, Inc., d.
 Bruno-New York Industries Corp., d.
 Budd Lewyt Electronics, Inc., b.
 Carborundum Co., Refractories Div., d.
 Chance Vought Aircraft, Inc., b, d.
 Cornelius Co., The, Aero Div., b.
 Custom Component Switches Inc., d.
 Dejur-Amsco Corp., Electronic Sales Div., a.
 Eastern Specialty Co., The, d.
 Electro Products Labs., Inc., d.
 Electronic Measurements Corp., d.
 *ENGIS EQUIPMENT CO., d.
 FXR, Inc., d.
 Flight Refueling, Inc., b, d.
 General Electric Co., d.
 General Instrument Corp., Defense & Engrg. Products
 Group, b.
 Good Electronic Corp., b.
 Gordon Enterprises, c, d.
 Grimes Mfg. Co., c.
 Hammett-Mercury Rex Div., c, d.
 Herlo Corp., d.
 E. Vernon Hill & Co., d.
 *HORKEY-MOORE ASSOCIATES, SUB-HOUSTON
 FEARLESS CORP., d.
 Interstate Electronics Corp., a.
 Kahn & Co., Inc., d.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., b.
 Lotstrand Co., The, c.
 Lycoming Div., Avco Corp., d.
 Madigan Corp., b, d.
 Magnoflux Corp., Sub.-General Mills, Inc., d.
 *MARTIN CO., THE, DENVER DIV., d.
 W. L. Moxson Corp., The, b.
 Millipore Filter Corp., d.
 Minneapolis Honeywell Regulator Co., Missile
 Equipment Div., d.
 George I. Nankervis Co., d.
 Peco Electronics Co., Inc., d.
 Piaszek Aircraft Corp., a.
 Pioneer Industries Div., Almor York Co. Inc., b, d.
 Pre-Fite Industries Corp.-Sub. Avco Mfg. Corp., d.
 REF Mfg. Corp., d.
 Radalab Inc., d.
 Radio Receptor Co., Inc., Sub.-General Instrument
 Corp., b.
 Republic Mfg. Co., d.
 Reverse Corp. of America, Sub., Neptune Meter Co.,
 d.
 Richmond, Inc., d.
 Solar Aircraft Co., d.
 Specialties, Inc., b.
 Specialty Electronics Development Corp., b, c.
 State Testing Laboratory Inc., d.
 Sun Electric Corp., Aeronautical Div., d.
 TRG, Inc., a.
 Telechrome Mfg. Corp., a, b.
 Telectro Industries Corp., a.
 Teklor, Inc., b.
 Tober Electronic Corp., b.
 United Industries, Inc., a.
 United Mfg. Co., Div., The W. L. Moxson Corp., d.
 U. S. Science Corp., Div.-Topp Industries, Inc., d.
 Winder Aircraft Corp. of Florida, b, c, d.
 Wolverine Diesel Power Co., c.

LACQUERS

American Products Mfg. Co.
 Arco Co., The
 Avondale Co., The
 Better Finishes & Coatings Inc.
 Borden Chemical Co.
 Dennis Chemical Co.
 E. I. Du Pont de Nemours & Co. Inc.
 Felton-Sibley & Co., Inc.
 Hastings Plastics, Inc.
 Krylon, Inc.
 Moos & Waldstein Co.
 Marblatte Corp., The
 Metal & Thermit Corp.
 Micro-Circuits Co.
 Midland Industrial Finishes Co.
 C. P. Moyen Co.
 Noz-Dar Co.
 Roffi & Swanson, Inc.
 Silicones Div.-Union Carbide Corp.
 Spraylort Corp.
 Stondard-Tach Chemicals, Inc.
 Thompson & Co.

United States Plywood Corp.
Vorac Co., The
Wasley Products, Inc.

LADDERS, FUELING

Alod Aluminum Ladder Corp.
Atlas Industrial Corp.
Beacon Steel Corp.
Bil-Jac Inc.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Kellelt Aircraft Corp.
Pry Welding & Mfg., Inc.
South River Metal Products Co., Inc.
Waco Aircraft Co.
Wells Industries Corp.

LAMINATES

Agricultural Aviation Engineering Co. Inc.
Allied Engraving & Stamping Co.
Allied Plastics Supply Corp.
American Printed Circuits Co., Inc.
Atkins & Merrill, Inc.
L. J. Barwood Mfg. Co. Inc.
Bjorksten Research Labs. for Industry, Inc.
Bridgeport Brass Co.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Clevite Ordnance Div., Clevite Corp.
Continental Diamond Fibre Corp.
E. I. Du Pont de Nemours & Co., Inc.
Duralith Corp.
Eljay Corp.
Emerson Plastics Corp.
Fibercraft, Inc.
Food Machinery & Chemical Corp.-Dapon Dept.
Food Machinery & Chemical Corp.-Epoxy Dept.
Formica Corp.
Franklin Fibre-Lamitex Corp.
General American Transportation Corp.
General Plastics Corp.
Goodyear Aircraft Corp.
Grant-Lehr Corp.
Haskelite Mfg. Div.-Evans Products Co.
Hays Mfg. Co.
Heil Process Equipment Corp.
Insulation Mfrs. Corp.
Laminated Shim Co., Inc.
Lantex Industries Inc.
Lunn Laminates, Inc.
Met-L-Wood Corp.
Mica Corp.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Mico Instrument Co.
***MINNESOTA MINING & MFG. CO.**
Narmco Mfg. Co.
Narmco Materials Div., Narmco Industries, Inc.
National Vulcanized Fibre Co.
Olin Mathieson Chemical Corp., N. Y.
Olympic Plastics Co., Inc.
Owens-Corning Fiberglas Corp.
Penn Fibre & Specialty Co., Inc.
Plastic Age Sales, Inc.
Prewitt Aircraft Co.
Raybestos-Manhattan Inc.
Rogers Corp.
St. Regis Paper Co., Panelyte Div.
Sierracin Corp., The
Sillcocks-Miller Co.
Swedlow Inc.
Synthane Corp.
Taylor Fibre Co.
H. I. Thompson Fiber Glass Co.
Tingstol Co.
E. F. Twamey Co., Inc.
United States Plywood Corp.
United States Rubber Co.
Virginia Plak Co.
Westinghouse Electric Corp.
Westinghouse Electric Corp., Micarta Div.
Young Development Div., Hercules Powder Co.

LAMINATIONS, TRANSFORMER

Allen Electric & Equipment Co.
American Printed Circuits Co., Inc.
Communication Accessories Co.
G-L Electronics Co., Inc.
Industrial Equipment Div., Baldwin Lima Hamilton Corp.
Magnetic Metals Co.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Squiers Gage Co.
Standard Electronics Div.-Reeves Instrument Corp.

LAMINATORS, PLASTIC HIGH PRESSURE

Allied Engraving & Stamping Co.
Allied Plastics Supply Corp.
American Printed Circuits Co., Inc.
Arrowhead Products, Div.-Federal-Magul-Bower Bearings Inc.
Barwood Mfg. Co. Inc.

Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
California Plasteck Inc.
Continental Diamond Fibre Corp.
Dayton Aircraft Products, Inc.
Emelaid Co., Inc., The
Emerson Plastics Corp.
Eubanks Industries, Inc.
Fabrican Corp.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Farley & Loetscher Mfg. Co., Plastics Div.
Fibercraft, Inc.
Formica Corp.
Franklin Fibre-Lamitex Corp.
General Plastics Corp.
Grant-Lehr Corp.
Hays Mfg. Co.
Insulation Mfrs. Corp.
Lam-Ply, Inc.
Lantex Industries Inc.
Lone Star Plastics Co. Inc.
Mica Corp.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
***MINNESOTA MINING & MFG. CO.**
C. P. Mayen Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Olympic Plastics Co., Inc.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Prewitt Aircraft Co.
Raybestos-Manhattan, Inc.
Rogers Corp.
Russell Mfg. Co.
St. Regis Paper Co., Panelyte Div.
H. M. Scott Co., The
Sierracin Corp., The
Sillcocks-Miller Co.
Spaulding Fibre Co., Inc.
Stevens Products, Inc.
Swedlow Inc.
Synthane Corp.
Taylor Fibre Co.
Tetrafluor, Inc.
H. I. Thompson Fiber Glass Co.
United States Chemical Milling Corp.
United States Plywood Corp.
Virginia Plak Co.
Westinghouse Electric Corp.
Westinghouse Electric Corp., Micarta Div.

LAMPS, INFRARED

Aerolux Light Corp.
Eagle Electric Mfg. Co. Inc.
Engelhard Industries, Inc.
Mistella Infra-Red Co., Inc.
Pioneer Industries Div., Almar-York Co. Inc.
Radiant Lamp Corp.
Research, Inc.
Taber Electronic Corp.
Westinghouse Electric Corp.

LAMPS, INSPECTION

Art Specialty Co.
Blowers Inc.
Cartriseal Corp.
Chicago Miniature Lamp Works
Eagle Electric Mfg. Co. Inc.
Engelhard Industries, Inc.
International Electric Industries, Inc.
Magnetflux Corp., Sub.-General Mills, Inc.
Manhattan Lighting Equipment Co., Inc.
National Ultrasonic Corp.
Research, Inc.
Shannon Luminous Mat., Affiliate-Curtiss-Wright, Princeton Div.
Strat-O-Seal Mfg. Co.
Westinghouse Electric Corp.

LAMPS, PROJECTION

***ENGIS EQUIPMENT CO.**
Gordon Enterprises
Manhattan Lighting Equipment Co., Inc.
Radiant Lamp Corp.
Westinghouse Electric Corp.

LANDING AIDS, ELECTRONIC

Aeronca Mfg. Corp.-Aerospace Div.
Bendix Aviation Corp.
Blonder-Tongue Labs. Inc., Special Products Div.
Collins Radio Co.
Decker Corp., The
Emertron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Fairfield Engrg. Corp.
Gillfillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.

Intercontinental Electronics Corp.
Leair, Inc.
Litton Industries, Maryland Div.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
*Servomechanisms, Inc.
Stramberg-Carlson Div.-General Dynamics Corp.
TRG, Inc.
Western Gear Corp.-Precision Products Div.
Wickes Engrg. & Construction Co.

LANDING GEAR ASSEMBLIES

***AMERICAN STEEL FOUNDRIES, HAMMOND DIV.**
Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Binkley Co., The
A. M. Myers Co.
Colonial Aircraft Corp.
Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co.
Eastern Rotorcraft Corp.
Electrol Inc.
Fenn Mfg. Co., The
Hydra-Power Corp.
Kanarr Corp.
Kemp Aero Products
Lycoming Div., Avco Corp.
Menasco Mfg. Co.
Ozone Metal Products Corp.
Peacock Engrg. & Mfg. Co.
Pryor Mfg. Co.
Sargent Engrg. Corp.
Simmonds Aerocessories, Inc.
Superior Industrial Machine Co.

LANDING SYSTEMS, INSTRUMENT

Allied International Corp.
Bendix Aviation Corp.
A. Biederman, Inc.
Broadview Research Corp.
Cameralex Div., The, Federal Mfg & Engrg. Corp.
Collins Radio Co.
Consolidated Controls Corp.
Daystrom Inc., Transicoid Div.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
General Instrument Corp., Defense & Engrg. Products Group
Huyck Systems Co.
ITT Federal Div., International Telephone & Telegraph Corp.
Leair, Inc.
Litton Industries, Maryland Div.
Madigan Corp.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola, Inc.
Radio Condenser Co.
***RADIO CORP. OF AMERICA**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Stramberg-Carlson Div.-General Dynamics Corp.
TRG, Inc.
Western Gear Corp.-Precision Products Div.

LATCHES

Burklyn Co.
Camloc Fastener Corp.
Components Corp.
George E. Harris & Co., Inc.
Hartwell Aviation Supply Co.
Henry & Miller Industries, Inc.
Walter K. Jaras Aircrafters
Langley Corp.
REF Mfg. Corp.
Richards-Wilcox Mfg. Co.
Simmonds Aerocessories, Inc.
Southco Div., South Chester Corp.
United States Chemical Milling Corp.
United Supply Co.
Vlier Engrg. Corp.
Waldick Engrg. Co.

LATHES, BENCH

Clausing Div.-Atlas Press Co.
Dennis Chemical Co.
Hanson-Van Winkle-Munning Co.
Carl Hirschmann Co., Inc.
R. K. Leblond Machine Tool Co.
Louis Levin & Son, Inc.
Miller Falls Co.
Rivett Lathe & Grinder Inc.
Joseph T. Ryerson & Son, Inc.
Stark Tool Co.
U. S. Industries, Inc.

LAUNCHERS, AIRBORNE ROCKET

American Machine & Foundry Co.

American Machine & Foundry Co., Government Products Group
 American Machine & Foundry Co., Government Products, N. Y.
 American Machine & Foundry Co., Greenwich Engrg. Div.
 Armament Div.-Universal Match Corp.
 Beacon Steel Corp.
 Beckman & Whitley, Inc., Missile Products Div.
 Beech Aircraft Corp.
 Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
 Bermite Powder Co.
 Breeze Corporations, Inc.
 Broadview Research Corp.
 A. M. Byers Co.
 Calcor Corp.
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Columbia Research & Development Corp.
 Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co.
 Cromer Mfg. & Engrg., Inc.
 Dayton Aircraft Products, Inc.
 Delta Corp.
 Douglas Aircraft Co., Inc.
 Edo Corp.
 Food Machinery & Chemical Corp., Ordnance Div.
 General Electric Co., Missile & Space Vehicle Dept.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hamilton Standard
 Intercontinental Mfg. Co., Inc.
 Interstate Engrg. Corp.
 Jack & Heintz, Inc.
 Link-Belt Co.
 Mechanics Research Div., American Machine & Foundry Co.
 Narmco Mfg. Co.
 Northeast Metals Industries, Inc.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Pastushin Industries, Inc.
 Portland Copper & Tank Works Inc.
 Rimak, Inc.
 Royal Jet, Div.-Royal Industries, Inc.
 Stamping Div.-Rockwell Standard Corp.
 Standard Armament Inc.
 Stratof, Div.-Fairchild Engine & Airplane Corp.
 Talley Corp., The
 Temco Aircraft Corp.
 Transco Products, Inc.
 Twin Coach Co., Aircraft-Missiles
 U. S. Industries, Inc.
 Wayne Pump Co., The, Div.-Symington Wayne Corp.
 Welded Construction Inc.
 Wells Industries Corp.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.
 Young Development Div., Hercules Powder Co.

LAUNCHERS, GROUND BASED MISSILES

ACF Electronics Div., ACF Industries Inc.
 ACF Industries Inc.
 Aero-Test Equipment Co., Inc.
 American Machine & Foundry Co.
 American Machine & Foundry Co., Government Products Group
 American Machine & Foundry Co., Government Products, N. Y.
 American Machine & Foundry Co., Greenwich Engrg. Div.
***AMERICAN STEEL FOUNDRIES, HAMMOND DIV.**
 Arde-Portland, Inc.
 Armament Div.-Universal Match Corp.
 Baker Industrial Trucks, Div.-Otis Elevator Co.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
***BEAVER PRECISION PRODUCTS INC.**
 Beckman & Whitley, Inc., Missile Products Div.
 Beech Aircraft Corp.
 Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
 Bermite Powder Co.
 Bethlehem Steel Co.
 Blow Knox Equipment, Div.-Blow-Knox Co.
 E. W. Bliss Co.
 Broadview Research Corp.
 Budd Co., The
 A. M. Byers Co.
 Calcor Corp.
 Caterpillar Tractor Co., Defense Products Dept.
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co.

Crane Co., Special Products Div.
 Cromer Mfg. & Engrg., Inc.
 Delta Corp.
 Douglas Aircraft Co., Inc.
 FWD Corp.
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Food Machinery & Chemical Corp., Ordnance Div.
 Fuehaufl Trailer Co., Military Equipment Div.
 Gar Wood Industries Inc.
 General Electric Co., Missile & Space Vehicle Dept.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 General Electric Co., Ordnance Dept.
 Goodyear Aircraft Corp.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hamilton Standard
 George E. Harris & Co., Inc.
 Haefner Corp.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Jack & Heintz, Inc.
 Jenco Aircraft Corp., Sub-Fairchild Engine & Airplane Corp.
 Kellett Aircraft Corp.
 Link-Belt Co.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lofstrand Co., The
 Lyncoach & Truck Co. Inc.
 W. L. Maxson Corp., The
 McCathron Boiler Works Co., Inc.
 McDowell-Wellman Companies, The
 McGregor Mfg. Corp.
 Napier Engines Inc.
 Narmco Mfg. Co.
 Neway Equipment Co.
 Northeast Metals Industries, Inc.
 Northrop Corp.
 Nortronics, Div.-Northrop Corp.
 Opelika Welding, Machine & Supply Inc.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Otis Elevator Co., Defense & Industrial Div.
 Portland Copper & Tank Works Inc.
***RADIO CORP. OF AMERICA**
 Republic Aviation Corp., Missile Systems Div.
 Rimak, Inc.
 Sancer Corp.
 Stainless Inc.
 Stamping Div.-Rockwell Standard Corp.
 Talley Corp., The
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Temco Aircraft Corp.
 Thompson Ramo Wooldridge Inc.
 Trailmobile Inc.
 Twin Coach Co., Aircraft-Missiles
 U. S. Industries, Inc.
 United States Steel Corp.
 Vickers, Inc., Mich.
 Ward LaFrance Truck Corp.
 Wayne Pump Co., The, Div.-Symington Wayne Corp.
 Welded Construction Inc.
 Wells Industries Corp.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.
 Wickfield, Inc.
 Winder Aircraft Corp. of Florida
 Young Development Div., Hercules Powder Co.

LAUNCHING PLATFORMS

Aero-Test Equipment Co., Inc.
 American Machine & Foundry Co.
 American Machine & Foundry Co., Government Products Group
 American Machine & Foundry Co., Government Products, N. Y.
 American Machine & Foundry Co., Greenwich Engrg. Div.
***AMERICAN STEEL FOUNDRIES, HAMMOND DIV.**
 Armament Div.-Universal Match Corp.
 Baldwin-Lima-Hamilton Corp., Electronics & Instrumentation Divs.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
 Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
 Bethlehem Steel Co.
 Bil-Jax Inc.
 Broadview Research Corp.
 Budd Co., The
 A. M. Byers Co.
 Calcor Corp.
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co.

Crane Co., Special Products Div.
 Curtiss-Wright Corp., Metals Processing Div.
 Douglas Aircraft Co., Inc.
 Food Machinery & Chemical Corp., Ordnance Div.
 Fuehaufl Trailer Co., Military Equipment Div.
 Gar Wood Industries Inc.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hamilton Standard
 Harbison-Walker Refractories Co.
 George E. Harris & Co., Inc.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Industrial Tools Mfg. Corp., Sub-Pendleton Tool Industries, Inc.
 Kellett Aircraft Corp.
 Link-Belt Co.
 Lofstrand Co., The
 Lyncoach & Truck Co. Inc.
 McCathron Boiler Works Co., Inc.
 Napier Engines Inc.
 Northeast Metals Industries, Inc.
 Nortronics, Div.-Northrop Corp.
 Opelika Welding, Machine & Supply Inc.
 Pacific Coast Engrg. Co.
 Portland Copper & Tank Works Inc.
 Regent Jack Mfg. Co., Inc.
 Republic Aviation Corp., Missile Systems Div.
 Rimak, Inc.
 Sancer Corp.
 Stainless Inc.
 Twin Coach Co., Aircraft-Missiles
 U. S. Pipe & Foundry Co., Steel & Tubes Div.
 Waca Aircraft Co.
 Wayne Pump Co., The, Div.-Symington Wayne Corp.
 Wells Industries Corp.
 Western Gear Corp.-Precision Products Div.
 Wickfield, Inc.

LEAD & ALLOYS

Accurate Specialties Co. Inc.
 Alloys Unlimited Inc.
 Alpha Metals, Inc.
 American Smelting & Refining Co.
 Bar-Ray Products, Inc.
 Belmont Smelting & Refining Works, Inc.
 Bow Solder Products Co., Inc.
 Custom Tool & Mfg. Co.
 Division Lead Co.
 Eagle-Picher Co., The
 Eutectic Welding Alloys Corp.
 Hormon, Lichtenstein & Co.
 Marris P. Kirk & Son, Inc.
 Nuclear Development Corp. of America
 Pacific Coast Engrg. Co.
 Plastics Distributor of New England
 Portland Copper & Tank Works Inc.
 Ray Proof Corp.
 United Mineral & Chemical Corp.
 Var-lac-Oid Chemical Co.

LEADS, TEST

Aerolite Electronics Corp.
 Amatam Electronic Hardware Co. Inc.
 American Smelting & Refining Co.
 Anchor Specialty Mfg. Co. Inc.
 Associated Engr. Corp.
 J. T. Baker Chemical Co.
 Bendix Aviation Corp., Cincinnati Div.
 Birnboch Radio Co., Inc.
 Bud Radio, Inc.
 Eastern Specialty Co., The
 G-C Electronics Co.
 General Radio Co.
 Hallett Mfg. Co.
 JFD Electronics Corp.
 Keystone Electronics Corp.
 Lab-Tronics, Inc.
 Chester Morton Electronics Corp.
 Paul Nurches Co.
 Pomona Electronics Co., Inc.
 Schaffer Air Industries, Inc.
 Simpson Electric Co.
 Skytronics, Inc.
 Sunshine Scientific Instrument

LENSES

- a. Infrared
- b. Inspection
- c. Motion Picture
- d. Optical
- e. RF
- f. Zoom

***AEROJET-GENERAL CORP., a.**
 Ainslie Corp., e.
 Allegheny Electronic Chemicals Co., a.
 American Optical Co., a thru f.
 American Optical Co., Instrument Div., a, d.

*ASKANIA-WERKE, U. S. BRANCH OFFICE, d.
 Semon Boche & Co., b, c, d.
 Bausch & Lomb Optical Co., a thru d, f.
 Broodview Research Corp., a, d, e.
 CBS Laboratories, Div.-Columbia Broadcasting System, d.
 Cameraflex Div., The Federal Mfg. & Engrg. Corp.,
 *CONSOLIDATED ELECTRODYNAMICS CORP., a, d.
 Corning Glass Works, a, d.
 Davidson Optronics, Inc., a, d.
 Decker Corp., The, d.
 Dell Optics Co., Ltd., d.
 Diamond Antenna & Microwave Corp., e.
 Don-lan Electronics Inc., e.
 Eastman Kodak Co., a, c, d, f.
 Elgeet Optical Co., Inc., c, f.
 Emerson & Cuming, Inc., e.
 Engelhard Industries, Inc., d.
 *ENGIS EQUIPMENT CO., d.
 J. W. Fecker Div., American Optical Co., a, b, d.
 Fenske, Fedrick & Miller Inc., d.
 Gordon Enterprises, a, c, d, f.
 W. & L. E. Gurley, d.
 Hammett-Mercury-Rex Div., d.
 Infrored Industries, Inc., a.
 Jorrell-Ash Co., d.
 Hugo P. Keller, Jr., a.
 Kollmorgen Optical Corp., a thru d.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc., a, d.
 Kopp Glass, Inc., a, b, f.
 Lancaster Glass Corp., b, d.
 Lear, Inc., a.
 D. B. Milliken Co., c.
 Mitchell Camera Corp., c.
 Networks Electronic Corp., a.
 Northrop Corp., a, d.
 Nortronics, Div.-Northrop Corp., d.
 Pacific Optical Corp., Div.-Chicago Aerial Industries, a, c, d.
 Patterson Moos Research, Div.-Leeson Corp., a.
 Perkin-Elmer Corp., a, d, f.
 Precision Lapping Co. Inc., a, d.
 *RADIO CORP. OF AMERICA, a, e.
 Rantec Corp., e.
 Republic Lens Co., Inc., a thru f.
 Santa Barbara Research Center, a.
 Scientific Atlanta, Inc., e.
 Sellstrom Mfg. Co., a, d.
 Semimetals, Inc., a.
 Singer Military Products Div.-The Singer Mfg. Co., a.
 Spectrocoat, Inc., a.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., e.
 Sterling Glass Corp., b.
 Tomar Electronics, Inc., e.
 Texas Instruments Inc., a, d.
 Textstar Plastics, Div.-The Textstar Corp.
 Thermal American Fused Quartz Co., Inc., a, d.
 Tinsley Lobs, Inc., a thru d.
 Traid Corp., c, f.
 U. S. Industries, Inc., a.
 United Supply Corp., a.
 Valpey Crystal Corp., a, d.
 Vicon Corp. Sub-Insul-B-Corp., d, f.
 Viewlex, Inc., d, f.
 Waterbury Companies, Inc., d.
 Wollensok Optical Co., a thru f.
 Zenith Optical Laboratory, a, d.
 Zoomar Inc., a thru d, f.

LENSES, PRISMS, MIRRORS

American Optical Co.
 American Optical Co., Instrument Div.
 American Optical Co., Safety Products Div.
 Semon Boche & Co.
 Bausch & Lomb Optical Co.
 *CONSOLIDATED ELECTRODYNAMICS CORP.
 Davidson Optronics, Inc.
 Dell Optics Co., Ltd.
 Eastman Kodak Co.
 Edmund Scientific Co.
 *ENGIS EQUIPMENT CO.
 J. W. Fecker Div., American Optical Co.
 Fenske, Fedrick & Miller Inc.
 Fish-Schurman Corp.
 Gordon Enterprises
 W. & L. E. Gurley
 Hammett-Mercury-Rex Div.
 Jorrell-Ash Co.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
 Kopp Glass, Inc.
 Lancaster Glass Corp.
 D. B. Milliken Co.
 Northrop Corp.
 Nortronics, Div.-Northrop Corp.
 Pacific Optical Corp., Div.-Chicago Aerial Industries
 Pacific Universal Products Corp.
 Perkin-Elmer Corp.
 Precision Lapping Co. Inc.

*RADIO CORP. OF AMERICA
 Republic Lens Co., Inc.
 Seiscor, Div.-Seismograph Service Corp.
 Sterling Gloss Corp.
 TRG, Inc.
 Texas Instruments Inc.
 Thermal American Fused Quartz Co., Inc.
 Tinsley Lobs, Inc.
 U. S. Industries, Inc.
 United Supply Co.
 Valpey Crystal Corp.
 Wollensok Optical Co.
 Zenith Optical Laboratory

LIGHT SUPPLIES

Aviation Textile Associates
 *ENGIS EQUIPMENT CO.
 Fenske, Fedrick & Miller Inc.
 Hammett-Mercury-Rex Div.
 Lear, Inc.
 Manhattan Lighting Equipment Co., Inc.
 Merix Chemical Co.
 Pyle-National Co., The

LIGHTING, COLD CATHODE

Acme Electric Corp.
 American Speedlight Corp.
 *ENGIS EQUIPMENT CO.
 Hammett-Mercury-Rex Div.
 Lear, Inc.
 Manhattan Lighting Equipment Co., Inc.
 Julian A. Mc Dermott Corp.

LIGHTING EQUIPMENT, EMERGENCY

Acme Electric Corp.
 American Optical Co., Safety Products Div.
 Anchor Metal Spinning Co., The
 Automatic Switch Co.
 Blowers Inc.
 Bogue Electric Mfg. Co.
 Consolidated Diesel Electric Corp.
 General Scientific Equipment Co.
 Grimes Mfg. Co.
 Hammett-Mercury-Rex Div.
 Homelite, Div.-Textron Inc.
 International Ferment Machinery Co., Inc.
 Jeto, Inc.
 Lincoln Electric Co., The
 Lofstrand Co., The
 Manhattan Lighting Equipment Co., Inc.
 Julian A. Mc Dermott Corp.
 Pasco Products Div.-Borg-Worner Corp.
 Phoenix Products Co.
 Pyle-National Co., The
 Ready-Power Co., The
 Thermal Dynamic Products Div.-Waltham Precision Instrument Co.
 United States Radium Corp.
 Winpower Mfg. Co.
 Wolverine Diesel Power Co.

LIGHTING EQUIPMENT, PRESET PANELS

Acme Electric Corp.
 American Machine & Foundry Co., Government Products Group
 Bendix Aviation Corp.
 California Plasteck Inc.
 Fouch Electric Mfg. Co., Inc.
 Kolton Electric Mfg. Co.
 Lear, Inc.
 Simmonds Aerocessories, Inc.
 Superior Electric Co., The
 United States Radium Corp.
 Westinghouse Electric Corp.

LIGHTING EQUIPMENT, TOWER

Allied International Corp.
 Automatic Switch Co.
 Hammett-Mercury-Rex Div.
 Hughey & Phillips, Inc.
 Joy Mfg. Co.
 Manhattan Lighting Equipment Co., Inc.
 Julian A. Mc Dermott Corp.
 Pyle-National Co., The
 Tabet Mfg. Co., Inc.
 Tucson Instrument Corp.
 Wind Turbine Co.
 Wolverine Diesel Power Co.

LIGHTNING ARRESTERS

Airtron, Div.-Litron Industries
 American Missile Products Co., Inc.
 Brach Mfg. Corp.
 Corning Glass Works
 Garde Mfg. Co.
 General Electric Co., Apparatus Sales Div.
 Lehigh Structural Steel Co.
 Line Material Industries-Mc Graw-Edison Co.
 Manhattan Lighting Equipment Co., Inc.

*RADIO CORP. OF AMERICA
 Westinghouse Electric Corp.

LIGHTS

a. Arc
 b. Black
 c. Dial, Panel & Pilot
 d. Flood
 e. Fluorescent
 f. Glow
 g. Incandescent
 h. Indicator
 i. Jewel Pilot
 j. Miniature
 k. Neon Test
 l. Photoelectric Source
 m. Signal
 n. Spot
 o. Stroboscopic Source

Aerolite Electronics Corp., c, i.
 Aerolux Light Corp., b, f, k, n, a.
 Alden Products Co., c, f thru j, k.
 Amatom Electronic Hardware Co. Inc., c.
 American Speedlight Corp., a.
 Anglo Corp., e, m, a.
 Anchor Metal Spinning Co., The, g, n.
 Associated Engineers, Inc., c, h, i.
 Aviation Textile Associates, c, h, i, m, n.
 Bendix Aviation Corp., e.
 Brunswick Instruments, k.
 Cable Electric Products Inc., j, m, n.
 California Plasteck Inc., c, f.
 Carling Electric, Inc., c, h thru k.
 Chadwick-Helmuth Co., a.
 Chicago Miniature Lamp Works, c, f, g, h, j, k, m, n.
 Circo Equipment Co., b.
 Circo Ultrasonic Corp., b.
 Control Sw. Div. Controls Co. of America, c, e, h, j, k, m.
 Joe Davidson & Associates, o.
 Dejur-Amsco Corp., Electronic Sales Div., l.
 Diolight Corp., c, f thru k, m.
 Dmeter Mfg. Co., l.
 Duro Plastics of N. Y., Inc., c.
 Eagle Electric Mfg. Co. Inc., c, k.
 Edgerton, Gernsmausen & Grier, Inc., o.
 Edmund Scientific Co., o.
 Eldemo Corp., c, f, h.
 Electronic Brazing Co., o.
 Electronic Control Corp., l.
 *ENGIS EQUIPMENT CO., l.
 Federal Screw Products Inc., c, i.
 G-C Electronics Co., i, k, m.
 General Electric Co., Apparatus Sales Div., d, l.
 General Radio Co., o.
 Glar-Ban Corp., c, g thru j, k.
 Gordon Enterprises, a, b, d, f, k, l, n.
 Grimes Mfg. Co., c, d, e, g thru j, m, n.
 Hammett-Mercury-Rex Div., d, e, g.
 Holophane Co., Inc., e, g, n.
 Industrial Devices, Inc., c, f, h, i, j.
 Industrial Electronic Engineers, Inc., h.
 E. F. Johnson Co., c, i, j.
 Joy Mfg. Co., d.
 Koy Electric Co., e, h, j.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc., c, l.
 Kopp Glass, Inc., o thru d, g, h, i, m, n.
 Lear, Inc., e, f, m.
 Leecraft Mfg. Co., Inc., c, h, j, k, m.
 Line Material Industries-Mc Graw-Edison Co., d, e, g, l.
 Magnaflex Corp., Sub-General Mills, Inc., b.
 Manhattan Lighting Equipment Co., Inc., a thru k, m, n.
 Marco Industries Co., c, f thru k.
 Master Specialties Co., c, h, j.
 Minneapolis-Honeywell Regulator Co.-Aeronautical Div., a.
 National Ultrasonic Corp., b.
 Phoenix Products Co., d, n.
 Photobell Co., Inc., l.
 Radar Relay, Inc., h.
 Radiant Lamp Corp., d, g, n.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., c, h.
 Shannon Luminous Mat., Affiliate-Curtiss-Wright, - Princeton Div., b.
 Simmonds Aerocessories, Inc., c.
 Specialties, Inc., h.
 Sun Electric Corp., Aeronautical Div., a.
 Thermal Dynamic Products Div.-Waltham Precision Instrument Co., a, d.
 Transistor Electronics Corp., c, h thru k, m.
 Tung-Sol Electric, Inc., c, f, h, j, l.
 Ultra-Violet Products, Inc., b.
 United States Radium Corp., c.
 Van Wagner Co., j.
 Vemaline Products Co., c, g thru j.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co., a.

Wells Industries Corp., I.
Western Coil & Electrical Co., a.
Westinghouse Electric Corp., a thru j, l, m, n.
Wollensak Optical Co., d, n.

LINERS

- a. Can
- b. Combustion Chamber
- c. Combustion Chamber, Gas
- d. Metal
- e. Rocket Engine
- f. Turbine Engine

A & E Metal Specialties Inc., d.
Aerocal Div., Aerona Mfg. Corp., d.
*AEROJET-GENERAL CORP., e.
Allison Div., General Motors Corp., a, b, c, f.
American Aluminum Co., a.
American Potash & Chemical Corp., National North-
ern Div., e.
American Rocket Co., e.
Ampco Metal, Inc., a.
Anchor Metal Spinning Co., The, d.
Arde-Portland, Inc., a thru f.
Associated Co., Inc., d.
Beacon Steel Corp., d.
Bemis Bro., Bag Co., a.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP., e.
Bestcraft Products Co. Inc., o.
Berleheim Steel Co., b, c, d.
J. Bishop & Co., Platinum Works, d.
S. Blackman, Inc., b thru f.
Brunswick Balke Collender Co., The, Defense Pro-
ducts Div., e.
A. M. Byers Co., e, f.
Carborundum Co., The, b, c, e, f.
Carborundum Co., Refractories Div., b, c.
Carborundum Metals Co., The, d.
Crane Co., Special Products Div., b, c, d, f.
Crystal-X Corp., a.
Custom Tool & Mfg. Co., d.
Delta Corp., b, c, e, f.
Fansteel Metallurgical Corp., d.
Farwell Metal Fabricating, d.
Fenn Mfg. Co., The, f.
Flight Refueling, Inc., d.
Garlock Packing Co., e.
General Electric Co., Missile & Space Vehicle Dept.,
Pa., d.
B. F. Goodrich Aviation Products, a, e.
Grand Central Rocket Co., e.
Guided Missile Div., The Firestone Tire & Rubber Co.,
e.
Hahn & Clay, d, e.
Henry & Miller Industries, Inc., d.
Hughes Tool Co., Aircraft Div., b, d, e.
Janitrol Aircraft Div., Midland-Ross Corp., a, b, d, f.
Kaiser Fleetwings, Inc., d.
C. B. Kaupp & Sons, Inc., a, c, d.
Kelsey-Hayes Co., d, e, f.
Kentucky Metal Products Co., b, c, e, f.
*LAVELLE AIRCRAFT CORP., b, d, f.
Lockheed Aircraft Corp., Missiles & Space Div., e.
Lofstrand Co., The, d.
Lone Star Plastics Co., Inc., e.
Lycoming Div., Avco Corp., c, e, f.
McGregor Mfg. Corp., a thru f.
Napier Engines Inc., a, b, c, f.
Nauvauk Chemical Div., U. S. Rubber Co., e.
Nooter Corp., d.
Norton Co., New Products Dept., b, e.
Olin Mathieson Chemical Corp., N. Y., d.
Olympic Plastics Co., Inc., b, e.
Phoenix Products Co., a, d, e, f.
Plastic Age Sales, Inc., e.
Portland Copper & Tank Works Inc., a thru f.
Pressed Steel Tank Co., b thru e.
Raybestos-Manhattan, Inc., b, e.
Edw. Renneburg & Sons Co., d.
Royal Jet, Div. Royal Industries, Inc., d.
Sillocks-Miller Co., a.
Solar Aircraft Co., b, d, f.
South Wind Div., Stewart Warner Corp., b.
Southwest Research Institute, b.
Structural Fibers, Inc., e, f.
Synthane Corp., e.
T. O. D. Mfg. Co., Inc., d.
Thermionic Aeronautical Div., b thru f.
Thiokol Chemical Corp., Hunter-Bristol Div., e.
H. I. Thompson Fiber Glass Co., b, e.
United States Rubber Co., b, c, e.
Western Pneumatic Tube Co., d.
Westinghouse Electric Corp., Micarta Div., b, e.
Yardley Plastics Co., e.
Young Development Div., Hercules Powder Co., b, e.

LINES, SLOTTED

Bendix Aviation Corp
Demoray Bonardi
Diamond Antenna & Microwave Corp

Emertlon, Sub-Emerson Radio & Phonograph Corp.
General Radio Co.
Hazeltine Electronics Div.-Hazeltine Corp.
Hewlett-Packard Co.
ITE Circuit Breaker Co., Special Products Div.
*KEARFOTT DIV., GENERAL PRECISION, INC.
Litton Industries, Maryland Div.
Nardo Microwave Corp., The
Omega Labs., Inc.
Polytechnic Research & Development Co., Inc.
*RADIO CORP. OF AMERICA
Sage Labs., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp.
TRG, Inc.
Tober Electronic Corp.
Victor R. F. & Microwave Co.
Wacline, Inc.
Waveline, Inc.

LINKS, ANTENNA

*ANDREW CORP.
Bendix Aviation Corp.
Chance Vought Aircraft, Inc.
Daystrom, Inc., Military Electronics Div.
Diamond Antenna & Microwave Corp.
Dorne & Margolin, Inc.
Dynatronics, Inc.
Emertlon, Sub-Emerson Radio & Phonograph Corp.
*EQUIPMENT DIV., RAYTHEON CO.
Gabriel Co., The, Gabriel Electronics Div.
ITE Circuit Breaker Co., Special Products Div.
Litton Industries, Maryland Div.
*MARTIN CO., THE, DENVER DIV.
Norrich Screw Machine Products
Radslab Inc.
*RADIO CORP. OF AMERICA
Stanley-Judd Div., The Stanley Works
Tamar Electronics, Inc.
Telerad Mfg. Corp.
Waveline, Inc.

LIQUID FUELS

Air Products, Inc.
Allied Chemical Corp., General Chemical Div.
American Rocket Co.
Cally Chemical Co.
Chlor-Alkali Div.-Food Machinery & Chemical Co.
Esso Standard, Div.-Humble Oil & Refining Co.
Food Machinery & Chemical Corp., Ordnance Div.
Linde Co., Div.-Union Carbide Corp.
Liquid Carbonic Div.-General Dynamics Corp.
Monsanto Chemical Co.
National Cylinder Gas, Div.-Chematron Corp.
Olin Mathieson Chemical Corp., N. Y.
Shell Chemical Co., Indsl. Chemical Div.
Southwest Research Institute

LIQUID LEVEL MEASURING DEVICES

Aerotec Industries Inc., Aircraft Equipment Div.
Airtarac
Aircraft Instruments Co.
Automation Products, Inc.
Bendix Aviation Corp.
Bendix Aviation Corp., Pioneer-Central Div.
Consolidated Vacuum Corp.
Deltron Inc.
Dynamic Controls Corp.
Flight Refueling, Inc.
General Electric Co., Apparatus Sales Div.
General Electric Co., Rocket Engine Section
General Radio Co.
Hagan Chemicals & Controls Inc.
Hoys Corp., The
Hughes Tool Co., Aircraft Div.
Industrial Instruments Inc.
Isotopes Specialties Co., Div.-Nuclear Corp. of
America
Kieley & Mueller, Inc.
Lear, Inc.
*WALLACE O. LEONARD, INC.
Liquidometer Corp., The
Minneapolis-Honeywell Regulator Co.-Aeronautical
Div.
Nardo Ultrasonics Corp., The
Oil-Rite Corp.
Photobell Co., Inc.
Protector Inc.
Radio Development & Research Corp.
Revere Corp. of America, Sub., Neptune Meter Co.
Robertshaw-Fullton Controls Co., A & I Div.
Rosemount Engrg. Co.
Milton Roy Co.
Roylyn Inc.
Servomechanisms, Inc.
Sierra-Schroeder Controls, Div.-Idaho Maryland
Mines Corp.
Simmonds Aeroaccessories Inc.
E. C. Smith Mfg. Co., Inc.
Southwest Research Institute

Texas Instruments Inc.
Trans-Sonics, Inc.
Trimount Instrument Co.
United Control Corp.
U. S. Sonics Corp.
Vickers, Inc., Mich.
Vinson Mfg. Co., Inc.
Wells Industries Corp.
Young Development Div., Hercules Powder Co.

LIQUID NITROGEN

Air Products, Inc.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Cryogenerators, Inc.
Holman Labs., Inc.
Linde Co., Div.-Union Carbide Corp.
Liquid Carbonic Div.-General Dynamics Corp.
National Cylinder Gas, Div.-Chematron Corp.

LIQUID OXYGEN

Air Products, Inc.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Consolidated Airborne Systems, Inc.
Cryogenerators, Inc.
Holman Labs., Inc.
Linde Co., Div.-Union Carbide Corp.
Liquid Carbonic Div.-General Dynamics Corp.
National Cylinder Gas, Div.-Chematron Corp.

LITHIUM

Alloys Unlimited Inc.
American Potash & Chemical Corp.
Bios Labs., Inc.
Bram Metallurgical Chemical Co.
*ENGIS EQUIPMENT CO.
Foote Mineral Co.
Lithium Corp. of America Inc., The Fulton-Irgon Div.
Olin Mathieson Chemical Corp., N. Y.
Semi-Elements, Inc.
TRG, Inc.
United Mineral & Chemical Corp.

LOAD CELLS

Aeroscience, Inc.
Baldwin-Lima-Hamilton Corp., Electronics & Instru-
mentation Divs.
Beacon Steel Corp.
Budd Co., The
Gilmore Industries, Inc.
Instrument Div., The Budd Co.
Kistler Instrument Corp.
Leach Corp.
Martin-Decker Corp.
Morrison Machine Co.
Piesack Aircraft Corp.
Revere Corp. of America, Sub., Neptune Meter Co.
Statham Instruments, Inc.

LOCATORS

a. Cable & Line Fault
b. Metal Flaw
c. Non-Metal Flaw
d. Open-Short
Associated Research, Inc., a.
James G. Biddle Co., a.
Branson Instruments, Inc., b, c.
Calvert Electronics Inc., a, d.
Delsen Corp., c.
J. W. Dice Co., b.
Dit-Mco, Inc., d.
Dytronics Co.
Industrial Instruments Inc., a.
Instrument Div., The Budd Co., b, c.
Leeds & Northrup Co., a, d.
Mechanics Research Div., American Machine & Foundry
Co., b.
Minneapolis-Honeywell Regulator Co., Missile Equip-
ment Div., a, d.
Muirhead Instruments Inc., a.
Nilsson Electrical Lab, Inc., a.
Peschel Electronics, Inc., a, d.
Philo Corp.-Govt & Industrial Group, a.
Shallcross Mfg. Co., a.
Sierra Electronic Corp., Div.-Philo Corp., a.

LOCKNUTS

Abbott Screw & Mfg. Co.
Aero Spares, Inc.
Air Hardware, Inc.
All Specs Corp.
American Standard Products, Inc.
Associated Engineers, Inc.
Autoscrew Co., Inc.
Aviation Textile Associates
Best Aircraft Corp.
Capital City Mfg. Co., Inc.
Carr Fastener Co., Div.-United-Carr Fastener Corp.
Collins Mfg. Corp.
R. C. Duda & Co.

Eaton Mfg. Co., Reliance Div.
Eljay Corp.
George K. Garrett Co., Inc.
Hammett-Mercury-Rex Div.
Hi-Shear Rivet Tool Co.
Jan Hardware Mfg. Co., Inc.
Walter K. Jaros Aircrafters
Keystone Bolt & Nut Corp.
Klincher Locknut Corp.
Link-Belt Co.
Mercury Air Parts Co., Inc.
National Screw & Mfg. Co., The
Norrich Screw Machine Products
Ohlson Empire Inc.
Precision Metal Products Co. Inc.
Rattan Mfg. Co., The
Republic Steel Corp.
SKF Industries, Inc.
Shur-Lok Corp.
Standard Pressed Steel Co.
Star Stainless Screw Co.
Thomas & Betts Co., Inc., The
Tinnerman Products, Inc.
Townsend Co., Cherry Rivet Div.
Vector Electronic Co., Inc.
Vlier Engrg. Corp.

Plastics Div.
Grafo Colloids Corp.
Gulf Oil Corp., Dept. DM
Halocarbon Products Corp.
R. M. Hollingshead Corp.
Imperial Oil & Grease Co., Inc.
Kono Labs.
Lockrey Co., The, Lubricants Div.
Mognus Chemical Co., Inc.
*MINNESOTA MINING & MFG. CO.
*MINNESOTA MINING & MFG. CO.-CHEMICAL
DIV.
New York & New Jersey Lubricant Co.
Olin Mathieson Chemical Corp., N. Y.
Parker Rust Proof Co.
Parker Seal Co., Div.-Parker-Hannifin Corp.
Protective Coatings, Inc.
Quietrol Co.
Silicone Products Dept., General Electric Co., Dept.
C.
Sinclair Refining Co.
Southwest Research Institute
Standard Oil Co. of Indiana
Var-loc-Oid Chemical Co.
White & Bagley Co., The

w. Marking
x. Metal Farming
y. Modular & Automatic Assembly
z. Photacopy & Whiteprint
a-1. Plastic Press
b-1. Riveting
c-1. Shack Testing
d-1. Soldering
e-1. Tube Manufacturing
f-1. Vibration Fatigue Testing
g-1. Weighing
h-1. Wire Stripping

ABA Tool & Die Co., j, l.
ACF Electronics Div., ACF Industries Inc., x, b-1, g-1.
ACF Industries Inc., x, b-1.
Abbot Screw & Mfg. Co., x, b-1.
Ackerman-Gould Co., Inc., w.
Acromark Co., The, w.
Aeroflex Labs. Div., Aeroflex Corp., f-1.
Aeroil Products Co., Inc., w.
Aeroprojects Inc., d-1.
Aeroscience, Inc., f-1, g-1.
Aero-Test Equipment Co., Inc., g.
Aircraft Tools, Inc., b-1.
All American Tool & Mfg. Co., f-1.
All Specs Corp., d-1.
Allison-Campbell Div., American Chain & Cable Co.,
Inc., a.
American Instrument Co., Inc., a.
American Machine & Foundry Co., Greenwich Engrg.
Div., h, y.
Anchor Specialty Mfg. Co., Inc., c-1, f-1.
R. B. Annis Co., c.
Apex Machine Co., w.
Arnold Magnetics Corp., h.
Associated American Winding Machinery Inc., f, h.
Associated Engrg. & Mfg. Corp., n, s, t, e-1.
Associated Testing Labs, Inc., c-1, f-1.
Avco Corp.-Research & Advanced Development Div.,
c-1.

Baldwin-Lima-Hamilton Corp., Electronics & Instru-
mentation Divs., f-1, g-1.
Banthin Engrg. Co., z.
Leon J. Barrett Co., The, f, g, u.
Barry Controls Inc., c-1.
Rex Bassett, Inc., j.
Cyril Bath Co., The, d, r, x.
Bearing Inspection, Inc., g.
Bendix Aviation Corp., c, k.
Blackstone Corp., g.
E. W. Bliss Co., d, x, e-1.
Bo Myte Co., Inc., The, u.
W. H. Brady Co., w.
Branson Instruments, Inc., g.
Brown & Sharpe Mfg. Co., k.
Bruce Engrg. Co., q.
Budd Co., The, a, e, k, l, r, u, v, x, f-1.
Budd Lewyt Electronics, Inc., b.
Bulova Research & Development Labs., Inc., j, m, q,
t, y, d-1, h-1.

Burklyn Co., x.
A. M. Byers Co., r.
Calcor Corp., x.
California Stamping & Mfg. Co., x.
Carborundum Co., The, a, k.
Chambersburg Engrg. Co., x.
Cherry Rivet Div.-Townsend Co., b-1.
Chicago Rivet & Machine Co., b-1.
Cincinnati Cleaning & Finishing Machinery, g.
Cincinnati Milling Machine Co., The, a, k, q, r, x.
Cincinnati Shaper Co., The, d, x.
Cincinnati Sub Zero Products, c-1.
Circo Equipment Co., g.
Circo Ultrasonic Corp., g.
Cleveland Automatic Machine Co., The, l.
Coast Pro-Seal & Mfg. Co., x.
Cobehn, Inc., g.
Coil Winding Equipment Co., h.
Coleman Electronics, Inc., g-1.
CompuDyne Corp., c-1, f-1.
*CONSOLIDATED ELECTRODYNAMICS CORP., c-1.
Consolidated Vacuum Corp., c-1.
Coplumat, Inc., e, z.
Cosa Corp., c, a, q, x, f-1.
Covel Mfg. Co., a.
Cryogenerators, Inc.
Dallons Semiconductors, Div.-Dallons Labs., j.
Joe Davidson & Associates, b.
J. H. Day Co., The, Div.-The Cleveland Automatic
Machine Co., l.
Decker Corp., The, c, o.
Delsen Corp., g-1.
Desomatic Products, Inc.-Anders-Drifline, b.
Dretex Chemical Industries, Inc., g.
W. C. Dillon & Co., Inc., g-1.
Drill Mfg. Co., g.
Edwards High Vacuum Ltd., s.
Eisler Engrg. Co., Inc., a, h, j, k, m, n, r thru u, d-1,
e-1.
Electromark Corp., The, w.
Ellis & Watts Products, Inc., b.

LOCKS

a. Dial
b. General
c. Hydraulic
d. Shaft
Adams Rite Mfg. Co., b.
Adel Precision Products of Calif., Div.-General
Metals Corp., c.

Amatom Electronic Hardware Co. Inc., a.
Birnback Radio Co., Inc., a, d.
Bud Radio, Inc., a.
*COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
THEON CO., a, d.
Hydro Power Corp., c.
Jan Hardware Mfg. Co., Inc., a, d.
Haskel Engrg. & Supply Co., c.
Kemp Aero Products, c.
Keystone Electronics Corp., a.
Kilo Engrg. Co., a, d.
Leor, Inc., d.
James Millen Mfg. Co. Inc., a, d.
Precision Metal Products Co. Inc., d.
*RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.,
d.

Rief Mfg. Co., a.
J. R. Robbins Co., c.
Ronson Hydraulic Units Corp., c.
Waters Mfg., Inc., d.

LORAN SYSTEMS

Allied International Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Broadview Research Corp.
Collins Radio Co.
Edo Corp.
Fla. Aircraft Radio & Marine
General Instrument Corp., Defense & Engrg. Products
Group
ITT Federal Div., International Telephone & Tele-
graph Corp.
Motorola, Inc.
Philco Corp.-Govt. & Industrial Group
Piosceki Aircraft Corp.
Production Research Corp., Sub.-Radio Condenser
Co.
Radolob Inc.
*RADIO CORP. OF AMERICA
Radio Receptor Co., Inc., Sub.-General Instrument
Corp.
Southwest Research Institute
Sperry Gyroscope Co., Div.-Sperry Rand Corp.

LUBRICANTS

ACF Industries Inc.
Acheson Colloids Co., Div.-Acheson Industries, Inc.
Alpha Molykote Corp., The
American Grease Stick Co.
American Oil & Supply Co.
Anderson Oil & Chemical Co., Inc.
Ashland Oil & Refining Co.
George Bosch Co., The
Chemplast, Inc.
Delta Chemical Works, Inc.
Delta-Desco Companies
Dow Corning Corp.
Drilube Co.
Eastern Chemical Div., Hooker Chemical Corp.
Ed-Berl Products, Inc.
Electrofilm, Inc.
Esso Standard, Div.-Humble Oil & Refining Co.
Fluoro-Chem Corp.
Food Machinery & Chemical Corp.-Chemical &

LUBRICATING DEVICES

Bearing Inspection, Inc.
Bellows-Volvair Divs.
Bennett-Farogen
Ed-Berl Products, Inc.
Gits Brothers Mfg. Co.
Gray Co., Inc.
C. A. Morgren Co.
Oil-Rite Corp.
Superior Pneumatic & Mfg., Inc.
Technical Development Co.
Waldick Engrg. Co.
Wesrep Corp.

LUGS

Amatom Electronic Hardware Co. Inc.
American Brass Co., The
Associated Engineers, Inc.
Beod Chain Mfg. Co., The
Bergen Carbide Co.
Birnback Radio Co., Inc.
Burndy Corp., Omatom Div.
Hobson Brothers, Inc.
Walter K. Jaros Aircrafters
Kellelt Aircraft Corp.
Keystone Electronics Corp.
Kulka Electric Corp.
Malco Mfg. Co.
Norrich Screw Machine Products
Precision Metal Products Co. Inc.
Rye Sound Corp.
Sinclair Mfg. Co.
C. Sjoberg & Son
Stanley-Judd Div.-The Stanley Works

LUGS, CABLE-ELECTRIC

AMP Inc.
Amatom Electronic Hardware Co. Inc.
American Brass Co., The
Associated Engineers, Inc.
Birnback Radio Co., Inc.
Burndy Corp., Omatom Div.
Hallatt Mfg. Co.
Kaltan Electric Mfg. Co.
Kulka Electric Corp.
Manhattan Lighting Equipment Co., Inc.
C. Sjoberg & Son.
Stanley-Judd Div.-The Stanley Works
Whitaker Cable Corp.

MACHINES

a. Abrasive Cutting
b. Air Conditioning
c. Balancing
d. Bending
e. Blueprint
f. Copocitar Manufacturing
g. Cleaning
h. Coil Winding
i. Counting
j. Crystal Manufacturing & Finishing
k. Cutting
l. Diecasting
m. Electric Soldering
n. Electron Tube
o. Electronic Balancing
p. Electronic Transcribing
q. Engraving & Profiling
r. Forming
s. Glass Working
t. Hermetic Sealing
u. Impregnating
v. Lamination Stacking

*ENGIS EQUIPMENT CO., a, q.
 Ex-Cell-O Corp., k, q.
 Falstrom Co., x.
 Federal Electronic Products Inc., s.
 Fenn Mfg. Co., The, x, e-1.
 Finnell System, Inc., g.
 Fish-Schurman Corp., s.
 Flight Refueling, Inc., c-1, f-1.
 Foredam Electric Co., Inc., a, k, q, w, b-1.
 Gardner-Denver Co., b-1.
 General Electro-Mechanical Corp., b-1.
 Giddings & Lewis Machine Tool Co., k.
 Duncan M. Gillies Co. Inc., w.
 Gleason Works, a, k.
 Gordon Enterprises, w, z, f-1, h-1.
 George Gorton Machine Co., q, w.
 Grant Mfg & Machine Co., The, b-1.
 Green Instrument Co., q.
 Grotnes Machine Works, Inc., t.
 Gulon Industries, Inc., g, h, m, c-1.
 Haloid Xerox Inc., z.
 Hamilton Watch Co., Military Products Div., h.
 Hammett-Mercury Rex Div., a, c, d, h, j, m.
 Helder Mfg. Co., Inc., x.
 High Speed Hammer Co., Inc., The, w, b-1, h-1.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., u.
 Highland Engrg. Co., b.
 Carl Hirschmann Co., Inc., h, q, c-1, f-1.
 Hobbs Mfg. Co., k.
 P. R. Hoffman Co., j.
 Hopkins Engrg. Co., f.
 Howe Scale Co., The, g-1.
 Hunter Spring Co., Div.-American Machine & Metals, Inc., f-1.
 Hydraulic Press Mfg. Co., The, Div.-Kaehering Co., f, r, x, a-1.
 Impact O-Graph Corp., The, c-1.
 Imperial Brass Mfg. Co., The, d, k.
 Industrial Systems Co., g.
 Instrument Div., The Budd Co., f-1.
 Invincible Vacuum Cleaner Mfg. Co., g.
 *ITEMCO, INC., b.
 Jan Hardware Mfg. Co., Inc., c-1.
 Walter K. Jaros Aircrafters, b-1.
 Jennings Machine Corp., h-1.
 L. A. B. Corp., f-1.
 L & R Mfg. Co., g.
 Lear, Inc., g-1.
 Lemert Engrg. Co., Inc., r, b-1.
 Lennox Tool & Machine Builders, d, k, r, x.
 Lepel High Frequency Labs, Inc., j, m, t, d-1.
 Litton Engrg. Labs., s, e-1.
 Livingston Electronic Corp., d-1.
 MB Electronics, f-1.
 Magnus Chemical Co., Inc., g.
 R. C. Mahon Co., The, g.
 Marchant Machining Corp., r, x, b-1.
 Markem Machine Co., w.
 Martindale Electric Co., h-1.
 Jos. H. Matthews & Co., w.
 Mc Kenna Labs., g.
 Mechanics Research Div., American Machine & Foundry Co., y, g-1.
 Miami Engrg., Div.-Miami Shipbuilding Corp., s.
 Mico Instrument Co., q, s.
 Milman Engrg. Co., z.
 *MINNESOTA MINING & MFG. CO., z.
 Molding Corp. of America, t.
 Robert E. Morris Co., The, a, j, k.
 NUMEC-Nuclear Materials & Equipment Corp., g-1.
 National Cylinder Gas, Div.-Chematron Corp., d-1.
 New England Machine & Tool Co., The, q.
 Niagara Machine & Tool Works, d, r, x.
 Noble & Westbrook Mfg. Co., The, w.
 Northrop Corp., h, f-1.
 Norton Co., New Products Dept., a.
 Paul Nurches Co., h-1.
 Nureco, Inc., u.
 Onsrud Machine Works, Inc., k, q.
 Optomechanisms Inc., i, w.
 Orbitron Co., Inc., g-1.
 Palmer Instruments, j.
 Paragon-Revolute, Div.-Charles Bruning Co., Inc., e, z.
 Parsons Diamond Products, Inc., k, s.
 Patterson Moos Research, Div.-Leesona Corp., h.
 Peerless Photo Products Inc., z.
 Pegasus Labs, Inc., c-1, f-1.
 Penetone Co., The, g.
 Pennsalt Chemicals Corp., g.
 Richard Philip Co., d, h, r, x, h-1.
 Pines Engrg. Co. Inc., d, x.
 Pioneer Industries Div., Almar-York Co. Inc., b.
 Precision Lopping Co. Inc., s.
 H. P. Preis Engraving Machine Co., q, w.
 Pryor Marking Products, w.
 *RADIO CORP. OF AMERICA, h, j, n, p, v, y, e-1.
 Ransohoff Co., g.
 Rea Magnet Wire Co., Inc., Div.-Aluminum Co. of America, h.

Recony Div.-Vincor Corp., a, b, c, k.
 Reed-Prentice, Div.-Package Machinery Co., l.
 Revere Corp. of America, Sub., Neptune Meter Co., g-1.
 Recovers-Lotsch Corp., w.
 Rotex Punch Co., Inc., x.
 Roto Finish-Ransohoff, g.
 Joseph T. Ryerson & Son, Inc., a, d, k, r, x.
 St. Regis Paper Co., Panelyte Div., u.
 Selas Corp. of America, d-1.
 Sheffield Corp., The, Sub.-Bendix Aviation Corp., y.
 Sheridan-Gray, Inc., d, r, x, a-1.
 Southwest Research Institute, a, b, c-1, f-1.
 Special Products Dept., Melpor, Inc., y.
 Specialties, Inc., z.
 Sphere Co. Inc., The, b-1.
 Stanley-Judd Div.-The Stanley Works, x.
 Geo. Stevens Mfg. Co., Inc., h.
 F. J. Stokes Corp., u, a-1.
 W. Whitney Stueck, Inc., d, x.
 Swift Textile Metalizing & Laminating Corp., w.
 TRG, Inc., j, s.
 Taylor-Winfield Corp., d.
 Technical Design & Development Co., Inc., v, y.
 Telechrome Mfg. Corp., y, g-1.
 Telactro Industries Corp., y.
 Thayer Scale Corp., g-1.
 Thokal Chemical Corp., Hunter-Bristol Div., g-1.
 Thomas Instrument Co., h-1.
 Thomson, Judson L., y, b-1.
 Thor Power Tool Co., a, w, b-1.
 Tinius Olsen Testing Machine Co., c.
 Torrington Co., The, x.
 Trane Co., The, b.
 United Shoe Machinery Corp., k, w, b-1.
 U. S. Industries, Inc., r, x, b-1.
 United States Testing Co., Inc., c-1, f-1.
 Universal Mfg. Co., Inc., h.
 Vapor Blast Mfg. Co., a, g.
 Veeco Vacuum Corp., j, t.
 Vest Industries, a-1.
 Vemoline Products Co., d.
 Vilter Mfg. Co., The, b.
 Virginia Electronics Co., Inc., m, d-1.
 Wells Industries Corp., l.
 Western Electronic Products Co., h-1.
 Western Sealant of Conn., u.
 Westinghouse Electric Corp., b, c-1.
 Westline Products Div.-Western Lithograph Co., w.
 Wheelabrator Corp., g.
 S. S. White Industrial Div., a, g, j.
 Whitney Metal Tool Co., d, k, b-1.
 Worthington Corp., b.
 Zippertubing Co., The, e-1.

MACHMETERS

*AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.
 American Electronics Inc., Tallier-Cooper Div., & Data Systems Div.
 Bendix Aviation Corp.
 A. Biederman, Inc.
 Daystrom Inc., Pacific Div.
 George E. Harris & Co., Inc.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc.
 Lear, Inc.
 *WALLACE O. LEONARD, INC.
 Madigan Corp.
 Rosemount Engrg. Co.
 Servomechanisms, Inc.
 Specialties, Inc.
 Trans-Sonics, Inc.

MAGNESIUM & ALLOYS

Alloys Unlimited Inc.
 Aluminum Co. of America
 American Smelting & Refining Co.
 Artra Aluminum Foundry & Mfg. Co. Inc.
 Bios Labs, Inc.
 Bram Metallurgical Chemical Co.
 Brooks & Perkins, Inc.
 Budd Co., The
 Delta Chemical Works, Inc.
 Dow Chemical Co., The
 Kaiser Aluminum & Chemical Sales, Inc.
 Light Metals, Inc.
 Magline Inc.
 Nelco Metals, Inc.
 R. H. Osbrink Mfg. Co.
 Semi-Elements, Inc.
 South River Metal Products Co., Inc.
 United Mineral & Chemical Corp.
 Vanadium Corp. of America
 Var-Lac-Oid Chemical Co.
 Wyman-Gordon Co.

MAGNETIC ANALYSIS EQUIPMENT

Budd Co., The
 Coil Co. of America

General Kinetics Inc.
 Hays Corp., The
 Magnaflux Corp., Sub.-General Mills, Inc.
 Mincom Div., Minnesota Mining & Mfg. Co.
 Sensitive Research Instrument Corp.

MAGNETIZERS & DEMAGNETIZERS

R. B. Annis Co.
 Bearing Inspection, Inc.
 Caltron Products Co.
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAY-
 THEON CO.
 Crucible Steel Co. of America
 Davenport Mfg. Co.
 Eclipse-Pioneer Div., Bendix Aviation Corp.
 Electromation Co., Div.-Del Mar Engrg. Labs.
 Electronic Brazing Co.
 General Electric Co., Apparatus Sales Div.
 Indiana Steel Products, Div.-Indiana General Corp.
 Leo Klein Electronics Co.
 L & R Mfg. Co.
 Magnaflex Corp., Sub.-General Mills, Inc.
 Robins Industries Corp.

MAGNETOMETERS

R. B. Annis Co.
 *ARNOUX CORP.
 *ASKANIA-WERKE, U. S. BRANCH OFFICE
 Bendix Aviation Corp.
 Dalmo Victor Co., Div.-Textron, Inc.
 Device Development Corp.
 Eclipse-Pioneer Div., Bendix Aviation Corp.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 Lear, Inc.
 Magnaflex Corp., Sub.-General Mills, Inc.
 Northrop Corp.
 Rawson Electrical Instrument Co.
 Sun Electric Corp., Aeronautical Div.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

MAGNETOS & PARTS

Bendix Aviation Corp.
 Hallett Mfg. Co.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Lear, Inc.
 Scintilla Div., Bendix Aviation Corp.
 Skytronics, Inc.

MAGNETS

Arnold Engrg. Co., The
 Cosmic Instruments Inc.
 Crucible Steel Co. of America
 Edmund Scientific Co.
 Ferroxcube Corp. of America
 Fisher Scientific Co., Maryland
 General Magnetic Corp.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Lear, Inc.
 J. E. Menough Co.
 National Moldite Co.
 Permanent Magnet Co., Inc., The
 Stackpole Carbon Co.
 Ullman Devices Corp.
 Westinghouse Electric Corp.

MAGNETS, ELECTRO

Allied Control Co., Inc.
 J. Bishop & Co., Platinum Works
 Device Development Corp.
 Ferroxcube Corp. of America
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Lear, Inc.
 Litton Industries, Inc.
 PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y.
 Process & Instruments
 Sunshine Scientific Instrument
 Talley Corp., The
 Westinghouse Electric Corp.

MAGNETS, FOCUSING

Applied Radiation Corp.
 Crucible Steel Co. of America
 Ferroxcube Corp. of America
 General Magnetic Corp.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Litton Industries, Inc.
 National Moldite Co.
 Stackpole Carbon Co.
 Westinghouse Electric Corp.

MAGNETS, PERMANENT

Arnold Engrg. Co., The
 Barker Sales Co.

J. Bishop & Co., Platinum Works
Cosmic Instruments Inc.
Crucible Steel Co. of America
Eriez Mfg. Co.
Ferroxcube Corp. of America
General Magnetic Corp.
Hoskins Mfg. Co.
Indiana Steel Products, Div.-Indiana General Corp.
Industrial Equipment Div., Baldwin Lima Hamilton Corp.
Magnaflex Corp., Sub.-General Mills, Inc.
J. E. Menough Co.
National Moldite Co.
Permanent Magnet Co., Inc., The
Stockpole Carbon Co.
Westinghouse Electric Corp.

Solar Aircraft Co., d.
Southwest Research Institute, a, b, d.
Specialty Electronics Development Corp., c.
Standard Steel Corp., Cambridge Div., e, f.
A. U. Stone & Co., Inc., a, b.
Struthers Wells Corp., b, e, f.
Superior Air Products Co., e, f.
Weatherhead Co., The, a, b.
Webb, Inc.
Wells Industries Corp., a, e, f.
Woolf Aircraft Products, Inc., a, b, f.
Zep Aero, f.

MANIPULATORS, NUCLEAR

American Research & Mfg. Corp.
Bendix Aviation Corp.
E. W. Bliss Co.
A. M. Byers Co.
Central Research Labs., Inc.
Ex-Cell-O Corp.
Flight Refueling, Inc.
General Electric Co., Apparatus Sales Div.
General Mills, Inc.
Industrial Equipment Div., Baldwin Lima Hamilton Corp.
Isotopes Specialties Co., Div.-Nuclear Corp. of America
Mechanics Research Div., American Machine & Foundry Co.
Pacific Coast Engrg. Co.
Tracerlab Inc.
U. S. Industries, Inc.

MANOMETERS

A. Biederman, Inc.
*CONSOLIDATED ELECTRODYNAMICS CORP.
Dynametrics Corp.
Eclipse Fuel Engrg. Co.
Edwards High Vacuum Ltd.
Ellison Draft Gage Co., Inc.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
Hass Instrument Corp., The
E. Vernon Hill & Co.
Ideal-Aerosmith, Div.-Royal Industries, Inc.
Joseph Koye & Co.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc.
*WALLACE O. LEONARD, INC.
*MARTIN CO., THE, DENVER DIV.
Southwest Research Institute
Thermal American Fused Quartz Co., Inc.
Trans-Sonics, Inc.
Trimount Instrument Co.
Uehling Instrument Co.
Wallace & Tierman Inc.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.

MASKS, APERTURE, TUBE

Acushnet Process Co.
Cronome Inc.
Puritan Aerospace Div.-Puritan Compressed Gas Corp.

MATERIALS HANDLING EQUIPMENT

Air Logistics Corp.
American Car & Foundry Div., ACF Industries, Inc.
American Monorail Co., The
Arnolt Corp.
Associated Co., Inc.
Baker Industrial Trucks, Div.-Otis Elevator Co.
Barrett-Cravens Co.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
E. W. Bliss Co.
Brooks & Perkins, Inc.
Brown-Line Corp.
Budd Co., The
E. W. Buschman Co., The
Butler Mfg. Co.
Albert H. Coyne Equipment Corp.
Clark Equipment Corp.
Clark Equipment Co., Industrial Truck Div.
Colson Corp., The
Deluxe Metal Products Co.
Dempsler Brothers, Inc.
FWD Corp.
Fairbanks Co., The
Flight Refueling, Inc.
Food Machinery & Chemical Corp., Ordnance Div.
Froehaul Trailer Co., Military Equipment Div.
Garden City Fan & Blower Co.
General American Transportation Corp.
Gyrex Corp., The
George E. Harris & Co., Inc.
Herlo Corp.
Hughes Tool Co., Aircraft Div.
Jeffrey Mfg. Co., The
Joy Mfg. Co.

Lear, Inc.
Link-Belt Co.
Magnesium Co. of America
*MARTIN CO., THE, DENVER DIV.
McDowell-Wellman Companies, The
Mechanical Handling Systems Inc.
Mechanics Research Div., American Machine & Foundry Co.
Mercury Mfg. Co.
National Vulcanized Fibre Co.
Nelson Labs, Inc.
Northrop Corp.
Nutting Truck & Caster Co.
Pacific Coast Engrg. Co.
Pegasus Labs, Inc.
Pettibone Mulliken Corp.
Richard Philip Co.
Pioneer Industries Div., Almar-Yark Co. Inc.
Rapids Standard Co., Inc., The
Reed Research Inc.
Edw. Renneburg & Sons Co.
Revolvator Co.
Richards-Wilcox Mfg. Co.
Rimak, Inc.
Robbins & Myers, Inc., Hoist & Crane Div.
Sheridan-Gray, Inc.
Trailmobile Inc.
United States Rubber Co.
Waco Aircraft Co.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Wells Industries Corp.
Albert Westing & Sons Inc.
Whiting Corp.

MATRIXES COMPUTER

Aerona Mfg. Corp.-Aerospace Div.
Bendix Aviation Corp.
Broodview Research Corp.
Djeco, Div.-Djordjevic Engrg. Co.
*MARTIN CO., THE, DENVER DIV.
Motorola, Inc.
Navigation Computer Corp.
Northrop Corp.
Packard Bell Computer Corp.
Radiation, Inc.
*RADIO CORP. OF AMERICA
Southwestern Industrial Electronics Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Tolly Register Corp.
Telchrome Mfg. Corp.

MEGAPHONES, ELECTRONIC

Colvert Electronics Inc.
Du Kone Corp.
Gordon Enterprises
ITI Electronics, Inc.
Motorola, Inc.

MEMORY

a. Crystal
b. Drums
c. Multi-Care Magnetics
d. Systems
e. Tape Loop
f. Tubes

AMP Inc., c.
Alwac Computer, Div.-El-Tronics Inc., b.
Amplex Data Products Co., d, e.
Arrow Tool Co., Inc., b, d, e.
Audio Instrument Co., Inc., e.
Autonetics, Div.-North American Aviation, Inc., b.
Bendix Aviation Corp., b, d.
Bendix Aviation Corp., Cincinnati Div., d.
Broodview Research Corp., a thru f.
Bryant Computer Products Div., b.
Budd Lewyt Electronics, Inc., c, d.
Burrughs Corp., c, d, e.
CBS Laboratories, Div.-Columbia Broadcasting System, d.
C & K Components, Inc., d.
California Computer Products, Inc., b.
Chance Vought Aircraft, Inc., b, d.
Christie Machine Works, b.
Computer Control Co., Inc., c, d.
Computer Control Co., Inc., Western Div., c, d.
Consolidated Controls Corp., b, d.
*CONSOLIDATED ELECTRODYNAMICS CORP., d, e.
Control Data Corp., b, c, d.
Daystrom, Inc., Control Systems Div., c, d.
Daystrom, Inc., Military Electronics Div., c, d.
Daystrom Inc., Transcinal Div., d.
Delco Radio Div.-General Motors Corp., c, d.
Designers for Industry, Inc., b, c, d.
DynaTronics, Inc., d.
Eastman Kodak Co., d.
Electromation Co., Div.-Del Mar Engrg. Labs., e.
Electronic Engrg. Co. of California, d, e.

MANGANES

American Nickel Alloy Mfg. Corp.
American Smelting & Refining Co.
Bethlehem Steel Co.
Bias Labs, Inc.
Brom Metallurgical Chemical Co.
Delta Chemical Works, Inc.
Foot Mineral Co.
Union Carbide Metals Co., Div.-Union Carbide Corp.
United Mineral & Chemical Corp.
Vanadium Corp. of America
Var-lac-Oid Chemical Co.

MANIFOLDS

a. Air System
b. Fuel
c. Ignition
d. Intake & Exhaust
e. Nitrogen
f. Oxygen
g. Primer

Accessory Products Co., Div.-Textron Inc., a, b.
*AEROJET-GENERAL CORP., a, b, e, f.
Aerotec Industries Inc., Aircraft Equipment Div., f.
Air Products, Inc., f.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc., e, f.
Allison Div., General Motors Corp., a, b.
American Tube Bending Co., Inc., d.
Arde-Portland, Inc., a, b, d.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., a, b, d.
B. H. Aircraft Co., Inc., a, b, d.
Beaton & Corbin Mfg. Co., The, b, c.
*BENDIX AVIATION CORP., HAMILTON DIV. b.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., b.
Breeze Corporations, Inc., c.
Calcor Corp., a thru f.
California Stamping & Mfg. Co., b, d, f.
Captive Seal Corp., a thru g.
Carleton Aviation Co., Inc., b, e, f.
Colonial Aircraft Corp., a, b, d.
Curtiss-Wright Corp.-Wright Aeronautical Div., a thru d, g.
George W. Dahl Co., Inc., a, f.
*DEL MAR ENGRG. LABS., b, e.
Douglas Aircraft Co., Inc., b, f.
Dunbar-Koppke Inc.-Aircraft Components Div., a, d.
Flexonics Corp., a, b.
Futurecraft Corp., a, b, e, f.
General Laboratory Associates, Inc., c.
Guided Missile Div., The Firestone Tire & Rubber Co., b.
B.H. Hadley, Inc., a, b, e, f, g.
Hallett Mfg. Co., c.
Holman Labs, Inc., e, f.
Hydra-Power Corp.
C. B. Kaupp & Sons, Inc.
Kelsey-Hayes Co., d.
*LAVELLE AIRCRAFT CORP., a, b.
Linde Co., Div.-Union Carbide Corp., e, f.
Lone Star Plastics Co. Inc., a.
McGregar Mfg. Corp., a, d, e, f.
Mead Specialties Co., Inc., a.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div., a, b, e, f.
National Cylinder Gas, Div.-Chemtron Corp., a, e, f.
National Welding Equipment Co., e, f.
National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc., a, b.
Opelika Welding, Machine & Supply Inc., d.
Oxygen Equipment & Service Co., e, f.
Parts Engrg. Co., Inc., a, b.
Penn-Michigan Mfg. Corp., d.
Republic Mfg. Co., a.
Robbins Aviation, Inc., a.
Sargent Engrg. Corp., a, e, f.
Scintillo Div., Bendix Aviation Corp., c.
Servicoir Co., c.
Sierra Engrg. Co., a, f.
Skytronics, Inc., c.

Electronic Tube Corp., f.
 Electronics Div.-The National Cash Register Co.
 b thru e.
 Ex-Cell-O Corp., b.
 Ferroxcube Corp. of America, c.
 Flight Support, Inc., b, d.
 General Ceramics Div., Indiana General Corp., c, d.
 General Electric Co., Heavy Military Electronics
 Dept., d.
 Genisco, Inc., b.
 Grallex, Inc., b.
 Hammett-Mercury Rex Div., a, b, d.
 ITT Federal Div., International Telephone &
 Telegraph Corp., d.
 Image Instruments, Inc., d.
 Intercontinental Electronics Corp., f.
 Laboratories Electronics, Inc., b, d.
 Leach Corp., e.
 Lear, Inc., a, d.
 Librascope Div., General Precision, Inc., b, c, d.
 Madigan Corp., d.
 Magnasyn Corp., d.
 Magne-Head Div., General Transistor Corp., b, e.
 Maico Electronics, Inc., b thru e.
 Midwestern Instruments, Inc., b, e.
 Milgo Electronic Corp., d.
 Minneapolis-Honeywell Regulator Co., Industrial
 Systems Div., b, e.
 Minneapolis-Honeywell Regulator Co., Missile
 Equipment Div., c, d.
 *MINNESOTA MINING & MFG. CO., e.
 Motorola, Inc., a, c, d.
 Northrop Corp., b, c.
 Norton Associates, Inc., b.
 Packard Bell Computer Corp., c, d.
 Philco Corp.-Govt. & Industrial Group, d.
 Potter Instrument Co., Inc., e.
 *RADIO CORP. OF AMERICA, b, c, d, f.
 Ramo Wooldridge, Div.-Thompson Ramo Wooldridge
 Inc., b.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS
 DIV., f.
 J. B. Rea Co., b.
 Rese Engrg., Inc., c, d.
 Sangamo Electric Co., e.
 Semi-Elements, Inc., a.
 Servomechanisms, Inc., c.
 Skiatron Electronics & Television Corp., f.
 Southwestern Industrial Electronics Co., d.
 Stromberg-Carlson Div.-General Dynamics Corp.,
 d, e.
 Sun Electric Corp., Aeronautical Div., d.
 Tapco Group, Thompson Ramo Wooldridge Inc., b.
 Telectro Industries Corp., b, d, e.
 Telex, Inc., c, d.
 Thompson Ramo Wooldridge Inc., b.
 Wang Labs., Inc., d.
 Westinghouse Electric Corp., c.

MERCURY

Alloys Unlimited Inc.
 Belmont Smelting & Refining Works, Inc.
 A. Biederman, Inc.
 Bram Metallurgical Chemical Co.
 City Chemical Corp.
 Eastern Smelting & Refining Corp.
 Engelhard Industries, Inc.
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 General Electric Co., Lamp Metals & Components
 Dept.
 Goldsmith Bros. Div., National Lead Co.
 Semi-Elements, Inc.
 United Mineral & Chemical Corp.
 Var-Iac-Oid Chemical Co.

METAL CLAD SHEETS

Accurate Specialties Co. Inc.
 Alloys Unlimited Inc.
 American Printed Circuits Co., Inc.
 Belmar Wheel & Machine Co., Inc.
 Bethlehem Steel Co.
 J. Bishop & Co., Platinum Works
 Bo Myte Co., Inc., The
 Bram Metallurgical Chemical Co.
 Brooks & Perkins, Inc.
 Continental Diamond Fibre Corp.
 Cordo Chemical Corp.
 Engelhard Industries, Inc.
 Franklin Fibre-Lamitex Corp.
 General Electric Co., Lamp Metals & Components
 Dept.
 General Plastics Corp.
 Hydrolorming Co. of America Inc.
 Leach & Garner Co., Indsl. Div.
 Met-Wood Corp.
 Mica Insulator Div., Minnesota Mining & Mfg. Co.
 *MINNESOTA MINING & MFG. CO.
 Nuclear Development Corp. of America
 Olin Mathieson Chemical Corp., Metals Div.
 St. Regis Paper Co., Panelyte Div.

Somers Brass Co. Inc.
 Synthane Corp.
 Taylor Fibre Co.
 Texas Instruments Inc.
 Tmgstal Co.
 United Mineral & Chemical Corp.

METAL MACHINING

ACF Industries Inc.
 Abalon Precision Mfg. Corp.
 Aero Mfg. & Mach. Co., Inc.
 Aircraft Tools, Inc.
 Airhardware, Inc.
 All Specs Corp.
 Allied Products Corp.
 Alloy Products Corp.
 American Beryllium Co.
 American Tool Co.
 American Welding & Mfg. Co., The
 Ampco Metal, Inc.
 Anchor Specialty Mfg. Co. Inc.
 B. H. Aircraft Co., Inc.
 Barnum Machine Works, Inc.
 Basic Tool Industries, Inc.
 Belmar Wheel & Machine Co., Inc.
 Bendix Filter Div., Bendix Aviation Corp.
 Bergen Carbide Co.
 Bernco Engrg. Corp.
 Bethlehem Steel Co.
 E. W. Bliss Co.
 Bruce Engrg. Co.
 Budd Co., The
 Calcor Corp.
 California Aircraft Products
 Capital City Mfg. Co., Inc.
 Chance Vought Aircraft, Inc.
 Cincinnati Milling Machine Co., The
 Clark-Aiken Co., The
 Conrad & Moser
 Continental-Emco Co., Div.-The Youngstown Sheet
 & Tube Co.
 C. Lee Cook Co., Airtomic Products Div.
 Cromer Mfg. & Engrg., Inc.
 Custom Tool & Mfg. Co.
 Douglas Aircraft Co., Inc.
 Eaton Mfg. Co., Valve Div.
 Electronic Parts Mfg. Co., Inc.
 Eljay Corp.
 Elze Metal Products Co., Inc.
 Essex Mfg. Co., Inc.
 Eureka Williams Corp.
 *EXCELCO DEVELOPMENTS INC.
 Ex-Cell-O Corp.
 Farwell Metal Fabricating
 Federal Machine Co. Inc.
 Fenn Mfg. Co., The
 Forseberg Mfg., Co., The
 Gar Products Corp.
 George Gorton Machine Co.
 Henry & Miller Industries, Inc.
 Herlo Corp.
 Hughes Tool Co., Aircraft Div.
 Walter K. Jaros Aircraftrofers
 Kanarr Corp.
 C. B. Kaupp & Sons, Inc.
 Kelleit Aircraft Corp.
 Kelsey-Hayes Co.
 Kemp Aero Products
 Keystone Electronics Corp.
 E. Konigslow Stamping & Tool Co.
 Ladish Co.
 Langley Corp.
 La Vezzi Machine Works
 Le Fiell Mfg. Co.
 Lycoming Div., Avco Corp.
 Marchant Machining Corp.
 Marquardt Corp. The
 *MARTIN CO., THE, DENVER DIV.
 Meridian Metallcraft, Inc.
 Miami Engrg. Div.-Miami Shipbuilding Corp.
 Miller Dial & Nameplate Co.
 Nordberg Mfg. Co.
 Norris Thermador Corp.
 Omega Labs, Inc.
 Onsrud Machine Works, Inc.
 Opelika Welding, Machine & Supply Inc.
 Panel Engrg. Corp.
 Parts Engrg. Co., Inc.
 Pennsylvania Tool & Mfg. Co., The
 Richard Philip Co.
 Piatecki Aircraft Corp.
 Precision Shapes, Inc.
 Redco Corp.
 Reed Mfg. Co.
 E.W. Renneburg & Sons Co.
 J. R. Robbins Co.
 Shellfield Corp., The, Sub-Bendix Aviation Corp.
 Sibley Machine & Foundry Corp.
 Superior Industrial Machine Co.
 Temco Aircraft Corp.
 Arthur Tickle Engrg. Works, Inc.

Tucson Instrument Corp.
 United States Chemical Milling Corp.
 Universal Mfg. Co., Inc.
 Victor Tool & Mfg., Inc.
 Waco Aircraft Co.
 Weba, Inc.
 Western Automatic Machine Screw Co., Div.-
 Standard Screw Co.
 Western Design, Div.-U.S. Industries, Inc.
 Westholt Mfg. Inc.

METAL PARTS

a. Bushings
 b. Lead
 c. Powdered
 d. Screw Machine
 e. Small Metal Stampings
 f. Spinnings
 g. Trimmings
 ACF Industries Inc., d, e.
 A & E Metal Specialties Inc., e.
 A&P Metal Products Mfg. Corp., e, f, g.
 Abalon Precision Mfg. Corp., a, d, e.
 Abbot Screw & Mfg. Co., d, e.
 Accurate Electronics Corp., e.
 Accurate Specialties Co., Inc., b, c, e.
 Acme Industrial Co., a, d.
 Aerial Machine & Tool Corp., d, e.
 Aero Gasket Corp., e.
 Aero Mfg. & Mach. Co., Inc., a, d, e.
 Aero Spares, Inc., a, d.
 Aerocal Div., Aerona Mfg. Corp., f.
 Aerolite Electronics Corp., e.
 Aircraft Tools, Inc., e.
 Airhardware, Inc., a, d.
 All Specs Corp., a, d.
 Allen Electric & Equipment Co., e.
 Allied Products Corp., d.
 Allmetal Screw Products Co., Inc., d.
 Alloy Products Corp., e.
 Alpha Metals, Inc., b, e.
 Alptec, Inc., e.
 Aluminum Co. of America, c, d, f.
 Amatonic Electronic Hardware Co. Inc., a, d, e, f.
 Amco Engrg. Co., e.
 American Aluminum Co., e, f.
 American Beryllium Co.
 American Brake Shoe Co., a, c.
 American Brass Co., The, e.
 American Standard Products, Inc., a, d, e.
 *AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
 a.
 Ampco Metal, Inc., a, d, f.
 Anchor Metal Co. Inc., b.
 Anchor Metal Spinning Co., The, e, f.
 Anderson, Greenwood & Co., d.
 Armament Div.-Universal Match Corp., e.
 Arnolt Corp., d, e.
 Art Wire & Stamping Co., e.
 Associated Co., Inc., e, f.
 Associated Engrg. & Mfg. Corp., e, f.
 Associated Spring Corp., Ohio Div., e.
 Atlantic Research Corp., e.
 Auburn Mfg. Co., The, e.
 Augat Brothers, Inc.
 Autoscrew Co., Inc., a, d, e.
 B. H. Aircraft Co., Inc., e.
 Babco Mfg. Inc., e.
 Wallace Barnes Div. Associated Spring Corp., e.
 Barnum Machine Works, Inc.,
 I. J. Barwood Mfg. Co. Inc., b, e.
 Bearerium Metals Corp., a.
 Beomer Engrg. Co., a, c.
 Belmar Wheel & Machine Co., Inc., e.
 Belmont Smelting & Refining Works, Inc., b.
 Bendix Filter Div., Bendix Aviation Corp., a, c.
 Bennett Foragen, d, e.
 Benson Mfg. Co., e, f.
 Bergen Carbide Co., a, d, e.
 Bernco Engrg. Corp., e.
 Best Aircraft Corp., a, d.
 Birnbach Radio Co., Inc.
 J. Bishop & Co., Platinum Works, a.
 Bland Burner Co., The, d.
 S. Bickman, Inc., e, f.
 Bound Brook Oil-Less Bearing Co., a, c.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc., e.
 Brooks & Perkins, Inc., e, f.
 Bruce Engrg. Co., a.
 Budd Co., The, e, g.
 Bunting Brass & Bronze Co., The, a, c.
 Burklyn Co., e.
 Calcor Corp., d thru g.
 California Aircraft Products, e, f.
 California Plastack Inc., e.
 California Stamping & Mfg. Co., e.
 Cameroflex Div., The, Federal Mfg. & Engrg. Corp.,
 e, f.
 Capital City Mfg. Co., Inc., a thru d.
 Chance Vought Aircraft, Inc., a, d thru g.

Chemical Micro Milling Co., e.
 Chicago Development Corp., c.
 Chicago Screw Co., The, Div.-Standard Screw Co., d.
 Collins Mfg. Corp., d.
 Colorado Fuel & Iron Corp., The, e, f.
 Commercial Shearing & Stamping Co., f.
 Cornell Deep Drawing Co., Div.-Lanes Industries Corp., e.
 Cranome Inc., e, g.
 Custom Products Corp., a, d, e.
 Custom Tool & Mfg. Co., b, c.
 Delta Corp., f.
 Detroit Stamping Co., e.
 Deutsch Co., The, Electronic Components Div., d.
 Division Lead Co., b.
 Doak Aircraft Co. Inc., a, d, e, f.
 Douglas Aircraft Co., Inc., e.
 Eaton Mfg. Co., c.
 Edgington Metal Specialty Co., d.
 Electric Steel Foundry Co., a.
 Electronic Parts Mfg. Co., Inc., d, e.
 Eljay Corp., a, d, e.
 George D. Ellis & Sons, Inc., e.
 Etzee Metal Products Co., Inc., a, d, e, f.
 Engelhard Industries, Inc., c.
 Erie Resistor Corp., e.
 Essex Mfg. Co., Inc., e.
 Eureka Williams Corp., d, e.
***EXCELCO DEVELOPMENTS INC., e.**
 Ex-Cello-O Corp., a, d.
 Fansteel Metallurgical Corp., c.
 Farwell Metal Fabricating, e.
 Federal Machine Co., Inc.
 Federal Tool & Mfg. Co., e.
 Flight Refueling Inc., a.
 Forsberg Mfg. Co., The, d, e.
 Foursome Mfg. Co., Inc., e.
 Freeman Co., The, d.
 Gar Products Corp., d.
 George K. Garrett Co., Inc., e.
 Gasket Mfg. Co. Inc., e.
 Gemex Corp., The, Indsl. Div., e.
 General Aniline & Film Corp., Anso Div., d, e.
 General Electric Co., Lamp Metals & Components Dept., e.
 General Findings & Supply Co., Industrial Div., d, e, f.
 Globe Industries, Inc., Supermet Div., c.
 Fred Goat Co. Inc., The, e.
 Graflex Inc., d.
 Graphite Metallizing Corp., a.
 Gries Reproducer Corp.,
 Guarantee Specialty Mfg. Co., e.
 HPL Mfg. Co., e.
 Hamilton Watch Co., Industrial Div., d, e.
 Hamilton Watch Co., Military Products Div., d thru g.
 H. M. Harper Co., d.
 Hartford Machine Screw Co., Div.-Standard Screw Co., c.
 Harvey Aluminum, d.
 Helder Mfg. Co., Inc., e.
 Henry & Miller Industries, Inc., a, d, e, f.
 Herla Corp.
 Hobbs Mfg. Co., d.
 Hobson Brothers, Inc., e.
 Hughes Tool Co., Aircraft Div., f.
 Hunter Spring Co., Div.-American Machine & Metals Inc., e.
 Hydroforming Co. of America Inc., f.
 Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc., e.
 Interlake Stamping Corp., e.
 Jan Hardware Mfg. Co., Inc., d, e, f.
 Walter K. Jaros Aircrafters, a, d, e, f.
 Joma Inc., e.
 Kaiser Aluminum & Chemical Sales, Inc., c.
 Kanarr Corp., e.
 C. B. Kaupp & Sons, Inc., e, f.
 Kelleit Aircraft Corp., a.
 Kelsey-Hayes Co., c thru g.
 Kennametal, Inc., a, c.
 Keystone Carbon Co., a, c.
 Keystone Electronics Corp., a, e.
 Kichhaefer Mfg. Co., e.
 King Labs., Inc., e.
 Kling Metal Spinning & Stamping Co., b, e, f.
 Kohler Co., d.
 E. Konigslow Stamping & Tool Co., e.
 Kwisset Powdered Metal Products, a, c.
 Laminated Shim Co., Inc., e.
 Langley Corp., d.
 La Vezzi Machine Works, a, e.
 Le Fiehl Mfg. Co., f.
 Link-Belt Co., d.
 Lyncing Div., Avco Corp., a, f.
 Malco Mfg. Co., e.
 P. R. Mallory Co., Inc., c.
***MARTIN CO., THE, DENVER DIV., a, d, g.**
 Massachusetts Gear Div.-Geartronics Corp., d.
 Maurer Aircraft Co., f.
 Mc Dowell Mfg. Co., f.
 Metal Forming Corp., Div.-Vanadium-Alloys Steel

Corp., e.
 Miami Engrg., Div.-Miami Shipbuilding Corp., e, f.
 Monarch Governor Co., e.
 NUMEC-Nuclear Materials & Equipment Corp., c.
 National Automatic Products Co., The, a, d.
 National Moldite Co., c.
 National Screw & Mfg. Co., The, d.
 Nevada Air Products Co., a, e.
 New England Spring Mfg. Co., Inc., d.
 Narrich Plastics Corp., a, b, d, e.
 Narrich Screw Machine Products, a, b, d, e.
 Norris-Thermador Corp., e, f.
 Northeast Metals Industries, Inc.,
 Nutmeg Screw Machine Products Co., d.
 Ohlson Empire Inc., a, b, d, e.
 Omega Labs., Inc.
 Opelika Welding, Machine & Supply Inc.
 P. B. R. Mfg. Co., e.
 Penn Fibre & Specialty Co., Inc., b, e.
 Penn-Michigan Mfg. Corp., e.
 Pennsylvania Tool & Mfg. Co., The
 Richard Philip Co., e.
 Phoenix Products Co., e, f.
 Piasecki Aircraft Corp., a, d, e, f.
 Precise Development Corp., a, d, e, f.
 Precision Metal Products Co., Inc., a, d, e.
 Precision Shaps, Inc.
 Randall Graphite Bearings, Inc., a.
 Red Devil Mfg. Co., d.
 Edw. Renneburg & Sons Co., a, g.
 Research Development Mfg. Inc., a, d.
 Resistoflex Corp., d.
 Rimak, Inc., a, d thru g.
 J. R. Robbins Co., a, d.
 Roll Formed Products Co., g.
 St. Marys Carbon Co., a, c, e.
 Scovill Mfg. Co., d, e.
 J. H. Sessions & Son, e.
 Seymour Products Corp., The, e.
 Sheridan-Gray, Inc., e.
 C. Sjorberg & Son, e.
 C. M. Smilie & Co., a, d, e.
 Solor Aircraft Co., f.
 Southwest Products Co., a.
 Spincraft, Inc., e, f.
 Springfield Brass Co., Inc., a.
 Stamping Div., Rockwell Standard Corp., e.
 Standard Pressed Steel Co., d.
 Stanley-Judd Div.-The Stanley Works, d thru g.
 Herman D. Steel Co., d.
 Stevens Co. Inc., a, e.
 Stewart-Warner Electronics Div., e.
 Stone City Products Co., e.
 Superior Industrial Machine Co., a.
 Superior Spinning & Stamping Co., e, f.
 T. O. D. Mfg. Co. Inc., c thru f.
 Talfet Electronics, Inc., e.
 Roland Tainer Co. Inc., e, f.
 Templet Industries Inc., e.
 Thor Ceramics, Inc., a, d, e.
 Tinnerman Products, Inc., e.
 Titan Metal Mfg. Co., Div.-Cerro de Pasco Corp., d.
 Torrington Co., The, c, d.
 Transue & Williams Steel Forging Corp., e.
 True Alloys Inc., a.
 Twin Coach Co., Aircraft-Missiles
 Twix Mfg. Co., Inc., e.
 Unified Industries, Inc., e, f, g.
 United Aircraft Products, Inc., d, e.
 United Mineral & Chemical Corp., c.
 United Shoe Machinery Corp., e.
 United States Chemical Milling Corp., e, f.
 Victor Electronic Co., Inc., a, e.
 Victor Tool & Mfg., Inc., a, d, e.
 Waco Aircraft Co., a, d, e.
 Waldick Engrg. Co., d.
 Wall Colmonoy Corp., Stainless Processing Div., e.
 Wayne Foundry & Stamping Co., e.
 Weber Aircraft Corp., e.
 Western Automatic Machine Screw Co., Div.
 Standard Screw Co., d.
 Western Gold & Platinum Co., e.
 Westholt Mfg. Inc., a, e, f, g.
 Westinghouse Electric Corp., c.
 Whitehead Stamping Co., e.
 William Whytock Co., d.
 Winder Aircraft Corp. of Florida, c, e, g.
 Woolf Aircraft Products, Inc., e.
 Worcester Pressed Steel Co., e.
 Wrought Washer Mfg. Co., a, e.

METAL STOCK, POROUS BEARING

Beemer Engrg. Co.
 Bendix Filter Div., Bendix Aviation Corp.
 Bound Brook Oil-Less Bearing Co.
 Bunting Brass & Bronze Co., The
 Utility Brass & Copper Corp.

METAL STOCK, THERMOSTATIC

American Silver Co., Inc.
 Bram Metallurgical Chemical Co.

Fansteel Metallurgical Corp.

METAL TREATING

American Car & Foundry Div. ACF Industries, Inc.
 Budd Co., The
 California Stamping & Mfg. Co.
 Capital City Mfg. Co., Inc.
 Chicago Screw Co., The, Div.-Standard Screw Co.
 Cincinnati Milling Machine Co., The
 Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co.
 Cowles Chemical Co.
 Cromer Mfg. & Engrg., Inc.
 Fenn Mfg. Co., The
 Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products Div.
 C. I. Hayes, Inc.
 A. F. Holden Co., The
 Kanarr Corp.
 Kelsey-Hayes Co.
 Lepel High Frequency Labs, Inc.
 Lyncing Div., Avco Corp.
 Marquardt Corp., The
***MARTIN CO., THE, DENVER DIV.**
 Northeast Metals Industries, Inc.
 Piasecki Aircraft Corp.
 Pioneer Industries Div., Almar-York Co. Inc.
 Ransohoff Co.
 Rimak, Inc.
 Sinclair Mfg. Co.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 Vapor Blast Mfg. Co.
 Wall Colmonoy Corp., Stainless Processing Div.

METEOROLOGICAL EQUIPMENT, ELECTRONIC

Advance Instrument Corp.
 Barth Engrg. & Mfg. Co., Inc.
 Beckman & Whitley, Inc., Instrument Div.
 Bendix Aviation Corp.
 Allen B. Du Mont Labs., Inc.
 Ferratran Electronics Co., Inc.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Madigan Corp.
 Molded Insulation Co.
 Motorola, Inc.
 National Co., Inc.
 National Scientific Labs, Inc.
 Phlco Corp.-Govt. & Industrial Group
 Raven Industries Inc.
 Specialty Electronics Development Corp.
 M. C. Stewart
 Swift Textile Metallizing & Laminating Corp.
 Virginia Electronics Co., Inc.
 Wang Labs., Inc.
 Winder Aircraft Corp. of Florida

METEOROLOGICAL INSTRUMENTS

Advance Instrument Corp.
 Aero Research Instrument Co. Inc.
 Beckman & Whitley, Inc., Instrument Div.
 Bellart Instrument Co.
 Bell & Gossett Co.
 Bendix Aviation Corp.
 Allen B. Du Mont Labs., Inc.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 W. & I. E. Gurley
 Molded Insulation Co.
 Motorola, Inc.
 Precision Thermometer & Instrument Co.
 Specialty Electronics Development Corp.
 M. C. Stewart
 Virginia Plak Co.
 Walloce & Tiernan Inc.
 Wang Labs., Inc.
 Weksler Instruments Corp.

METERS

- a. Acceleration
- b. Ammeter
- c. Ammeter RF
- d. Attenuation
- e. Audio
- f. Cable Testing
- g. Capacitance
- h. Conductance
- i. Counting Rate
- j. Counting Rate, Nuclear
- k. D'Arsonval
- l. Decibel
- m. Deflection
- n. Deviation
- a. Distortion & Noise
- p. Dosimeter
- q. Dosimeter, Nuclear
- r. Elapsed Time

- s. Electrometer
t. Electronic Micrometer
u. Events-Per-Unit-Time
v. Exposure for Film
w. Field Strength
x. Flow
y. Flutter
z. Flux
a-1. FM Deviation
b-1. Footcandle
c-1. Frequency
d-1. Galvanometer
e-1. Goniometer
f-1. Grid Dip
g-1. Impedance
h-1. Industrial
i-1. Infrared
j-1. Intermodulation
k-1. Kilovolt
l-1. Kilowatt
m-1. Light
n-1. Megohm
a-1. Microfarad
p-1. Microvolt
q-1. Microwave
r-1. Milliampere
s-1. Millivolt
t-1. Modulation
u-1. Moisture, Electronic
v-1. Multimeter
w-1. Multiplier
x-1. Noise, Electrical Measurement
y-1. Null
z-1. Ohm
o-2. Output, Electrical Measurement
b-2. Output, RF
c-2. Panel
d-2. Ph Meters, Recorders & Comparators
e-2. Phase
f-2. Photoelectric Reflection
g-2. Power Output
h-2. Pressure
i-2. Pyrometer
j-2. Q
k-2. Radiation, Nuclear
l-2. Rote
m-2. Ratio
n-2. Recording
o-2. RF Power
p-2. Snap Around
q-2. Sound Level
r-2. Spectral
s-2. Standing Wave Ratio
t-2. Tachometer
u-2. Tension
v-2. Thermocouple
w-2. Thermometer
x-2. Thurst
y-2. Time
z-2. Tarque
a-3. Ultra-Violet
b-3. Vacuum Tube Volt
c-3. Vibrating Reed
d-3. Vibration
e-3. Viscosity, Electronic
f-3. Volt-Hour, Electronic
g-3. Watt
h-3. Watt-Hour
i-3. Wave
j-3. Waw & Flutter
k-3. X-Ray Intensity
- *AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS, b, t-2.
A.R.F. Products, Inc., n.
Acme Industrial Co., x.
Acton Laboratories Inc., g-1, e-2, b-3, f-3.
Actuator Products Div., Geartronic Corp., t-2.
Advance Instrument Corp., e-1.
Advanced Electronics, Inc., d-3.
Aero Instrument Co., r, c-1, y-2, c-3.
*AEROJET-GENERAL CORP., i-1.
Aeronco Mfg. Corp.-Aerospace Div., t-2.
Aerosec, Inc., a, m.
Airborne Instruments Lab., Div.-Cutler-Hommer, Inc., x-1.
Aircorn Inc., q-1, s-2.
Allen Electric & Equipment Co., b, h-1, k-1, l-1, r-1, s-1, z-1, c-2, t-2, g-3.
Allied International Corp., y-1.
Ameroc Inc., c-1, q-1.
American Electronics Inc., Toller Cooper Div. & Data Systems Div., i, u.
American Instrument Co., Inc., d-2, i-2.
American Machine & Foundry Co., Government Products Group, n, p, c-1, t-2, f-3.
American Machine & Foundry Co., Government Products, N. Y., o, b, c-1, f-3.
American Missile Products Co., Inc., g, y-2.
American Sightlight Corp., m-1.
American Treador Corp., i, j, c-3.
Amthor Testing Instrument Co., Inc., n-2, t-2.
Analytical Measurements, Inc., d-2.
R. B. Annis Co., r.
Applied Physics Corp., s.
Arcor Co., r, n-2, y-2.
Assembly Products, Inc., b, k, h-1, r-1, s-1, c-2, d-2, z-2, g-3.
Associated Engineers, Inc., r-1, s-1.
Associated Research, Inc., f, k-1, n-1, z-1.
Audio Instrument Co., Inc., j-1.
Automatic Timing & Controls, Inc., r.
Automation Products, Inc., e-3.
Avco Corp., Crosley Div., o.
Avco Ltd., v-1.
Avtron Mfg., Inc., a-1, t-1.
B & H Instrument Co., Inc., x, c-1, d-1, s-1, y-1, h-2, i-2, t-2, v-2.
B & K Instruments, Inc., w, n-1, t-1, q-2, d-3.
Baird-Atomic, Inc., j, p, r, k-2.
Baldwin-Lima-Hamilton Corp., Electronics & Instrumentation Divs., z-2.
Barnes Development Co., g.
Rex Bassett, Inc., c-1.
E. Bauches S. A., Freeport Engrg. Co., y-2.
Bearing Inspection, Inc., x-1.
Beckman Instruments, Inc., Berkeley Div., r, u, x, c-1, t-2, y-2, f-3.
Belleville-Hexem Corp., s-1, n-1, s-1, y-1, z-1, b-3, f-3.
Bendix Aviation Corp., j, p, s, t, e-1, t-2, e-3.
Bendix Aviation Corp., Cincinnati Div., b, p, q, s, c-1, z-1, k-2, e-3.
Bergen Labs., Inc., r, z-2.
James G. Biddle Co., r, c-1, d-1, n-1, z-1, t-2, c-3.
A. Biederman, Inc., a, l, x, r-1, h-2, t-2, x-2.
Boonton Electronics Corp., o, f-1, y-1, b-3.
Boonton Radio Corp., j-2.
Arthur E. Booth Co., e-1.
Bowler Inc., Defense Div., x, h-1.
Briggs Associates, Inc., f.
*BRISTOL CO., THE, h-1, y-1, h-2, i-2, n-2, t-2, v-2, w-2.
Bristol Motors Div.-Vocaline Co. of America, Inc., r.
Brooks Rotameter Co., x.
Bruno-New York Industries Corp., n-1, v-1.
Brunswick Instruments, o-2.
Brush Instruments, Div.-Clevite Corp., n-2.
Budd Co., The, x, g-1, h-1, u-2.
Budelman Electronics Corp., n, o-1.
Bulova Research & Development Labs., Inc., h-2, t-2, z-2.
Burr-Brown Research Corp., e, f-3.
Burton-Rogers Co., Sales Div. Hoyt Electrical Instruments, b, d-1, r-1, s-1.
Bytrec Corp., s-1, u-2, x-2, z-2.
Calvert Electronics Inc., b thru i, k thru o, d-1, f-1, g-1, h-1, k-1, l-1, n-1 thru s-1, v-1, w-1, y-1, z-1, a-2, b-2, c-2, g-2, j-2, n-2 thru q-2, t-2, v-2, b-3, c-3, f-3 thru i-3.
Chemalloy Electronics Corp., q-1.
Clegg Labs., Div.-Clegg, Inc., f, g, g-1.
Coleman Instruments, Inc., d-2.
Consolidated Airborne Systems, Inc., u, c-1, n-1, y-1.
Consolidated Controls Corp., c-1, m-2.
*CONSOLIDATED ELECTRODYNAMICS CORP., d-1, u-1, h-2, d-3.
Control Data Corp., a.
Control Electronics Co., Inc., e-2, g-2.
Convoir Instruments, Convoir Div.-General Dynamics Corp., m-1, w-2.
Cosa Corp., d-3.
Cox Instruments Div., George L. Nankervis Co., x, c-1, h-1, h-2, z-2.
Cramer Controls Corp., r.
Crescent Engrg. & Research Co., t, x, y-1, a-2, h-2, u-2.
Crosby-Teletronics Corp., c-1.
Cubic Corp., n-1, p-1, z-1, q-2, g-3.
Daven Co., The, e, o, c-1, x-1, z-1, a-2, b-2, b-3, g-3.
Davenport Mfg. Co., k-1.
Joe Davidson & Associates, b-3.
Daystrom Inc., Pacific Div., a.
Daystrom Inc., Weston Instruments Div., b, c, g, i, k, l, r, t, v, z, b-1, c-1, d-1, f-1, g-1, k-1 thru n-1, p-1, r-1 thru w-1, y-1, z-1, a-2, c-2, l-2, m-2, n-2, p-2, q-2, t-2, v-2, w-2, b-3, f-3, g-3.
Decker Corp., The, g, m, n, t, x, y, c-1, h-1, s-1, u-1, h-2, u-2, z-2.
De Havilland Aircraft of Canada Ltd., Special Products Div., n, c-1, i-1.
Deur-Amsco Corp., Electronic Sales Div., b, k, l, r, v, b-1, k-1, m-1, p-1, r-1, s-1, v-1, z-1, c-2, q-2, v-2.
Del Electronics Corp., k-1.
Delsen Corp., u-1.
Deltron Inc., y-1, e-2.
Demoroy-Bonardi, c-1.
Diamond Antenna & Microwave Corp., q-1, i-3.
J. W. Dice Co., f, t.
Digital Sensors Inc., y-2.
W. C. Dillon & Co., Inc., u-2, w-2, z-2.
Dmeter Mfg. Co., w-1.
Douglas Microwave Co., Inc., q-1.
Allen B. Du Mont Labs., Inc., b-3.
Dynamics Instrumentation Co., p-1, s-1.
Dytronics Co., e-2.
Eagle Signal Co., r.
Eastern Specialty Co., The, e-2.
Eastman Kodak Co., a, m, n, v, i-1.
Eberline Instrument Corp., k-2.
Eclipse Fuel Engrg. Co., x.
Edgerton, Germeshausen & Grier, Inc., p, q.
Thomas A. Edison Ind. Instrument Div.-Mc. Grow-Edison Co., h-2, w-2, a-3.
Edwards High Vacuum Ltd., x.
Eisler Engrg. Co., Inc., i-2.
Elcor, Inc., s.
Elorado Electronics, y-2.
Electric Autolite Co., The, h-2, w-2.
Electric Design & Mfg. Co., b, k, r-1, s-1, c-2.
Electro Impulse Lab., Inc., o-2, g-3.
Electro Instruments, Inc., b, g thru j, n, u, c-1, g-1, h-1, k-1, n-1, o-1, p-1, r-1, s-1, v-1, z-1, e-2, t-2, m-2, n-2, y-2, f-3.
Electro Scientific Industries, y-1.
Electronic Applications, Inc., g, h, l, y, c-1, g-1, j-1, x-1, z-1, b-2, n-2, s-2, b-3, j-3.
Electronic Measurements Corp., f-3.
Electronics of Clearfield, Inc., s, b-2, b-3, f-3, g-3.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, r.
Ellison Draft Gage Co., Inc., x, h-1, h-2.
Empire Products Sales Corp., d, a, p, w, j-1, q-1, t-1, x-1, b-2, a-2.
Engrg. Specialties, j, u-1, d-2.
*ENGIS EQUIPMENT CO., d-1, e-1.
Epic, Inc., b, g, r, s, z, d-1, r-1, s-1, v-1, y-1, z-1, c-2, i-2, n-2, t-2, d-3, f-3, g-3.
Erdco Engrg. Corp., g, z-1.
Erie Instrumentation, Div.-Erie Resistor Corp., i, u.
Erie Resistor Corp., i, u, x, c-1, y-2.
FXR, Inc., c-1, g-1, q-1, m-2, a-2, s-2, t-3.
Farwest Mfg. Div., Inc., e-2.
Federal Products Corp., t.
Fenske, Fedrick & Miller Inc., c-1.
Ferrottron Electronics Co., Inc., x-3.
Fischer & Porter Co., x, h-2, w-2, e-1.
Fisher Scientific Co., d-2, e-2, n-2.
Fisher Scientific Co., Maryland, d-2, i-2, w-2.
Flow Corp., b-3.
Flow Measurements Corp., x.
Food Machinery & Chemical Corp., Ordnance Div., x.
Foto-Video Labs., Inc., z-1.
Franklin Electronics Inc., v-1, b-3.
Freed Transformer Co., Inc., a, n-1, y-1, j-2.
Garwin, Inc., h-2, t-2, v-2, w-2.
General Communication Co., d, q-1, g-2, o-2.
General Controls Co., i, t-2.
General Electric Co., Apparatus Sales Div., b, k, r, v, x, c-1, d-1, h-1, k-1, l-1, m-1, s-1, o-2, b-2, c-2, g-2, h-2, i-2, j-2, n-2, t-2 thru z-2, g-3, h-3.
General Electric Co., Instrument Dept., b.
General Electric Co. Ltd. of England, b-3, f-3.
General Electric Co., Missile & Space Vehicle Dept., Pa.
General Electric Co., X-Ray Dept., k-3.
General Radio Co., l, a, s, c-1, g-1, n-1, a-1, p-1, s-1, t-1, y-1, a-2, g-2, q-2, b-3, d-3, g-3.
Genisoc, Inc., d-3.
Globe Electronics, Div.-Textron Electronics, Inc., s-2.
John Gombos Co., Inc., c-1.
Gordon Enterprises, u, v, b-1, m-1.
Gray Mfg. Co., The, c-1.
Greibach Instruments Corp., b, k, d-1, k-1, n-1, r-1, v-1, y-1, z-1, c-2, v-2.
Gulton Industries, Inc., g, w-2.
Hogon Chemicals & Controls, Inc., x, d-2, h-2, m-2.
Hagen Mfg. Co., r.
Hallamere Electronics Co., Div.-Sieglar Corp., s-1.
Hallikainen Instruments, s, a-3, e-3.
Hamilton Watch Co., Military Products Div., r, y-2.
Hammett-Mercury-Rex Div., b, k, s, t, c-1, d-1, k-1 thru s-1, z-1, b-2, o-2, f-3 thru i-3, k-3.
Hathaway Instruments, Inc., d-1.
H. A. Haydon Co., The, r, y-2.
Hays Corp., The, d-2, h-2, v-2.
Helipot Div.-Beckman Instruments, Inc., b, c-1, r-1, c-2.
Hewlett-Packard Co., b, o, a-1, c-1, p-1, r-1, s-1, x-1, z-1, a-2, c-2, g-2, m-2, o-2, p-2, s-2, b-3, f-3, g-3, i-3.
Hickok Electrical Instrument Co., The, b, h, k thru o, t, w, b-1, c-1, d-1, f-1, g-1, h-1, k-1 thru s-1, v-1, y-1, z-1, a-2, b-2, c-2, f-2, u-2, v-2, w-2, b-3, f-3, g-3.
Highland Engrg. Co., x, x-2.
E. Vernon Hill & Co., d-3.
Hoke Inc., x.
Honeywell, Marion Instruments Div., b, n, r, z, r-1, s-1, y-1, z-1, c-2, f-3.
Hoyt Electrical Instrument Works, Inc., Burton Rogers Co., b, k, l, r-1, s-1, c-2.
I.L.S. Instrument Div., The Meriom Instrument Co., s.
ITI Electronics, Inc., v-1.
Iconix Inc., i, j, r, w, c-1, t-2, y-2.
Ideal Precision Meter Co., Inc., b, c, k, l, k-1, p-1, r-1,

s-1, c-2.
 Illinois Testing Laboratories, Inc., d-1, i-2, v-2, w-2.
 Image Instruments, inc., t, m-1.
 Impact-O-Graph Corp., The, a.
 Industrial Acoustics Co., Inc., p, q-2.
 Industrial Control Co., d-1, p-1, s-1, v-2, b-3.
 Industrial Instruments Inc., n-1, z-1.
 Industrial Test Equipment Co., y-1, e-2, b-3.
 Industrial Timer Corp., y-2.
 Infrared Industries, Inc., i-1.
 Ingraham Co., The, r.
 Instrument Div., The W. L. Maxson Corp., e-2.
 Instrument Electronics Corp., b-3.
 Instrument Labs., a-2, b-3, f-3.
 Instrument Div., The Budd Co., k-2, u-2, z-2.
 Integrated Dynamics Div., Globe Industries, Inc., a, i-2, x-2.
 International Electronic Research Corp., x, k-2.
 International Instruments Inc., b, c, k, r-1, s-1, c-2.
 Interstate Electronics Corp., f, i, j, p, q, r, f-1, k-2, i-2.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, j, q, k-2.
 Jennings Radio Mfg. Corp., k-1.
 Jo-Line Tools, Inc., z-2.
 Kahn & Co., Inc., g, w, x, y, z-1, t-2, d-3.
 Kay Electric Co., f, a, y, c-1, x-1, b-2, j-2, q-2, b-3, d-3, j-3.
 Keithley Instruments, Inc., s, z, k-1, n-1, p-1, y-1, z-1, b-3.
 Wayne Kerr Corp., s, k-1, q-1, t-1, d-3, g-3.
 Kin Tel Div.-Cohu Electronics, Inc., b, d-1, p-1, r-1, s-1, y-1.
 Leo Klein Electronics Co., z.
 James Knights Co., The, c-1.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., a, h-2, t-2, x-2.
 Lab. for Electronics, Inc., q-1.
 Lampkin Labs., Inc., M.R. Div., n, a-1, c-1, t-1.
 Lavoie Labs., Inc., c-1.
 Lear, Inc., x, e-1, i-1, u-1.
 Leeds & Northrup Co., d-1, n-1, p-1, s-1, y-1, z-1, d-2, i-2, v-2, w-2.
 Leland Airborne Products, Div.-American Machine & Foundry Co., r.
 *WALLACE O. LEONARD, INC., a, x, h-2, m-2.
 Lewis Engrg. Co., The, i-2, m-2, v-2, w-2.
 Liquidometer Corp., The, g, n-1.
 MB Electronics, a, x-1, d-3.
 MSA Research Corp., x.
 Mac Lead & Hanopol, Inc., n-1.
 Magnetic Instrument Co., Inc., v-2, w-2.
 Magtrol, Inc., t-2, z-2.
 Maico Electronics, Inc., t-2.
 Marconi Instruments, n, a-1, c-1, g-1, j-1, o-1, s-1, x-1, j-2, o-2, b-3, f-3, g-3, i-3.
 Marion Instrument Div.-Minneapolis-Honeywell Regulator Co., b, k, l, r, c-1, k-1, r-1, s-1, y-1, c-1, q-2.
 Martindale Electric Co., p-2, t-2.
 Mason-Neilson, x, n-2.
 W. L. Maxson Corp., The, x.
 Meters Inc., b, k, l, d-1, k-1, n-1, r-1, s-1, v-1, y-1, z-1, c-2, i-2, t-2.
 Metron Instrument Co., t-2, z-2.
 Metronix, Inc., Sub.-Assembly Products, Inc., s-1, c-2, b-3.
 Mico Instrument Co., i-3.
 Micrometrical Mfg. Co., n-2.
 Microwave Associates, Inc., q-1, s-2.
 James Millen Mfg. Co. Inc., f-1, g-1, s-2, i-3.
 Minco Products, Inc., w-2.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div., j, t.
 J. J. Monaghan Co., Inc., x.
 Motorola, Inc., a-1, j-1, q-1, t-1, o-2.
 Muirhead Instruments Inc., f, y-1, e-2, b-3.
 Narda Microwave Corp., The, c-1, q-1, q-1, i-3.
 National Co., Inc., a-1, c-1, q-1, g-2, o-2, g-3.
 National Electronics, b, c, k, l, b-1, c-1, d-1, h-1, k-1, t-1, r-1, s-1, v-1, z-1, c-2, e-2, g-2, n-2, t-2, w-2, c-3, g-3.
 National Instrument Laboratories, Inc., x.
 New England Scientific Instruments Co., b, g, s, d-1, k-1, t-1, n-1, r-1, s-1, u-1, d-2, n-2, g-3, h-3.
 New London Instrument Co. Inc., n, a-1, c-1, t-1.
 Nilsen Mfg. Co., e-2.
 Nilsson Electrical Lab., Inc., a, b, c, k, r, b-1, d-1, j-1, i-1, m-1, o-1, p-1, r-1, s-1, z-1, c-2, t-2, v-2, b-3, g-3.
 Non-linear Systems, Inc., z-1, f-3.
 Northeastern Engrg. Inc., c-1.
 Nuclear Corp. of America, i, j, q, k-2.
 Nuclear Development Corp. of America, r.
 Nuclear Measurements Corp., j, q, k-2.
 Nuclear-Chicago Corp., i, j, p, q, s, u-1, k-2, t-2.
 Paul Nurches Co., s-1, b-3.
 Ohmort Corp., The, p, q, s, k-2, c-3.
 Orbitron Co., Inc., x-2.
 Overload Control Co., z-2.
 Pace Electrical Instruments Co., Inc., b, e, k, l, d-1, r-1, s-1, v-1, z-1, c-2, b-3, f-3.
 Paco Electronics Co., Inc., b, c, e, g, k, l, f-1, g-1, r-1, s-1, v-1, z-1, a-2, b-2, c-2, q-2, b-3, f-3.
 Palmer Thermometers, Inc., n-2, w-2.
 Panoramic Radio Products, Inc., n, o, a-1, c-1, j-1, q-1, t-1, x-1, e-2, n-2, r-2.
 Parabam, Inc., r, y-2.
 Paterson Moos Research, Div.-Leesona Corp., i-1.
 Performance Measurements Co., t-2.
 Peschel Electronics, Inc., f, k-1.
 Phasotron Instrument & Electronic Co., b, k, r-1, s-1.
 Philco Corp.-Govt. & Industrial Group
 Richard Philip Co., u-1.
 Philips Electronic Instruments, k-3.
 Photovolt Corp., d-2, f-2.
 Photon Instrument Co., u, d-1, x-1, n-2, d-3.
 Plesceki Aircraft Corp., j, q, w, f-1, v-1, z-1, a-2, k-2.
 Polaroid Electronics Corp., w, q-1, g-2.
 Potter Aeronautical Corp., u, x, c-1, t-2, m-2.
 Powers Regulator Co., The, w-2.
 Precision Development Corp., b-3.
 Precision Radiation Instruments, Inc., j, k-2.
 Production Research Corp., Sub.-Radio Condensers Co., c-1, i-1, r-2.
 Projects Unlimited, Inc., f-1.
 Pyrometer Instrument Co., Inc., i-2, v-2, w-2.
 Q. V. S. Inc., b, l, d-1, k-1, n-1, r-1, s-1, v-1, y-1, z-1, c-2, i-2, w-2.
 Quan-Tech Labs., Inc., b, o, e-2.
 Radalab Inc., b thru i, f-1, g-1, n-1, a-1, q-1 thru t-1, v-1, x-1, a-2, b-2, n-2, o-2, r-2, s-2, v-2.
 Radar Design Corp., q-1, i-3.
 Radiation Instrument Development Lab., Inc., j, q, k-2.
 *RADIO CORP. OF AMERICA., c, d, e, g thru j, a-1, c-1, f-1, f-3.
 Radio Specialty Mfg. Co., a-1.
 Rantec Corp., q-1.
 Rawson Electrical Instrument Co., b, c, k, z, k-1, r-1, s-1, v-1, a-2, b-2, v-2, g-3.
 Revere Corp. of America, Sub., Neptune Meter Co., x.
 Rochester Mfg. Co. Inc., b, h-2.
 Rochester Mfg. Co. Inc. of Calif., b, w-2.
 Rosemount Engrg. Co., a.
 Milton Roy Co., d-2, h-2.
 Sangamo Electric Co., b, l-1, n-2, g-3, h-3.
 Schaevitz Engrg., a, h-2, u-2, x-2, z-2.
 Scientific & Process Instruments Div.-Beckman Instruments, Inc., d-2.
 H. H. Scott, Inc., l, y-1, q-2, d-3.
 Seco Mfg. Co., b-3.
 Sensitive Research Instrument Corp., b, c, e, k, z, c-1, d-1, j-1, l-1, r-1, s-1, w-1, c-2, m-2, v-2, g-3.
 Servo Consultants Ltd., g, h.
 Servo-Tek Products Co., v-1, z-1, t-2, f-3.
 Shallcross Mfg. Co., m, d-1, k-1, n-1.
 Sierra Electronic Corp., Div.-Philco Corp., g-2, o-2, b-3.
 Simmonds Aerocessories, Inc., x, h-2.
 Simpson Electric Co., b, c, e, g, k, l, r, w, d-1, k-1, l-1, n-1, r-1, s-1, v-1, y-1, z-1, c-2, q-2, v-2, w-2, y-2, b-3, f-3, g-3.
 Slaughter Co., Inc., f, n-1.
 A. O. Smith Corp., Smith-Erie Div., x, h-1.
 Solar Aircraft Co., c-1.
 Sonotone Corp., e.
 Southwest Research Institute, h, x, u-1, h-2.
 Southwestern Industrial Electronics Co., g, s, d-1, n-1, p-1, s-1, v-1, z-1, q-2, d-3, f-3.
 Specialty Electronics Development Corp., v-1, g-2, k-2, b-3, i-3.
 Spectra Electronics Corp., b-1, f-2, a-3.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., c-1, q-1, g-2, s-2, g-3.
 Sperry Piedmont Co., Div.-Sperry Rand Corp., e-2.
 Statham Development Corp., a, e-2.
 Statham Instruments, Inc., a, h-2, u-2, d-3.
 Herman H. Sticht Co., Inc., r, s, c-1, n-1, z-1, i-2, y-2, c-3.
 Stoddart Aircraft Radio Co., Inc., w, x-1.
 Strand Engrg. Co., k-2.
 Sun Electric Corp., Aeronautical Div., b thru e, k, l, r, x, c-1, k-1, r-1, s-1, t-1, a-2, b-2, c-2, o-2, d-3, g-3.
 Sunshine Scientific Instrument, b, f, g, h, k, d-1, h-1, n-1, p-1, r-1, s-1, v-1, y-1, z-1, a-2, c-2, p-2, t-2, e-2, w-2, y-2, z-2, b-3, f-3, g-3.
 B. K. Sweeney Mfg. Co., g, z-2.
 Syston Corp., r, u, c-1, m-2, y-2.
 W. A. Taylor & Co., d-2.
 Technology Instrument Corp., b, g, h, g-1, n-1, v-1, z-1, e-2, b-3.
 Temperature Engrg. Corp., i-2, v-2.
 Texas Instruments Inc., z-1, n-2, z-2.
 Thermo Electric Co., Inc., p-1, s-1, y-1, i-2, n-2, v-2.
 Thita Instrument Corp., y-1, e-2.
 Trocerlab Inc., p, q, k-2, k-3.
 Trans-Sonics, Inc., x, h-2, w-2.
 Trepac Corp. of America, a-1, s-1, o-2, b-2, g-2, n-2, o-2.
 Trio laboratories, Inc., n, h-1, s-1, y-1, a-2, e-2, b-3, f-3.
 Triplett Electrical Instrument Co., b, c, k, l, h-1, k-1, n-1, r-1, s-1, v-1, x-1, z-1, a-2, c-2, p-2, q-2, v-2, b-3, f-3, g-3.
 United Aircraft Products, Inc., x, h-2.
 U. S. Industries, Inc., x-1, r-2, z-2.
 U. S. Science Corp., Div.-Topp Industries, Inc., a, v.
 Varo Mfg. Co., Inc., e, n.
 Victor R. F. & Microwave Co., c-1, q-1, i-3.
 Victorean Instrument Co., i, j, p, q, s, k-2, t-2.
 Virginia Electronics Co., Inc., w, g-1.
 Vocaline Co. of America, Inc., r.
 Wacline, Inc., b, c, e, k, l, n, r, s, a-1, c-1, k-1, l-1, n-1, p-1 thru s-1, v-1, z-1, a-2, b-2, c-2, g-2, i-2, o-2, s-2 thru v-2, i-3.
 Wallace & Tiernan Inc., h-1, d-2, h-2.
 Walther Electronics Corp., j-2.
 Wang Labs., Inc.
 Warren Components, Div.-El-Tronics, Inc., u-1.
 Waugh Engrg. Co., x, c-1.
 Waveline, Inc., c-1, q-1, s-2, i-3.
 Weighing & Control Components, Inc., u-1, x-2.
 Weksler Instruments Corp., h-2, n-2, w-2, y-2.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co., b, k, l, b-1, d-1, l-1, k-1, l-1, m-1, r-1, z-1, c-2, d-2, f-2, i-2, q-2, v-2, g-3.
 Wells Industries Corp., i, u-1, f-2.
 Westberg Mfg. Co., c-1.
 Western Coil & Electrical Co., a-2.
 Westinghouse Electric Corp., b, t-2, n-2, h-3.
 Weston Hydraulics Ltd., Sub.-Borg-Warner Corp., e-2.
 Wollensak Optical Co., v.
 Yellow Springs Instrument Co., The, w-2.
 Zoomar Inc., m-1.
 MICA, GLASS BONDED
 Allied Plastics Supply Corp.
 Continental Diamond Fibre Corp.
 Insulation Mfrs. Corp.
 Mica Fabricating Co.
 Micacraft Products Inc.
 *MINNESOTA MINING & MFG. CO.
 Mycolex Corp. of America
 Tingstol Co.
 MICA PLATE & SHEET
 Allied Plastics Supply Corp.
 Asheville-Schoonmaker Mica Co.
 L. J. Barwood Mfg. Co. Inc.
 Arthur E. Booth Co.
 Bram Metallurgical Chemical Co.
 Insulation Mfrs. Corp.
 Mica Fabricating Co.
 Mica Insulator Div.-Minnesota Mining & Mfg. Co.
 Micacraft Products Inc.
 *MINNESOTA MINING & MFG. CO.
 Spruce Pine Mica Co.
 Tingstol Co.
 United Mineral & Chemical Corp.
 MICROMANOMETERS
 *CONSOLIDATED ELECTRODYNAMICS CORP.
 Decker Corp., The
 Flow Corp.
 E. Vernon Hill & Co.
 Trans-Sonics, Inc.
 Trimount Instrument Co.
 MICROMETERS, ELECTRONIC
 Bendix Aviation Corp.
 Brown & Sharpe Mfg. Co.
 Daystrom Inc., Weston Instruments Div.
 J. W. Dice Co.
 Electro Products Labs., Inc.
 Federal Products Corp.
 Hammett-Mercury-Rex Div.
 Wayne Kerr Corp.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div.
 Paco Electronics Co., Inc.
 MICRO-OHMMETERS
 James G. Biddle Co.
 J. W. Dice Co.
 Electro Instruments, Inc.
 Hammett-Mercury-Rex Div.
 Keithley Instruments, Inc.
 Paco Electronics Co., Inc.
 Shallcross Mfg. Co.
 Sunshine Scientific Instrument
 MICROPHONES
 American Microphone Mfg. Co., Div.-G-C Textron Electronics
 B & K Instruments, Inc.
 Budelman Electronics Corp.
 CBS Electronics, Div.-Columbia Broadcasting System, Inc.
 Chance Vought Aircraft, Inc.
 Du Kane Corp.

Electronic Applications, Inc.
 Electro-Voice, Inc.
 Fla. Aircraft Radio & Marine
 G. C. Electronics Co.
 General Coil Products Corp.
 Carl Hirschmann Co., Inc.
 Melody Master Mfg. Co.
 Motorola, Inc.
 Permflux Products Co.
 Photon Research Products
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Remler Co.
 Rye Sound Corp
 Sonatone Corp
 Stephens Truscon, Inc.
 Stromberg Carlson Div., General Dynamics Corp.

MICROSCOPES, ELECTRON

Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div
 New England Scientific Instruments Co.
 Philips Electronic Instruments
 *RADIO CORP. OF AMERICA
 Telechrome Mfg. Corp.

MICROSCOPES, OPTICAL

American Optical Co., Instrument Div.
 American Optical Co., Safety Products Div
 Bausch & Lomb Optical Co.
 Davidson Optronics, Inc.
 Edmund Scientific Co.
 Eglett Optical Co., Inc.
 *ENGIS EQUIPMENT CO.
 Fisher Scientific Co., Maryland
 Gardner Laboratory, Inc.
 Gordon Enterprises
 Carl Hirschmann Co., Inc.
 New England Scientific Instruments Co.
 Optical Gaging Products, Inc.
 Opto-Metric Tools, Inc.
 Parker-Hartford Corp., The

MICROWAVE ABSORBERS

Airtron, Div., Litton Industries
 Bogart Mfg. Corp.
 Carborundum Co., The
 Chemalloy Electronics Corp
 Dalmo Victor Co., Div., Textron, Inc.
 Joe Davidson & Associates
 Demornay-Bonardi
 Don-Lan Electronics Inc.
 Emerson & Cuming, Inc.
 Globar Plant, Retractories Div., The Carborundum Co.
 B. F. Goodrich Co., The
 B. F. Goodrich Sponge Products
 Gulton Industries, Inc.
 Hammett Mercury-Rex Div
 Kearlort Div., General Precision, Inc.
 Mc Millan Companies, The
 Mc Millan Lab., Inc.
 Microwave Associates, Inc.
 Pyroferic Co., Inc.
 Radar Design Corp.
 Rantec Corp.
 TRG, Inc.

MICROWAVE ACCESSORIES

ACF Electronics Div., ACF Industries Inc.
 ACF Industries Inc.
 Aircom Inc.
 Aircraft Armaments, Inc.
 Airtron, Div., Litton Industries
 Allied Research & Engrg., Div., Allied Record Mfg. Co.
 Aluminum Co. of America
 Amerac Inc.
 *ANDREW CORP.
 Automatic Switch Co.
 Bendix Aviation Corp.
 Bogart Mfg. Corp.
 Central Electronic Mfrs., Div., Nuclear Corp. of America
 Chance Vought Aircraft, Inc.
 Chemalloy Electronics Corp.
 Dalmo Victor Co., Div., Textron, Inc.
 Joe Davidson & Associates
 Demornay-Bonardi
 Diamond Antenna & Microwave Corp.
 Douglas Microwave Co. Inc.
 Electronic Applications, Inc.
 Enjoy Corp.
 Emertron, Sub., Emerson Radio & Phonograph Corp.
 Empire Products Sales Corp.
 FXR, Inc.
 Ferroxcube Corp. of America
 General Communication Co.
 General Instrument Corp., Defense & Engrg. Products

Group
 General Radio Co.
 Gilfillan Bros. Inc.
 Gorham Electronics Div., Gorham Mfg. Co.
 Hammett Mercury-Rex Div.
 George E. Harris & Co., Inc.
 Hazeltine Electronics Div., Hazeltine Corp.
 Hewlett-Packard Co.
 ITE Circuit Breaker Co., Special Products Div.
 J-V-M Microwave Co.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Lab. for Electronics, Inc.
 Lieco, Inc.
 Litton Industries, Maryland Div.
 Meridian Metalcraft, Inc.
 Microphase Corp.
 Microwave Associates, Inc.
 Motorola, Inc.
 Narda Microwave Corp., The
 Omega Labs, Inc.
 On Mark Couplings, Inc.
 Philco Corp., Govt. & Industrial Group
 Polytechnic Research & Development Co., Inc.
 Radalab Inc.
 Radar Design Corp.
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Rantec Corp.
 Sage Labs, Inc.
 Specialty Electronics Development Corp.
 Sperry Microwave Electronics Co., Div., Sperry Rand Corp.
 TRG, Inc.
 Tamar Electronics, Inc.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Technicraft, Div., Electronic Specialty Co.
 Telerad Mfg. Corp.
 Thompson Ramo Wooldridge Inc.
 Transco Products, Inc.
 Victor R. F. & Microwave Co.
 Waveline, Inc.

MICROWAVE JOINTS, ROTARY

Advanced Engineering Div., D. S. Kennedy & Co.
 Ainslie Corp.
 Aircom Inc.
 Airtron, Div., Litton Industries
 Allied Research & Engrg., Div., Allied Record Mfg. Co.
 Bendix Aviation Corp.
 Bogart Mfg. Corp.
 Central Electronic Mfrs., Div., Nuclear Corp. of America
 Chance Vought Aircraft, Inc.
 Dalmo Victor Co., Div., Textron, Inc.
 Joe Davidson & Associates
 Demornay-Bonardi
 Diamond Antenna & Microwave Corp.
 Don-Lan Electronics Inc.
 Douglas Microwave Co., Inc.
 FXR, Inc.
 Gilfillan Bros. Inc.
 Gorham Electronics Div., Gorham Mfg. Co.
 Hammett Mercury-Rex Div.
 Hazeltine Electronics Div., Hazeltine Corp.
 ITE Circuit Breaker Co., Special Products Div.
 J-V-M Microwave Co.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 D. S. Kennedy & Co.
 Lieco, Inc.
 Litton Industries, Maryland Div.
 Meridian Metalcraft, Inc.
 Microwave Associates, Inc.
 On Mark Couplings, Inc.
 Radalab Inc.
 Reeves Instrument Corp.
 Sage Labs, Inc.
 Sperry Microwave Electronics Co., Div., Sperry Rand Corp.
 Strand Engrg. Co.
 TRG, Inc.
 Taber Electronic Corp.
 Waveline, Inc.
 Wheeler Laboratories, Inc.

MIDFRAME SECTIONS

Beacon Steel Corp.
 Brooks & Perkins, Inc.
 Clark-Aiken Co., The
 ITE Circuit Breaker Co., Special Products Div.
 Kolcast Industries Div., Thompson Ramo Wooldridge Inc.
 *LAVELLE AIRCRAFT CORP.
 Solar Aircraft Co.
 Twin Coach Co., Aircraft-Missiles
 United States Chemical Milling Corp.
 Weber Aircraft Corp.
 Winder Aircraft Corp. of Florida

MIDFRAME SECTIONS, AXIAL FLOW

Beacon Steel Corp.
 ITE Circuit Breaker Co., Special Products Div.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.

MILLIOHMMETERS

James G. Biddle Co.
 Calvert Electronics Inc.
 Daystrom Inc., Weston Instruments Div.
 Dejur-Amsco Corp., Electronic Sales Div.
 Electro Instruments, Inc.
 Erdco Engrg. Corp.
 Hammett Mercury Rex Div.
 Hickok Electrical Instrument Co., The
 Industrial Instruments Inc.
 Keithley Instruments, Inc.
 National Electronics
 New England Scientific Instruments Co.
 Shallcross Mfg. Co.
 Simpson Electric Co.
 Southwestern Industrial Electronics Co.
 Hermon H. Slicht Co., Inc.
 Sunshine Scientific Instrument
 Technology Instrument Corp.

MIRRORS, INSPECTION

Semon Bache & Co.
 Bausch & Lomb Optical Co.
 Blowers Inc.
 Davidson Optronics, Inc.
 Eddington Metal Specialty Co.
 Edmund Scientific Co.
 *ENGIS EQUIPMENT CO.
 J. W. Fecker Div., American Optical Co.
 Industrial Tools Mfg. Corp., Sub. Pendleton Tool Industries, Inc.
 Liberty Mirror Div., Libbey-Owens-Ford Glass Co.
 Ohlson Empire Inc.
 Pacific Universal Products Corp.
 Tinsley Labs, Inc.
 Ullman Devices Corp.
 Van Wagner Co.

MIRRORS, SPECIAL PURPOSE

Allison Div., General Motors Corp.
 American Optical Co., Instrument Div.
 Arde-Portland, Inc.
 Semon Bache & Co.
 Bausch & Lomb Optical Co.
 Davidson Optronics, Inc.
 Edmund Scientific Co.
 *ENGIS EQUIPMENT CO.
 J. W. Fecker Div., American Optical Co.
 Gordon Enterprises
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hammett Mercury-Rex Div.
 Liberty Mirror Div., Libbey-Owens-Ford Glass Co.
 *MARTIN CO., THE, DENVER DIV.
 Northrop Corp.
 Ohlson Empire Inc.
 Optical Coating Lab., Inc.
 Pacific Universal Products Corp.
 Seiscor, Div., Seismograph Service Corp.
 Sillocks Miller Co.
 Singer Military Products Div., The Singer Mfg. Co.
 Spectracoat, Inc.
 Sterling Glass Corp.
 Texas Instruments Inc.
 Thermal Dynamic Products Div., Waltham Precision Instrument Co.
 Tinsley Labs, Inc.
 Valpey Crystal Corp.
 Van Wagner Co.
 Zenith Optical Laboratory
 Zoomar Inc.

MISSILE BOOSTERS

*AEROJET-GENERAL CORP.
 Aerojet-General Corp., Downey Plant
 Amcel Propulsion Inc.
 Bell Aircraft Corp., Niagara Frontier Div.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Bermite Powder Co.
 Broadview Research Corp.
 A. M. Byers Co.
 Calcor Corp.
 Chance Vought Aircraft, Inc.
 Douglas Aircraft Co., Inc.
 *EXCELCO DEVELOPMENTS INC.
 Gabriel Co., Rocket Power-Talco
 General Electric Co., Rocket Engine Section
 B. F. Goodrich Aviation Products
 Goodyear Aircraft Corp.
 Grand Central Rocket Co.
 Haskel Engrg. & Supply Co.
 Hicks Corp., The
 Ingersoll Kalamazoo Div., Borg Warner Corp.
 Kaiser Fleetwings, Inc.

Lockheed Aircraft Corp., Missiles & Space Div.
Lycoming Div., Avco Corp.
Marquardt Corp., The
Missile Div., North American Aviation, Inc.
Norris-Thermador Corp.
Olin Mathieson Chemical Corp., N. Y.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Pressed Steel Tank Co.
Propellex Chemical Div., Chromalloy Corp.
Reynolds Metals Co., Sheffield Missile Plant
Solar Aircraft Co.
U. S. Pipe & Foundry Co., Steel & Tubes Div.
Young Development Div., Hercules Powder Co.

MISSILE FRAMES

Aerocal Div., Aerona Mfg. Corp.
*AEROJET-GENERAL CORP.
Arde-Portland, Inc.
Atlas Industrial Corp.
Basic Tool Industries, Inc.
Cyril Bath Co., The
Beacon Steel Corp.
Beech Aircraft Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Bethlehem Steel Co.
E. W. Bliss Co.
Brooks & Perkins, Inc.
A. M. Byers Co.
Calcor Corp.
Chance Vought Aircraft, Inc.
Clark-Aiken Co., The
Colonial Aircraft Corp.
Cromer Mfg. & Engrg. Inc.
Dahlstrom Metallic Door Co.
Douglas Aircraft Co., Inc.
Dreyer Hanson Div., Crane Co.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Farwell Metal Fabricating
General Electric Co., Missile & Space Vehicle Dept.
General Electric Co., Missile & Space Vehicle Dept., Pa.
Guided Missile Div., The Firestone Tire & Rubber Co.
Herio Corp.
ITE Circuit Breaker Co., Special Products Div.
Iron Fireman Mfg. Co., Aircraft Div.
Kaiser Fleetwings, Inc.
Konarr Corp.
Kellett Aircraft Corp.
Ladish Co.
*LAVELLE AIRCRAFT CORP.
Lockheed Aircraft Corp., Missiles & Space Div.
Lycoming Div., Avco Corp.
Meg Products, Div.-Mandrel Industries, Inc.
Marquardt Corp., The
*MARTIN CO., THE, DENVER DIV.
Mc Donnell Aircraft Corp.
*MINNESOTA MINING & MFG. CO.
Missile Div., North American Aviation, Inc.
Monrovia Aviation Corp.
Narmco Mfg. Co.
Norris-Thermador Corp.
Northeast Metals Industries, Inc.
Northrop Corp.
Opelika Welding, Machine & Supply Inc.
Parsons Corp., Special Products Div.
Pisosecki Aircraft Corp.
REF Mfg. Corp.
Edw. Renneburg & Sons Co.
Republic Aviation Corp., Missile Systems Div.
Reynolds Metals Co.
Reynolds Metals Co., Sheffield Missile Plant
Rimak, Inc.
Spaceatoms Div., The Budd Co.
Stainless Inc.
Topco Group, Thompson Ramo Wooldridge Inc.
Temco Aircraft Corp.
Thompson Ramo Wooldridge Inc.
Twin Coach Co., Aircraft-Missiles
U. S. Industries, Inc.
U. S. Pipe & Foundry Co., Steel & Tubes Div.
United States Chemical Milling Corp.
Vincor Corp.
Waco Aircraft Co.
Weber Aircraft Corp.

MISSILE SUPPORT EQUIPMENT

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS
ACF Electronics Div., ACF Industries Inc.
ACF Industries Inc.
Accessory Controls & Equipment Corp.
Accessory Products Co., Div.-Textron Inc.
Adler Electronics, Inc.
Advance Industries, Inc.
Aerocal Div., Aerona Mfg. Corp.
Aeroflex Labs. Div., Aeroflex Corp.
*AEROJET-GENERAL CORP.

Aero-Test Equipment Co., Inc.
Aerolest Laboratories, Inc.
Air Logistics Corp.
Airborne Accessories Corp.
*AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.
All American Engrg. Co.
Allis-Chalmers
Allison Steel Mfg. Co.
American Car & Foundry Div., ACF Industries, Inc.
American Latex Products Corp.
American Machine & Foundry Co.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Government Products, N. Y.
American Machine & Foundry Co., Greenwich Engrg. Div.
American Missile Products Co., Inc.
*AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
Anahim Electronics Div.-Electronic Engrg. Co. of Calif.
Anderson, Greenwood & Co.
*ANDREW CORP.
Arde-Portland, Inc.
Armament Div.-Universal Match Corp.
Arnoff Corp.
Aronson Machine Co., Inc.
Arrowhead Products, Div.-Federal-Mogul-Bawer Bearings, Inc.
Associated Co., Inc.
Atlas Industrial Corp.
Avco Corp., Nashville Div.
Avco Corp.-Research & Advanced Development Div.
Avron Mfg., Inc.
*Baiff Engrg. & Mfg. Co., Inc.
Basic Tool Industries, Inc.
Beacon Steel Corp.
Beech Aircraft Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Bell & Gossett Co.
Belock Instrument Corp.
Benbow Mfg. Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Filter Div., Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bernco Engrg. Corp.
E. W. Bliss Co.
Bogue Electric Mfg. Co.
Bowmar Instrument Corp.
Broadview Research Corp.
Brooks & Perkins, Inc.
Bruce Engrg. Co.
Budd Co.
The Budd Lewyt Electronics, Inc.
A. M. Byers Co.
Calcor Corp.
California Stamping & Mfg. Co.
Cambridge Filter Corp.
Camerflex Div., The Federal Mfg. & Engrg. Corp.
Captive Seal Corp.
Caterpillar Tractor Co., Defense Products Dept.
Chance Vought Aircraft, Inc.
Chicago Bridge & Iron Co.
Clark Bros. Co., Div.-Dresser Operations, Inc.
Clark Equipment Co.
Clark-Aiken Co., The
Compydne Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Continental Aviation & Engrg. Corp.
Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co.
Control Technology Co.
Craig Systems, Inc.
Crane Co., Special Products Div.
Crescent Engrg. & Research Co.
Cromer Mfg. & Engrg., Inc.
Cryogenic Engrg. Co.
Curtiss-Wright Corp., Santa Barbara Div.
Cutler Metal Products Co.
Dahlstrom Metallic Door Co.
Dalmo Victor Co., Div.-Textron, Inc.
Dana Corp.
C. R. Daniels, Inc.
Davidson Optronics, Inc.
Daystrom Inc., Transicoil Div.
De Havilland Aircraft of Canada, Ltd., Special Products Div.
Delavan Mfg. Co.
*DEL MAR ENGRG. LABS.
Designers for Industry, Inc.
Douglas Aircraft Co., Inc.
Dreyer Hanson Div.-Crane Co.
Du Kane Corp.
Allen B. Du Mont Labs, Inc.
Dynatronics, Inc.
Electro Instruments, Inc.
Emertson, Sub.-Emerson Radio & Phonograph Corp.
*EQUIPMENT DIV., RAYTHEON CO.

Eubank Industries, Inc.
Ex-Cell-O Corp.
FWD Corp.
FAE Instrument Corp.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Farwell Metal Fabricating
J. W. Fecker Div., American Optical Co.
Firestone Indsl. Products Co., Div.-Firestone Tire & Rubber Co.
Flight Refueling, Inc.
Flight Support, Inc.
Food Machinery & Chemical Corp., Ordnance Div.
Ford Instrument Co., Div.-Sperry Rand Corp.
Futurecraft Corp.
General American Transportation Corp.
General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept.
General Electric Co., Light Military Electronics Dept.
General Electric Co., Missile & Space Vehicle Dept.
General Electric Co., Ordnance Dept.
General Logistics Div., Aeroquip Corp.
Genisco, Inc.
Gillilan Bros. Inc.
B. F. Goodrich Aviation Products
Goodyear Aircraft Corp.
Gramm Trailer Corp.
Great Lakes Mfg. Corp.
Gremco, Inc.
Grove Valve & Regulator Co.
Guidance Controls Corp.
Guided Missile Div., The Firestone Tire & Rubber Co.
Gyrex Corp., The
B. H. Hadley, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Hammett-Mercury-Rex Div.
Harco Containers Div.-Harbor Boat Building Co.
Harman Equipment Co.
Haskel Engrg. & Supply Co.
A. W. Haydon Co., The
Hazeltine Electronics Div.-Hazeltine Corp.
Hobart Brothers Co.
Hoefner Corp.
Hoover Electronics Co.
*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.
Hughes Tool Co., Aircraft Div.
Hydra-power Corp.
Hydraulic Research & Mfg. Co.
ITT Federal Div., International Telephone & Telegraph Corp.
Industrial Equipment Div., Baldwin Lima Hamilton Corp.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Dynamics Corp.
International Ferromot Machinery Co., Inc.
International Steel Co.
Interstate Electronics Corp.
Irving Air Chute Co., Inc.
Jack & Heintz, Inc.
Janke & Co. Inc.
Konarr Corp.
*KEARFOTT DIV., GENERAL PRECISION, INC.
Kellett Aircraft Corp.
Kerns Mfg. Corp.
Kigley & Mueller, Inc.
Kollman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Langley Corp.
Leach Corp.
Lear, Inc.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Librascope Div., General Precision, Inc.
Link-Belt Co.
Liton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Lofstrand Co., The
Lycoming Div., Avco Corp.
Lyncoach & Truck Co. Inc.
MEG Products, Div.-Mandrel Industries, Inc.
Madigan Corp.
Marchant Machining Corp.
Marquardt Corp., The
*MARTIN CO., THE, DENVER DIV.
Mason-Neilan
W. L. Maxson Corp., The
Mc Donnell Aircraft Corp.
Mc Dowell-Wellman Companies, The
Metronix, Inc., Sub.-Assembly Products, Inc.
Miami Engrg., Div.-Miami Shipbuilding Corp.
Micro Gee Products, Inc.
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Missile Div., North American Aviation, Inc.
Monrovia Aviation Corp.
George L. Nankervis Co.
Napier Engines Inc.

Northeast Metals Industries, Inc.
 Northrop Corp.
 Nortronics, Div.-Northrop Corp.
 Olin Matheson Chemical Corp., Winchester-
 Western Div.
 On Mark Couplings, Inc.
 Optomechanisms Inc.
 PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y.
 Pacific Automation Products, Inc.
 Pacific Coast Engrg. Co.
 Packard-Bell Electronics Corp.
 Pegasus Labs, Inc.
 Perkin-Elmer Corp.
 Pasco Products Div.-Borg-Warner Corp.
 Philco Corp.-Govt. & Industrial Group
 Pisecki Aircraft Corp.
 Pre-Flite Industries Corp.-Sub.-Avco Mfg. Corp.
 Fry Welding & Mfg. Inc.
 REF Mfg. Corp.
 Radiophone Co. Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELEC-**
TRONICS PRODUCTS
 Radio Development & Research Corp.
 Ramo-Woolldridge, Div.-Thompson Ramo
 Woolldridge Inc.
 Rantec Corp.
 Recony Div., Vinco Corp.
 Reed Research Inc.
 Republic Aviation Corp., Missile Systems Div.
 Research Controls
Resistoflex Corp.
 Rimak, Inc.
 J. R. Robbins Co.
 Rome Cable Div.-Alcoa
 Ronson Hydraulic Units Corp.
 Rucker Co., The
 Royan Industries, Inc., Dept. M
 Sancer Dept.
 Sargent Engrg. Corp.
 Schaffler Air Industries, Inc.
 Seeburg Corp., The
 Silent Hoist & Crane Co.
 Skiatron Electronics & Television Corp.
 Skydyne, Inc.
 Skyline Electric & Mfg. Co.
 Solar Aircraft Co.
 Soroban Engrg., Inc.
 Southwestern Valve Corp.
 Spaceotomics Div.-The Budd Co.
 Specialty Electronics Development Corp.
 Spectra Electronics Corp.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp.
 Stainless Inc.
 Stamping Div., Rockwell Standard Corp.
 Standard Steel Corp., Cambridge Div.
 Stearns-Roger Mfg. Co., The
 A. U. Stone & Co., Inc.
 Struthers Wells Corp.
 Sun Electric Corp., Aeronautical Div.
 Superior Industrial Machine Co.
 Topco Group, Thompson Ramo Woolldridge Inc.
 Telkor, Inc.
 Temco Aircraft Corp.
 Theta Instrument Corp.
 Thiokol Chemical Corp., Hunter Bristol Div.
 H. I. Thompson Fiber Glass Co.
 Thompson Ramo Woolldridge Inc.
 Transco Products, Inc.
 Tucson Instrument Corp.
 Twin Coach Co., Aircraft-Missiles
 United Aircraft Products, Inc.
 United Mfg. Co., The
 United Mfg. Co., Div., The W. L. Maxxon Corp.
 U. S. Industries, Inc.
 U. S. Pipe & Foundry Co., Steel & Tubes Div.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 United States Rubber Co.
 United States Steel Corp.
 Universal Dynamics Corp.
 Varo Mfg. Co., Inc.
 Vickers Inc., Div.-Sperry Rand
 Vickers, Inc., Mich.
***WEATHERHEAD CO., THE**
 Weber Aircraft Corp.
 Welded Construction Inc.
 Wells Industries Corp.
 Western Design, Div.-U. S. Industries Inc.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.
 Wickes Engrg. & Construction Co.
 Wickfield, Inc.
 Winder Aircraft Corp. of Florida
 Wolverine Diesel Power Co.

MISSILES, GROUND CHECK-OUT EQUIPMENT
***AC SPARK PLUG, THE ELECTRONICS DIV.**
GENERAL MOTORS
 ACF Electronics Div., ACF Industries Inc.
 ACF Industries Inc.
 A. R. F. Products, Inc.
 Accessory Controls & Equipment Corp.
 Accessory Products Co., Div.-Textron Inc.

Adler Electronics, Inc.
 Advance Industries, Inc.
 Aeroflex Labs. Div.-Aeroflex Corp.
***AEROJET-GENERAL CORP.**
 Aerona Mfg. Corp.-Aerospace Div.
 Aero-Test Equipment Co., Inc.
 Aerolest Laboratories, Inc.
 Air Logistics Corp.
***AIRESEARCH MFG. CO. DIV.-THE GARRETT**
CORP.
 American Electronics, Inc.
 American Machine & Foundry Co., Government Pro-
 ducts Group
 American Machine & Foundry Co., Government Pro-
 ducts, N. Y.
 American Missile Products Co., Inc.
 American Rectifier Corp.
 Anaheim Electronics Div.-Electronic Engrg. Co. of
 Calif.
 Anderson, Greenwood & Co.
 Antlab Inc.
 Armament Div.-Universal Match Corp.
 Arnolt Corp.
***ARNOUX CORP.**
 Automatic Switch Co.
 Autonetics, Div.-North American Aviation, Inc.
 Avco Corp.-Research & Advanced Development Div.
 Avion, Inc.
 Avtron Mfg., Inc.
 Beacon Steel Corp.
 Beckman-Systems Div.
 Beech Aircraft Corp.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bell & Gossett Co.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Bendix Aviation Corp., York Div.
 Bendix Corp., The Eclipse-Pioneer Div.
 Bendix Filter Div., Bendix Aviation Corp.
 Bendix-Pacific Div., Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION**
CORP.
 Benson-Lehner Corp.
 Benico Engrg. Corp.
 Bogue Electric Mfg. Co.
 Broadview Research Corp.
 Brunson Instrument Co.
 Budd Co., The
 Budd Lewyt Electronics, Inc.
 Bulova Research & Development Labs., Inc.
 CBS Laboratories, Div.-Columbia Broadcasting
 System
 Calcor Corp.
 Cameralflex Div., The Federal Mfg. & Engrg. Corp.
 Captive Seal Corp.
 Caterpillar Tractor Co., Defense Products Dept.
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Compydne Corp.
 Consolidated Diesel Electric Corp.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Control Technology Co.
 Craig Systems, Inc.
 Crescent Engrg. & Research Co.
 Curtiss Wright Corp., Santa Barbara Div.
 Dalmo Victor Co., Div.-Textron, Inc.
 Datascan Inc.
 Davidson Optronics, Inc.
 Daystrom, Inc., Military Electronics Div.
 De Havilland Aircraft of Canada, Ltd., Special Prod-
 ucts Div.
***DEL MAR ENGRG. LABS.**
 Designers for Industry, Inc.
 Di-Mco, Inc.
 Douglas Aircraft Co., Inc.
 Du Kane Corp.
 Allen B. Du Mont Labs., Inc.
 Dunn Engrg. Associates Inc.
 Dynamics Corp.
 Dynatronics, Inc.
 Eastman Kodak Co.
 Electric Machinery Mfg. Co.
 Electro Instruments, Inc.
 Electronic Engrg. Co. of California
 Electronic Tube Corp.
 Electronics Div.-The National Cash Register Co.
 Emertron, Sub. Emerson Radio & Phonograph Corp.
***ENGIS EQUIPMENT CO.**
***EQUIPMENT DIV., RAYTHEON CO.**
 Erie Instrument, Div.-Erie Resistor Corp.
 FAE Instrument Corp.
 Fairchild Aircraft & Missiles Div., Fairchild Engine &
 Airplane Corp.
 Fairchild Astrionics Div., Fairchild Engine & Airplane
 Corp.
 Farwest Mfg. Div., Inc.
 J. W. Fecker Div., American Optical Co.
 Flight Support, Inc.
 Food Machinery & Chemical Corp., Ordnance Div.
 Ford Instrument Co., Div.-Sperry Rand Corp.

Futurecraft Corp.
 Gates Electronic Co.
 General Communications Co.
 General Electric Co., Armament & Control Sect.,
 Light Mil. Elec. Dept.
 General Electric Co., Computer Dept.
 General Electric Co., Heavy Military Electronics
 Dept.
 General Electric Co., Light Military Electronics
 Dept.
 General Electric Co., Missile & Space Vehicle Dept.
 General Electric Co., Missile & Space Vehicle Dept.,
 Pa.
 General Mills, Inc.
 Genisco, Inc.
 Gillfillan Bros. Inc.
 Goodyear Aircraft Corp.
 Gramm Trailer Corp.
 Great Lakes Mfg. Corp.
 Grecco, Inc.
 Guidance Controls Corp.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 B. H. Hadley, Inc.
 Hamilton Standard, Div.-United Aircraft Corp.
 Hamilton Watch Co., Military Products Div.
 Haskel Engrg. & Supply Co.
 Hathaway Instruments, Inc.
 A. W. Haydon Co., The
 Hazeltine Electronics Div.-Hazeltine Corp.
 Hoefner Corp.
 Hoover Electronics Co.
***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON**
FEARLESS CORP.
 Hughes Tool Co., Aircraft Div.
 Huyck Systems Co.
 Hydraulic Research & Mfg. Co.
 ITT Federal Div., International Telephone &
 Telegraph Corp.
 Iconix Inc.
 Indiana Gear Works, Inc.
 Intercontinental Dynamics Corp.
 International Ferromat Machinery Co., Inc.
 International Steel Co.
 Interstate Electronics Corp.
 Janke & Co. Inc.
 Kahn & Co. Inc.
***KEARFOTT DIV., GENERAL PRECISION, INC.**
 Kellert Aircraft Corp.
 Kollsman Instrument Corp., Sub.-Standard Coil Pro-
 ducts Co. Inc.
Lab. for Electronics, Inc.
 Leach Corp.
 Lear, Inc.
***WALLACE O. LEONARD, INC.**
 Librascope Div., General Precision, Inc.
 Litton Industries, Maryland Div.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lycoming Div., Avco Corp.
 MEG Products, Div.-Mandrel Industries, Inc.
 Madigan Corp.
 Marquardt Corp., The
***MARTIN CO., THE, DENVER DIV.**
 W. L. Maxxon Corp., The
 Mc Donnell Aircraft Corp.
 Metronix, Inc., Sub.-Assembly Products, Inc.
 Micro Gee Products, Inc.
 Migo Electronic Corp.
 Millipore Filter Corp.
 Minneapolis Honeywell Regulator Co., Aeronautical
 Div.
 Missile Div., North American Aviation, Inc.
 Motor Generator Corp.
 Motorola, Inc.
 Mullenbach Div.-Electric Machinery Mfg. Co.
 George L. Nankervis Co.
 National Co., Inc.
 Navigation Computer Corp.
 Northrop Corp.
 Nortronics, Div.-Northrop Corp.
 On Mark Couplings, Inc.
 Optomechanisms Inc.
 Pacific Automation Products, Inc.
 Packard Bell Computer Corp.
 Packard Bell Electronics Corp.
 Ralph M. Parsons Co., The, Electronics Div.
 Pegasus Labs, Inc.
 Perkin-Elmer Corp.
 Pesco Products Div.-Borg-Warner Corp., Calif.
 Philco Corp.-Govt. & Industrial Group
 Potter Instrument Co., Inc.
 Pre-Flite Industries Corp.-Sub.-Avco Mfg. Corp.
 Prior Mfg. Co.
 REF Mfg. Corp.
 Radiophone Co. Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRON-**
ICS PRODUCTS
 Radio Development & Research Corp.
 Ramo-Woolldridge, Div.-Thompson Ramo
 Woolldridge Inc.
 Republic Aviation Corp., Missile Systems Div.

Research Controls
Richmont, Inc.
J. R. Robbins Co.
Ranson Hydraulic Units Corp.
Royal Jet, Div.-Royal Industries, Inc.
Rucker Co., The
Sancor Corp.
Sargent Engrg. Corp.
Schaffer Air Industries, Inc.
Seeburg Corp., The
Skiatron Electronics & Television Corp.
Skydne, Inc.
Skyline Electric & Mfg. Co.
Southwestern Valve Corp.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Squiers Gage Co.
Stearns-Roger Mfg. Co., The
Stromberg-Carlson Div.-General Dynamics Corp.
Sulzbach Corp., Aeronautical Dynamics
Sunstrand Turbo
Superior Industrial Machine Co.
TRG, Inc.
Taffet Electronics, Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Teltor, Inc.
Temco Aircraft Corp.
Theta Instrument Corp.
Thompson Ramo Wooldridge Inc.
Tranco Products, Inc.
Trio Laboratories, Inc.
Tucson Instrument Corp.
Twin-Couch Co., Aircraft-Missiles
United Aircraft Products, Inc.
United Mfg. Co., Div., The W. L. Maxson Corp.
U. S. Industries, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Varo Mfg. Co., Inc.
Vickers Inc.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Vincor Corp.
***WEATHERHEAD CO., THE**
Weber Aircraft Corp.
Wells Industries Corp.
Western Gear Corp.-Precision Products Div.
Westinghouse Electric Corp.
Wiancko Engrg. Co.
Wickes Engrg. & Construction Co.
Wolverine Diesel Power Co.

MIXING MACHINES

Alsop Engrg. Corp.
Atlantic Research Corp.
J. H. Day Co., The, Div.-The Cleveland Automatic
Machine Co.
Del's Tumbling Service
Gardner Laboratory, Inc.
General American Transportation Corp.
Houston Fearless Corp.
Murphy & Miller Inc.
Naz-Dar Co.
Pfaudler Div., Pfaudler Permutit Inc.
Pyles Industries, Inc.
Read Standard, Div.-Capitol Products Corp.
Edw. Renneburg & Sons Co.
Charles Ross & Son Co., Inc.
Skinner Engine Co.
Standard Steel corp., Cambridge Div
F. J. Stokes Corp.

MOBILE LIQUID OXYGEN & CLEANING FACILITY

***STELLARDYNE LABS., INC.**

MODULATORS, MAGNETIC

ACDC Electronics, Inc.
ACF Industries Inc.
Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bradley Semiconductor Corp.
De Havilland Aircraft of Canada, Ltd., Special Products Div.
***EQUIPMENT DIV., RAYTHEON CO.**
Freed Transformer Co., Inc.
General Devices, Inc.
General Magnetics, Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Icar, Inc.
Levinthal Electronic Products, Inc.
Magnetic Circuit Elements, Inc.
Micro Gee Products, Inc.
Microwave Associates, Inc.
Northrop Corp.
Philco Corp.-Govt. & Industrial Group
Polyphase Instrument Co.
RS Electronics Corp.
***RADIO CORP. OF AMERICA**
Rantec Corp.
Standard Electronics Div.-Reeves Instrument Corp.

Torwica Electronics, Inc.
Tresco, Inc.
Varo Mfg. Co., Inc.
Voi-Shan Electronics
Westinghouse Electric Corp.

MODULATORS, PULSE

ACF Industries Inc.
Bendix Aviation Corp.
Blonder-Tongue Labs, Inc., Special Products Div.
Bradley Semiconductor Corp.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.**
Doystrom Inc., Weston Instruments Div.
Dorsett Electronic Labs., Inc.
Dytronics Co.
***EQUIPMENT DIV., RAYTHEON CO.**
General Devices, Inc.
Huyck Systems Co.
Icar, Inc.
MEG Products, Div.-Mandrel Industries, Inc.
Madigan Corp.
Magnetic Circuit Elements, Inc.
W. L. Maxson Corp., The
Micro Gee Products, Inc.
Motorola, Inc.
National Co., Inc.
Philco Corp.-Govt. & Industrial Group
Radiation, Inc.
***RADIO CORP. OF AMERICA**
Rantec Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Theta Instrument Corp.
Varo Mfg. Co., Inc.
Victory Engrg. Corp.
Virginia Electronics Co., Inc.

MODULATORS, PULSE

ACDC Electronics, Inc.
ACF Industries Inc.
AMP Inc.
Amerc Inc.
Applied Electronics Corp. of N. J.
Bendix Aviation Corp.
Bradley Semiconductor Corp.
Clegg Labs., Div.-Clegg, Inc.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.**
***DEL MAR ENGRG. LABS.**
Dorsett Electronic Labs., Inc.
***EQUIPMENT DIV., RAYTHEON CO.**
FXR, Inc.
Filtron Co., Inc.
General Devices, Inc.
General Instrument Corp., Defense & Engrg. Product Group
General Radio Co.
Hazeltine Electronics Div.-Hazeltine Corp.
Huyck Systems Co.
Levinthal Electronic Products, Inc.
MEG Products, Div.-Mandrel Industries, Inc.
Madigan Corp.
Manson Labs, Inc.
Marconi Instruments
W. L. Maxson Corp., The
Micro Gee Products, Inc.
Microwave Associates, Inc.
Mid-West Coil & Transformer Co.
Motorola, Inc.
Narda Microwave Corp., The
National Co., Inc.
Omega Labs, Inc.
Philco Corp.-Govt. & Industrial Group
RS Electronics Corp.
***RADIO CORP. OF AMERICA**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Rantec Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Varo Mfg. Co., Inc.
Victory Engrg. Corp.
Voi-Shan Electronics

MOLDERS, PLASTIC

American Latex Products Corp.
Associated Engrg. Corp.
Chemplast, Inc.
Courier Products, Div.-Model Engrg. & Mfg., Inc.
Dimco-Gray Co.
Eisler Engrg. Co., Inc.
Ejay Corp.
Embold Co., Inc., The
Eubanks Industries, Inc.
Formica Corp.
Form-It Products, Inc.
Garlock Packing Co.
General American Transportation Corp.
George E. Harris & Co., Inc.
Heil Process Equipment Corp.
Hydro Molding Co., Inc.

Industrial Devices, Inc.
Jactin Mfg. Co., The
H. Koch & Sons
Kurz-Kasch, Inc.
Lone Star Plastics Co., Inc.
Luzerne Rubber Co.
***MINNESOTA MINING & MFG. CO.**
Molded Insulation Co.
Mycalex Corp. of America
Olympic Plastics Co., Inc.
Panduit Corp.
Plastic Age Sales, Inc.
Prewitt Aircraft Co.
Pry Welding & Mfg. Inc.
Quality Components, Inc.
Remler Co.
Milan Rass Metals Co., The
Sanford Plastics Corp.
Sillcocks-Miller Co.
Swedlow Inc.
Tetrafluor, Inc.
Thickol Chemical Corp. Hunter-Bristol Div.
Tapper Mfg. Co., Inc.
Waterbury Companies, Inc.
Western Coil & Electrical Co.
Western Central Corp.
Westinghouse Electric Corp., Micarta Div.

MOLYBDENUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
American Silver Co., Inc.
Associated Engrg. & Mfg. Corp.
Bram Metallurgical Chemical Co.
Budd Co., The
Climax Molybdenum Co. of Michigan
Custom Tool & Mfg. Co.
Eisler Engrg. Co., Inc.
Electronic Parts Mfg. Co., Inc.
Elmet Div. North American Philips Co., Inc.
Fonsteel Metallurgical Corp.
Firth Sterling Inc.
General Electric Co., Lamp Metals & Components Dept.
Harvey Aluminum
Hughes Tool Co., Aircraft Div.
Walter K. Jaros Aircrafters
Johnson & Funk Metallurgical Corp.
NUMEC-Nuclear Materials & Equipment Corp.
Rembar Co., Inc., The
Strauffer Chemical Co.
Steel Improvement & Forge., The
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
Thermionic Aeronautical Div.
United Mineral & Chemical Corp.
Universal-Cyclops Steel Corp.
Var-Loc-Oid Chemical Co.
Wah Chang Corp.
Westinghouse Electric Corp.
Wyman-Gordon Co.

MONEL

Accurate Specialties Co. Inc.
American Nickel Alloy Mfg. Corp.
American Silver Co., Inc.
Ampco Metal, Inc.
Bram Metallurgical Chemical Co.
Crucible Steel Co. of America
Deringer Metallurgical Corp.
Wilbur B. Driver Co.
Driver-Harris Co.
Electronic Parts Mfg. Co., Inc.
Hamilton Watch Co.-Industrial Div.
Huntington Alloy Products Div.-The International Nickel Co., Inc.
Walter K. Jaros Aircrafters
Rodney Metals Inc.
Roovers-Lotsch Corp.
Techalloy Co., Inc.
Var-Loc-Oid Chemical Co.
Wai Met Alloys Co.

MONITORING EQUIPMENT, TRANSMISSION

Aerona Mfg. Corp.-Aerospace Div
Allied International Corp.
Applied Electronics Corp. of N. J.
***ARNOUX CORP.**
Babcock Radio Engrg., Inc.
Bendix Aviation Corp., Cincinnati Div.
Budd Lewyt Electronics, Inc.
Douglas Microwave Co., Inc.
Electronic Applications, Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
Flight Support, Inc.
General Radio Co.
Land-Air Inc., Sub.-California Eastern Aviation, Inc.
Lynch Carrier Systems Inc.
***MARTIN CO., THE, DENVER DIV.**

Moore Associates, Inc.
Motorola, Inc.
New London Instrument Co. Inc.
Philco Corp., Govt. & Industrial Group
Sun Electric Corp., Aeronautical Div.
Tamar Electronics, Inc.
Telchrome Mfg. Corp.
Television Utilities Corp.
Telex, Inc.
Trepac Corp. of America
U. S. Science Corp., Div.-Topp Industries, Inc.

MONITORS

- a. AM & FM Transmitter
- b. Antenna
- c. Audio
- d. Frequency
- e. Line & Program
- f. Modulation
- g. Phase
- h. RF Power
- i. Service
- j. Shift
- k. Waveform

Allied International Corp., a.
Amerac Inc., a, d.
American Missile Products Co., Inc., a.
Antalab Inc., b, d.
Applied Electronics Corp. of N. J., a, h.
Beckman Instruments, Inc., Berkeley Div., d.
Bendix Aviation Corp., Cincinnati Div., a, c, d.
Blonder-Tongue Labs. Inc., Special Products Div., Brunswick Instruments, h.
Budd Lewyt Electronics, Inc., a, h.
CGS Labs, Inc., d.
Cameroflex Div., The, Federal Mfg. & Engrg. Corp., a, k.
Chalco Engrg. Corp., c, e.
Chance Vought Aircraft, Inc., f.
Chemalloy Electronics Corp., h.
Collins Radio Co., a.
Control Electronics Co., Inc., g.
Dage Television Div., Thompson Ramo Wooldridge, Inc., k.

Daven Co., The, c, d.
Designers for Industry, Inc., a, c, d, e.
Dytronics Co., g, i.
Electro Impulse Lab., Inc., h.
Electronic Applications, Inc., h.
Emertron, Sub.-Emerson Radio & Phonograph Corp. a.
Empire Products Sales Corp., a, f, h.
Erie Resistor Corp., f.
Flo. Aircraft Radio & Marine, a.
Foto-Video Labs., Inc., d, e, f, k.
Gates Radio Co., a, d thru g.
General Communication Co., h.
General Instrument Corp., Defense & Engrg. Products Group, a.
General Radio Co., a, d, f, k.
Good Electronic Corp., a, i.
Guided Missile Div., The Firestone Tire & Rubber Co., a, b.

Hammett-Mercury-Rex Div., k.
Hazeltine Electronics Div.-Hazeltine Corp.
Hewlett-Packard Co., a.
ITI Electronics, Inc., e.
Kahn & Co., Inc., d.
Wayne Kerr Corp., c, d, h, k.
Kollman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Lab. for Electronics, Inc., f, k.
Lampkin Labs, Inc., M. R. Div., d, f.
Land Air Inc., Sub.-California Eastern Aviation, Inc., a.
Langevin Div., The W. L. Maxson Corp., c.
Leor, Inc., g.
Litton Industries, Maryland Div., b, c, d, g, h.
Madigan Corp., a thru d, f, g.
Magnasync Corp., c.

Marconi Instruments, a, f, h.
*MARTIN CO., THE, DENVER DIV., c thru g, k.
James Millen Mfg. Co. Inc., a, c, f.
Minneapolis Honeywell Regulator Co., Industrial Systems Div., c.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div., e.
Motorola, Inc., a, d, f, g, h, k.
National Co., Inc., a, d, h.
New London Instrument Co. Inc., a, d, f.
Northeast Electronics Corp., h.
Panoramic Radio Products, Inc., a, d, f, k.
Philco Corp.-Govt. & Industrial Group, a thru h.
Potter Aeronautical Corp. d.
Radalab Inc., a.
*RADIO CORP. OF AMERICA, a thru h, j, k.
*RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, a.
St. John X-Ray Laboratory
Scopes Co., Inc., The, k.
Sierra Electronic Corp., Div.-Philco Corp., h, k.
Sperry Microwave Electronics Co., Div.-Sperry Rand

Corp., d, h.
Standard Electronics Div.-Reeves Instrument Corp., a, c, d, f, g, h.
State Testing Laboratory Inc., e.
Stromberg-Carlson Div.-General Dynamics Corp., c, e.
Tamar Electronics, Inc., b, g, h.
Technology Instrument Corp., g.
Television Utilities Corp., e.
Theta Instrument Corp., g.
Thompson Ramo Wooldridge Inc.
Torwico Electronics, Inc., d.
Trepac Corp. of America, h.
Trio Laboratories, Inc., e.
U. S. Science Corp., Div.-Topp Industries, Inc., d, f, j, k.
Varo Mfg. Co., Inc., c thru g, k.
Vicon Corp. Sub.-Insul-B-Corp., e.
Virginia Electronics Co., Inc.
Voi-Shan Electronics, d.
Waltham Electronics Corp., d, f.

MONOPROPELLANTS

Allied Chemical Corp., Nitrogen Div.
American Potash & Chemical Corp., National Northern Div.
American Rocket Co.
Beckman & Whitley, Inc., Missile Products Div.
Bermite Powder Co.
Callery Chemical Co.
Chlor-Alkali Div.-Food Machinery & Chemical Corp.
Clevite Ordnance, Div.-Clevite Corp.
E. I. Du Pont de Nemours & Co. Inc.
Gabriel Co., Rocket Power-Talco
Hughes Tool Co., Aircraft Div.
Hummel Chemical Co., Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Olin Mathieson Chemical Corp., N. Y.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Pennsalt Chemicals Corp.
Shell Chemical Co., Indst. Chemical Div.
Southwest Research Institute
Stauffer Chemical Co.
Thiokol Chemical Corp., Redstone Div.
Topper Mfg. Co., Inc.

MOTORS

- a. Clack
- b. Control
- c. Electric
- d. Fluid
- e. Fractional Hp
- f. Hydraulic
- g. Hysteresis
- h. Instrument
- i. Miniature
- j. Servo
- k. Timing-Regulated, Constant Speed
- l. Turntable
- m. Universal

ACF Industries Inc., f.
Adel Precision Products of Calif., Div.-General Metals Corp., d, e, f.
Airborne Accessories Corp., c, e.
Aircraft Accessory Turbine Dept.-General Electric Co., d, f.
*AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP., c, e, g, i, j.
Air-Marine Motors, Inc., c, e, g, i, j.
Alco Valve Co., c, e.
Allard Instrument Corp., c, i.
Allis-Chalmers, c.
American Brake Shoe Co., f.
American Electronics, Inc., b, c, e, g thru k.
American Electronics Incorporated, j.
American Potash & Chemical Corp., National Northern Div., i, j.
Anglo Corp., b, c, h, i, k.
Raymond Archley Inc., j.
Automatic Switch Co., b.
Barber-Colman Co., b, c, e, h thru l.
Bendix Aviation Corp., b thru j.
*BENDIX AVIATION CORP., HAMILTON DIV., d, f, i, j.
Bendix Aviation Corp. Montrose Div., c, e, h.
Bendix Corp., The, Eclipse-Pioneer Div., b, h, i, j.
Bendix-Pacific Div., Bendix Aviation Corp., c, e, j.
A. Biederman, Inc., h.
Bodine Electric Co., a, c, e, g thru m.
Bogue Electric Mfg. Co., c, j.
Borg Equipment Div., Amphenol-Borg Electronics Corp., b, e, h.
Bristol Motors Div.-Vocaline Co. Inc., c, g, k.
Calvert Electronics Inc., k.
Carter Motor Co., c, e, i, k, m.
Cedar Engrg. Div.-Control Data Corp., e, h thru k.
Clark Equipment Co., d, f.
Clifton Precision Products Co., Inc., h, j.
Commercial Shearing & Stamping Co., f.
Consolidated Diesel Electric Corp., c.

Control Data Corp., c, e, h, i, j.
Cornelius Co., The, Aero Div., d, e, f.
Cramer Controls Corp., a, c, h, i, k.
Dale Products, Inc., g, l.
Data Instruments Div.-Telecomputing Corp.
Joe Davidson & Associates, a, b, c, e, g thru m.
Daystrom Inc., Transcoil Div., j.
Decker Corp., The, i, j.
Delco Products Div.-General Motors Corp., c, e.
Denison Engrg. Div., American Brake Shoe Co., d, f.
Diehl Mfg. Co., b, h, j, k.
Eagle Signal Co., e, k.
Eastern Industries Inc., d, f.
Thomas A. Edison Ind. Instrument Div.-Mc Grow-Edison Co., h, j.
Eicor Div.-Scranton, b, c, e, g, h, i, k, l, m.
Electric Autolite Co., The, b, c, e, m.
Electric Indicator Co. Inc., b, c, e, g thru k, m.
Electric Machinery Mfg. Co., c.
Electric Motors & Specialties, Inc., c, e.
Electric Specialty Co., Eemco Div., c, e, i, m.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, i.
Eureka Williams Corp., c, e, m.
Ev.-Cell-O Corp., f.
Fairchild Engrg. Corp., b.
Fasco Industries Inc., e.
Ford Instrument Co., Div.-Sperry Rand Corp., c, g, j.
G-M Labs. Inc., j.
Gorwin, Inc., c.
Gor Wood Industries Inc., f.
General Controls Co., e.
General Electric Co., Apparatus Sales Div., b, c, e, i, j, m.
General Industries Co., The, e, l.
Genisco, Inc., b, c, e, g, j.
Paul E. Gast & Co., c, e, k, m.
Gordon Enterprises, a, c, h thru k.
Guidance Mfg. Div., The, Mandrel Ind. Inc., j.
Guidance Controls Corp., j.
Guided Missile Div., The Firestone Tire & Rubber Co., j.
B. H. Hadley, Inc., f, j.
Hagen Mfg. Co., a, b, c, e, k.
Hamilton Watch Co., Military Products Div., a, i.
Hammett-Mercury-Rex Div., a, c, e, i, j, l.
Hansen Mfg. Co. Inc., a, b, c, g, h, i, k.
George E. Harris & Co., Inc., c, e, g thru j, m.
Haskel Engrg. & Supply Co., d, f.
A. W. Haydon Co., The, a, b, c, e, g, h, i, k.
Helipot Div.-Beckman Instruments, Inc., j.
Hertner Electric Co., The, b, c, g thru j.
E. Vernon Hill & Co., i.
Holtzer-Cabot Div., National Pneumatic Co., Inc., b, c, e, g thru l.
Hoover Electric Co., b, c, e, i.
Hunter Spring Co., Div.-American Machine & Metals, Inc., a.
Hydraulic Press Mfg. Co., The, Div.-Koehring Co., f.
IMC Magnetics Corp., c, e, g, i, j, l.
Industrial Control Co., j.
Ingram Co., The, a, h, i, k.
Integrated Dynamics Div., Globe Industries, Inc., a, k.
Jack & Heintz Inc., c, e, j.
*KEARFOTT DIV., GENERAL PRECISION, INC., e, i, j.
Kerns Mfg. Corp., d, f.
Ketay Dept., Norden Div., United Aircraft Corp., j.
Kieley & Mueller, Inc., b, f.
Kollman Instrument Corp., Sub.-Standard Coil Products Co. Inc., e, g thru j.
l & R Mfg. Co., e, m.
Lamb Electric Co., The, Div.-American Machine & Metals, Inc., b, c, e, g, i, m.
Land-Air Inc., Sub.-California Eastern Aviation, Inc., j.
Lear, Inc., a thru k, m.
Leece-Neville Co., The, b, c, e, i.
G. H. Leland, Inc., j.
Leland Airborne Products, Div.-American Machine & Foundry Co., c, e.
Libroscope Div., General Precision, Inc., j.
Lincoln Electric Co., The, c.
Link-Belt Co., d.
Lundy Mfg. Corp., c, e.
Lyle Corp., b.
Manco Corp., c, e, m.
Marquardt Corp., The, f, j.
Motor Appliance Corp., c, e.
Motordyne Inc., b, e, g thru j, m.
Moresearch Co., c, e, i.
Heinz Mueller Eng. Co. Inc., c, e, i, m.
Murhead Instruments Inc., e, g, j, k.
National Pneumatic Co., Inc., Holtzer-Cabot Div., b, c, e, g thru j, l.
National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc., f.
New York Air Brake Co., The, Watertown Div., f.
Northrop Corp., j.
Northwestern Electric Co., c.
Oil-Dyne, Inc., f.
John Oster Mfg. Co., Avionic Div., c, e, h, i, j.
PSF Engrg. Co., Div.-IMC Magnetics Corp., N. Y., c, e, g, h, j.

Pesco Products Div.-Borg-Warner Corp., c, e, f, i.
 Power Supplies Inc., j.
 Radio Development & Research Corp., c, j.
 Rae Motor Corp., c, e, m.
 Redmond Co., Inc., Sub.-Controls Co. of America,
 c, e, f, l, m.
 Reeves-Hallman Div., c.
 Reflectone Electronics, Inc., i.
 Reliance Electric & Engrg. Co., c, e, j.
 J. R. Robbins Co., b, c, e, g, i.
 Safety Electrical Equipment Corp., c.
 Sangamo Electric Co., a, b, c, e, g thru k.
 Sargent Engrg. Corp., f.
 Servomechanisms, Inc., b, c, e, h, i, j.
 Serva-Tek Products Co., b, e, i, j, m.
 Singer Military Products Div.-The Singer Mfg. Co., j.
 Small Motors Inc., b, c, e, g, i, j, k, m.
 A. O. Smith Corp., Smith-Erie Div., c, e.
 Stator Electric Corp., m.
 Herman D. Steel Co., a.
 Sitratos, Div.-Fairchild Engine & Airplane Corp., f.
 Summers Gyroscope Co., h, i, j.
 Sundstrand Turbo, d, f.
 Superior Electric Co., The, c, j.
 Talley Corp., The, b, c, e, g thru m.
 Telkor, Inc., c, e, i.
 Transcoil Div.-Daystrom Inc., j.
 U. S. Electrical Motors, c, e.
 Universal Electric Co., c, e, h, i, l, m.
 Varo Mfg. Co., Inc., a, b, j, k.
 Vickers Inc., d, f, j.
 Vickers Inc., Div.-Sperry Rand, d, f, j, k.
 Vickers, Inc., Mich., f.
 Vocaline Co. of America Inc., g.
 Westinghouse Electric Corp., c, e, m.
 Weston Hydraulics Ltd., Sub.-Borg-Warner Corp., j.
 Wickfield, Inc., d, f.
 Winckler Corp., Sub.-Zenith Radio Corp., m.
 Worthington Corp., c, f.

MOUNTINGS, METALLIC

Aerocal Div., Aerona Mfg. Corp.
 Ampco Metal, Inc.
 B. H. Aircraft Co., Inc.
 Barry Controls Inc.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
 Belmar Wheel & Machine Co., Inc.
 Cameralex Div., The, Federal Mfg. & Engrg. Corp.
 Capital City Mfg. Co., Inc.
 Clark-Aiken Co., The
 Conrad & Moser
 Continental-Emco Co., Div.-The Youngstown Sheet
 & Tube Co.
 Flight Refueling, Inc.
 General Logistics Div., Aeroquip Corp.
 Hamilton Kent Mfg. Co.
 Iron Fireman Mfg. Co., Aircraft Div.
 K. W. Johnson & Co., Inc.
 Kellelt Aircraft Corp.
 Kellogg Switchboard & Supply Co., Communications
 Div.-IT&T Corp.
 Kling Metal Spinning & Stamping Co.
 Kolcast Industries-Div. Thompson Ramo Wool-
 dridge Inc.
 Ladish Co.
 MB Electronics
 *MARTIN CO., THE, DENVER DIV.
 Norrich Screw Machine Products
 Northeast Metals Industries, Inc.
 Northrop Corp.
 Parts Engrg. Co., Inc.
 Richard Philip Co.
 Pry Welding & Mfg., Inc.
 Edw. Renneburg & Sons Co.
 Rimak, Inc.
 United States Chemical Milling Corp.
 Victor Tool & Mfg., Inc.
 Waco Aircraft Co.
 Winder Aircraft Corp. of Florida

MOUNTINGS, NON-METALLIC

Acushnet Process Co.
 Allied Plastics Supply Corp
 American Felt Co.
 American Latex Products Corp.
 Barry Controls Inc.
 Dow-Elco, Inc.
 Enfab Inc.
 Firestone Indsl. Products Co., Div.-Firestone Tire &
 Rubber Co.
 Hamilton Kent Mfg. Co.
 Walter K. Jaros Aircrafters
 K. W. Johnson & Co., Inc.
 MB Electronics
 M & Q Plastic Products
 Minnesota Rubber Co.
 Norrich Screw Machine Products
 Northrop Corp.
 Owens-Corning Fiberglas Corp.
 Pry Welding & Mfg., Inc.

Rubbercraft Corp. of California
 Tetrafluor, Inc.
 Thor Ceramics, Inc.
 United States Chemical Milling Corp.
 United States Rubber Co.
 Victor Tool & Mfg., Inc.
 Winder Aircraft Corp. of Florida
 Zippertubing Co., The

MOUNTINGS, VIBRATION & SHOCK

Acushnet Process Co.
 Allied International Corp.
 American Felt Co.
 American Latex Products Corp.
 American Machine & Foundry Co., Greenwich Engrg.
 Div.
 *AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
 Arrowhead Products, Div.-Federal-Mogul-Bower
 Bearings, Inc.
 Associated Engineers, Inc.
 Barry Controls Inc.
 Basic Tool Industries, Inc.
 Bushings, Inc.
 Dow-Elco, Inc.
 Enfab Inc.
 Felters Co., The
 Firestone Indsl. Products Co., Div.-Firestone Tire &
 Rubber Co.
 General Logistics Div., Aeroquip Corp.
 General Tire & Rubber Co., The, Industrial Products
 Div.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hamilton Kent Mfg. Co.
 Houdaille Industries, Inc., Bullato Hydraulics Div.
 International Electronic Research Corp.
 Walter K. Jaros Aircrafters
 K. W. Johnson & Co., Inc.
 Kemp Aero Products
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Kolcast Industries-Div. Thompson Ramo Wool-
 dridge Inc.
 Lear, Inc.
 Lord Mfg. Co.
 MB Electronics
 Mechanics Research Div., American Machine & Foundry
 Co.
 Menasco Mfg. Co.
 Minnesota Rubber Co.
 Northrop Corp.
 Owens-Corning Fiberglas Corp.
 Piasecki Aircraft Corp.
 Pneumafil Corp.
 Propulsion Test Facilities Div.-MB Electronics
 Pry Welding & Mfg., Inc.
 Raybestos-Manhattan, Inc.
 Robinson Technical Products, Inc.
 Rubbercraft Corp. of California
 Roy A. Scherer & Co.
 Southwest Research Institute
 A. T. Stevens Co.
 United States Rubber Co.
 Vibration Isolation Products
 Westinghouse Electric Corp.
 Winder Aircraft Corp. of Florida
 Zippertubing Co., The

MOUNTS

Acushnet Process Co.
 Aerollex Labs. Div., Aeroflex Corp.
 Allied International Corp.
 American Felt Co.
 American Latex Products Corp.
 American Machine & Foundry Co., Government
 Products Group
 Antlab Inc.
 Arrowhead Products, Div.-Federal-Mogul-Bower
 Bearings, Inc.
 Barry Controls Inc.
 Beacon Steel Corp.
 Belmar Wheel & Machine Co., Inc.
 Bushings, Inc.
 Capital City Mfg. Co., Inc.
 Chance Vought Aircraft, Inc.
 Dow-Elco, Inc.
 Ex-Cell-O Corp.
 Hamilton Kent Mfg. Co.
 Walter K. Jaros Aircrafters
 K. W. Johnson & Co., Inc.
 Kellelt Aircraft Corp.
 Kolcast Industries-Div. Thompson Ramo Wool-
 dridge Inc.
 Ladish Co.
 MB Electronics
 *MARTIN CO., THE, DENVER DIV.
 Narda Microwave Corp., The
 Northeast Metals Industries, Inc.
 Northrop Corp.
 Optomechanisms Inc.
 Owens-Corning Fiberglas Corp.
 Richard Philip Co.
 Piasecki Aircraft Corp.

Pneumafil Corp.
 Pry Welding & Mfg., Inc.
 Edw. Renneburg & Sons Co.
 Robinson Technical Products, Inc.
 Tower Construction Co.
 Twin Coach Co., Aircraft-Missiles
 United Aircraft Products, Inc.
 Waco Aircraft Co.
 Winder Aircraft Corp. of Florida

MOUNTS, ANTENNA

Acushnet Process Co.
 Aerollex Labs. Div., Aeroflex Corp.
 Ainslie Corp.
 Allied International Corp.
 American Beryllium Co.
 American Latex Products Corp.
 American Machine & Foundry Co., Government
 Products Group
 American Machine & Foundry Co., Greenwich Engrg.
 Div.
 *ANDREW CORP.

Antlab Inc.
 Aronson Machine Co., Inc.
 Barry Controls Inc.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
 Belmar Wheel & Machine Co., Inc.
 Bendix Aviation Corp.
 E. W. Bliss Co.
 Brooks & Perkins, Inc.
 Chance Vought Aircraft, Inc.
 Canrad & Moser
 Continental-Emco Co., Div.-The Youngstown Sheet
 & Tube Co.
 Dalmo Victor Co., Div.-Textron, Inc.
 Joe Davidson & Associates
 Daystrom, Inc., Military Electronics Div.
 Diamond Antenna & Microwave Corp.
 Don-Lan Electronics Inc.
 Dow-Elco, Inc.
 Ex-Cell-O Corp.
 G-C Electronics Co.
 General Electric Co., Ordnance Dept.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 K. W. Johnson & Co., Inc.
 Kellelt Aircraft Corp.
 Kolcast Industries-Div. Thompson Ramo Wool-
 dridge Inc.
 MB Electronics
 Master Mobile Mounts, Inc.
 W. L. Maxson Corp., The
 The Norrich Screw Machine Products
 Northeast Metals Industries, Inc.
 Permax Products Div., Chisholm-Ryder Co., Inc.
 Piasecki Aircraft Corp.
 Portland Copper & Tank Works Inc.
 Prodelin Inc.
 Pry Welding & Mfg., Inc.
 Radiation, Inc.
 *RADIO CORP. OF AMERICA
 Robinson Technical Products, Inc.
 Scientific-Atlanta, Inc.
 Stainless Inc.
 Steel Products Engrg. Co., Div.-Kelsey-Hoyes Co.
 TRG, Inc.
 Technical Appliance Corp.
 Tober Electronic Corp.
 Tower Construction Co.
 Transco Products, Inc.
 U. S. Pipe & Foundry Co., Steel & Tubes Div.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.
 Winder Aircraft Corp. of Florida

MOUNTS, ENGINE

Acushnet Process Co.
 American Latex Products Corp.
 American Welding & Mfg. Co., The
 Ampco Metal, Inc.
 Arrowhead Products, Div.-Federal-Mogul-Bower
 Bearings, Inc.
 Barry Controls Inc.
 Basic Tool Industries, Inc.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bushings, Inc.
 Capital City Mfg. Co., Inc.
 Chance Vought Aircraft, Inc.
 Clark-Aiken Co., The
 Colonial Aircraft Corp.
 Continental-Emco Co., Div.-The Youngstown Sheet
 & Tube Co.
 Dow-Elco, Inc.
 Guided Missile Div., The Firestone Tire & Rubber
 Co.
 Walter K. Jaros Aircrafters
 K. W. Johnson & Co., Inc.
 Kellelt Aircraft Corp.
 Kolcast Industries-Div. Thompson Ramo Wool-
 dridge Inc.
 Ladish Co.

***LAVELLE AIRCRAFT CORP.**

Lord Mfg. Co.
 MB Electronics
***MARTIN CO., THE, DENVER DIV.**
 Northeast Metals Industries, Inc.
 Piasecki Aircraft Corp.
 Portland Copper & Tank Works Inc.
 Pry Welding & Mfg., Inc.
 Robinson Technical Products, Inc.
 Southwest Products Co.
 Tamco Aircraft Corp.
 United Aircraft Products, Inc.
 Vibration Isolation Products
 Westholt Mfg. Inc.
 Wolverine Diesel Power Co.
 Woolf Aircraft Products, Inc.

MOUNTS, SHOCK

Acushnet Process Co.
 American Felt Co.
 American Latex Products Corp.
 American Machine & Foundry Co., Government Products Group
 American Machine & Foundry Co., Greenwich Engrg. Div.
***AMERICAN STEEL FOUNDRIES, HAMMOND DIV.**
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
 Barry Controls Inc.
 Bushings, Inc.
 Carr Fastener Co., Div. United Carr Fastener Corp.
 Chance Vought Aircraft, Inc.
 Colonial Rubber Co.
 Dow Elco, Inc.
 Enfab Inc.
 General Logistics Div., Aeroquip Corp.
 Hamilton Kent Mfg. Co.
 George E. Harris & Co., Inc.
 Houdaille Industries, Inc., Buffalo Hydraulics Div.
 Walter K. Jaros Aircrafters
 K. W. Johnson & Co., Inc.
 Kemp Aero Products
 Kolcast Industries Div., Thompson Ramo Wooldridge Inc.
 Lord Mfg. Co.
 MB Electronics
***MARTIN CO., THE, DENVER DIV.**
 Northrop Corp.
 Owens-Corning Fiberglas Corp.
 Propulsion Test Facilities Div.-MB Electronics
 Pry Welding & Mfg. Inc.
 Robinson Technical Products, Inc.
 Rubbercraft Corp. of California
 A. T. Stevens Co.
 United States Rubber Co.
 Vibration Isolation Products
 Western Design, Div.-U. S. Industries, Inc.
 Westinghouse Electric Corp.

MOUNTS, THERMISTOR

Advanced Electronics, Inc.
 American Latex Products Corp.
 FXR, Inc.
 Fenwal Inc.
 Hewlett-Packard Co.
 K. W. Johnson & Co., Inc.
 Kings Electronics Co., Inc.
 MB Electronics
 Microwave Associates, Inc.
 Narda Microwave Corp., The
 Omega Labs, Inc.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
 Victor R. F. & Microwave Co.

MUFFLERS, JET ENGINE INTAKE & EXHAUST

Allied Witan Co. Inc.
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
 Associated Co., Inc.
 B. H. Aircraft Co., Inc.
 Chicago Bridge & Iron Co.
 Crane Co., Special Products Div.
 Emhart Mfg. Co., Maxim Div.
 Industrial Acoustics Co., Inc.
 Jonke & Co. Inc.
 Kittell-Lacy, Inc.
 Koppers Co., Inc., Metal Products Div.
 Lycoming Div., Avco Corp.
 Northrop Corp.
 Portland Copper & Tank Works Inc.
 Reconvy Div.-Vincor Corp.
 Edw. Renneburg & Sons Co.
 Southwest Research Institute
 Waco Aircraft Co.

MUFFS

Allied Witan Co. Inc.
 Associated Co., Inc.
 California Stamping & Mfg. Co.

Colonial Aircraft Corp.
 Edw. Renneburg & Sons Co.

MULTIPLEX SYSTEMS

ASCOP Div., Electro-Mechanical Research, Inc.
 Adler Electronics, Inc.
 Airtron, Div.-Liton Industries
 Applied Electronics Corp. of N. J.
 Applied Research Inc.
***ARNOUX CORP.**
 Budd Lewyt Electronics, Inc.
 Control Electronics Co., Inc.
 Dynatronics, Inc.
 Electro Instruments, Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 GPI Div.-General Precision, Inc.
 Hammarlund Mfg. Co., The
 JFD Electronics Corp.
 Kohn Research Labs., Inc.
 Lear, Inc.
 Lenkurt Electric Co., Inc.
 Lynch Carrier Systems Inc.
 MEG Products, Div.-Mandrel Industries, Inc.
 Motorola, Inc.
 Packard Bell Computer Corp.
 M. V. Palmer, Inc.
 Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
 Servomechanisms, Inc.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Texas Instruments Inc.
 Transco Products, Inc.
 Trepac Corp. of America
 Western Union Telegraph Co., The

MULTIPLIERS

a. Crystal
 b. Diode
 c. Electronic
 d. Frequency
 e. Magnetic
 f. Meter
 g. Servo
 Aircorn Inc., a, b, d.
 Alfred Electronics, a, c, d.
 Amerac Inc., d.
 American Electronics, Inc., d.
 American Research & Mfg. Corp., d.
 Applied Research Inc., c.
 Beckman Instruments, Inc., Berkeley Div., c.
 Bendix Aviation Corp., c, g.
 Chadwick-Helmuth Co., c.
 Control Technology Co., g.
 Daven Co., The, f.
 Daystrom Inc., Weston Instruments Div., f.
 Delco Radio Div.-General Motors Corp., c.
***DEL MAR ENGRG. LABS., d.**
 Demornay-Bonardi, a, d.
 Djeco, Div.-Djordjevic Engrg. Co., c.
 Thomas A. Edison Ind. Instrument Div. Mc Graw-Edison Co., g.
 Electro Precision Corp., g.
 Electronic Applications, Inc., c, d.
 Enso, Inc., c.
 Feedback Controls, Inc., g.
 General Magnetics Inc., e.
 Guided Missile Div., The Firestone Tire & Rubber Co., c, d.
 B. H. Hadley, Inc., g.
 Hammett-Mercury Rex Div., a, b, c, g.
 ITT Federal Div., International Telephone & Telegraph Corp., c.
 Industrial Test Equipment Co., c.
 J. V. M. Microwave Co., d.
***KEARFOTT DIV., GENERAL PRECISION, INC., g.**
 Lab. for Electronics, Inc., c, d.
 Lear, Inc., c, e, g.
 Iel, Inc., b, d.
***MARTIN CO., THE, DENVER DIV., c, e, f.**
 Microwave Associates, Inc., b, d.
 Motorola, Inc., a thru d.
 National Co., Inc., a thru d.
 Northrop Corp., c.
 Packard Bell Computer Corp., c.
 Piasecki Aircraft Corp., d.
 Pitometer Log Corp., a, c, d.
 Radiation, Inc., d.
***RADIO CORP. OF AMERICA, b, c, d.**
 Rantec Corp., d.
 Reeves Instrument Corp., b, c.
***SEMICONDUCTOR DIV., RAYTHEON CO., b.**
 Sensitive Research Instrument Corp., f.
 Spectralab Instruments, d.
 Sperry Electronic Tube Div., Sperry Rand Corp., d.
 Standard Electronics Div.-Reeves Instrument Corp., d, e.
 Statham Development Corp., g.
 TRG, Inc., a, d.
 Telechrome Mfg. Corp., c.

Telkor, Inc., d.
 Trio Laboratories, Inc., g.
 Valpey Crystal Corp., a.
 Voro Mfg. Co., Inc., a thru e, g.
 Voi-Shan Electronics, b thru e.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co., f.

NAILS, SPECIAL

Abbott Screw & Mfg. Co.
 Allmetal Screw Products Co., Inc.
 Aluminum Co. of America
 Atlas Tack Corp.
 Aviation Textile Associates
 Bethlehem Steel Co.
 Chase Brass & Copper Co., Inc.
 Copperweld Steel Co., Wire & Cable Div.
 John Hassall, Inc.
 Illumitronic Engrg. Co.
 Mercury Air Paris Co., Inc.
 Nuclear Development Corp. of America
 Ohlson Empire Inc.
 Republic Steel Corp.
 Reynolds Metals Co.
 United Shoe Machinery Corp.
 United States Steel Corp.

NAMEPLATES

Acromark Co., The
 Adept Industries Inc.
 Allied Decals, Inc.
 Allied Engraving & Stamping Co.
 Allied Plastics Supply Corp.
 Apahouser Corp. of N. E.
 W. H. Brady Co.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
 C & H Supply Co.
 California Plasteck Inc.
 Canadian Radium & Uranium Corp.
 Cleveland Metal Specialties Co., Electronics Div.
 Croname Inc.
 Crystal-X Corp.
 Henry G. Dietz Co., Inc.
 Duralith Corp.
 Duramark, Inc.
 Electrical Insulation Co., Inc.
 Eljay Corp.
 Emeloid Co., Inc., The
 Emerson Plastics Corp.
 Fisher & Crome
 Touch Electric Mfg. Co., Inc.
 George Gorton Machine Co.
 Walter J. Hyatt Co., The
 Walter K. Jaros Aircrafters
 Keil Engrg. Products Inc.
 Kerco
 Litho-Etch Metal Name Plate Co.
 Jas. H. Matthews & Co.
 Meyercord Co., The
 Meyercord Co., The, AMC Div.
 Mico Instrument Co.
***MINNESOTA MINING & MFG. CO.**
 Mullenbach Div.-Electric Machinery Mfg. Co.
 Nameplates Inc.
 Nelson Electric Mfg. Co.
 New England Etching Co. Inc.
 Norsid Mfg. Co., Inc., The
 North Shore Nameplate, Div.-Anodyne, Inc.
 Panob Corp.
 Park Nameplate Co., Inc.
 Pee Cee Tape & Label Co., Inc.
 Q-Circuits, Div.-Etching Co. of Calif.
 Regal Air Corp.
 Milton Ross Metals Co., The
 D. A. Schultz Co.
 Scioto Sign Co.
 Silcocks-Miller Co.
 Technical Ply Woods Sales
 Telectro Industries Corp.
 Telkor, Inc.
 Topflight Corp.
 E. F. Twomey Co., Inc.
 United States Radium Corp.
 Virginia Plak Co.

NAVIGATION DOMES

Allied International Corp.
 Allied Plastics Supply Corp.
 Broadview Research Corp.
 Lunn Laminates, Inc.
 Northrop Corp.
 Parsons Corp., Special Products Div.
 Specialty Electronics Development Corp.
 Swedlow Inc.
 TRG, Inc.
 Universal Unlimited, Inc.

NAVIGATION EQUIPMENT, GROUND

Allied International Corp.
 Belock Aviation Corp.
 Bendix Instrument Corp.

A. Biederman, Inc.
 Broadview Research Corp.
 Cameralflex Div., The, Federal Mfg. & Engrg. Corp.
 Chance Vought Aircraft, Inc.
 Allen B. Du Mont Labs., Inc.
 Electromation Co., Div.-Del Mar Engrg. Labs.
 Emerton, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Gates Radio Co.
 General Communication Co.
 General Electric Co., Heavy Military Electronics Dept.
 General Electric Co., Ordnance Dept.
 General Instrument Corp., Defense & Engrg. Products Group
 Gillfillan Bros. Inc.
 Guidance Controls Corp.
 Huyck Systems Co.
 ITT Federal Div., International Telephone & Telegraph Corp.
***KEARFOOT DIV., GENERAL PRECISION, INC.**
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co.
 Lear, Inc.
 Madigan Corp.
 W. L. Maxson Corp., The
 Motorola, Inc.
 Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Seiscor, Div.-Seismograph Service Corp.
 Skiatron Electronics & Television Corp.
 Specialty Electronics Development Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 TRG, Inc.
 Texas Instruments Inc.
 Virginia Electronics Co., Inc.
 Westinghouse Electric Corp.
 Wickes Engrg. & Construction Co.
 Winder Aircraft Corp. of Florida

NAVIGATION SYSTEMS

***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
 ACF Industries Inc.
 Advance Industries, Inc.
 Aerona Mfg. Corp.-Aerospace Div.
 Allied International Corp.
 Belock Instrument Corp.
 Bendix Aviation Corp.
 Bendix Corp., The, Eclipse-Pioneer Div.
 A. Biederman, Inc.
 Chance Vought Aircraft, Inc.
 Communications Research Co.
 Designers for Industry, Inc.
 Douglas Aircraft Co., Inc.
 Allen B. Du Mont Labs., Inc.
 Eclipse-Pioneer Div., Bendix Aviation Corp.
 Edmund Scientific Co.
 Electromation Co., Div.-Del Mar Engrg. Labs.
***EQUIPMENT DIV., RAYTHEON CO.**
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Fla. Aircraft Radio & Marine
 Ford Instrument Co., Div.-Sperry Rand Corp.
 GPL Div.-General Precision, Inc.
 General Electric Co., Armament & Control Sect., Light Mil. Elec. Dept.
 General Electric Co., Light Military Electronics Dept.
 General Electric Co., Ordnance Dept.
 General Instrument Corp., Defense & Engrg. Products Group
 General Mills, Inc.
 Gillfillan Bros. Inc.
 Hazeltine Electronics Div.-Hazeltine Corp.
 Huyck Systems Co.
 ITT Federal Div., International Telephone & Telegraph Corp.
***KEARFOOT DIV., GENERAL PRECISION, INC.**
 Kollmorgen Optical Corp.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 Lab. for Electronics, Inc.
 Lear, Inc.
 Librascope Div., General Precision, Inc.
 Litton Industries, Inc.
 Lockheed Electronics Co., Stavid Div.
 Madigan Corp.
 W. L. Maxson Corp., The
 Minneapolis-Honeywell Regulator Co., Boston Div.
 Motorola, Inc.
 National Co., Inc.
 Norden Div., United Aircraft Corp.
 Northrop Corp.
 Nortronics Div.-Northrop Corp.
 Packard-Bell Electronics Corp.
 Philco Corp.-Govt. & Industrial Group

Production Research Corp., Sub.-Radio Condenser Co.
***RADIO CORP. OF AMERICA**
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Seiscor, Div.-Seismograph Service Corp.
 Skiatron Electronics & Television Corp.
 Specialty Electronics Development Corp.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp.
 Sperry Piedmont Co., Div.-Sperry Rand Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 TRG, Inc.
 Tamar Electronics, Inc.
 Texas Instruments Inc.
 Thompson Ramo Wooldridge Inc.
 Weems System of Navigation, Inc.
 Westinghouse Electric Corp.

NEEDLES, DIAMOND

Electro-Voice, Inc.
 Fidelitone, Inc.
 Moser Jewel Co.

NEEDLES, METAL

Electronic Parts Mfg. Co., Inc.
 Electro-Voice, Inc.
 Fidelitone, Inc.
 Moser Jewel Co.
 Torrington Co., The

NETWORKS

- a. Crossover
- b. Directional Antenna Phasing
- c. Matching
- d. Patted
- e. Pulse Farming

ACDC Electronics, Inc., a, c, d, e.
 AMP Inc., e.
 Anderson Labs., Inc., e.
 Axel Electronics Div.-Axel Bros. Inc., e.
 Bendix Aviation Corp., e.
 Cameralflex Div., The, Federal Mfg. & Engrg. Corp., b.
 b.
 Chance Vought Aircraft, Inc., e.
 Communication Accessories Co., e.
 Cornell-Dubilier Electric Corp., e.
 Corson Electric Mfg. Corp., e.
 Crescent Engrg. & Research Co., d.
 Dale Products, Inc., c, d, e.
 Daven Co., The, d, e.
 Djeca, Div.-Djordjevic Engrg. Co., c, e.
 Dmeter Mfg. Co., c, d.
 Double E Products Co., a, c, d, e.
 Dynatronics, Inc., e.
 Electronic Applications, Inc., a.
 FXR, Inc., e.
 Fidelitone, Inc.
 Film Capacitors, Inc., a, e.
 Filtron Co., Inc., d, e.
 Foto-Video Labs., Inc., e.
 Gates Radio Co., b, c, e.
 General Electric Co., Apparatus Sales Div., e.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., c.
 Lear, Inc., d.
 Librascope Div., General Precision, Inc., a, d, e.
 Lockheed Electronics Co., Stavid Div., e.
 Madigan Corp., a, b, c, e.
 Magnetic Research Corp., e.
***MARTIN CO., THE DENVER DIV., c, d, e.**
 Micamold Electronics Mfg. Corp., e.
 Microphase Corp., a, b, c.
 Milgo Electronic Corp., e.
 James Millen Mfg. Co. Inc., d.
 Motorola, Inc., d.
 Northrop Corp.
 Packard Bell Computer Corp., e.
 Parkway Specialties Co., a.
 Ralph M. Parsons Co., The, Electronics Div., e.
 Plastic Capacitors, Inc., e.
 Polyphase Instrument Co., d, e.
 Radio Condenser Co., c.
***RADIO CORP. OF AMERICA, a thru e.**
 Rontec Corp., b, e.
 Republic Aviation Corp., Missile Systems Div., b, c, d.
 Songamo Electric Co., e.
 Shallcross Mfg. Co., c, d.
 Southwestern Industrial Electronics Co., a, e.
 Special Products Dept., Melpor, Inc., b.
 Sprague Electric Co., e.
 Standard Electronics Div.-Reeves Instrument Corp., b, c, e.
 Stephens Trusonics Inc., a.
 Stewart-Warner Electronics Div., e.
 Stromberg-Carlson Div.-General Dynamics Corp., a, e.
 Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc., b.
 Tapco Group, Thompson Ramo Wooldridge Inc., b.
 Telechrome Mfg. Corp., a.

Telex, Inc., d, e.
 Thompson Ramo Wooldridge Inc., b.
 University Loudspeakers, Inc., a.
 Valor Instruments, Inc., c, d, e.
 Varo Mfg. Co., Inc., d, e.
 Walkirt Co., d, e.
 White Instrument Labs., d.
 Wickes Engrg. & Construction Co., o.

NICKEL

Accurate Specialties Co. Inc.
 Allied Research & Engrg., Div.-Allied Record Mfg. Co.
 Allied Research Products, Inc.
 American Nickel Alloy Mfg. Corp.
 American Silver Co., Inc.
 American Smelting & Refining Co.
 Belmont Smelting & Refining Works, Inc.
 Bram Metallurgical Chemical Co.
 Chromium Corp. of America
 City Chemical Corp.
 Wilbur B. Driver Co.
 Driver-Harris Co.
 Electric Steel Foundry Co.
 Electronic Parts Mfg. Co., Inc.
 Foote Mineral Co.
 Gibson Electric Co.
 Hughes Tool Co., Aircraft Div.
 Huntington Alloy Products Div.-The International Nickel Co., Inc.
 Secor Metals Corp.
 Seymour Mfg. Co., The
 Techalloy Co. Inc.
 Udylite Corp., The
 United Mineral & Chemical Corp.
 Van Der Horst Corp. of America
 Var-Lac-Oid Chemical Co.
 Wia Met Alloys Co.

NOSE CONES

Aerocal Div., Aerona Mfg. Corp.
 Aluminum Co. of America
 American Latex Products Corp.
 American Potash & Chemical Corp., National Northern Div.
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
 Avco Corp.-Research & Advanced Development Div.
 Beacon Steel Corp.
 Bendix Aviation Corp.
 Bendix Filter Div., Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
 E. W. Bliss Co.
 Bonny Mfg. Corp.
 Brooks & Perkins, Inc.
 Brunswick Balke Collender Co., The, Defense Products Div.
 A. M. Byers Co.
 California Stamping & Mfg. Co.
 Carborundum Co., The
 Colorado Fuel & Iron Corp., The
 Coors Porcelain Co.
 Corning Glass Works
 Custom Tool & Mfg. Co.
 Dayton Rubber Co., The
 The Douglas Aircraft Co., Inc.
 Eljay Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
 Garlock Packing Co.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 B. F. Goodrich Aviation Products
 Goodyear Aircraft Corp.
 ITE Circuit Breaker Co., Special Products Div.
 Ingersoll Kalamazoo Div., Borg-Warner Corp.
 Kaiser Fleetwings, Inc.
 Kanorr Corp.
 C. B. Kaupp & Sons, Inc.
 Kellett Aircraft Corp.
 Kiddie Aero-Space Div., Walter Kiddie & Co., Inc.
 Kling Metal Spinning & Stamping Co.
 Lamtex Industries Inc.
***LAVELLE AIRCRAFT CORP.**
 Le Fliel Mfg. Co.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lodge & Shipley Co., The
 Lycoming Div., Avco Corp.
 Marquardt Corp., The
 Mc Gregor Mfg. Corp.
 Narmco Mfg. Co.
 National Beryllia Corp.
 Norris-Thermador Corp.
 Northeast Metals Industries, Inc.
 Norton Co., New Products Dept.
 Olympic Plastics Co., Inc.
 Parsons Corp., Special Products Div.
 Piasecki Aircraft Corp.
 Plastic Age Sales, Inc.
 Portland Copper & Tank Works Inc.
 Prewitt Aircraft Co.
 Raybestos-Manhattan, Inc.

Reynolds Metals Co., Sheffield Missile Plant
Seaman Products, Div.-Seaman Paper Co.
Solar Aircraft Co.
Spaceatomics Div., The Budd Co.
Spincraft, Inc.
Swedlow Inc.
Taylor Fibre Co.
Temco Aircraft Corp.
Thermionic Aeronautical Div.
H. I. Thompson Fiber Glass Co.
G. W. Torngren Co., Inc.
Twin Coach Co., Aircraft-Missiles
Weatherhead Co., The
Westinghouse Electric Corp.
Westinghouse Electric Corp., Micarta Div.
Young Development Div., Hercules Powder Co.

NOZZLE ASSEMBLIES

ACF Industries Inc.
Aerocal Div., Aerona Mfg. Corp.
American Welding & Mfg. Co., The
Arde-Portland, Inc.
Arrowhead Products, Div.-Federal-Mogul Bower Bearings, Inc.
Atlantic Research Corp.
Auto Specialties Mfg. Co., Inc.
Avco Corp.-Research & Advanced Development Div.
B. H. Aircraft Co., Inc.
Beaton & Corbin Mfg. Co., The
Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Brunswick Balke Collender Co., The, Defense Products Div.
Buckeye Iron & Brass Works
California Aircraft Products
Carborundum Co., The
Christie Machine Works
Continental Diamond Fibre Corp.
Delavan Mfg. Co.
Douglas Aircraft Co., Inc.
***EXCELCO DEVELOPMENTS INC.**
Ex-Cell-O Corp.
Fibercraft, Inc.
Garlock Packing Co.
General Electric Co., Rocket Engine Section
H & H Mfg. Co., Inc.
ITE Circuit Breaker Co., Special Products Div.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kaiser Fleetwings, Inc.
Kanarr Corp.
Kelsey-Hayes Co.
Kerns Mfg. Corp.
Kolkast Industries-Div. Thompson Rama Wooldridge Inc.
Lamtex Industries Inc.
Leor, Inc.
Lee Co., The
Le Fiehl Mfg. Co.
Lockheed Aircraft Corp., Missiles & Space Div.
Lycoming Div., Avco Corp.
Marquardt Corp., The
***MARTIN CO., THE, DENVER DIV.**
Mc Gregor Mfg. Corp.
Napier Engines Inc.
Norrich Plastics Corp.
Norrich Screw Machine Products
Norrish-Thermador Corp.
Northeast Metals Industries, Inc.
Parts Engrg. Co., Inc.
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co.
Schellens-True Corp.
C. M. Smillie & Co.
Spaceatomics Div., The Budd Co.
Spraying Systems Co.
Thermionic Aeronautical Div.
H. I. Thompson Fiber Glass Co.
United Aircraft Products, Inc.
United States Chemical Milling Corp.
Vac-Hyd Processing Corp.
Wall Colmonoy Corp., Stainless Processing Div.
Water Cooling Corp.
Weatherhead Co., The
Western Design, Div.-U. S. Industries, Inc.
Young Development Div., Hercules Powder Co.

NOZZLE DIAPHRAGMS

ACF Industries Inc.
Bendix Aviation Corp.
Capital City Mfg. Co., Inc.
ITE Circuit Breaker Co., Special Products Div.
Kerns Mfg. Corp.
Kolkast Industries-Div. Thompson Rama Wooldridge Inc.
Lee Co., The
Lycoming Div., Avco Corp.
Marquardt Corp., The
Mc Gregor Mfg. Corp.
Portland Copper & Tank Works Inc.
United Aircraft Products, Inc.

United States Chemical Milling Corp.
Water Cooling Corp.

NOZZLES

a. Exhaust
b. Exhaust, Metallic
c. Fuel Injection
ACF Industries Inc., a, b, c.
Aerocal Div., Aerona Mfg. Corp., a, b.
***AEROJET-GENERAL CORP., a.**
Allison Div., General Motors Corp., a, b.
American Brake Shoe Co., b.
American Potash & Chemical Corp., National Northern Div., a, b.
American Welding & Mfg. Co., The, a, b.
Ampco Metal, Inc., c.
Anchor Metal Spinning Co., The., b.
Arde-Portland, Inc., a, b.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., a.
Associated Co., Inc., a.
Auto Specialties Mfg. Co., Inc., a, b, c.
Avco Corp.-Research & Advanced Development Div., a, b.
B. H. Aircraft Co., Inc., a, b, c.
Basic Tool Industries, Inc., a.
Bendix Aviation Corp., a, c.
Bendix Filter Div., Bendix Aviation Corp., a, b.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., a, c.**
Bethlehem Steel Co., a.
Bruce Engrg. Co., a, b.
Brunswick Balke Collender Co., The, Defense Products Div., a.
California Aircraft Products., a.
California Stamping & Mfg. Co., a.
Capital City Mfg. Co., Inc., a, b, c.
Carbone Corp., The., a.
Carborundum Co., The
Carborundum Co., Refractories Div., a.
Christie Machine Works
Continental Diamond Fibre Corp., a.
Crane Co., Special Products Div., a, b.
Curtiss-Wright Corp.-Wright Aeronautical Div., a.
Delavan Mfg. Co., c.
Douglas Aircraft Co., Inc., a, b.
Eddington Metal Specialty Co., c.
***EXCELCO DEVELOPMENTS INC., a, b.**
Ex-Cell-O Corp., c.
Fibercraft, Inc., a.
Firth Sterling Inc., a, b.
Flexonics Corp., a.
Garlock Packing Co., a.
General Electric Co., Lamp Metals & Components Dept., b.
General Electric Co., Rocket Engine Section., a, b.
B. F. Goodrich Aviation Products., a.
Grand Central Rocket Co., a.
Graphite Metallizing Corp., a.
H & H Mfg. Co., Inc., a, b.
Hicks Corp., The. b.
Holley Carburetor Co., c.
Hupp Aviation Div.-Hupp Corp., a.
Ingersoll Kalamazoo Div., Borg-Warner Corp., a.
Kaiser Fleetwings, Inc., a.
Kanarr Corp., a, b.
C. B. Kaupp & Sons, Inc., a.
Kelsey-Hayes Co., a, b.
Kennametal Inc.
H. Kock & Sons., a.
Kolkast Industries-Div. Thompson Rama Wooldridge Inc., a, b.
Kwikset Powdered Metal Products., a.
Ladish Co., a, b.
Lamtex Industries Inc., a.
***LAVELLE AIRCRAFT CORP., b.**
Leor, Inc., c.
Lee Co., The., c.
Le Fiehl Mfg. Co., b.
Lockheed Aircraft Corp., Missiles & Space Div., a.
Lone Star Plastics Co., Inc., a.
Lycoming Div., Avco Corp., a.
MB Electronics., c.
Marquardt Corp., The., a, b, c.
***MARTIN CO., THE, DENVER DIV., a, b.**
Martin Machine Works, Inc., c.
Mc Gregor Mfg. Corp., a, b.
Metal Carbides Corp.
***MINNESOTA MINING & MFG. CO., a.**
Morganite, Inc., a.
NUMEC-Nuclear Materials & Equipment Corp., a.
Napier Engines Inc., a, c.
Narmco Mfg. Co., a.
National Carbon Co., Div.-Union Carbide Corp., a.
Norrish Plastics Corp.
Norrish Screw Machine Products
Norrish-Thermador Corp., a, b.
Norton Co., New Products Dept., a.
Olympic Plastics Co., Inc., a.
Parker-Hannifin Corp., c.
Parts Engrg. Co., Inc., a, b, c.

Plastic Age Sales, Inc., a.
Portland Copper & Tank Works Inc., a, b.
Pressed Steel Tank Co., a, b.
Raybestos-Manhattan, Inc., a.
Rocketdyne Div.-North America Aviation, Inc., a, c.
Rockwood Sprinkler Co., Div.-The Gamewell Co.
Russell Mfg. Co., a.
Simmonds Aerocessories, Inc., c.
C. M. Smillie & Co., a, c.
Solar Aircraft Co., a, c.
Spaceatomics Div., The Budd Co., b.
Spraying Systems Co.
Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp., a, b.
Stauffer Chemical Co.
Steel Products Engrg. Co., Div.-Kelsey-Hayes Co., a.
U. Stone & Co., Inc., c.
Synthane Corp., a.
Taylor Fibre Co., a.
Temco Aircraft Corp., b.
Therm, Inc.
Thermionic Aeronautical Div., a, b.
H. I. Thompson Fiber Glass Co., a, b, c.
C. W. Torngren Co., Inc., a.
United Aircraft Products, Inc., a, b, c.
United Carbon Products Co., a.
U. S. Pipe & Foundry Co., Steel & Tubes Div., a, b.
United States Chemical Milling Corp., b.
Water Cooling Corp.
***WEATHERHEAD CO., THE, c.**
Westinghouse Electric Corp., Micarta Div., a.
Young Development Div., Hercules Powder Co., a.

NUCLEAR

a. Analyzers, Coincidence
b. Analyzers, Neutron Absorption
c. Analyzers, Spectrum
d. Assemblies, Shield
e. Badges, Radiation
f. Controls, Reactor
g. Counters
h. Crystals
i. Detectors
j. Indicators, Radiation
k. Installations Facilities
l. Manipulators
m. Meters, Counting Rate
n. Meters, Dosimeter
o. Meters, Nuclear Radiation
p. Processors, Catalytic Flow Rate
q. Pumps
r. Shielding, Lead
s. Shielding, Radiation
t. Tubes, Geiger Counter
u. Tubes, Scintillation
ACF Industries Inc., d, r, s.
Acromark Co., The., e.
Adept Industries Inc., e.
Advance Industries, Inc., i.
***AEROJET-GENERAL CORP., f, k.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., q.**
Allied Plastics Supply Corp., s.
Alloys Unlimited Inc., r.
Alpha Metals, Inc., r.
American Agile Corp., s.
American Electronics, Inc., e, g, i, j, m, o, u.
American Electronics, Inc., Nuclear Div., g thru k, m, o.
American Machine & Foundry Co., Government Products, N. Y., f, m, r, s.
American Potash & Chemical Corp., National Northern Div., f.
American Smelting & Refining Co., r.
American-Tradair Corp., c, g, h, i, m, t.
Amperex Electronic Corp., t, u.
Armament Div.-Universal Match Corp., d.
Automatic Switch Co., f.
Avco Corp.-Research & Advanced Development Div., k.
Baird-Atomic, Inc., c, e thru i, m, n, p, t.
Ball Brothers Research Corp., g.
Bar-Ray Products, Inc., d, r, s.
Bausch & Lomb Optical Co., c.
Beaver Precision Products Inc., l.
Bendix Aviation Corp., c, d, f, g, i, j, l thru o.
Bendix Aviation Corp., Cincinnati Div., c, f, i, j, m, n, o.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., f.**
E. W. Bliss Co., l.
Broadview Research Corp.
Brooks & Perkins, Inc., d, s.
Budd Co., The., k, r, s.
A. M. Byers Co., l, s.
Byron Jackson Pumps, Inc., q.
Callery Chemical Co., s.
Carborundum Co., The, s.
Central Research Labs, Inc., l.
Compudyne Corp., f.
Consolidated Controls Corp., p.
Corning Glass Works, d, e, j, s.

Datex Corp., f.
 Daystrom, Inc., Controls Systems Div., f.
 Daystrom, Inc., Military Electronics Div., f.
 Designers for Industry, Inc., c.
 Diamond Power Specialty Corp., f, l.
 Division Lead Co., r, s.
 Eastman Kodak Co., e, j.
 Eberline Instrument Corp., g, i, j, o.
 Edgerton, Gernsheim & Grier, Inc., i, n.
 Thomas A. Edison Ind. Instrument Div.-Mc Gray-Edison Co., f, i.
 Eldorado Electronics, c, g.
 Electro Instruments, Inc., g, m.
 Emerson & Cumings, Inc., s.
 Engrg. Specialties, m.
 Epco Inc., g.
 Ex-Cell-O Corp., f, l.
 Faststeel Metallurgical Corp., s.
 Firth Sterling Inc., s.
 Flight Refueling, Inc., f.
 Franklin Electronics Inc., c.
 Furane Plastics, Inc., r, s.
 General Mills, Inc., l.
 Goodyear Tire & Rubber Co., The, Aviation Products Div., s.
 W. R. Grace & Co., Davison Chem Div., Nuclear Reactor Mat. Plant, s.
 Hammett-Mercury Rex Div., h.
 High Voltage Engrg. Corp., c.
 Iconix Inc., g, m.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp., l, r, s.
 Instrument Div., The Budd Co., j, o.
 International Electronic Research Corp., f, i, j, m, o.
 International Instruments Inc., o.
 International Steel Co., d, k, s.
 Interstate Electronics Corp., a thru d, f thru k, m thru p, r thru u.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, e, l, o, r.
 Jan Hardware Mfg. Co., Inc., s.
 Johns-Manville Sales Corp., c, s.
 Keithley Instruments, Inc., f.
 Kennametal Inc., s.
 Kieley & Mueller, Inc., f.
 Morris P. Kirk & Son, Inc., d, r.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., b.
 lavoie labs, Inc., c, g.
 Lear, Inc., f.
 Leeds & Northrup Co., f.
 Levinthal Electronic Products, Inc., h.
 Madigan Corp., o.
 Mc Gregor Mfg. Corp., f.
 Metal Carbides Corp., s.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div., f, m, o.
 Monsanto Chemical Co., k.
 Mycalex Corp. of America, s.
 NUMEC-Nuclear Materials & Equipment Corp., f, g, i, j, k, m, o.
 National Carbon Co., Div.-Union Carbide Corp., s.
 M. M. Newman Corp., d, j, n, q, r, s.
 Norrich Plastics Corp., d.
 Northrop Corp., s.
 Norton Co., New Products Dept., s.
 Nuclear Corp. of America, o, i, j, m, n, o, t, u.
 Nuclear Development Corp. of America, f, k, l, s.
 Nuclear Development Lab., i, t.
 Nuclear Measurements Corp., o, c, g thru j, m, n, o, t, u.
 Nuclear-Chicago Corp., o, c, d, e, g thru j, m, n, o, r thru u.
 Ohmart Corp., The, c, d, f thru k, m, n, o, t, u.
 Pacific Coast Engrg. Co., l, r, s.
 Patterson Moos Research, Div.-Leesona Corp., f, h thru k, n.
 Peerless Pump Div., Food Machinery & Chemical Corp., q.
 Pegasus Labs, Inc., f.
 Piasecki Aircraft Corp., g, i, j, n, o.
 Pilot Chemicals, Inc., h, i.
 Portland Copper & Tank Works Inc., d, k, r, s.
 Precision Equipment Co., Inc., f.
 Radiation Instrument Development Lab., Inc., o, c, f, g, i, j, m, s, t, u.
 *RADIO CORP. OF AMERICA, t, u.
 Ray Proof Corp., r, s.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., t.
 Riggs Nucleonics Corp., i, j.
 St. John X-Ray Laboratory, e.
 Sillocks-Miller Co., e.
 Space Corp., k.
 Spaceatomics Div., The Budd Co., d, s.
 Specialty Electronics Development Corp., j, n, o.
 Stearns-Roger Mfg. Co., The, k.
 A. U. Stone & Co., Inc., f.
 Strand Engrg. Co., o.
 Stromberg-Carlson Div.-General Dynamics Corp., f.
 Sundstrand Turbo, q.
 TRG, Inc., s.
 Tapco Group, Thompson Ramo Wooldridge Inc., f, q.

Teletex Inc., f, l.
 Thompson Ramo Wooldridge Inc., f, q.
 Tracerlab Inc., o thru e, g, i thru o, r, s, t.
 Tung-Sol Electric, Inc., i.
 United Aircraft Products, Inc., d.
 United Shoe Machinery Corp., f.
 U. S. Industries, Inc., k.
 Vickers Inc., Electric Products Div., f.
 Vickers, Inc., Mich., f.
 Victoreen Instrument Co., c, g thru j, m, n, o, t, u.
 Western Gear Corp.-Precision Products Div., f.
 Western Union Telegraph Co., The, i.
 Westinghouse Electric Corp., j, o, q.
 Westinghouse Electric Corp., Micarta Div., s.
 N. Wood Counter Lab., g, t, u.
 Worthington Corp., q.
 Zippertubing Co., The, r, s.

NUCLEAR PRODUCTS

a. Analyzers, Coincidence
 b. Analyzers, Neutron Absorption
 c. Analyzers, Spectrum
 d. Assemblies, Shield
 e. Badges, Radiation
 f. Chambers, Alpha
 g. Counters, Alpha
 h. Counters, Radiation
 i. Counters, Scintillation
 j. Crystal, Scintillation
 k. Detectors, Scintillation
 l. Equipment, Nuclear Radiation
 m. Indicators, Radiation
 n. Reactors
 o. Spectrometers
 p. Tubes, Gamma Ray
 q. Tubes, Geiger Counter
 r. Tubes, Scintillation

ACF Industries Inc., d.
 Acromark Co., The, e.
 Adept Industries Inc., e.
 Aerajet-General Corp., n.
 American Electronics, Inc., e, h, i, k, l, p.
 American Electronics, Inc., Nuclear Div., i thru l.
 American Machine & Foundry Co., Government Products, N. Y., l, n.
 Ampex Electronic Corp., p, q, r.
 Baird-Atomic, Inc., o, d, e, g thru m, o thru r.
 Ball Brothers Research Corp., i.
 Barry Electronics Corp., i.
 Bausch & Lomb Optical Co., c, m, o.
 Bendix Aviation Corp., e, h, k, m, n.
 Bendix Aviation Corp., Cincinnati Div., c, h, l, m, o.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Braun-Knecht-Heimann Co., Industrial Div., q.
 Broadview Research Corp.
 Brooks & Perkins, Inc., d.
 Budd Co., The, l.
 Chicago Development Corp., m.
 Coil Co. of America, n.
 *CONSOLIDATED ELECTRODYNAMICS CORP., o.
 Corning Glass Works, e, m.
 Curtiss-Wright Corp., Princeton Div., k, l.
 Davidson Optronics, Inc., o.
 Eberline Instrument Corp., f thru i, k, l.
 Eldorado Electronics, c.
 Hahn & Clay, n.
 High Voltage Engrg. Corp., l.
 Iconix Inc., g, h, i.
 Industrial Div., Baldwin Lima Hamilton Corp., l, n.
 Instrument Div., The Budd Co., p.
 International Electronic Research Corp., h, l, m.
 Interstate Electronics Corp., o thru d, f thru r.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, e, g, h, i, l.
 Johns-Manville Sales Corp., d.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., b, h, i, k, l, m.
 lavoie labs, Inc., c.
 Lear, Inc., n.
 Leeds & Northrup Co., l.
 Levinthal Electronic Products, Inc., j.
 Marquardt Corp., The, n.
 Metal Carbides Corp., d.
 NUMEC-Nuclear Materials & Equipment Corp., h, l, m.
 National Carbon Co., Div.-Union Carbide Corp., n.
 M. M. Newman Corp., c.
 Northeastern Engrg. Inc., c.
 Northrop Corp.
 Nuclear Corp. of America, c, f thru m, o thru r.
 Nuclear Development Corp. of America, n.
 Nuclear Development Lab., g, h, p, q.
 Nuclear Measurements Corp., f thru m, o thru r.
 Nuclear-Chicago Corp., o, c thru r.
 Ohmart Corp., The, c, f thru m, o thru r.
 Pacific Coast Engrg. Co., n.
 Patterson Moos Research, Div.-Leesona Corp., e, l, m, n.

Philips & Davies Inc., n.
 Philips Electronic Instruments, i, k, q, r.
 Piasecki Aircraft Corp., h, i, k, m.
 Pilot Chemicals, Inc., i, j, k.
 Portland Copper & Tank Works Inc., d, n.
 Precision Equipment Co., Inc.
 Production Research Corp., Sub.-Radio Condenser Co., c, o.
 Radiation Instrument Development Lab., Inc., o, c, h thru m, o, q.
 *RADIO CORP. OF AMERICA, p, q, r.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., b.
 Ray Proof Corp., d.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., p.
 Research Indsl. Lab. of Electronics, g.
 Resitron Labs, Inc., p.
 Riggs Nucleonics Corp., m.
 St. John X-Ray Laboratory, e.
 Semi-Elements, Inc., j.
 Sillocks-Miller Co., e.
 Spaceatomics Div., The Budd Co., d.
 Specialty Electronics Development Corp., l, m.
 Telchrome Mfg. Corp., g, h, i, k, l.
 Tracerlab Inc., a thru m, o thru r.
 Victoreen Instrument Co., c, g thru m, o thru r.
 Westinghouse Electric Corp., h, m, n.
 N. Wood Counter Lab., h, i, p, q, r.
 Zippertubing Co., The, d.

NUTS, SELF-LOCKING

Abbot Screw & Mfg. Co.
 Aero Spares, Inc.
 Aerotron Supply Co.
 Airhardware, Inc.
 All Specs Corp.
 Alvo Nut & Bolt Co., Inc.
 Atlas Screw & Specialty Co.
 Autoscrew Co., Inc.
 Aviation Textile Associates
 Best Aircraft Corp.
 Boots Aircraft Nut Corp.
 Central Screw Co.
 Cherry Rivet Div.-Townsend Co.
 Collins Mfg. Corp.
 Deltron Co., Inc., The
 R. C. Dudek & Co.
 Eaton Mfg. Co., Reliance Div.
 Elastic Stop Nut Corp. of America
 George K. Garrett Co., Inc.
 Grip Nut Co.
 H. M. Harper Co.
 Jacobson Nut Mfg. Corp.
 Jan Hardware Mfg. Co., Inc.
 Walter K. Jaros Aircrafts
 Keystone Bolt & Nut Corp.
 Klincher Locknut Corp.
 Mercury Air Parts Co., Inc.
 J. I. Morris Co.
 National Screw & Mfg. Co., The
 Nylok Corp., The
 Ohlson Empire Inc.
 Prestale Corp.
 Republic Steel Corp.
 Shur-Lok Corp.
 Standard Pressed Steel Co.
 Star Stainless Screw Co.
 Tinnerman Products, Inc.
 United Supply Co.
 Voi-Shan Mfg. Co., Div.-Voi-Shan Industries, Inc.

OMNIRANGE

Allied International Corp.
 Bendix Aviation Corp.
 Broadview Research Corp.
 Collins Radio Co.
 General Instrument Corp., Defense & Engrg. Products Group
 Hazeltine Electronics Div.-Hazeltine Corp.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Lear, Inc.
 Littion Industries, Maryland Div.
 Motorola, Inc.
 National Co., Inc.
 Radalab Inc.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Tamar Electronics, Inc.
 Telectro Industries Corp.

OMNIRANGE RECEIVERS

Allied International Corp.
 Bendix Aviation Corp.
 Broadview Research Corp.
 Collins Radio Co.
 Fla. Aircraft Radio & Marine

General Instrument Corp., Defense & Engr. Products Group
 Hazeltine Electronics Div.-Hazeltine Corp.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Lear, Inc.
 Litton Industries, Maryland Div.
 Motorola, Inc.
 National Co., Inc.
 Philco Corp.-Govt. & Industrial Group
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Tomar Electronics, Inc.
 Telectro Industries Corp.

OPTICAL EQUIPMENT & SPECIALTIES

Ame Industrial Co.
 American Cystoscope Makers, Inc.
 American Machine & Foundry Co., Government Products, N. Y.
 American Optical Co., Instrument Div.
 American Optical Co., Safety Products Div.
 *ASKANIA-WERKE, U. S. BRANCH OFFICE
 Atlantic Research Corp.
 Ball Brothers Research Corp.
 Bausch & Lomb Optical Co.
 Brunson Instrument Co.
 Cameroflex Div., The Federal Mfg. & Engr. Corp.
 Cartriseal Corp.
 *CONSOLIDATED ELECTRODYNAMICS CORP.
 Corning Glass Works
 Data Instruments Div., Telecomputing Corp.
 Davidson Optronics, Inc.
 Dell Optics Co., Ltd.
 *DEL MAR ENGRG. LABS.
 Device Development Corp.
 Du Kane Corp.
 Eastman Kodak Co.
 Elgeet Optical Co., Inc.
 *ENGIS EQUIPMENT CO.
 J. W. Fecker Div., American Optical Co.
 Fenske, Fedrick & Miller Inc.
 General Electric Co., Missile & Space Vehicle Dept. Po.
 Gordon Enterprises
 Grimes Mfg. Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 W. & L. E. Gurley
 Kollmorgen Optical Corp.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co., Inc.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc.
 Leotronics, Inc.
 Lenox Instrument Co.
 Librascope Div., General Precision, Inc.
 New England Scientific Instruments Co.
 Northrop Corp.
 Nortronics, Div.-Northrop Corp.
 Nuclear Development Corp. of America
 Optical Coating Lab., Inc.
 Optical Gaging Products, Inc.
 Pacific Optical Corp., Div.-Chicago Aerial Industries
 Parker-Hartford Corp., The
 Perkin-Elmer Corp.
 Precision Lapping Co., Inc.
 Radalab Inc.
 Seiscor, Div.-Seismograph Service Corp.
 Sterling Glass Corp.
 Texas Instruments Inc.
 H. I. Thompson Fiber Glass Co.
 Tinsley Labs., Inc.
 Viewlex, Inc.
 Warren-Knight Co.
 Wollensak Optical Co.
 Zenith Optical Laboratory

OSCILLATORS

a. Audio
 b. Cavity
 c. Cade
 d. Crystal
 e. Grid Dip-High Frequency & VHF
 f. Microwave
 g. Oven Crystal Control
 h. Pulse
 i. Pushbutton
 j. RF
 k. Strain-Gage
 l. Sweep
 m. Tuning Fork
 n. Ultra-Low Frequency
 o. Ultra-Low Frequency
 a. Ultrasonic
 p. Video Pattern
 q. Video Range

ACF Electronics Div., ACF Industries Inc., f.
 ACF Industries Inc., f.
 Adler Electronics, Inc., f.

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., j.
 Aircorn Inc., f.
 Aircraft Instruments Co., h.
 Allred Electronics, f.
 Amerac Inc., f, e, f, h, h.
 American Missile Products Co., Inc., a, j.
 Arky Engr., Inc., d, h.
 Avo Ltd., j.
 B & K Instruments, Inc., a.
 Bendix Aviation Corp., f, a.
 James G. Biddle Co., m.
 Branson Instruments, Inc., a.
 Bruno-New York Industries Corp., f, j.
 Bud Radio, Inc., c.
 Budd Lewyt Electronics, Inc., a, b, f, h, j, l, n.
 Bulova Watch Co., Electronics Div., d, g, n, a.
 Burr-Brown Research Corp., a, a.
 CG Electronics Corp., h.
 CGS Labs., Inc., b, f.
 Carol Electronics Corp., e.
 Cholco Engr. Corp., a, n.
 Cleviste Ordnance, Div.-Clevite Corp., a, d, a.
 Collins Radio Co., a, j.
 Communication Measurements Lab., Inc., a.
 Control Electronics Co., Inc., b, f.
 Crosby-Teletronics Corp., i.
 Dage Television Div., Thompson Ramo Wooldridge, Inc., p.
 Data-Control Systems, Inc., k.
 Daven Co., The, a, d, g thru j, a, p, q.
 Joe Davidson & Associates, a, m, a.
 *DEL MAR ENGRG. LABS., d.
 Diamond Antenna & Microwave Corp., b, d, f, j.
 Djeco, Div.-Djordjevic Engr. Co., h.
 Dorne & Margolin, Inc., d.
 Dorsett Electronic Labs., Inc., k.
 Douglas Microwave Co., Inc., b, f.
 Dynatronics, Inc., d, f, h, j.
 Electronic Applications, Inc., a, b, f, a, p, q.
 Electro-Pulse, Inc., h.
 Elin Div., International Electronic Research Corp., a.
 Empire Products Sales Corp., b, f, h, n.
 *EQUIPMENT DIV., RAYTHEON CO., f, h, a.
 FXR, Inc., f.
 Ferratron Electronics Co., Inc., j.
 Flo. Aircraft Radio & Marine
 Foto-Video Labs., Inc., p.
 Gales Radio Co., d, g, j.
 General Communication Co., f.
 General Devices, Inc., a thru q.
 General Instrument Corp., Defense & Engr. Products Group, a, b, e, f, j, n, o.
 General Radio Co., a, d, f, j, l, m, n.
 John Gombos Co., Inc., b, f.
 Guided Missile Div., The Firestone Tire & Rubber Co., d.
 Gyrex Corp., The, a, m.
 Hallamore Electronics Co., Div.-Seigler Corp., j.
 Hallicrofters Co., The, f.
 Hammarlund Mfg. Co., The, a, f.
 Hommett-Mercury-Rex Div., d, f.
 Hathaway Instruments, Inc., m.
 Hewlett-Packard Co., a, b, d, f, j, l, n.
 Hico Electrical Instrument Co., The, a, e, h.
 Hill Electronics, Inc., a, d, g, n.
 Hoover Electronics Co., k.
 ITI Electronics, Inc., a.
 Iconix Inc., h.
 Industrial Test Equipment Co., a, m.
 Instrutron Corp., l.
 Instrument Div., The Budd Co., k.
 Instrument Labs., a.
 Instruments for Industry, Inc., i, j, l.

*INTERELECTRONICS CORP., a.
 International Electronic Research Corp., a, k.
 J.V.M Microwave Co., b, f, j.
 Kay Electric Co., a, f, h, j, l, n thru q.
 Wayne Kerr Corp., a, j.
 Keystone Electronics Co., The, d.
 James Knights Co., The, a, d, g, n, a.
 Lab. for Electronics, Inc., b, d, f.
 Lamplin Labs., Inc., M.R. Div., j.
 La Pointe Industries Inc., a, b, d, f.
 Lear, Inc., a, d, i, j, l.
 Levinthal Electronic Products, Inc., f, h.
 Ling Electronics Div.-Ling Altac Electronics, Inc., l.
 Litton Industries, Inc., f.
 Monson Labs., Inc., d, f, g, j.
 Marconi Instruments, d, j, n.
 *MARTIN CO., THE, DENVER DIV., c.
 Mc Kenna Labs., a.
 Micro Gee Products, Inc., a, d, l.
 Microwave Associates, Inc., f.
 James Millen Mfg. Co. Inc., e, j.
 Motorola, Inc., a thru j, l, m, a, q.
 Murohead Instruments Inc., a, m, n.
 Nardo Ultratronics Corp., The, a.
 National Co., Inc., a thru i, n.
 Navigatlon Computer Corp., h.
 Ernest Norrmon Laboratories, d.

Northrop Corp.
 Pacific Mercury Electronics, a.
 Packard Bell Computer Corp., h.
 Peco Electronics Co., Inc., a, n, a.
 Palmer Instruments, d, g.
 Phlaman Labs. Inc., m.
 Philco Corp.-Govt. & Industrial Group, a, f, h, j, k, l, p, q.
 Piasceki Aircraft Corp., a, d, e, f, i, j, a.
 Piezo Crystal Co., d, g.
 Pitometer Log Corp., b, f, g, j.
 Palorod Electronics Corp., b, f, l.
 Polytechnic Research & Development Co., Inc., b, f.
 Precise Development Corp., a, j.
 Projects Unlimited, Inc., e.
 Radalab Inc., a thru e, j.
 Radiation, Inc., b, f, j, n.
 Radiation Instrument Development Lab., Inc., h.
 Radio City Products Co., Inc., h, j.
 Radio Condenser Co., j, n, a.
 *RADIO CORP. OF AMERICA, a thru f, h, j, l thru q.
 Radio Development & Research Corp., a.
 Radio Frequency Co., Inc., a.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., a, b, e, f, j, n, a.
 Rantec Corp., f, j.
 Reeves-Hoffman Div., a, d, e, g, h, j, n, a.
 Republic Aviation Corp., Missile Systems Div.
 Resdel Engr. Corp., b, j.
 Riverbank Labs., Dept.-Engr., m.
 Sanders Associates, Inc., f.
 Scientific-Atlanta, Inc., f, j, m.
 Secode Corp., a, c, h.
 Servo Consultants Ltd., n.
 Sierra Electronics Corp., Div.-Philco Corp., f.
 Southwest Research Institute, n.
 Southwestern Industrial Electronics Co.
 Specialty Electronics Development Corp., a, f.
 Spectralab Instruments, b, e, f, j.
 Sperry Electronic Tube Div., Sperry Rand Corp., f.
 Stewart-Warner Electronics Div., b, c, f, h, m.
 H. W. Sullivan Ltd., a, b, e, m.
 Sunshine Scientific Instrument, m.
 Superior Electric Co., The, h, a.
 TRG, Inc., b, f.
 Tomar Electronics, Inc., b, d, f, j.
 Technical Material Corp., The, g.
 Telectrome Mfg. Corp., f, p, q.
 Telex, Inc., a.
 Tel-Instrument Electronics Corp., g, j, l.
 Telkor, Inc., a.
 Telonic Industries, Inc., a, d, h, j, l.
 Universal Transistor Products Corp., h.
 Valpey Crystal Corp., a, d, g, n.
 Vari-L Co., Inc., l.
 Voro Mfg. Co., Inc., a, m.
 Victor R. F. & Microwave Co., f.
 Video Instruments Co., Inc., k.
 Virginia Electronics Co., Inc., a, d, g, j.
 Voi-Shan Electronics, a, j.
 Walkirt Co., d, h, m.
 Waltham Electronics Corp., g, j.
 Wang Labs, Inc., h.
 Wickes Engr. & Construction Co., a.

OSCILLOGRAPHS

a. Cathode Ray
 b. Cathode Ray Camera
 c. Cathode Ray Recording, Multi-Channel
 d. Direct Writing
 e. Multi-Channel
 f. Multi-Element
 g. Portable
 h. Projection
 i. Radar
 j. Recording
 k. Transient Study

Action Laboratories Inc., i.
 Allegony Instrument Co., Inc., b.
 American Instrument Co., Inc., a.
 Brush Instruments, Div.-Clevite Corp., d, e, j.
 Central Research Labs., Inc., e, k.
 Century Electronics & Instruments, Inc., d, e, f.
 *CONSOLIDATED ELECTRODYNAMICS CORP., a thru g, j.
 Daven Co., The, a.
 Designers for Industry, Inc., d, i, k.
 Allen B. Du Mont Labs., Inc., a, b, c, e thru k.
 Eastman Kodak Co., b, h, j.
 Electro-Medical Lab., Inc., d.
 Electronic Tube Corp., a, b, c, e.
 Epic, Inc., e, g, j.
 Foto-Video Labs, Inc., i.
 General Electric Co., Apparatus Sales Div., a, g, j.
 Gordon Enterprises, a thru g, i, j.
 Hammett-Mercury-Rex Div., a, b, c.
 Hathaway Instruments, Inc., a, c, e, f, j, k.
 Hewlett-Packard Co., a.
 ITI Electronics, Inc., a, g.

Massa Div.-Cohu Electronics, Inc., d thru g, j, k.
 Midwestern Instruments, Inc., a, d thru g, j.
 James Millen Mfg. Co. Inc., a, g.
 Minneapolis-Honeywell, Heiland Div., d thru g, j, k.
 Motorola, Inc., i.
 National Scientific Labs., Inc., a.
 New England Scientific Instruments Co., c, d, e, k.
 Northrop Corp.
 Offner Electronics Inc., d thru g, j, k.
 Optomechanisms Inc., b.
 Paco Electronics Co., Inc., a.
 Philco Corp.-Govt. & Industrial Group, a, b, e, g, i.
 Photon Instrument Co., d thru g, j.
 Precise Development Corp., a.
 Radalab Inc., i.
 Scientific-Atlanta, Inc., e.
 Southwestern Industrial Electronics Co., e, g, j.
 Technology Instrument Corp., j.
 Tektronix, Inc., a, b, k.
 Telectro Industries Corp., a, d, e, g, j.
 Viewlex, Inc., g, j.
 Wallensak Optical Co., b.

OSCILLOSCOPES

- a. Cathode Ray
- b. Cathode Ray-Multiple Channel
- c. Portable
- d. Portable Projection

Allen Electric & Equipment Co., a, c.
 American Electronic Labs., Inc., a, b.
 American Instrument Co., Inc., a.
 Armament Div.-Universal Match Corp., b.
 Blender-Tongue Labs. Inc., Special Products Div., d.
 Daven Co., The, a, c.
 Allen B. Du Mont Labs., Inc., a thru d.
 Edgerton, Germeshausen & Grier, Inc., a.
 Electro Instruments, Inc., c.
 Electronic Measurements Corp., a.
 Electronic Tube Corp., a, b, c.
 Electronics of Clearfield, Inc., a.
 Foto-Video Labs., Inc., a.
 Hammett-Mercury-Rex Div., a, b.
 Hewlett-Packard Co., a, b.
 Hickok Electrical Instrument Co., The, a, b, c.
 I-L-S Instrument Div., The Meriam Instrument Co., c.
 I-T-I Electronics, Inc., a.
 Kingston Electronics Div.-Kingston Industries Inc., a, c.
 Lavoie Labs., Inc., a, b.
 Levinthal Electronic Products, Inc., b.
 Marconi Instruments, a, c.
 James Millen Mfg. Co. Inc., a, c.
 Moran Instrument Corp., a.
 Paco Electronics Co., Inc., a.
 Philco Corp.-Govt. & Industrial Group, a thru d.
 Pioneer Industries Div., Almar-York Co. Inc., a, c.
 Precise Development Corp., a, b, c.
 Probescope Co. Inc., a, b.
 Radalab Inc., a, c, d.
 *RADIO CORP. OF AMERICA, a, c.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS,
 Railway Communications, Inc., b.
 Scopes Co., Inc., The, a, b, c.
 Sierra Electronic Corp. Div.-Philco Corp., a, b.
 Simpson Electric Co., a, c.
 Skiatron Electronics & Television Corp., a.
 Specialty Electronics Development Corp., a.
 Tektronix, Inc., a, b, c.
 Telectro Industries Corp., a, b.
 Waters Mfg., Inc., a.
 Winder Aircraft Corp. of Florida, a, b.

OUTLETS, ANTENNA

Alden Products Co.
 Allied International Corp.
 American Brass Co., The
 Blender-Tongue Labs., Inc.
 Chance Vought Aircraft, Inc.
 Javex Electronics
 Norrick Screw Machine Products
 Radalab Inc.
 Rantec Corp.

OVENS

- a. Crystal
- b. Environmental Testing
- c. Infrared Drying
- d. Temperature Controlled

American Electronic Labs., Inc., a.
 American Instrument Co., Inc., b, d.
 American Research Corp., b, d.
 Andersen Labs., Inc., d.
 Arkay Engrg., Inc., d.
 Associated Testing Labs., Inc., b, d.
 Auto-Control Labs. Inc., a thru d.
 Rex Bassett, Inc., a.
 Binks Mfg. Co., c.
 Blue M Electric Co., b, d.
 Brunswick Balke Collender Co., The, Defense Products Div., d.

California Stamping & Mfg. Co., d.
 Chempump Div., Fostoria Corp., c.
 Cincinnati Cleaning & Finishing Machinery, c, d.
 Circo Equipment Co., d.
 Circo Ultrasonic Corp., d.
 Clark Crystal Co., a.
 Cosmic Instruments Inc., a.
 Cox & Co., Inc., a.
 Designers for Industry, Inc., a.
 Despatch Oven Co., b, d.
 Development Engrg. Co., Inc., b, d.
 Farwest Mfg. Div., Inc., c.
 Fisher Scientific Co., c, d.
 Fisher Scientific Co., Maryland, d.
 Fostoria Corp., Infra-Red Div., c.
 Gardner Laboratory, Inc., a thru d.
 Hathaway Instruments, Inc., d.
 C. I. Hayes, Inc., d.
 Hevi-Duty Electric Co., Div.-Basic Products Corp., a, b, d.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., a, b, d.
 A. F. Holden Co., The, c, d.
 Hunt Corp., The, a, d.
 Huppert, K. H., Co., d.
 Industrial Systems Co., d.
 *ITEMCO, INC., b, d.
 Keystone Electronics Co., The, a, d.
 Kirk & Blum Mfg. Co., The, d.
 Labline, Inc., b, d.
 Lavoie Labs., Inc., a, d.
 Lucifer Furnaces Inc., d.
 Magnetic Controls Co., a, d.
 R. C. Mahon Co., The, b, d.
 Manson Labs., Inc., a.
 Mc Coy Electronics Co., a.
 Miskella Infra-Red Co., The, c.
 Motorola, Inc., a.
 Murphy & Miller Inc., b, d.
 National Co., Inc., a, d.
 Northeast Metals Industries, Inc., b.
 Northern Engrg. Laboratories, Inc., a, d.
 Palmer Instruments, a, d.
 Phoenix Products Co., d.
 Piezo Crystal Co., a.
 Pimex, Inc., d.
 Pioneer Industries Div., Almar-York Co. Inc., b, d.
 Portland Copper & Tank Works Inc., b.
 Premier Research Laboratories, Inc., a, d.
 REF Mfg. Corp., d.
 Edw. Renneburg & Sons Co. Research, Inc., b, c, d.
 Robertshaw-Fulton Controls Co., A & I Div., a.
 Roto Finish-Ranshoff, c, d.
 Selas Corp. of America, d.
 Special Products Dept., Melpar, Inc., d.
 State Testing Laboratory Inc., b, c, d.
 Statham Development Corp., b.
 Statham Instruments, Inc., b, d.
 Steiner-Ives Co., a, d.
 F. J. Stokes Corp., a thru d.
 Temperature Engrg. Corp., b, c, d.
 Tenney Engrg., Inc., b, d.
 Thermionic Products Co., d.
 Therman Mfg. Co., b, d.
 Twix Mfg. Co., Inc., b.
 United States Testing Co., Inc., b.
 Valpey Crystal Corp., a.
 Valverde Labs., d.
 Veeco Vacuum Corp., d.
 Waltham Electronics Corp., a.
 Webber Engrg. Corp., b, d.
 Webber Mfg. Co., Inc., b, d.
 Young Brothers Co., d.

OXIDE, ALUMINUM

Aluminum Co. of America
 American Smelting & Refining Co.
 Carborundum Co., The
 Carborundum Co., Refractories Div.
 City Chemical Corp.
 Corning Glass Works
 Delta Chemical Works, Inc.
 Fisher Scientific Co.
 Gulton Industries, Inc.
 Kaiser Aluminum & Chemical Sales, Inc.
 Monsanto Chemical Co.
 National Beryllia Corp.
 Norton Co., New Products Dept.
 Olin Mathieson Chemical Corp., N. Y.
 Portland Copper & Tank Works Inc.
 Reynolds Metals Co.
 Semi-Elements, Inc.
 Supreme Indsl. Products Co.
 Thor Ceramics, Inc.
 Topper Mfg. Co., Inc.
 United Mineral & Chemical Corp.
 Vascoloy-Ramet Corp.
 Western Gold & Platinum Co.

OXIDIZERS

Allied Chemical Corp., General Chemical Div.
 Allied Chemical Corp., Nitrogen Div.
 American Potash & Chemical Corp.
 American Rocket Co.
 Hughes Tool Co., Aircraft Div.
 Hummel Chemical Co., Inc.
 Martin Machine Works, Inc.
 Olin Mathieson Chemical Corp., N. Y.
 Pennsalt Chemicals Corp.
 Southwest Research Institute
 Stauffer Chemical Co.

OXYGEN APPARATUS & BREATHING EQUIPMENT

Accessory Products Co., Div.-Textron Inc.
 Acushnet Process Co.
 Air Products, Inc.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
 Airborne Research & Development Corp.
 American Latex Products Corp.
 Aro Equipment Corp., The
 Aro-Firewel Co. Inc., Sub.-The Aro Equip. Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Pioneer-Central Div.
 A. Biederman, Inc.
 Essex Mfg. Co., Inc.
 Fluid Power Inc.
 Futurecraft Corp.
 General Electric Co., Missile & Space Vehicle Dept. Pa.
 Hardman Tool & Engrg., Co.
 Hofman Labs., Inc.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Linde Co., Div.-Union Carbide Corp.
 Liquid Carbonic Div.-General Dynamics Corp.
 Mine Safety Appliances Co.
 Mira Corp., The
 J. J. Monaghan Co., Inc.
 National Cylinder Gas, Div.-Chemetron Corp.
 National Welding Equipment Co.
 Ohio Chemical & Surgical Equip. Co., Div.-Air Reduction Co., Inc.
 Oxygen Equipment & Service Co.
 Puritan Aerospace Div.-Puritan Compressed Gas Corp.
 Robbins Aviation, Inc.
 Fred T. Roberts & Co.
 Robertshaw-Fulton Controls Co., A & I Div.
 Ronan & Kunz, Inc., Cryogenic Div.
 Scott Aviation Corp.
 Sierra Engrg. Co.
 Standard Steel Corp., Cambridge Div.
 Sun Electric Corp., Aeronautical Div.
 Superior Air Products Co.
 United Electric Controls Co.
 Wells Industries Corp.
 Zep Aero

OXYGEN SYSTEMS & CONTROLS

Accessory Products Co., Div.-Textron Inc.
 Air Products, Inc.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
 Airborne Research & Development Corp.
 Aro Equipment Corp., The
 Aro-Firewel Co. Inc., Sub.-The Aro Equip. Corp.
 Benbow Mfg. Corp.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Pioneer-Central Div.
 A. Biederman, Inc.
 Components Corp.
 Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
 Cryogenerators, Inc.
 Custom Component Switches Inc.
 R. E. Darling Co., Inc.
 Ellison Draft Gage Co., Inc.
 Fluid Power Inc.
 B. H. Hadley, Inc.
 Haskel Engrg. & Supply Co.
 Hofman Labs., Inc.
 Walter J. Hyatt Co., The
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Kielely & Mueller, Inc.
 Leor, Inc.
 Linde Co., Div.-Union Carbide Corp.
 Liquid Carbonic Div.-General Dynamics Corp.
 *MARTIN CO., THE, DENVER DIV.
 Meltron Corp.
 Minneapolis-Honeywell Regulator Co., Aeronautical Div.
 Minneapolis-Honeywell Regulator Co., Missiles Equipment Div.
 National Cylinder Gas, Div.-Chemetron Corp.
 National Welding Equipment Co.
 Ohio Chemical & Surgical Equip. Co., Div.-Air Reduction Co., Inc.
 Oh Mark Couplings, Inc.
 Oxygen Equipment & Service Co.
 Pneu-Hydro Valve Corp.

Puriton Aerospace Div.-Puriton Compressed Gas Corp.
Research Controls
Robbins Aviation, Inc.
Robertshaw-Fulton Controls Co., A & I Div.
Ryan Industries, Inc., Dept. M.
Scott Aviation Corp.
Sierra Engrg. Co.
Standard Steel Corp., Cambridge Div.
Stearns-Roger Mfg. Co., The
Superior Air Products Co.
Ultra-Violet Products, Inc.
United Electric Controls Co.
Vinson Mfg. Co. Inc.
Wells Industries Corp.
Zep Aero

PACK SETS

American Latex Products Corp.
Dage Television Div., Thompson Ramo Wooldridge Inc.
Lond-Air Inc., Sub.-California Eastern Aviation, Inc.
Motorola, Inc.
National Co., Inc.
Seiscor, Div., Seismograph Service Corp.
Winder Aircraft Corp. of Florida

PACKAGING, ELECTRONIC EQUIPMENT, SERVICE ONLY

Advance Instrument Corp.
American Latex Products Corp.
American Missile Products Co., Inc.
Anderson, Greenwood & Co.
Beorning Inspection, Inc.
Bernco Engrg. Corp.
Calcor Corp.
Comerflex Div., The, Federal Mfg. & Engrg. Corp.
Cleveland Metal Specialties Co., Electronics Div.
Commercial Services Co., Inc.
Crystal-X Corp.
Dotoson Inc.
Dayton Aircraft Products, Inc.
Delco Radio Div.-General Motors Corp.
***DEL MAR ENGRG. LABS.**
Designers For Industry, Inc.
Forwell Metal Fabricating
Fenwol Inc.
General Box Co.
General Logistics Div., Aeroquip Corp.
Goldsmo
Halliburton, Inc., Mfg. Div.
Hoover Electronics Co.
Johnson Electronics Inc.
Lab. For Electronics, Inc.
Lear, Inc.
W. D. Long Packaging Co.
Lyon Aircraft Services
Lyon Van & Storage Co., Aircraft Div.
Magee-Brallo & Associates
***MARTIN CO., THE, DENVER DIV.**
Mutron Corp.
Northeast Metals Industries, Inc.
Northrop Corp.
Owens-Corning Fiberglos Corp.
Pak-Rapid, Inc.
Philco Corp.-Govt. & Industrial Group
Reed Research Inc.
Roberts Industries Inc.
Skydyne, Inc.
Special Products Dept., Melpar, Inc.
Specialty Electronics Development Corp.
Technical Materiel Corp., The
Telkor, Inc.
Temco Aircraft Corp.
Topper Mfg. Co., Inc.
Virginia Electronics Co., Inc.
Western Coil & Electrical Co.
Wickes Engrg. & Construction Co.
Winder Aircraft Corp of Florida
Zero Mfg. Co.

PACKAGING MATERIALS

***AEROJET-GENERAL CORP.**
Air Logistics Corp.
American Felt Co.
American Latex Products Corp.
Armour Alliance Industries
Armstrong Cork Co.
Bemis Bro. Bag Co.
Bestcraft Products Co. Inc.
Blossom Mfg. Co. Inc.
Barden Chemical Co.
Bostrom Corp.
Commercial Services Co., Inc.
Container Labs, Inc.
Corrugated Paper Products, Inc.
Crystal-X Corp.
Daubert Chemical Co.
Joe Davidson & Associates
Dayton Aircraft Products, Inc.

Daw Chemical Co., The
Emerson & Cuming, Inc.
Fidelity Chemical Products Corp.
Gatewood Products, Inc.
B. F. Goodrich Sponge Products
Halliburton, Inc., Mfg. Div.
Hinde & Dauch Div.-West Virginia Pulp & Paper
International Steel Co.
Isocyanate Products, Inc.
Lyon Van & Storage Co., Aircraft Div.
P. R. Mallory & Co. Inc.
***MARTIN CO., THE, DENVER DIV.**
Martin Machine Works, Inc.
***MINNESOTA MINING & MFG. CO.**
***MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.**

Malded Insulation Co.
Monsanto Chemical Co.
Naz-Dar Co.
Napco Chemical Co., Plastics Div.
Olin Mathieson Chemical Corp., N. Y.
Owens-Corning Fiberglas Corp.
Plastic Film Co., Inc.
Pry Welding & Mfg. Inc.
Reed Research Inc.
Reynolds Metals Co.
Reynolds Metals Co., Plastics Div.
Seal-Peel, Inc.
Sillcocks-Miller Co.
Skydyne, Inc.
Thiokol Chemical Corp., Hunter-Bristol Div.
H. I. Thompson Fiber Glass Co.
Topper Mfg. Co., Inc.
United Mineral & Chemical Corp.
United States Rubber Co.
Western Coating Co.
Zophor Mills Inc.

PAINT, METALLIC

Bart Mfg. Corp.
Bel Fuse Inc.
Better Finishes & Coatings Inc.
Corboline Co.
Dennis Chemical Co.
Felton-Sibley & Co., Inc.
Kish Industries, Inc.
Krylon, Inc.
Moss & Waldstein Co.
Metaplast Co., Inc.
Micro-Circuits Co.
Midland Industrial Finishes Co.
Midland Paint & Varnish Co., The
Noz-Dar Co.
Protex-A-Cote, Inc.
Raffi & Swanson, Inc.
Rust-Oleum
Standard-Toch Chemicals, Inc.
Tempil Corp.
Thompson & Co.
Vito-Var Corp.
Wilbur & Williams Co., Inc., The

PAINTS

Arca Co., The
Avondale Co., The
Better Finishes & Coatings Inc.
Bjarksten Research Labs. Far Industry, Inc.
Barden Chemical Co.
Corboline Co.
Dennis Chemical Co.
Felton-Sibley & Co., Inc.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Kish Industries, Inc.
Krylon, Inc.
Maas & Waldstein Co.
Micro-Circuits Co.
Midland Paint & Varnish Co., The
***MINNESOTA MINING & MFG. CO.**
Protex-A-Cote, Inc.
Raffi & Swanson, Inc.
Rust-Oleum
Standard-Toch Chemicals, Inc.
Tempil Corp.
Thompson & Co.
Vito-Var Corp.
Wilbur & Williams Co., Inc., The
Zophor Mills Inc.

PALLADIUM

Alloys Unlimited Inc.
American Silver Co., Inc.
Bart Mfg. Corp.
J. Bishop & Co., Platinum Works
Brom Metallurgical Chemical Co.
Daringer Metallurgical Corp.
Eastern Smelting & Refining Corp.
Gibson Electric Co.
Goldsmith Bros. Div., National Lead Co.
P. R. Mallory & Co. Inc.

Norrish Plastics Corp.
Technic Inc.
United Mineral & Chemical Corp.
Vor-Loc-Old Chemical Co.
Western Gold & Platinum Co.

PANEL BOARDS, ELECTRIC

Accurate Electronics Corp.
Adept Industries Inc.
Aero-Test Equipment Co., Inc.
Allen Electric & Equipment Co.
Anchor Specialty Mfg. Co. Inc.
Anderson, Greenwood & Co.
Bernco Engrg. Corp.
Brooks & Perkins, Inc.
California Plasteck Inc.
Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
Cardell Mfrs.
Devco Engrg. Inc.
Eljay Corp.
Emerson Plastics Corp.
Folstrom Co.
Forwest Mfg. Div., Inc.
Food Machinery & Chemical Corp., Ordnance Div.
Fouch Electric Mfg. Co., Inc.
General Electric Co., Apparatus Sales Div.
Grimes Mfg. Co.
Industrial Engrg. Corp.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
Keystone Electronics Corp.
Kings Electronics Co., Inc.
Kirk & Blum Mfg. Co., The
Kolton Electric Mfg. Co.
Thomas J. Long, Inc.
Marquardt Corp., The
***MARTIN CO., THE, DENVER DIV.**
George L. Nankervis Co.
National Electronics
Northern Electric Mfg. Co.
Norrish Screw Machine Products
Northern Plastics Corp.
Panel Engrg. Corp.
Panob Corp.
Piasecki Aircraft Corp.
Radia Development & Research Corp.
Rom Meter Inc.
Skyline Electric & Mfg. Co.
States Co., The
Stewart & Stevenson Services, Inc.
Sunshine Scientific Instrument
Telkor, Inc.
Tucson Instrument Corp.
United States Instrument Corp.
Victor Tool & Mfg., Inc.
Waco Aircraft Co.
Westinghouse Electric Corp.
Winder Aircraft Corp. of Florida
Wolverine Diesel Power Co.

PANELS

- a. Fibre
- b. Instrument
- c. Jack
- d. Receiver & Transmitter
- e. Relay Rack
- f. Waad & Plywood

ADC Inc., c.
A&P Metal Products Mfg. Corp., b, d, e.
Accessory Products Co., Div.-Textron Inc., b.
Accurate Electronics Corp., c.
Ackerman Engravers, Inc., b.
Acromark Co., The., b.
Adept Industries Inc., b.
Aerocal Div., Aeronca Mfg. Corp., b.
Alden Products Co., e.
Allen Electric & Equipment Co., b.
Allied Engraving & Stamping Co., a.
Allied Plastics Supply Corp., a, b.
Alptec, Inc., b thru e.
Amco Engrg. Co., b, e.
American Latex Products Corp., b.
American Missile Products Co., Inc., d.
Anchor Specialty Mfg. Co. Inc., b thru f.
Aphouser Corp. of N. E., a thru e.
Artisan Metal Works Co., e.
Associated Research, Inc., b.
Bestcraft Products Co. Inc., a.
A. Biederman, Inc., b.
J. F. Bingham Mfg. Co., b.
***BRISTOL CO., THE, b.**
Milton H. Brooks & Son Engraving & Mfg. Co., Inc., b, d, e.
Brooks & Perkins, Inc., b.
Bud Radio, Inc., b thru e.
Budd Co., The, a.
Calcor Corp., e.
California Plasteck Inc., b thru e.
Canodian Radium & Uranium Corp., b.
Carborundum Co., The, a.

Chemical Micro Milling Co., b, d, e.
Comco Plastics Inc., a, b.
Conaflow Corp., d.
Conrad & Maser, e.
Control Sw. Div. Controls Co. of America, b.
Courtier Products, Div.-Model Engrg. & Mfg. Inc., b.
Croname Inc., b.
Cutter Metal Products Co., e.
Dage Television Div., Thompson Ramo Wooldridge
Inc., c.
Dahlstrom Metallic Door Co., b, d, e.
Daystrom Inc., Military Electronics Div., b.
Dejur-Amsco Corp., Electronic Sales Div., b.
Devco Engrg. Inc., b.
Donnelly Mfg. Co., b.
Durality Corp., a.
Eljey Corp., a, b, c.
Elzee Metal Products Co., Inc., b thru e.
Emerson Plastics Corp., a.
Engineered Plastics, Inc., a.
Falstrom Co., b, e.
Farwell Metal Fabricating, b thru e.
Farwest Mfg. Div., Inc., b, c.
Fischer & Porter Co., b.
Fisher & Crome, a, b, c.
Flight Support, Inc., b.
Fouch Electric Mfg. Co., Inc., b.
Franklin Fibre-Lamitex Corp., a, b.
Gates Radio Co., d, e.
Goldsmn, a, f.
Gray Mfg. Co., The, d, e.
Hagen Chemicals & Controls Inc., b.
Hamilton Watch Co., Military Products Div., b.
Hampden Mfg. Co., Inc.
Harco Labs, Inc., c.
Haskelite Mfg. Div.-Evans Products Co., f.
Hays Corp., The, b.
Hoffman Engrg. Corp., b.
A. F. Holden Co., The, b.
Ludwig Honold Mfg. Co., b.
Industrial Engrg. Corp., b.
Insulation Mfrs. Corp., a.
Jan Hardware Mfg. Co., Inc., c.
Janke & Co. Inc., b.
Kahn & Co., Inc., b.
Kellett Aircraft Corp., b.
Kellogg Switchboard & Supply Co., Communications
Div.-IT&T Corp., b, c, e.
Kerrco, b.
Kirk & Blum Mfg. Co., The, b, e.
Lear, Inc., b.
Litho-Etch Metal Name Plate Co., b.
Lone Star Plastics Co. Inc., b.
Thomas J. Long, Inc., a, b, f.
R. H. Lynch Mfg. Co., e.
Madigan Corp., b.
*MARTIN CO., THE, DENVER DIV., b, e.
Masonite Corp., a.
Mason-Neilan, b.
Meridian Metalcraft, Inc., b.
Met-L-Wood Corp., f.
Mid-West Metal Products, Inc., e.
Miller Dial & Nameplate Co., a, b, d, e.
Minneapolis-Honeywell Regulator Co., Missile Equip-
ment Div., b.
*MINNESOTA MINING & MFG. CO., a, b.
Mullenbach Div.-Electric Machinery Mfg. Co., c.
George I. Nankervis Co., b.
New England Etching Co. Inc., b, d.
Norrich Plastics Corp., a, e.
Norrich Screw Machine Products, a.
Northeast Metals Industries, Inc., b, d, e.
Olin Mathieson Chemical Corp., N. Y., f.
Owens-Corning Fiberglass Corp., a.
P. B. R. Mfg. Co., b.
Pockard-Bell Electronics Corp., f.
Panel Engrg. Corp., b.
Panob Corp., a, b, d.
Park Nameplate Co., Inc., b.
Parkway Specialties Co., b.
Penn Fibre & Specialty Co., Inc., a.
Pneumafil Corp., b, e.
Premier Metal Products Co., b, d, e.
Projects Unlimited, Inc., b.
Q-Circuits, Div.-Etching Co. of Calif.
REF Mfg. Corp., b, d, e.
Radiophone Co. Inc., b, e.
Radio City Products Co. Inc., d, e.
Edw. Renneburg & Sons Co., b, f.
Rimak Inc., b thru e.
Roberts Industries Inc., f.
Skydyne, Inc., b, f.
Skyline Electric & Mfg. Co.
E. C. Smith Mfg. Co., Inc., c.
Southwestern Industrial Electronics Co., b.
Specialty Electronics Development Corp., b.
Standard Electric Time Co., The, c.
Standard Electronics Div.-Reeves Instrument Corp.,
c, d, e.
Structural Fibers, Inc., a.
Sun Dial Corp., a thru e.

Sun Electric Corp., Aeronautical Div., b.
Switchcraft, Inc., c.
Taylor Fibre Co., a.
Technical Materiel Corp., The, c, d.
Technical Ply-Woods Sales, a, f.
Telkor, Inc., b, d.
Texstar Plastics, Div.-The Texstar Corp., a.
Thermo Electric Co., Inc., b, c.
Unilted Industries, Inc., b, d, e.
United States Instrument Corp., c, e.
United States Radium Corp., b.
Victor Tool & Mfg. Inc., a, b.
Virginia Electronics Co., Inc., c, d.
Waco Aircraft Co.
Wilmington Fibre Specialty Co., a.
Winder Aircraft Corp. of Florida, b, d, e.
Wolverine Diesel Power Co., a, b.
Wyco Metal Products, e.
Young Development Div., Hercules Powder Co., a.
Young & Rioux Woodworking Co., Inc., f.

PAPER, INSULATION

Allied Plastics Supply Corp.
Auburn Mfg. Co., The
L. J. Barwood Mfg. Co. Inc.
Bemis Bro. Bag Co.
Bestcraft Products Co. Inc.
Budd Co., The
Carborundum Co., The
Carborundum Co., Refractories Div.
Comco Plastics Inc.
Form-It Products, Inc.
Franklin Fibre-Lamitex Corp.
Insulation Mfrs. Corp.
Thomas J. Long, Inc.
*MINNESOTA MINING & MFG. CO.
Mosinee Paper Mills Co.
National Vulcanized Fibre Co.
Norrich Plastics Corp.
Norrich Screw Machine Products
Penn Fibre & Specialty Co., Inc.
Rogers Corp.
Spaulding Fibre Co., Inc.
Stone City Products Co.
Westinghouse Electric Corp., Micarta Div.
Wilmington Fibre Specialty Co.

PAPER, RECORDING

*BRISTOL CO., THE
Brush Instruments, Div.-Clevite Corp.
Eastman Kodak Co.
Leeds & Northrup Co.
Minneapolis-Honeywell, Heiland Div.
*MINNESOTA MINING & MFG. CO.
Nashua Corp., Chart Paper Div.
Paper Mfrs. Co.
Sorobon Engrg., Inc.
Texas Instruments Inc.
Westinghouse Electric Corp.

PAPERS, ELECTROSENSITIVE

Kay Electric Co.
Muirhead Instruments Inc.
Nashua Corp., Chart Paper Div.
Plastic Film Co., Inc.
Western Union Telegraph Co., The
Zippertubing Co., The

PARABOLAS, MICROWAVE

Airborne Instruments Lab., Div.-Cutter-Hammer, Inc.
Aircam Inc.
*ANDREW CORP.
Bendix Aviation Corp.
Blow-Knox Equipment, Div.-Blow-Knox Co.
Brach Mfg. Corp.
Brooks & Perkins, Inc.
Brunswick-Balke Collender Co., The, Defense Pro-
ducts Div.
Cameralflex Div., The, Federal Mfg. & Engrg. Corp.
Collins Radio Co.
Diamond Antenna & Microwave Corp.
*EQUIPMENT DIV., RAYTHEON CO.
Fairchild Aircraft & Missile Div., Fairchild Engine &
Airplane Corp.
Gabriel Co., The, Gabriel Electronics Div.
General Bronze Electronics Corp.
Houston Fearless Corp.
Lifton Industries, Maryland Div.
Narmco Mfg. Co.
Phoenix Products Co.
Portland Copper & Tank Works Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp.
TRG, Inc.
Technical Appliance Corp.
Roland Teiner Co. Inc.

PARACHUTE HARDWARE

Aerial Machine & Tool Corp.

Amatom Electronic Hardware Co. Inc.
American Machine & Foundry Co.
American Machine & Foundry Co., Government Pro-
ducts, N. Y.
Anaconda Metal Hose Div., The American Brass Co.
Wallace Barnes Div., Associated Spring Corp.
Capewell Mfg. Co.
Joe Davidson & Associates
Flight Relueling, Inc.
General Electric Co., Missile & Space Vehicle Dept.
Pa.
General Logistics Div., Aeroquip Corp.
Hardman Tool & Engrg. Co.
Irving Air Chute Co., Inc.
Walter K. Jaras Aircrafters
H. Koch & Sons
North & Judd Mfg. Co.
Northrop Corp.
Ohlson Empire Inc.
Pacific Scientific Co.
Phoenix Products Co.
Pioneer Parachute Co., Inc.
Reliance Industrial Prod., Inc.
Scott Aviation Corp.
Stanley-Judd Div.-The Stanley Works
Switlik Parachute Co., Inc.
Tranco Products, Inc.
Tucson Instrument Corp.

PARACHUTES

American Machine & Foundry Co., Government Pro-
ducts, N. Y.
Gentex Corp.
Irving Air Chute Co., Inc.
Northrop Corp.
Pioneer Parachute Co., Inc.
Raven Industries Inc.
Reliance Industrial Prod., Inc.
Switlik Parachute Co., Inc.

PATCH CORDS

ADC Inc.
Aerolite Electronics Corp.
Alden Products Co.
Amatom Electronic Hardware Co. Inc.
Barnco Engrg. Corp.
Bestcraft Products Co. Inc.
Birnback Radio Co., Inc.
Cambridge Thermionic Corp.
Dage Television Div., Thompson Ramo Wooldridge
Inc.
Electric Cords & Supply Corp.
Empire Electronics Co., Inc.
Gates Radio Co.
International Electric Industries, Inc.
Kellogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.
Kings Electronics Co., Inc.
Lab-Tronics, Inc.
MEG Products, Div.-Mandrel Industries, Inc.
Milgo Electronic Corp.
Chester Morton Electronics Corp.
Paul Nurches Co.
Pomona Electronics Co., Inc.
Projects Unlimited, Inc.
Robins Industries Corp.
Standard Electric Time Co., The
Stromberg-Carlson Div.-General Dynamics Corp.
Switchcraft, Inc.
Technical Materiel Corp., The
Telex, Inc.
Vector Electronic Co., Inc.
Virginia Electronics Co., Inc.

PATCH PANELS, ANTENNA

Aphouser Corp. of N. E.
Belmor Wheel & Machine Co., Inc.
Cameralflex Div., The, Federal Mfg. & Engrg. Corp.
Gates Radio Co.
Portland Copper & Tank Works Inc.
Technical Materiel Corp., The
Virginia Electronics Co., Inc.
Western Gear Corp.-Precision Products Div.

PEDESTALS

Ainslie Corp.
American Car & Foundry Div., ACF Industries, Inc.
American Machine & Foundry Co., Greenwch Engrg.
Div.
Antlab Inc.
Bendix Aviation Corp.
Brooks & Perkins, Inc.
California Stamping & Mfg. Co.
Capital City Mfg. Co., Inc.
Conrad & Moser
Daystrom, Inc., Military Electronics Div.
George E. Harris & Co., Inc.
Houston Fearless Corp.
Kellogg Switchboard & Supply Co., Communications
Div.-IT&T Corp.

Kirk & Blum Mfg. Co., The
Liton Industries, Maryland Div.
Northeast Metals Industries, Inc.
Portland Copper & Tank Works Inc.
Premier Metal Products Co.
Rimak, Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.

PERMEAMETERS, HIGH H

Sunshine Scientific Instrument

PHASEMETERS

Action Laboratories Inc.
Air Logistics Corp.
Bendix Aviation Corp.
Daystrom Inc., Weston Instruments Div.
Diamond Antenna & Microwave Corp.
Dytronics Co.
Electro Instruments, Inc.
Epic, Inc.
Industrial Test Equipment Co.
Muirhead Instruments Inc.
National Electronics
Nilsen Mfg. Co.
Statham Development Corp.
Technology Instrument Corp.
Theta Instrument Corp.
Westinghouse Electric Corp.

PHENOLICS

Allied Plastics Supply Corp.
Aphouser Corp. of N. E.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
Bestcraft Products Co. Inc.
Borden Chemical Co.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Comco Plastics Inc.
Crystal-X Corp.
Eastern Chemical Div., Hooker Chemical Corp.
Eljoy Corp.
Franklin Fibre-Lamitex Corp.
Garlock Packing Co.
General Electric Co., Missile & Space Vehicle Dept., Pa.
Insulation Mfrs. Corp.
Lebec Chemical Corp.
Lone Star Plastics Co. Inc.
Thomas J. Long, Inc.
Marblette Corp., The
Mica Insulator Div.-Minnesota Mining & Mfg., Co.
*MINNESOTA MINING & MFG. CO.
*MINNESOTA MINING & MFG. CO.-CHEMICAL DIV.
Monsanto Chemical Co.
National Vulcanized Fibre Co.
Norrich Plastics Corp.
Norrich Screw Machine Products
Raybestos-Manhattan, Inc.
Rezolin, Inc.
Rogers Corp.
St. Regis Paper Co., Panelyte Div.
Southwest Research Institute
Spaulding Fibre Co., Inc.
Stevens Products, Inc.
Swedlow Inc.
Synthane Corp.
Taylor Fibre Co.
Tingstal Co.
U. S. Plastic Molding Corp.
United States Plywood Corp.
Westinghouse Electric Corp., Micarta Div.
Wilmington Fibre Specialty Co.

PHOTOCELLS & PHOTOTUBES

Amperex Electronic Corp.
Blonder-Tongue Labs., Inc., Special Products Div
Clairex Corp.
Continental Electric Co.
Dejour-Amsco Corp., Electronic Sales Div.
Allen B. Du Mont Labs., Inc.
Eastman Kodak Co.
Electron-Radar Products
*ENGIS EQUIPMENT CO.
Hoffman Electronics Corp., Semiconductor Div.
Infrared Industries, Inc.
JEM Electronics Corp.
Philco Corp.-Govt. & Industrial Group
Photobell Co., Inc.
*RADIO CORP. OF AMERICA
Special Products Dept., Melpar, Inc.
Transitron Electronic Corp.
Vickers Inc., Electric Products Div.
Wells Industries Corp.

PHOTOETCHED COMPONENTS

Adept Industries Inc.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.

California Plasteck Inc.
Chemical Micro Milling Co.
Graphic Circuits, Div.-Cinch Mfg. Co.
W. & I. E. Gurley
George E. Harris & Co., Inc.
Instrument Div., The Budd Co.
Leor, Inc.
Motorola, Inc.
Patterson Maos Research, Div.-Leesona Corp.
*RADIO CORP. OF AMERICA
Special Products Dept., Melpar, Inc.
Zenith Optical Laboratory

PHOTOFLASH EQUIPMENT ELECTRONIC

American Speedlight Corp.
Anglo Corp.
Armament Div.-Universal Match Corp.
Beattie-Coleman, Inc.
Cameratlex Div., The, Federal Mfg. & Engrg. Corp.
Chadwick-Helmuth Co.
Continental Electric Co.
Davenport Mfg. Co.
Eastman Kodak Co.
Edgerton, Germeshausen & Grier, Inc.
Electro Powerpacs, Inc.
Epic, Inc.
Gordon Enterprises
Graflex Inc.
Minneapolis-Honeywell, Heiland Div.

PHOTOGRAMMETRIC EQUIPMENT

Abrams Instrument Corp.
Aeroflex Labs. Div., Aeroflex Corp.
Bar-Ray Products, Inc.
Bausch & Lomb Optical Co.
Benson-Lehner Corp.
Eastman Kodak Co.
J. W. Fecker Div., American Optical Co.
Gordon Enterprises
Librascope Div., General Precision, Inc.
Logetronics Inc.
W. L. Maxson Corp., The
Mitchell Camera Corp.
Morse Instrument Co., The
Optomechanisms Inc.
Photogrammetry, Inc.

PHOTOGRAPHIC EQUIPMENT

American Optical Co.
Beattie-Coleman, Inc.
Benson-Lehner Corp.
Charles Beseler Co.
Cameratlex Div., The Federal Mfg. & Engrg. Corp.
Davidson Optronics, Inc.
Daystrom Inc., Weston Instruments Div.
Dejour-Amsco Corp., Electronic Sales Div.
Eastman Kodak Co.
Fairchild Camera & Instrument Corp.
Fairchild Camera & Instrument Corp., Industrial Products Div.
Flight Research, Inc.
General Aniline & Film Corp., Ansco Div.
Gordon Enterprises
Graflex Inc.
Haloid Xerox Inc.
Houston Fearless Corp.
Industrial Timer Corp.
Kalart Co., Inc., The
Librascope Div., General Precision, Inc.
Logetronics Inc.
J. A. Maurer, Inc.
Metalphoto Corp.
D. B. Milliken Co.
Morse Instrument Co., The
Naz-Dar Co.
Neumade Products Corp.
Optomechanisms Inc.
Peerless Photo Products Inc.
Photogrammetry, Inc.
Traid Corp.
Viewlex, Inc.
Wollensak Optical Co.

PHOTOGRAPHIC MATERIALS, SPECTROGRAPHIC INSTRUMENTS

American Optical Co.
Eastman Kodak Co.
General Aniline & Film Corp., Ansco Div.
Gordon Enterprises
Jarrell-Ash Co.
Merix Chemical Co.
Peerless Photo Products Inc.
Wollensak Optical Co.

PHOTOGRAPHIC MATERIALS, X-RAY FILMS

Baird-Atomic, Inc.
Eastman Kodak Co.
General Aniline & Film Corp., Ansco Div.
Hammett-Mercury-Rex Div.

Jarrell-Ash Co.
Merix Chemical Co.
Philips Electronic Instruments
Tracerlab Inc.

PHOTOMETERS

American Instrument Co., Inc.
Baird-Atomic, Inc.
Daystrom Inc., Weston Instruments Div.
Edwards High Vacuum Ltd.
*ENGIS EQUIPMENT CO.
J. W. Fecker Div., American Optical Co.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
Gordon Enterprises
Instrument Development Labs., Inc.
Jarrell-Ash Co.
Northrop Corp.
Photovall Corp.
Scientific & Process Instruments Div.-Beckman Instruments, Inc.
Southwest Research Institute
Spectra Electronics Corp.
Ultrasonic Engineering Co.
W. M. Welch Scientific Div., W. M. Welch Mfg. Co.
Zoomar Inc.

PICKUP ARMS

CBS Electronics, Div.-Columbia Broadcasting System, Inc.
Demester Brothers, Inc.
*RADIO CORP. OF AMERICA
H. H. Scott, Inc.

PILOT LIGHT ASSEMBLIES

Accurate Electronics Corp.
Aerolite Electronics Corp.
American Machine & Foundry Co., Government Products, N. Y.
Aviation Textile Associates
Dialight Corp.
Eagle Electric Mfg. Co. Inc.
Federal Screw Products Inc.
Grimes Mfg. Co.
Hammett-Mercury-Rex Div.
Jan Hardware Mfg. Co., Inc.
E. F. Johnson Co.
H. R. Kirkland Co., The
Leecraft Mfg. Co., Inc.
Paraplegics Mfg. Co., Inc.
Sun Electric Corp., Aeronautical Div.
Transistor Electronics Corp.
Vemline Products Co.

PINS, TUBULAR

Amotom Electric Hardware Co. Inc.
*AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
Bead Chain Mfg. Co., The
C. E. M. Co., Inc.
Elastic Stop Nut Corp. of America
Electronic Parts Mfg. Co., Inc.
Honti Engrg. & Mfg. Co.
Walter K. Jaros Aircrafters
Keystone Electronics Corp.
Malco Mfg. Co.
Mercury Air Parts Co., Inc.
Norrich Plastics Corp.
Standard Pressed Steel Co.
Waldick Engrg. Co.

PITOT TUBES

Aerotec Industries Inc., Aircraft Equipment Div.
Chance Vought Aircraft, Inc.
Edcliff Instruments
E. Vernon Hill & Co.
Rosemount Engrg. Co.
H. W. Tuttle & Co.
United Sensor & Control Corp.
Waste King Corp., Technical Products Div.

PLASTIC

- a. Acrylic
- b. Allyls
- c. Cellulose Acetate
- d. Cellulose Acetate Butyrate
- e. Cellulose Nitrate
- c. Ceramic-Plastic Combinations
- g. Epoxy Resins
- h. Ethyl Cellulose
- i. Fiber Glass
- j. Fluorocarbons
- k. Melamine Formaldehyde
- l. Mica-Plastic Combination
- m. Phenolics
- n. Polyester
- a. Polyethylene
- p. Polystyrene
- q. Polytrifluoroethylene

r. Reinforced
s. Silicones
t. Styrene
u. Tetrafluoroethylene Resin
v. Urea Formaldehyde
w. Vinyl

Abeaso Corp., a, c, d, e, h thru k, m, a thru u, w.
Ace Plastic Co., a, c, d, h, m, o, p, t, w.
Acheson Colloids Co., Div.-Acheson Industries, Inc.
Actioncraft Products, s, w.
Acushnet Process Co., s.
Aera Gasket Corp., j, r, u.
Air Logistics Corp., r.
Allied Chemical Corp., Nitrogen Div., v.
Allied International Corp., g.
Allied Plastics Supply Corp., o, c thru u, w.
American Agile Corp., o, w.
American Feldmuehle Corp., f.
American Latex Products Corp., g, j, n, o.
American Oil & Supply Co., a.
American Printed Circuits Co., Inc., i, r, s.
American Rocket Co., g, i, n, r, u.
Anchor Plastics Co., Inc., o, c, d, h, o, p, t.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp., g, i, n, r.
Aries Laboratories, Inc., g.
Aristocraft Plastics, Inc., o, c, d, a, p, q, t, u, w.
Armstrong Products Co., g.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., g, i, j, k, m, n, o, r, s, w.
Asheville-Schoonmaker Mica Co., l.
Atkins & Merrill, Inc., i, n, r.
Atlantic Research Corp.
Auburn Mfg. Co., The, c, i, j, m, n, o, q, s, u, w.
Aviation Textile Associates, o.
L. J. Barwood Mfg. Co. Inc., a thru w.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., f.**
Carl H. Biggs Co., g.
Bjorksten Research Labs. For Industry, Inc., o thru w.
Blossom Mfg. Co. Inc., o, w.
Bo Myte Co., Inc., The, i, j, l, r, s, v.
Bonny Mfg. Corp., u.
Borden Chemical Co., o, c, d, f, g, m, a, p, v, w.
William Brand, Rex Div.-American Enka Corp., p, r, t.
Brook Molding Corp., a thru d, g, h, i, k, m thru p, r, t, v.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc., g, i, m, r.
Brunswick Balke Colfender Co., The, Defense Products Div., f, g, i, m, n, r.
Budd Co., The, l, n.
Cadillac Plastic & Chemical Co., o, c, d, g, i, j, m thru r, t, u, w.
Carborundum Co., The, f.
Carner Industries Inc., j, q.
Catalin Corp. of America, o, p, t.
Chemical Products Corp., w.
Chemplast, Inc., j, q, u.
Chicago Gasket Co., j, u.
Ciba Products Corp., g.
Cincinnati Milling Machine Co., The, r.
Clevite Ordnance, Div.-Clevite Corp., g, i, n, o, r, s.
Colonial Rubber Co., s.
Comco Plastics Inc., o, c, d, g thru k, m thru p, r thru u, w.
Connecticut Hard Rubber Co., The, j, s, u.
Continental Diamond Fibre Corp., i thru n, r, s.
Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co., g, l.
Cordo Chemical Corp., f, g, i, m, n, r, s, w.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Crystal-X Corp., a, c, d, m thru r, t, w.
C. R. Daniels, Inc., i, n, p, t.
Darcoid Co. Inc., The, s.
R. E. Darling Co., Inc., k, s.
Dayton Rubber Co., The, g, n.
Dilectrix Corp., u.
Dixon Corp., j.
John L. Dore Co., u.
Douglas Aircraft Co., Inc., r.
Dow Chemical Co., The, g, h, a, p, t, w.
Dow Corning Corp., f, s.
E. I. Du Pont de Nemours & Co. Inc., a, c, j, n, o, u, w.
Dura Plastics of N. Y., Inc., a, c, d, p.
Duracote Corp., t, r, w.
Duralith Corp., k, m, w.
Durez Plastics Div.-Hooker Chemical Corp., m, n, r.
Eastern Chemical Div., Hooker Chemical Corp., m, n, r.
Eastman Kodak Co., c, d.
Electrical Insulation Co., Inc., a, g, i, k, m thru p, s, t, w.
Eljay Corp., a, c, e, g, i, m, n, p, r, t, w.
Emeloid Co., Inc., The, o, c, d, o, p, t, w.
Emerson & Cuming, Inc., g, n, a, p.
Enfab Inc., i.
Engineered Plastics, Inc., o, c, j, m.
Epoxy Products, Inc., Div.-Joseph Waldman & Sons, g.

***EQUIPMENT DIV., RAYTHEON CO., a, f.**
Fabricon Corp., f, j, m, p, q, s, t, w.
Fabri-Form Co., The, a, c, d, j, m, a, p, w.
Fibercraft, Inc., r.
Fiberfil, Inc., i, r, t.
Fidelity Chemical Products Corp., d, h.
Finnell System, Inc., p, w.
Fisher & Chrome, m.
Flightex Fabrics Inc., c, d, e.
Fluorocarbon Co., The, j, q, u.
Fluorulon Labs., Inc., q, r, u.
Food Machinery & Chemical Corp.-Chemical & Plastics Div., n.
Food Machinery & Chemical Corp.-Dapon Dept., n.
Food Machinery & Chemical Corp.-Epoxy Dept., g.
Food Machinery & Chemical Corp.-Ordnance Div., r.
Formica Corp., g, k, m, s, v.
Franklin Fibre-Lamitex Corp., o thru e, g, h, i, k, m thru w.
Furane Plastics, Inc., f, g, i, v.
Garlock Packing Co., a, c, f, g, j, m, a thru w.
Garlock Packing Co., The-Electronic Products, a, c, d, h, j, k, m, o, p, q, s, t, u, w.
General Electric Co., Missile & Space Vehicle Dept., Pa.
General Plastics Corp., q, u.
General Products Corp., k, m, s.
B. F. Goodrich Aviation Products, w.
B. F. Goodrich Chemical Co., w.
B. F. Goodrich Industrial Products Co., w.
Goodyear Aircraft Corp., o, g, i, m, r, s.
Grant-Lehr Corp., g, i, n, r.
Guided Missile Div., The Firestone Tire & Rubber Co., w.
Halogen Insulator & Seal Corp., i, j, q, u.
Hastings Plastics, Inc., f thru i, m, n, p, t.
Hays Mfg. Co., n, r.
Hell Process Equipment Corp., g, i, n, a, r, w.
Hamalite Corp., The, b, g, n, r.
Honeycomb Co. of America, c, g, n, r.
Honti Engrg. & Mfg. Co., n.
Illumitronic Engrg. Co., a, o, a, p, q, w.
Insulation Mfrs. Corp., c, g, i thru n, r, s, w.
Jan Hardware Mfg. Co., Inc., a, c, d.
Jennings Machine Corp., j, q, u.
Jaclyn Mfg. Co., The, f, g, j, m, o, q, r, s, u.
Johns-Manville Sales Corp., i, r.
Kelsey-Hayes Co., m.
Kerrco, a, c, d, i, k, n, a, p, r, t.
Kidde Aero-Space Div., Walter Kidde & Co., Inc., g, i, r.
Kirchhill Rubber Co., a, s, w.
Kish Industries, Inc., g, m, n.
Lam-Ply Inc., g.
Lamtex Industries Inc., i, r.
Lebec Chemical Corp., g, m, v.
Lone Star Plastics Co. Inc., a, c, d, g, h, i, l thru p, r, s, t.
Thomas J. Long, Inc., a, c, d, g, i, j, k, m thru q, s, t, w.
Luzern Lamitales, Inc., i.
Luzerne Rubber Co., w.
Marlette Corp., The, g, m, r.
Marbon Chemical Div.-Borg-Warner Corp.
***MARTIN CO., THE, DENVER DIV., r, s.**
McMillan Companies, The, i, l, r.
Mechanical Rubber Products Co., n, o, s, w.
J. E. Menaugh Co., u.
Merix Chemical Co., s.
Mesa Plastics Co., b, i, r.
Mica Fabricating Co., k thru p.
Mica Insulator Div.-Minnesota Mining & Mfg. Co., g, i, l, m, n, r, s, u.
***MINNESOTA MINING & MFG. CO., g, i, j, l, q, r, s.**
***MINNESOTA MINING & MFG. CO.-CHEMICAL DIV., g, i, m.**
Mitchell Rand Mfg. Corp., g, l.
Molded Fiber Glass Body Co., i, n.
Molding Corp. of America, i thru m, q, s.
Monsanto Chemical Co., c, k, m, a, p, t, v, w.
Mycalex Corp. of America, f, l.
NUMEC-Nuclear Materials & Equipment Corp., f.
Narmco Mfg. Co., r.
National Vulcanized Fibre Co., i, k, m, n, r, s.
Natvar Corp., a, p, w.
Naugatuck Chemical Div.-U.S. Rubber Co., n, r, w.
Nopco Chemical Co., Plastics Div.
Norrich Plastics Corp., a thru f, i, j, m thru p.
Norrich Screw Machine Products
Northern Plastics Corp., g, k, m, r.
Nureco, Inc., g, n.
Olin Mathieson Chemical Corp., Winchester-Western Div., i.
Olympic Plastics Co., Inc., a, c, d, f thru p, r, s, t, v.
Owens-Corning Fiberglas Corp., g, i, n, r.
Paral Engrg. Corp., a, g, j, o, p, t, w.
Parabon, Inc., i.
Parsons Corp., Special Products Div.
Penn Fibre & Specialty Co., Inc., c, m, n, r.
Permatex Co., Inc., g.
Perry Plastics, Inc., b, c, d, g, h, k, m, p, r, t, v.

Piasecki Aircraft Corp., g, i, r.
Pittsburgh Corning Corp., m, n.
Plastic Age Sales, Inc., o, c, d, f, g, i, k, m, n, p, r, s, t, v.
Plastics Distributor of New England, a, i, r.
Polymer Corp., The, j, p.
REF Mfg. Corp., i, r.
Raven Industries Inc., s.
Raybestos-Manhattan, Inc., j, m, q, r, u.
Reeves Brothers, Inc., o, w.
Reichhold Chemicals, Inc., g, k, m, n, v.
Ren Plastics, Inc., g.
Resistoflox Corp., i, j, q, r, u.
Reynolds Metals Co., a, w.
Reynolds Metals Co., Plastics Div., w.
Rezolin, Inc., g, m.
Rogers Corp., a, f, i, j, k, m, r.
Roovers-Latsch Corp., w.
Milton Ross Metals Co., The, g.
Rubbercraft Corp. of California, s.
Russell Mfg. Co., m.
St. Regis Paper Co., Panelyte Div., m, a, s.
Sanford Plastics Corp., j, q, t.
Ray A. Schorper & Co., a, e, m, o, p, s, t, w.
Seaman Products, Div.-Seaman Paper Co., i, m, r, w.
W. S. Shamban & Co., g, n, q, u.
Shell Chemical Co., Plastics & Resins Div., g.
Sierracorn Corp., The, n.
Silicone Products Dept., General Electric Co., Dept. c, s.
Silicones Div.-Union Carbide Corp., r.
Skydyne, Inc., g.
Smooth-on Mfg. Co.
Southern Plastics Co., a, c, d, h, o, p, w.
Southwest Research Institute, a.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co., j, u.
Spalding Fibre Co., Inc., g, k, m, r.
Special Products Dept., Melpar Inc., g, n.
Stahlin Bros. Inc., i, m, n, r, w.
Stauffer Chemical Co.
Stevens Products, Inc., g, i, k, m, n, s.
Structural Fibers, Inc., f, r.
Swan Rubber Co., w.
Swedlow Inc., a, g, i, m, n, r, s.
Synthane Corp., g, k, m, r, s.
Tappo Group, Thompson Ramo Wooldridge Inc., r.
Taylor Fibre Co., g, k, m, r, s.
Tetrafluor, Inc., j, q, u.
Thermoid Div.-H. K. Porter Co., Inc., o, s, w.
H. I. Thompson Fibre Glass Co., i, r.
Thompson & Co., w.
Thompson Ramo Wooldridge Inc., r.
Thor Chemicals, Inc., g, m, n.
E. F. Timme & Son Inc., i, w.
Tingstol Co., g, m.
Topper Mfg. Co., Inc., b, f, g, j, p, s, u.
U B S Chemical Co., Div.-A. E. Staley Mfg. Co., a, p.
Union Asbestos & Rubber Co., i.
Union Carbide Plastics Co., g, m, a, p, w.
U. S. Indsl. Chemicals Co., Div.-Nal Distillers & Chemical Corp., a.
United States Chemical Milling Corp., i, r.
United States Plywood Corp., o, g, m, w.
United States Rubber Co., n, r, w.
United Supply Co., o, c, m, a.
Universal Moulded Products Corp., r.
Universal Unlimited, Inc., a, c, d, e, m, a, p, t, w.
Varflex Corp., w.
Waterbury Companies, Inc., a, c, d, g, h, k thru p, t, v, w.
Western Coating Co., d, h, w.
Western Felt Works & Acadia Synthetic Products Div., c, d, h, a, p, s, t, w.
Westinghouse Electric Corp., i, l, r.
Westinghouse Electric Corp., Micarta Div., f, g, i, k thru o, r, s.
Wilmington Fibre Specialty Co., m.
Winder Aircraft Corp. of Florida, f.
X-Pando Corp., g.
Yardley Plastics Co., a, c, d, h, o, p, t, w.
Young Development Div., Hercules Powder Co., r.
Zippertubing Co., The, i, j, a, w.

PLASTIC, ELECTRICALLY CONDUCTIVE

American Latex Products Corp.
American Printed Circuits Co., Inc.
Carl H. Biggs Co.
Bjorksten Research Labs. For Industry, Inc.
Bonny Mfg. Corp.
Connecticut Hard Rubber Co., The
Cordo Chemical Corp.
Dayton Aircraft Products, Inc.
Duracote Corp.
Emerson & Cuming, Inc.
Fabricon Corp.
Farwest Mfg. Div., Inc.
Franklin Fibre-Lamitex Corp.
General American Transportation Corp.
General Plastics Corp.
Hastings Plastics, Inc.

Markite Corp.
McMillan Companies, The
Merix Chemical Co.
Mesa Plastics Co.
Metaplast Co., Inc.
Micro-Circuits Co.
***MINNESOTA MINING & MFG. CO.**
Olympic Plastics Co., Inc.
Panel Engrg. Corp.
Plastic Age Sales, Inc.
Plastic Film Co., Inc.
Rogers Corp.
Sierracin Corp., The
Structural Fibers, Inc.
Tetrafluor, Inc.
Topper Mfg. Co., Inc.
U. S. Plastic Molding Corp.
Virginia Plak Co.
Westinghouse Electric Corp., Micarta Div.
Zipperlubing Co., The

PLASTICS FABRICATORS & FINISHERS

ABA Tool & Die Co.
Abestos Corp.
Ace Plastic Co.
Adept Industries Inc.
Air Logistics Corp.
Allied Engraving & Stamping Co.
Allied Plastics Supply Corp.
American Aerophysics Corp.
American Agile Corp.
American Insulator Corp.
American Latex Products Corp.
American Research & Mfg. Corp.
Armstrong Cork Co.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
Atkins & Merrill, Inc.
Auburn Mfg. Co., The
L. J. Barwood Mfg. Co. Inc.
Bemis Bro. Bag Co.
Bestcraft Products Co. Inc.
Blossam Mfg. Co. Inc.
Bonny Mfg. Corp.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Brunswick Balke Collender Co., The, Defense Products Div.
Budd Co., The
Butler Mfg. Co.
California Plastek Inc.
Chemplast, Inc.
Clevite Ordnance, Div.-Clevite Corp.
Collectron Corp.
Colonial Aircraft Corp.
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Continental-Emco Co., Div.-The Youngstown Sheet & Tube Co.
Cordo Chemical Corp.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Courtier Products, Div.-Model Engrg. & Mfg., Inc.
Crystal-X Corp.
Daimo Victor Co., Div.-Textron, Inc.
Dayton Aircraft Products, Inc.
Doak Aircraft Co., Inc.
Douglas Aircraft Co., Inc.
Driver-Harris Co.
Dura Plastics of N. Y., Inc.
Duralith Corp.
Electrical Insulation Co., Inc.
Eljay Corp.
Emerson Plastics Corp.
Emmco Plastics Fabricators
Erie Resistor Corp.
Fobricon Corp.
Fabri-Form Co., The
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Farwest Mfg. Div., Inc.
Fibercraft, Inc.
Fisher & Crome
Fluorocarbon Co., The
Fluorulon Labs., Inc.
Food Machinery & Chemical Corp., Ordnance Div.
Formica Corp.
Franklin Fibre-Lamitex Corp.
Garlock Packing Co., The-Electronic Products
General American Transportation Corp.
General Plastics Corp.
Globe Electrical Mfg. Co.
Grant-Lehr Corp.
Grimes Mfg. Co.
Hammett-Mercury-Rex Div
Hampden Mfg. Co., Inc.
Heil Process Equipment Corp.
Homalite Corp., The
***HORKEY-MOORE ASSOCIATES-SUB. HOUSTON FEARLESS CORP.**
Walter J. Hyatt Co., The

Hydro Molding Co. Inc.
Insulation Mfrs. Corp.
Jaclin Mfg. Co., The
Jahns-Manville Sales Corp.
Keil engr. Products Inc.
Kelsey-Hayes Co.
Keystone Electronics Corp.
H. Koch & Sons
Kurz-Kosch, Inc.
Lamtex Industries Inc.
Lone Star Plastics Co. Inc.
Thomas J. Long, Inc.
Lunn Laminates, Inc.
Luzerne Rubber Co.
M & O Plastic Products
Magee-Brollo & Associates
Mica Fabricating Co.
Midwest Molding & Mfg. Co.
***MINNESOTA MINING & MFG. CO.**
Molding Corp. of America
J. J. Monaghan Co., Inc.
C. A. Marghen Co.
Narmco Mfg. Co.
National Vulcanized Fibre Co.
New England Tape Co., Div.-United-Carr Fastener Corp.
Northern Plastics Corp.
Northrop Corp.
Olympic Plastics Co., Inc.
Ponduit Corp.
Panel Engrg. Corp.
Parsons Corp., Special Products Div.
Penn Fibre & Specialty Co., Inc.
Piasceki Aircraft Corp.
Plastic Age Sales, Inc.
Plastics Distributor of New England
Polymer Corp., The
Prewitt Aircraft Co.
Printloid Inc.
REF Mfg. Corp.
Raven Industries Inc.
Raybestos-Manhattan, Inc.
St. Regis Paper Co., Panelyte Div.
Sanford Plastics Corp.
Ray A. Scharer & Co.
D. A. Schultz Co.
Scientific-Atlanta, Inc.
H. M. Scott Co., The
Seaman Products, Div.-Seaman Paper Co.
W. S. Shamban & Co.
Sillicocks-Miller Co.
Spaulding Fibre Co., Inc.
Stahlin Bros. Inc.
Standard Molding Corp.
Stevens Products, Inc.
Structural Fibers, Inc.
Swedlow Inc.
Synthane Corp.
Temco Aircraft Corp.
Tetrafluor, Inc.
Textstar Plastics, Div.-The Textstar Corp.
H. I. Thompson Fiber Glass Co.
Tingstol Co.
Topper Mfg. Co., Inc.
Tri-Point Plastics Inc.
Tucson Instrument Corp.
Turco Products, Inc.
Uni-Flex Mfg. & Engrg. Inc.
U. S. Plastic Molding Corp.
United States Chemical Milling Corp.
United States Plywood Corp.
Universal Moulded Products Corp.
Universal Unlimited, Inc.
Virginia Plak Co.
Western Coil & Electrical Co.
Westinghouse Electric Corp.
Westinghouse Electric Corp., Micarta Div.
Winder Aircraft Corp. of Florida
Wolverine Diesel Power Co.
Yardley Plastics Co.
Young Development Div., Hercules Powder Co.
Zipperlubing Co., The

PLASTICS LAMINATED

Abestos Corp.
Actioncraft Products
Adept Industries Inc.
Aerogel-General Corp.
Air Logistics Corp.
Allied Engraving & Stamping Co.
Allied Plastics Supply Corp.
American Aerophysics Corp.
American Brake Shoe Co.
American Insulator Corp.
American Latex Products Corp.
American Rocket Co.
Aphouser Corp. of N. E.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings Inc.

Atlantic Research Corp.
L. J. Barwood Mfg. Co. Inc.
Bjorksten Research Labs. For Industry, Inc.
Blossom Mfg. Co. Inc.
Bo Myte Co., Inc., The
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Brunswick Balke Collender Co., The, Defense Products Div.
Budd Co., The
Clevite Ordnance, Div.-Clevite Corp.
Colonial Aircraft Corp.
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Cordo Chemical Corp.
Custom Tool & Mfg. Co.
Daimo Victor Co., Div.-Textron, Inc.
Dayton Aircraft Products, Inc.
Doak Aircraft Co., Inc.
Douglas Aircraft Co., Inc.
Duralith Corp.
Electrical Insulation Co., Inc.
Eljay Corp.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Emmco Plastics Fabricators
Fobricon Corp.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Farley & Loetscher Mfg. Co., Plastics Div.
Farwest Mfg. Div., Inc.
Fibercraft, Inc.
Fisher & Crome
Fluorulon Labs., Inc.
Food Machinery & Chemical Corp., Epoxy Dept.
Food Machinery & Chemical Corp., Ordnance Div.
Formica Corp.
Franklin Fibre-Lamitex Corp.
General American Transportation Corp.
General Plastics Corp.
B. F. Goodrich Aviation Products
Grant-Lehr Corp.
Harco Containers Div.-Harbor Boat Building Co.
Haskelite Mfg. Div.-Evans Products Co.
Heil Process Equipment Corp.
Homalite Corp., The
Honeycomb Co. of America, Inc.
***HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.**
Insulation Mfrs. Corp.
Jaclin Mfg. Co., The
Jahns-Manville Sales Corp.
Kerrco
H. Koch & Sons
Lam-Ply, Inc.
Lamtex Industries Inc.
Lone Star Plastics Co. Inc.
Thomas J. Long, Inc.
Lunn Laminates, Inc.
M & O Plastic Products
Magee-Brollo & Associates
Mica Fabricating Co.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
***MINNESOTA MINING & MFG. CO.**
Morningsstar-Paisley, Inc.
Narmco Mfg. Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Norrish Plastics Corp.
Norrish Screw Machine Products
Norsid Mfg. Co., Inc., The
Northern Plastics Corp.
Olin Mathieson Chemical Corp., N. Y.
Olympic Plastics Co., Inc.
Owens-Corning Fiberglass Corp.
Panel Engrg. Corp.
Parabam, Inc.
Parsons Corp., Special Products Div.
Penn Fibre & Specialty Co., Inc.
Piasceki Aircraft Corp.
Plastic Age Sales, Inc.
Prewitt Aircraft Co.
Printloid Inc.
REF Mfg. Corp.
Raybestos-Manhattan, Inc.
Reeves Brothers, Inc.
Reynolds Metals Co.
Reynolds Metals Co., Plastics Div.
Rogers Corp.
Roovers-Loetsch Corp.
St. Regis Paper Co., Panelyte Div.
D. A. Schultz Co.
Scientific-Atlanta, Inc.
H. M. Scott Co., The
The Seaman Products, Div.-Seaman Paper Co.
W. S. Shamban & Co.
Sierracin Corp., The
Sillicocks-Miller Co.
Skydyne, Inc.
Spaulding Fibre Co., Inc.
Stevens Products, Inc.
Structural Fibers, Inc.

Swedlow Inc.
Synthane Corp.
Taylor Fibre Co.
Temco Aircraft Corp.
Tetrafluor, Inc.
Textar Plastics, Div.-The Textar Corp.
H. I. Thompson Fiber Glass Co.
E. F. Timme & Son Inc.
Tingstrol Co.
Turco Products, Inc.
United Mineral & Chemical Corp.
United States Plywood Corp.
United Moulded Products Corp.
Universal Unlimited, Inc.
Virginia Plak Co.
Westinghouse Electric Corp.
Westinghouse Electric Corp., Micarta Div.
Wolverine Diesel Power Co.
Young Development Div., Hercules Powder Co.

PLATES, INSTRUCTION

Acromark Co., The
Adept Industries Inc.
Allied Engraving & Stamping Co.
Allied Plastics Supply Corp.
W. H. Brady Co.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
California Plasteck Inc.
Canadian Radium & Uranium Corp.
Chemical Micro Milling Co.
Croname Inc.
Duralith Corp.
Eljay Corp.
Emeloid Co., Inc., The
Jas. H. Matthews & Co.
*MINNESOTA MINING & MFG. CO.
New England Etching Co., Inc.
Park Nameplate Co., Inc.
United States Radium Corp.
Virginia Plak Co.

PLATES, METAL OR PLASTIC

Acromark Co., The
Adam Metal Supply Inc.
Adept Industries Inc.
Allied Engraving & Stamping Co.
Allied Plastics Supply Corp.
Aluminum Co. of America
American Latex Products Corp.
Apothouse Corp. of N. E.
Beacon Steel Corp.
Beemer Engrg. Co.
Belmar Wheel & Machine Co., Inc.
Bonny Mfg. Corp.
W. H. Brady Co.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Brooks & Perkins, Inc.
California Plasteck Inc.
G. O. Carlson, Inc.
Colorado Fuel & Iron Corp., The
Conrad & Moser
Croname Inc.
Crucible Steel Co. of America
Crystal-X Corp.
Division Lead Co.
Dow Chemical Co., The
Dura Plastics of N. Y., Inc.
Duralith Corp.
Eljay Corp.
Elzee Metal Products Co., Inc.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Erie Resistor Corp.
Falstrom Co.
Fisher & Crome
Franklin Fibre-Lamitex Corp.
Henry & Miller Industries, Inc.
Huntington Alloy Products Div.-The International Nickel Co., Inc.
Kaiser Aluminum & Chemical Sales, Inc.
Kerco
Thomas J. Long, Inc.
Lukens Steel Co.
Mico Insulator Div.-Minnesota Mining & Mfg. Co.
Mico Instrument Co.
*MINNESOTA MINING & MFG. CO.
New England Etching Co., Inc.
Northern Plastics Corp.
Opelika Welding, Machine & Supply Inc.
Panel Engrg. Corp.
Park Nameplate Co., Inc.
Parsons Corp., Special Products Div.
Plastic Age Sales, Inc.
Pneumafil Corp.
Polymer Corp., The
Printloid Inc.
Edw. Renneburg & Sons Co.
Reynolds Metals Co.
Rimok, Inc.
Joseph T. Ryerson & Son, Inc.

Sanford Plastics Corp.
Structural Fibers, Inc.
Sylvania-Corning Nuclear Corp.
Synthane Corp.
Texas Instruments Inc.
Unified Industries, Inc.
United Aircraft Products, Inc.
United Mineral & Chemical Corp.
United States Radium Corp.
United States Steel Corp.
Utility Brass & Copper Corp.
Victor Tool & Mfg., Inc.
Virginia Plak Co.
Waterbury Companies, Inc.
Westinghouse Electric Corp.
Wrought Washer Mfg. Co.

PLATES, PLASTIC LIGHTING

Adept Industries Inc.
Allied Engraving & Stamping Co.
Allied Plastics Supply Corp.
W. H. Brady Co.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Cable Electric Products Inc.
California Plasteck Inc.
Canadian Radium & Uranium Corp.
Courter Products, Div.-Model Engrg. & Mfg., Inc.
Duralith Corp.
Eljay Corp.
Emeloid Co., Inc., The
Fisher & Crome
Franklin Fibre-Lamitex Corp.
Thomas J. Long, Inc.
Northern Plastics Corp.
Owens-Corning Fiberglass Corp.
Panel Engrg. Corp.
Plastic Age Sales, Inc.
Tucson Instrument Corp.
United States Radium Corp.
Universal Unlimited, Inc.
Waterbury Companies, Inc.

PLATFORMS, FIRING

Beacon Steel Corp.
Continental-Emsco Co., Div.-The Youngstown Sheet & Tube Co.
McCathron Boiler Works Co., Inc.
McGregor Mfg. Corp.
Edw. Renneburg & Sons Co.

PLATFORMS, STABLE

Associated Co., Inc.
Beacon Steel Corp.
Bendix Aviation Corp.
Bendix Corp., The, Eclipse-Pioneer Div.
General Electric Co., Light Military Electronics Dept.
Hydro-Power Corp.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
*KEARFOTT DIV., GENERAL PRECISION, INC.
Kelleit Aircraft Corp.
Lear, Inc.
Norden Div., United Aircraft Corp.
Northrop Corp.
Opelika Welding, Machine & Supply Inc.
Richard Philip Co.
Raven Industries Inc.
South River Metal Products Co., Inc.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Westinghouse Electric Corp.

PLATING, PRECIOUS METAL

A & E Metal Specialties Inc.
Allied Research & Engrg., Div.-Allied Record Mfg. Co.
Alloys Unlimited Inc.
Arnold Corp.
Bart Mfg. Corp.
J. Bishop & Co., Platinum Works
Bram Metallurgical Chemical Co.
Brooks & Perkins, Inc.
Capital City Mfg. Co., Inc.
Chromium Corp. of America
Cohan Epner Co. Inc.
Sigmund Cohn Corp.
Deringer Metallurgical Corp.
General American Transportation Corp.
Hamilton Watch Co.-Industrial Div.
Harper-Leader, Inc.
Henry & Miller Industries, Inc.
Kanarr Corp.
La Pointe Industries Inc.
Lear, Inc.
Lycoming Div., Avco Corp.
Lytle Corp.
M-W Labs, Inc.
Michigan Chrome & Chemical Co.
Molded Insulation Co.
NUMEC-Nuclear Materials & Equipment Corp.
Optical Coating Lab., Inc.

Precision Electroplating Co.
Savage-Rowe Plating Co., Inc.
Steel Improvement & Forge, The
Technic Inc.
Texas Instruments Inc.
Thermionic Products Co.
United Plating Works, Inc.
Veeco Vacuum Corp.

PLATING, TIN ZINC

A & E Metal Specialties Inc.
Brooks & Perkins, Inc.
Capital City Mfg. Co., Inc.
Cohan Epner Co. Inc.
Henry & Miller Industries, Inc.
Lear, Inc.
Lytle Corp.
Metal & Thermit Corp.
Michigan Chrome & Chemical Co.
*MINNESOTA MINING & MFG. CO.
Norris-Thermador Corp.
Savage-Rowe Plating Co., Inc.
Ultra Electroforming & Mfg. Co.
United Plating Works, Inc.

PLIERS

Aircraft Tools, Inc.
Ampco Metal, Inc.
Billings & Spencer Co., The
Detroit Stamping Co.
Handicraft Tools, Inc., Div.-X-Acto, Inc.
Hunter Tool Co.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Mathias Klein & Sons, Inc.
Owatonna Tool Co. Precision Hydraulic Div.
Proto Tool Co.
Snap-On Tools Corp.
Vaco Products Co.
Vlcchek Tool Co.

PLOTTERS, X-Y

Aeronca Mfg. Corp.-Aerospace Div.
Antlab Inc.
Benson-Lehner Corp.
*BRISTOL CO., THE
Broadview Research Corp.
De Havilland Aircraft of Canada, Ltd., Special Products Div.
Electro Instruments, Inc.
Fenske, Fedrick & Miller Inc.
Gilmore Industries, Inc.
Gordon Enterprises
Hewlett-Packard Co.
Lear, Inc.
Leeds & Northrup Co.
Libroscope Div., General Precision, Inc.
Litton Industries, Maryland Div.
Loral Electronics Corp.
Madigan Corp.
Milgo Electronic Corp.
Motorola, Inc.
Optical Gaging Products, Inc.
Optomechanisms Inc.
Radiation, Inc.
Skiatron Electronics & Television Corp.
Special Products Dept., Melpar, Inc.
Tally Register Corp.
Universal Unlimited, Inc.
Westgate Lab., Inc.

PLUG-IN-CIRCUIT UNITS

ACDC Electronics, Inc.
ACF Electronics Div., ACF Industries Inc.
Accurate Electronics Corp.
Adage, Inc.
Airflyte Electronics Co.
Alwac Computer, Div.-El-Tronics Inc.
American Research & Mfg. Corp.
Arthur Ansley Mfg. Co.
Becker Electronics Mfg. Corp.
Bendix Aviation Corp., Cincinnati Div.
Broadview Research Corp.
Burr-Brown Research Corp.
Centralab Div., Globe-Union, Inc.
Chalco Engrg. Corp.
Computer Control Co., Inc.
Computer Control Co., Inc., Western Div.
Dalmo Victor Co., Div.-Textron, Inc.
Daystrom, Inc., Military Electronics Div.
Delco Radio Div.-General Motors Corp.
Du Kane Corp.
Ferrotron Electronics Co., Inc.
Flight Support, Inc.
Gardie Mfg. Co.
General Electric Co., Heavy Military Electronics Dept.
General Mills, Inc.
Good Electronic Corp.

ITT Federal Div., International Telephone & Telegraph Corp.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 La Pointe Industries Inc.
 Lear, Inc.
 Lytle Corp.
 P. R. Mallory & Co. Inc.
 Micro Gee Products, Inc.
 James Millen Mfg. Co. Inc.
 Motorola, Inc.
 National Co., Inc.
 Northrop Corp.
 Nugent Electronics Co., Inc.
 Paul Nurches Co.
 Packard Bell Computer Corp.
 Pasecki Aircraft Corp.
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
***RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.**
 Rese Engrg., Inc.
 Special Products Dept., Melpar, Inc.
 Stewart-Warner Electronics Div.
 Technical Electronics Co. Div.-Consolidated Electronics Industries
 Telex Inc.
 Topper Mfg. Co., Inc.
 Vector Electronic Co., Inc.
 Virginia Electronics Co., Inc.
 Walkirt Co.
 Westinghouse Electric Corp.

PLUGS

- a. Computer Board
- b. Connector
- c. Dehydrator
- d. Expansion
- e. Metallic
- f. Non-Metallic
- g. Printed Circuit
- h. Telephone
- i. Terminal

ADC Inc., h.
 Accurate Electronics Corp., a, b, g, h, i.
 All Specs Corp., b, c, i.
 Amatonic Electronic Hardware Co. Inc., h.
 American Brass Co., The., a, b, e, g, h, i.
 American Standard Products, Inc., e.
 Arnel Electronics, Inc., b, g.
 Arnay Aircraft Associates, Inc., e.
 Arnoux Corp., b, g.
 Bead Châin Mfg. Co., The, h, i.
 Belmar Wheel & Machine Co., Inc., e, i.
 Bendix Aviation Corp., b.
 Birnbach Radio Co., Inc., b, h, i.
 Burndy Corp., Omaton Div., b, g, i.
 Cable Electric Products Inc., b, h, i.
 Cal Connector Co., a, b, h, i.
 Cambridge Thermionic Corp., a, b, g, i.
 Cameralex Div., The, Federal Mfg. & Engrg. Corp., e.
 Clover Industries, Inc., e, f.
 Cole Electric Co., a, b.
 C. R. Daniels, Inc., f.
 Dejur-Amsco Corp., Electronic Sales Div., b.
 Deutsch Co., The, Electronic Components Div., b.
 Diare, Inc., c.
 Dumont Engrg. Co., e.
 Eagle Electric Mfg. Co. Inc., b.
 Hugh H. Eby Co., g.
 Emerson Plastics Corp., f.
 Franklin Fibre-Lamitex Corp., f.
 G-C Electronics Co., h.
 Garde Mfg. Co., g, i.
 Goe Engrg. Co., i.
 Good Electronic Corp., g.
 Graphic Circuits, Div.-Cinch Mfg. Co., g.
 Harco Labs., Inc., b, e.
 George E. Harris & Co., Inc., g.
 Hermetic Seal Corp., b, f, i.
 Honh Engrg. & Mfg. Co., e, i.
 Indsl. Prod.-Danbury Knudsen Div.-Amphenol-Borg Electronics Corp., b.
 International Electric Industries, Inc., b.
 Interstate Electronics Inc., b.
 Javex Electronics, b, i.
 Joclin Mfg. Co., The, b.
 E. F. Johnson Co., b, g.
 Howard B. Jones Div.-Cinch Mfg. Corp., b.
 Joy Mfg. Co., b.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., h, i.
 Kickhaefer Mfg. Co., d.
 Kings Electronics Co., Inc., b, g, h.
 Kulka Electric Corp., b, g, i.
 Lab-Tronics, Inc., b, f, h, i.
 Lear, Inc., a, b, c, g.
 Lee Co., The, d.
 Leviton Mfg. Co., Inc., b, i.
 Liquidometer Corp., The, b.

Thomas J. Long, Inc., f.
 Madigan Corp., a, g.
 Malco Mfg. Co., a, b, g, i.
 P. R. Mallory & Co. Inc., b, e, h.
 Microdot Inc., b, g, i.
 Moeller Mfg. Co. Inc., d.
 Molded Insulation Co., b, h.
 Molding Corp. of America, b, i.
 Norrich Plastics Corp., b, e, h, i.
 Norrich Screw Machine Products, h, i.
 Paul Nurches Co., a, b, i.
 Packard-Bell Electronics Corp., g.
 Pyle-National Co., The, b.
 Q-Circuits, Div.-Etching Co. of Calif., g.
***RADIO CORP. OF AMERICA, a, g.**
 Remler Co., b.
 Roberts Toledo Rubber Co., The, f.
 Rogers Corp.,
 Milton Ross Metals Co., The, b, g, i.
 Royal Electric Corp., b.
 Rye Sound Corp., h, i.
 Sealectro Corp., b.
 Seeger-Williams, Inc.
 Skytronics, Inc., b.
 Specialty Electronics Development Corp., b, h.
 Herman D. Steel Co., b, i.
 Stromberg-Carlson Div.-General Dynamics Corp., h.
 Superior Electric Co., The, b.
 Switchcraft, Inc., h.
 Technical Development Co., e.
 Telechrome Mfg. Corp., b.
 Telex, Inc.
 Tingstol Co., g.
 United States Instrument Corp., h.
 Vector Electronic Co., Inc., b, g.
 Viking Industries Inc., b, g.
 Wells Industries Corp., c.
 Whitehead Stamping Co., d.
 Wrought Washer Mfg. Co., d.

PLYWOOD

Commercial Services Co., Inc.
 Curtis Companies, Inc.
 Haskelite Mfg. Div.-Evans Products Co.
 Packard-Bell Electronics Corp.
 Technical Ply-Woods Sales
 United States Plywood Corp.
 Young & Rioux Woodworking Co., Inc.

PLYWOOD & METAL, BONDED

Albano Co. Inc.
 Curtis Companies, Inc.
 Goldsman
 Haskelite Mfg. Div.-Evans Products Co.
 Mel-L-Wood Corp.
 Nuclear Development Corp. of America
 Parsons Corp., Special Products Div.
 REF Mfg. Corp.
 Ray Proof Corp.
 Skydnye, Inc.
 Technical Ply-Woods Sales
 United States Plywood Corp.

PNEUMATIC CONTROLS & SYSTEMS

Accessory Controls & Equipment Corp.
 Accessory Products Co., Div.-Textron Inc.
 Adel Precision Products of Calif., Div.-General Metals Corp.
 Aircraft Accessory Turbine Dept.-General Electric Co.
 Alco Valve Co.
 American Instrument Co., Inc.
 American Machine & Foundry Co., Government Products, N. Y.
 Anderson, Greenwood & Co.
 Applied Dynamics Corp.
 Arkwin Industries, Inc.
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
 Associated Testing Labs., Inc.
 Barber-Colman Co.
***BENDIX-PACIFIC DIV., BENDIX AVIATION CORP.**
 Bendix Utica Div., Bendix Aviation Corp.
 Bernco Engrg. Corp.
***BRISTOL CO., THE**
 Bruning Co., The
 Conoflow Corp.
 Consolidated Controls Corp.
 Consolidated Diesel Electric Corp.
 Cornelius Co., The, Aero Div.
 Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
 George W. Dahl Co., Inc.
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Dynamic Controls Corp.
 Edwards High Vacuum Ltd.
 Electrical Inc.
 Flight Refueling, Inc.
 Futurecraft Corp.

General Electric Co., Apparatus Sales Div.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 B. H. Hadley, Inc.
 Hagan Chemicals & Controls Inc.
 Hamilton Standard, Div.-United Aircraft Corp.
 Haskel Engrg. & Supply Co.
***HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.**
 Hughes Tool Co., Aircraft Div.
 Walter J. Hyatt Co., The
 Hydra-Power Corp.
 Janitrol Aircraft Div.-Midland-Ross Corp.
 Kahn & Co., Inc.
 Kemp Aero Products
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Kieley & Mueller, Inc.
 Langley Corp.
 Lear, Inc.
 Leeds & Northrup Co.
 Mason-Neilan
 Mead Specialties Co., Inc.
 Meletron Corp.
 National Instrument Laboratories, Inc.
 National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc.
 Northrop Corp.
 OPW-Jordan
 Ozone Metal Products Corp.
 PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y.
 Parker-Hannifin Corp.
 Pegasus Labs., Inc.
 Pneu-Hydro Valve Corp.
 Powers Regulator Co., The
 REF Mfg. Corp.
 Ramo-Wooldrige, Div.-Thompson Ramo Wooldrige Inc.
 Randall Engrg. Corp.
 Research Controls
 Rimok, Inc.
 J. R. Robbins Co.
 Sargent Engrg. Corp.
 Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp.
 Simmonds Accessories, Inc.
 Skyvalve, Inc.
 Solar Aircraft Co.
 Southwestern Valve Corp.
 A. U. Stone & Co., Inc.
 Stratos, Div.-Fairchild Engine & Airplane Corp.
 Tactair Valve Div.-Aircraft Products Co.
 Tapco Group, Thompson Ramo Wooldrige Inc.
 Temco Aircraft Corp.
 Thompson Ramo Wooldrige Inc.
 Transco Products, Inc.
 United Aircraft Products, Inc.
 Vap-Air Aeronautical Products Div., Vapor Heating Corp.
 Vinson Mfg. Co. Inc.
***WEATHERHEAD CO., THE**
 Wells Industries Corp.
 Westinghouse Air Brake Co., Industrial Products Div.
 Wiancko Engrg. Co.
 Worthington Corp.

POINTERS, DIAL

Adept Industries Inc.
 Allen Electric & Equipment Co.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
 California Plasteck Inc.
 Ellison Draft Gage Co., Inc.
 Kallsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 Lear, Inc.
 James Millen Mfg. Co. Inc.
 United States Radium Corp.

POLONIUM

Canadian Radium & Uranium Corp.
 Monsanto Chemical Co.
 NUMEC-Nuclear Materials & Equipment Corp.
 Small Motors Inc.
 United States Radium Corp.

PORCELAIN

Adept Industries Inc.
 American Lava Corp.
 Bettlinger Corp.
 Centralab, Div.-Globe-Union, Inc.
 Du-Co Ceramics Co.
 Duramic Products, Inc.
 Electrical Refractories Co., The
 Gladding, McBean & Co.,
 Lapp Insulator Co., Inc., Radio Specialties Div.
 National Ceramic Co.
 Star Porcelain Co., The
 Thor Ceramics, Inc.

POSITION INDICATORS

Ainslie Corp.

Aircraft Instruments Co.
 Anlab Inc.
 Bendix Aviation Corp.-Montrose Div.
 Bendix Corp., The, Eclipse-Pioneer Div.
 Benson-Lehner Corp.
 Bomwar Instrument Corp.
 Chalco Engrg. Corp.
 Courter Products, Div.-Mödel Engrg. & Mfg., Inc.
 Allen B. Du Mont Labs., Inc.
 Flight Refueling, Inc.
 General Electric Co., Apparatus Sales Div.
 Hagan Chemicals & Controls Inc.
 Huyck Systems Co.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co.
 Lear, Inc.
 Litton Industries, Maryland Div.
 Modigan Corp.
 Motorola, Inc.
 Northrop Corp.
 Servomechanisms, Inc.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 The Instrument Corp.
 Thompson Ramo Wooldridge Inc.
 Transcoil Div.-Daystrom Inc.
 Union Switch & Signal, Div.-Westinghouse Air Brake Co.
 Whittaker Gyro, Div.-Telecomputing Corp.

POTENTIOMETERS

a. Absolute Pressure
 b. Differential Pressure
 c. High Resistance
 d. High Voltage
 e. Induction
 f. Linear Motion
 g. Linear & Non-Linear Precision Carbon Film
 h. Linear & Non-Linear Precision Wire Wound
 i. Metallic Film
 j. Portable Instrument
 k. Precision
 l. Precision Auto-Transformer
 m. Printed Circuit
 n. Rectilinear
 o. Slidewire
 p. Subminiature
 q. Wire Wound

Ace Electronics Associates, Inc., c, f, h, k, m, n, p, q.
 Aero Electronics Corp., m, n, q.
 Allegany Instrument Co., Inc., f.
 American Electronics, Inc., e, k.
 Analogue Controls, Inc., f, h, k, m, n, p, q.
 Associated Engineers, Inc., c, f, h, q.
 B & H Instrument Co., Inc., c, h, i, k, a.
 Barco, Inc., p.
 Bendix Aviation Corp.-Montrose Div., a, b.
 A. Biederman, Inc., a, b, j, k.
 Borg Equipment Div., Amphenol-Borg Electronics Corp., h, k, n, a, p.
 Bourns, Inc., a, b, c, f, thru i, m, thru q.
 *BRISTOL CO., THE, k, a.
 Brys Instrument Co., c, d, f, h, k, m, thru q.
 Calvert Electronics Inc., j.
 Carter Mfg. Corp., d, f, h, k, m, thru q.
 Central Scientific Co., a.
 Centralab, Div.-Globe-Union, Inc., f, h, m, p, q.
 Clorostat Mfg. Co., Inc., c, d, f, h, j, k, m, n, p, q.
 G. L. Collins Corp., e, l.
 Colvin Labs., Inc., a, b, f, h, n, p.
 Components Corp., h, k, q.
 Computer Instruments Corp., a, thru g, k, n, p.
 Computer Systems, Inc.

*CONSOLIDATED ELECTRODYNAMICS CORP., a, b.

Continental-Wirt Electronics Corp., m, q.
 Dale Products, Inc., m, p, q.
 Daven Co., The, c, d, h, i, k, p, q.
 Joe Davidson & Associates, e.
 Daystrom, Inc., Military Electronics Div., h, k, p, q.
 Daystrom Inc., Pacific Div., a, thru d, i, k, p, q.
 Daystrom Inc., Transcoil Div., e, h.
 Daystrom Inc., Weston Instruments Div., i, k.
 DeJur-Amsco Corp., Electronic Sales Div., c, d, f, i, k, n, p, q.
 Diehl Mfg. Co., e.
 Edcliff Instruments, a, b, f, q.
 Electromath Corp., c, d, f, h, k, p, q.
 Elektro-Serv Co., f, g, k, n.
 Ellison Draft Gage Co., Inc., b, j.
 Erie Resistor Corp., p, q.
 Fairchild Controls Corp., a, thru f, h, i, k, l, n, p, q.
 Fairchild Controls Corp., Components Div., a, b, c, f, q, thru i, p, q.
 Fisher Scientific Co., Maryland, k.
 Ford Instrument Co., Div.-Sperry Rand Corp., f, k, q.
 Foxboro Co., The, j.
 Gamewell Co., The, c, d, h, k, m, a, p, q.
 General Controls Co., h, j, k, n, q.
 General Electric Co., Apparatus Sales Div.

General Radio Co., h, q.
 Glasco Instrument Co., a, b.
 Gray Instrument Co., j, k.
 Guidance Controls Corp., h, k, q.
 Harco Labs., Inc.
 George E. Harris & Co., Inc., b, f, n.
 Helipol Div.-Beckman Instruments, Inc., c, thru f, h, i, n, a, q.
 Humphrey, Inc. Electro Mechanical Instruments, a, b, c, f, k, n.
 Huyck Systems Co., b, c, d.
 Industrial Instruments Inc., k.
 Javex Electronics, q.
 *KEARFOTT DIV., GENERAL PRECISION, INC., e.
 Wayne Kerr Corp., k.
 Ketay Dept., Norden Div., United Aircraft Corp., h, k, n, thru q.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc., m.
 Lear, Inc., c, e, f, g, i, thru p.
 Leeds & Northrup Co., j, k, a.
 Legris Resistor Corp., g, h, i, k, a, p, q.
 *WALLACE O. LEONARD, INC., a, b.
 Lewis Engrg. Co., The, j.
 Litton Industries, Inc., k.
 P. R. Mallory & Co. Inc., d, f, g, h, m, p, q.
 Markite Corp., f, g, k, n.
 *MARTIN CO., THE, DENVER DIV., b, f, j, a.
 Maurey Instrument Corp., c, thru f, h, k, m, p, q.
 Minco Products, Inc., n.
 Minneapolis-Honeywell Regulator Co.-Aeronautical Div., h.

Muirhead Instruments Inc., a.
 Networks Electronic Corp., f.
 New England Instrument Co., c, h, j, k, m, n, q.
 Norden Div., United Aircraft Corp., h, k, q.
 Northrop Corp.
 Palo Alto Engrg. Co., c, h, q.
 Perkin-Elmer Corp., l.
 Pickering & Co., Inc., e.
 Precision Line Inc., c, d, g, h, k, m, thru q.
 Q-Circuits, Div.-Etching Co. of Calif., m.
 Rahm Instruments Div.-American Machine & Metals, a, b, c, q.
 Rinco, Inc., h, k, a, q.
 Rockwood Sprinkler Co., Div.-The Gamewell Co., c, e, thru h, k.
 San Fernando Electric Mfg. Co., k, q.
 Servomechanisms, Inc., i.
 Servonic Instruments, Inc., a, thru d, f, h, k, n, a, q.
 Shallcross Mfg. Co., c, d.
 Sorensen & Co., Inc., d.
 Specialties, Inc., h, q.
 Spectrol Electronics Corp., c, h, k, m, a, p, q.
 H. W. Sullivan Ltd., a, k, a.
 Systron Corp., j, n.
 Technique Associates Div., Duncan Electric Co., Inc., j.
 Technology Instruments Corp., a, thru d, f, thru i, k, m, thru q.
 Thermo Electric Co., Inc., j.
 Tingstol Co., m.
 Transformers, Inc., l.
 Transcoil Div.-Daystrom Inc., e.
 Trans-Sonics, Inc., a, b.
 Tucson Instrument Corp., f, h, i, k, m, a, p, q.
 Vernistat Div., The Perkin-Elmer Corp., h, k, l, q.
 Virginia Electronics Co., Inc., l.
 Waters Mfg., Inc., c, h, k, m, p, q.
 Wells Industries Corp., f, h, k, m, thru q.
 Wesrep Corp., f, g, h, k, n, q.

POTS, SOLDERING

American Gas Furnace Co.
 Bios Labs., Inc.
 General Electric Co., Apparatus Sales Div.
 Hammett-Mercury-Rex Div.
 *MARTIN CO., THE, DENVER DIV.
 Temperature Engrg. Corp.
 Waage Electric, Inc.
 Western Coating Co.

POTS & TANKS, HEATING

Anchor Metal Spinning Co., The
 Bethlehem Steel Co.
 General American Transportation Corp.
 General Electric Co., Apparatus Sales Div.
 Graver Tank & Mfg. Co., Div.-Union Tank Car Co.
 Hevi-Duty Electric Co., Div.-Basic Products Co.
 A. F. Holden Co., The
 Lukens Steel Co.
 McCathron Boiler Works Co., Inc.
 Nooter Corp.
 Pyles Industries, Inc.
 Edw. Renneburg & Sons Co.
 Rolock Inc.
 Seal-Peel, Inc.
 Temperature Engrg. Corp.
 Waage Electric, Inc.
 Western Coating Co.

POWER ABSORBERS

Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
 Sun Electric Corp., Aeronautical Div.
 Western Design, Div.-U. S. Industries, Inc.

POWER SOURCES, GROUND

a. Electric
 b. Hydraulic
 c. Mechanical
 d. Pneumatic
 e. Prime Mover

Adel Precision Products of Calif., Div.-General Metals Corp., b.
 *AEROJET-GENERAL CORP., a, b, d.
 Air Logistics Corp.
 Aircraft Accessory Turbine Dept.-General Electric Co., a, c.
 *AIRESEARCH MFG. CO. OF ARIZONA, a, c.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, c, d, e.
 Allied International Corp., a.
 Allis-Chalmers, a.
 Allison Div., General Motors Corp., c.
 American Brake Shoe Co., Kellogg Div., b.
 American Electronics, Inc.
 American Machine & Foundry Co., Greenwich Engrg. Div., b.
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., d.
 Auto-Control Labs. Inc., b, d.
 Beech Aircraft Corp., a.
 Bendix Aviation Corp., a, thru d.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., a, thru d.
 Bendix Ulico Div., Bendix Aviation Corp., a, thru d.
 Bogue Electric Mfg. Co., a, d.
 Caterpillar Tractor Co., Defense Products Dept., a, b, c, e.
 Clark Bros. Co., Div.-Dresser Operations, Inc., a, d, e.
 Consolidated Diesel Electric Corp., a, thru e.
 Continental Motors Corp., c, e.
 Cornelius Co., The, Aero Div., b, d.
 Daven Co., The, a.
 Joe Davidson & Associates, a.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., a.
 Delco Radio Div.-General Motors Corp., a.
 Eagle-Picher Co., The, a.
 Eastern Industries Inc., b.
 Electroslidus Corp., a.
 Farwest Mfg. Div., Inc., a.
 Ferratron Electronics Co., Inc.
 Flight Support, Inc., a, thru d.
 Food Machinery & Chemical Corp., Ordnance Div., a.
 General Electric Co., a.
 General Electric Co., Apparatus Sales Div., a.
 General Regulator Corp., b.
 Gremco, a, thru d.
 Hallamore Electronics Co., Div.-Sieglar Corp., a, e.
 Hammett-Mercury-Rex Div., a.
 George E. Harris & Co., Inc., a.
 Haskel Engrg. & Supply Co., b, d.
 Herten Electric Co., The, a.
 Hobart Brothers Co., a.
 *HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP., b, c, d.
 Huck Mfg. Co., b.
 Hughes Tool Co., Aircraft Div., a, b, d.
 Hydra-Power Corp., b, d.
 Hydraulic Press Mfg. Co., The, Div.-Koebering Co., b.
 Indiana Gear Works, Inc.
 Integral Corp., b.
 International Ferromat Machinery Co., Inc., a, e.
 Jack & Heintz, Inc., a.
 Janke & Co. Inc., b, c.
 Jeta, Inc., a, e.
 Joy Mfg. Co., d.
 Kahn & Co., Inc., a, b, d.
 Kidel Aero-Space Div., Walter Kidde & Co., Inc., d.
 Kieley & Mueller, Inc., b, c, d.
 Leach Corp., a, c, e.
 Lear, Inc., a, b, c, e.
 Lee Electric & Mfg. Co., a.
 Leece-Neville Co., The, a.
 Leland Airborne Products, Div.-American Machine & Foundry Co., a.
 Lockheed Aircraft Corp., Missiles & Space Div., a.
 *MARTIN CO., THE, DENVER DIV., a, b, d.
 Motor Generator Corp., a.
 Mullenbach Div.-Electric Machinery Mfg. Co., a.
 J. E. Myles, Inc., b.
 National Cylinder Gas, Div.-Chemtron Corp., a.
 New York Air Brake Co., The, Watertown Div., b.
 Nutron Mfg. Co. Inc., a.
 D. W. Onan & Sons Inc., a, e.
 Owatonna Tool Co., Precision Hydraulic Div., b.
 Pacific Automation Products, Inc., a.
 Patterson Moos Research, Div.-Leesona Corp., a.

Perkin Engr. Corp., a.
 Pesco Products Div.-Borg-Warner Corp., a, b.
 REF Mfg. Corp., b.
 Radio Development & Research Corp., a, b.
 Robot Industries Inc., a, b, c, e.
 Rucker Co., The, b, d.
 Sangamo Electric Co., a.
 Sargent Engr. Corp., b.
 Servo-Tek Products Co., a, d, e.
 Solar Aircraft Co.
 Stewart & Stevenson Services, Inc., a thru e.
 Sun Electric Corp., Aeronautical Div., a thru e, h, k, l.
 Talley Corp., The, a, c, d, e.
 Tapco Group, Thompson Ramo Wooldridge Inc., a, b, c.
 Temco Aircraft Corp., a, b, d.
 Thompson Ramo Wooldridge Inc., a, b, c.
 Trans-Sil Corp., a.
 Twin Coach Co., Aircraft-Missiles, e.
 United Mfg. Co., Div., The W. L. Maxson Corp., b.
 Varo Mfg. Co., Inc., a thru e.
 Vickers Inc., Div.-Sperry Rand, b, e.
 Vickers, Inc., Mich., a, b, c, e.
 *WEATHERHEAD CO., THE., a thru d.
 Wells Industries Corp., b, d.
 Wesrep Corp., a.
 Western Gear Corp.-Precision Products Div., a thru e.
 Western Electric Corp., a.
 Wickfield, Inc., b, d, e.
 Winder Aircraft Corp. of Florida, a, c.
 Wolverine Diesel Power Co., a thru e.
 Worthington Corp., a, d, e.

POWER SUPPLIES

a. AC
 b. DC
 c. Emergency, Mobile
 d. 400 Cps
 e. High Voltage
 f. Klystron
 g. Magnetic
 h. Regulated
 i. Seals
 j. Transmitter
 k. Transistor
 l. Variable
 m. Voltage Regulated

ACDC Electronics, Inc., a thru e, g, h, j, k, m.
 ACF Electronics Div., ACF Industries Inc., g.
 ACF Industries Inc., a, b, g, h.
 ADC Inc., a, b, d, e, h, j thru m.
 AMP Inc., e, f.
 Acme Electric Corp., a, b, d, f, g, h, j, l, m.
 Admiral Corp., k.
 *AEROJET-GENERAL CORP., a, b, d.
 Aerotest Laboratories, Inc., a, b, d.
 Air Logistics Corp., a thru d, h, k, l, m.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc., a, b.
 Airborne Accessories Corp., d.
 Aircom Inc., b, f, m.
 *AIRESEARCH MFG. OF ARIZONA, a, b, d.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, b, d, h, k, l, m.
 Airpax Electronics Inc., Cambridge Div., a, d.
 Airpax Electronics Inc., Seminole Div., a, d.
 Allred Electronics, a, b, f, l, m.
 All American Engrg. Co., a, b, g, m.
 Allegany Instrument Co., Inc., a, b.
 Allen Electric & Equipment Co., b, k.
 Allied International Corp., a thru d.
 Allis-Chalmers, a, b, c, g, m.
 American Electronic Labs., Inc., b, h.
 American Electronics, Inc., a, b, d, e, g, h, k, l.
 American Rectifier Corp., b, c, e, g, h, l, m.
 American Research & Mfg. Corp., a, b, c, e, g, h, i, k, l, m.
 American Speedlight Corp., k.
 American Tradair Corp., k.
 Arnold Magnetics Corp., b, d, h, k, m.
 *ARNOUX CORP., a, b, d, e, g thru k, m.
 Associated Engineers, Inc., a, b.
 Associated Research, Inc., a, b, e, h, m.
 Associated Specialties Co., m.
 Astra Tech, b.
 Autotronics Inc., b.
 B & F Instruments, Inc., b, m.
 Barwood Electronics Int., a, b, d.
 Beech Aircraft Corp., b.
 Behlman Engr. Co., a, d, l.
 Bellock Instrument Corp., a, b, d, h, k, m.
 Bendix Aviation Corp., a, b, d.
 Bendix Aviation Corp., Cincinnati Div., a, b, d, e, g, h, j, l, m.
 Bendix Utica Div., Bendix Aviation Corp., a, b, d.
 Bergen Labs, Inc., h, k, m.
 Beva Lab., Inc., b, e, h.
 A. Biederman, Inc., j.
 Bogue Electric Mfg. Co., a thru h, j thru m.

Arthur E. Booth Co., a, b, l.
 Brach Mfg. Corp., a, b, d, e, g, h, k, m.
 Bruno-New York Industries Corp., b, e, h, m.
 Budd Lewty Electronics, Inc., a, b, e, h, j thru m.
 CBS Laboratories, Div.-Columbia Broadcasting System, j.
 CG Electronics Corp., b, j.
 Caledonia Electronics & Transformer Corp., e, k, m.
 Carol Electronics Corp., a, c, m.
 Carson Mach & Supply Co., c.
 Caterpillar Tractor Co., Engine Div., c, d.
 Caterpillar Tractor Co., Industrial Engine Plant, c, d.
 Central Transformer Co., e.
 Chalco Engrg. Corp., a, b, d, h, k, l, m.
 Chance Vought Aircraft, Inc., a, b, d, h, j, l, m.
 Chatham Electronics Div.-Tung-Sol Electric, Inc., b.
 Clegg Labs, Div.-Clegg, Inc., b, e, f, h, j, l, m.
 Coil Co. of America, a, b, d, e, g, l, m.
 G. I. Collins Corp., a, h, l, m.
 Collins Radio Co., a, b, c, e, j, k.
 Colorado Research Corp., b, k, m.
 *COMMERICAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., a, b, d thru h, l, m.
 Communication Measurements Lab., Inc., a, d, h, l, m.
 Computer Engr. Associates, Inc., a, b, c, g, h, k, l, m.
 Connecticut Hard Rubber Co., The, l.
 Consolidated Airborne Systems, Inc., a, d, m.
 Consolidated Diesel Electric Corp., a thru d.
 *CONSOLIDATED ELECTRODYNAMICS CORP., a, b, d, h, k.
 Consolidated Vacuum Corp., b.
 Control Circuits Inc., g.
 Control Electronics Co., Inc., j, m.
 Cornell-Dubilier Electric Corp., a, b, c, h, k.
 Cosmic Instruments Inc., a, b, j, m.
 Cubic Corp., f.
 Curtiss-Wright Corp., Santa Barbara Div., a, b.
 Daven Co., The, a thru e, h, j thru m.
 Davenport Mfg. Co., a, b, d, e, h, l, m.
 Joe Davidson & Associates, a thru e, h, k, l, m.
 Daystrom, Inc., Control Systems Div., b, m.
 Dayton Aircraft Products, Inc., e.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., a thru d, g, h, k, l, m.
 Del Electronics Corp., a, b, d, e, g, h, k, l, m.
 Delco Radio Div.-General Motors Corp., a, b, d, h, k, l, m.
 *DEL MAR ENGRG. LABS., b, e, h.
 Delson Corp., b, e, h, l.
 Dellron Inc., a, b, d thru h, j thru m.
 Deluxe Coils Inc., e.
 Djeco, Div.-Djordjevic Engr. Co., a, b, d, e, g, h, i, k, l, m.
 Dressen-Barnes Corp., b, h, k, l, m.
 Dresser Electric Co., b, e.
 Du Kane Corp.
 Dynamic Controls Co., a, b, g, h, k, l, m.
 Dynamics Instrumentation Co., b, k, l.
 Dynatronics, Inc., b, h.
 Eagle-Picher Co., The, b.
 Edgerton, Gernsmeather & Gner, Inc., e.
 Eficor Div.-Scranton, a, b, d, h, k, m.
 Elcor, Inc., b, e, h, k, l, m.
 Electric Machinery Mfg. Co., d.
 Electric Engr. Works, a, d, e, f.
 Electro Instruments, Inc., b, h, k, l, m.
 Electro Powerpacs, Inc., a.
 Electro Precision Corp., h.
 Electro Products Labs., Inc., b, k, m.
 Electronic Brazing Co., e.
 Electronic Measurements Co., Inc., b, h, k, l, m.
 Electronic Specialty Co., a, b, h, m.
 Electro Solids Corp., a, b, d, h, k, m.
 Elin Div., International Electronic Research Corp., a, d, e, h, m.
 Empire Products Sales Corp., a, f, l.
 Endevco Corp., m.
 Engrg Specialties, k.
 *ENGIS EQUIPMENT CO., a, b, h, m.
 Enso, Inc., b, h, k, l, m.
 *EQUIPMENT DIV., RAYTHEON CO., a, b, d thru h, j thru m.
 Eureka Williams Corp., b.
 FXR, Inc., e, f, j, m.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., a, b, d, h, l, m.
 Fairfield Engrg. Corp., a, b, d, g, l, m.
 Fastrand Metallurgical Corp., b, h, m.
 Farwest Mfg. Div., Inc., a thru d, k, l, m.
 Ferratron Electronics Co., Inc., a, b, d, f, k, l, m.
 Fidelity Instrument Corp., a, b, d, h, l, m.
 Film Capacitors, Inc., a, b, d, e, h, l.
 Filtron Co., Inc., a, d, e.
 Fla. Aircraft Radio & Marine, a, b, d, e, j.
 Flight Support, Inc., a thru d, h, l, m.
 Flite-Tronics, Inc., a, b, h, k, m.
 John Fluke Mfg. Co., Inc., b, e, f, h, k, l, m.
 Food Machinery & Chemical Corp., Ordnance Div., b, m.
 Foto-Video Labs., Inc., a, b, c, d, e, h, m.
 Freed Transformer Co., Inc., a, b.

GPI Div.-General Precision, Inc., h.
 Gates Electronic Co., b, g, h, k, l, m.
 Gates Radio Co., b, j thru m.
 General Devices, Inc., a, b, d, g, h, j, k.
 General Electric Co., a, b, e thru h, k, l, m.
 General Electric Co., Apparatus Sales Div., a thru e, h, j thru m.
 General Instrument Corp., Defense & Engrg. Products Group, a thru d, h, j thru m.
 General Magnetics, Inc., a, b, g.
 General Radio Co., a, h, l, m.
 Georator Corp., a thru d, l, m.
 Paul E. Gerst & Co., a, b, d, g, h, l, m.
 Gilliland Bros., Inc., a, b, d, f, j, m.
 Grenco, Inc., a thru d, h.
 Glyxer Corp., The, a, d.
 Hagan Chemicals & Controls Inc., h.
 Hallamore Electronics Co., Div.-Sieglar Corp., b, h.
 Hammarlund Mfg. Co., The, b, m.
 Hammett-Mercury-Rex Div., a thru m.
 George E. Harris & Co., Inc., a, b, d, h, m.
 Harrison Jobs, Inc., b, e, h, k, l, m.
 Hathaway Instruments, Inc., a, d.
 Hazeltine Electronics Div.-Hazeltine Corp., j.
 Hermer Electric Co., The, a, b, d, e.
 Hewlett-Packard Co., b, e, f, h, k, l, m.
 Hobart Brothers Co., a, b, c.
 Hol-Gar Mfg. Corp., a thru d, m.
 Hoover Electric Co., a, b.
 Hoover Electronics Co., a, b, k, m.
 Huyck Systems Co., a, b, k.
 IIT Electronics, Inc., a, b, k, l, m.
 ITT Federal Div., International Telephone & Telegraph Corp., a thru f, h, j thru m.
 Iconix Inc., e.
 Industrial Test Equipment Co., a, d, h, l, m.
 Instron Corp., e, j.
 Infrared Industries, Inc., b.
 Intercontinental Dynamics Corp., b, h.
 Intercontinental Electronics Corp., b, g, m.
 *INTERELECTRONICS CORP., a, b, d, e, g, h, j thru m.
 International Electronics Research Corp., a, d, h, l, m.
 International Ferromot Machinery Co., Inc., a thru e.
 Interstafe Electronics Corp., a, b, e, h.
 Jack & Heintz, Inc., a, b, d, g, h, k, m.
 James Electronics Inc., b, k.
 Jeta, Inc., a thru d, m.
 Johnson Electronics, Inc., a, b, c, f, h, j, k, m.
 Jordan Electronics Div.-Victoreen Instrument Co., a, b, d, e, h, k, m.
 Kahn & Co., Inc., b.
 Kato Engrg. Co., a thru e, g, h, l, m.
 Kay Electric Co., f.
 Keithley Instruments, Inc., b, e, h, m.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., b, h, m.
 Kepco, Inc., b thru h, k, l, m.
 Kin Tel Div.-Cohu Electronics, Inc., b, h, m.
 Kingston Electronics Div.-Kingston Industries Inc., b.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co., Inc., a, b, d, g, h, m.
 Lambda Electronics Corp., b.
 Leach Corp., a thru e, g, h, k, l, m.
 Lear, Inc., a thru d, h, k, l, m.
 Lee Electric & Mfg. Co., b, c, e, g, h, k, l, m.
 Leece-Neville Co., The, a, b, c, h, m.
 Leemath Inc., a, b, e, l, m.
 Leland Airborne Products, Div.-American Machine & Foundry Co., a thru e, g, h, k, l, m.
 Levinthal Electronic Products, Inc., e, f, j.
 Lincoln Electric Co., The, a, c.
 Lockheed Electronics Co., Stavid Div., b, d, k.
 MB Electronics, a, b, k.
 MEG Products, Div.-Mandrel Industries, Inc., a, b, d, k, l, m.
 Madigan Corp., a thru d, h, j, k, m.
 Magnetic Circuit Elements, Inc., a, b, d, g, h, m.
 Magnetic Controls Co., a, b, d, g, h, k, m.
 Magnetic Instruments Co., Inc., e, m.
 Magnetic Research Corp., a, b, d, g, k, m.
 Maico Electronics, Inc., b, m.
 P. R. Mallory & Co. Inc., a, b, k.
 Manhattan Lighting Equipment Co., Inc., m.
 Manson Labs, Inc., a, b, d, e, f, h, j, l, m.
 *MARTIN CO., THE, DENVER DIV., a, b, d, h, j, l, m.
 Master Specialties Co., a, b, k.
 W. L. Maxson Corp., The, h, k.
 Micro Gee Products, Inc., a, b, g, h, k, l, m.
 Midwestern Instruments, Inc., b.
 James Millen Mfg. Co. Inc., b, e, j.
 Sanford Miller Co., b.
 Milro Controls Co., Inc., a, b, d, e, g, h, m.
 Mira Corp., The, b, h, k, m.
 Model Rectifier Corp., b, d, h, k, l, m.
 Modern Design Div.-H. C. Schloer, Inc., b, d, h, k, m.
 Moran Instrument Corp., b, e, h.
 Motor Generator Corp., a thru d, h, m.
 Motoresearch Co., a, b, d, e, g, h, m.

Motorola, Inc., a, b, d thru h, j thru m.
 Heinz Mueller Eng. Co., Inc., b.
 Mullenbach Div.-Electric Machinery Mfg. Co., b, h, m.
 Multi-Amp Electronic Corp., a, b.
 NIJE Corp., a, b, e thru h, k, l, m.
 Narda Microwave Corp., The, f.
 National Co., Inc., b, e, f, h, j thru m.
 Navigation Computer Corp., b, h, k.
 Neff Instrument Corp., b, k, l, m.
 Networks Electronic Corp., a, b, d, g, h, k, l, m.
 New London Instrument Co., Inc., e, l, m.
 New York Transformer Co., Inc., a, b, d, g, h, m.
 Northeast Scientific Corp., b, e, f, h, l, m.
 Northrop Corp.
 Northwestern Electric Co., a, b, h.
 Nuclear-Chicago Corp., m.
 Paul Nurches Co., b, f, h, k, l, m.
 Nutron Mfg. Co., Inc., a thru d, g, h, k, l, m.
 D. W. Onan & Sons Inc., a, b, c.
 Opad Electric Co., a thru h, j thru m.
 Otis Elevator Co., Defense & Industrial Div., e, m.
 Otis Elevator Co., Defense & Industrial Div., e, m.
 Owen Labs, Inc., b, h, k, m.
 Pacific Automation Products, Inc., a, b, k, l, m.
 Pacific Magnetic Corp., a, b, d, g.
 Packard Bell Computer Corp., k, m.
 Paco Electronics Co., Inc., m.
 Pass & Seymour, Inc., Defense Div.,
 Patterson Moos Research, Div.-Leesona Corp., b,
 e, m.
 Pegasus Labs., Inc., b, k.
 Penn Keystone Corp., h, m.
 Performance Measurements Co., b, k, m.
 Perkin Engng. Corp., a, b, e, g, h, k, l, m.
 Permolux Products Co., b, d, e, m.
 Peschel Electronics, Inc., a, b, d, e, l.
 Pesco Products Div., Borg-Warner Corp., a, b.
 Pesco Products Div., Borg-Warner Corp., Calif., a
 thru d, h, k, m.
 Piasecki Aircraft Corp., b, l, m.
 Plastic Capacitors, Inc., b, d, e, h, l, m.
 Polarad Electronics Corp., f.
 Polytechnic Research & Development Co., Inc., f.
 Power Supplies Inc., a, b, d, e, g, h, k, m.
 Precise Development Corp., a, b, m.
 Pre-File Industries Corp.-Sub.-Avco Mfg. Corp., a,
 b.
 Pressman Associates Inc., b, k, m.
 Process & Instruments, b.
 Projects Unlimited, Inc., b, h.
 Quan-Tech Labs, Inc., b, h, k, l, m.
 RS Electronics Corp., e, f, k.
 Radex Corp., e.
 Radiophone Co., Inc., k.
 Radiation, Inc., e, f, h, j, k, m.
 Radiation Instrument Development Lab., Inc., e.
 Radio City Products Co., Inc., b, e, h, l.
***RADIO CORP. OF AMERICA**
***RCA, RCA SERVICE CO., GOVT. SERVICE DEPT.,**
SYSTEMS ENGRG. FACILITY b, d, h.
 Radio Development & Research Corp., a thru e, h,
 k, l, m.
 Radio Frequency Co., Inc., e.
 Radio Receptor Co., Inc., Sub.-General Instrument
 Corp., a thru d, h, j thru m.
 Ramo-Woodbridge, Div.-Thompson Ramo Wool-
 dridge Inc., a, b, d, h, k, m.
 Redmond Co., Inc., Sub.-Controls Co. of America, a,
 b, d.
 Reflectone Electronics, Inc., k, m.
 Resitron Labs., Inc., e.
 Riverbank Labs., Dept.-Engrg., a.
 J. R. Robbins Co., k.
 S & G. Mfg. Corp., b, c.
 Safety Electrical Equipment Corp., a, b, d, h, l, m.
 Sage-Craft, Inc., b, g.
 Sangamo Electric Co., a, b, d, e, h, m.
 Schaevitz Engrg., a, b.
 Sciaky Brothers, Inc., a, b, e, m.
 Scientific Electric Inc., a, b, e, h, l, m.
 Scientific-Atlanta, Inc., e, l.
 Secode Corp., b.
 Sensitive Research Instrument Corp., a, b, l, m.
 Servomechanisms, Inc., a, b, d, e, g.
 Servo-Tek Products Co., b, m.
 Signal Equipment Co., Inc., a, d, l.
 Small Motors Inc., a, b, d.
 Solar Aircraft Co., b.
 Sonotone Corp., b, h, k, m.
 Sorensen & Co., Inc., a, b, d, e, g, h, l, m.
 Southwest Research Institute, a, b, d, e, g, h, k, l, m.
 Southwestern Industrial Electronics Co.
 Specialty Electronics Development Corp., a, m.
 Specific Products, l.
 Spectrol Electronics Corp., a thru d, h, k, m.
 Spellman High Voltage Co., b, e, h, l, m.
 Sperry Microwave Electronics Co., Div.-Sperry Rand
 Corp., f.
 Standard Electronics Div.-Reeves Instrument Corp., a,
 b, d, e, h, j thru m.

State Testing Laboratory Inc., b, l.
 Statham Development Corp., b, m.
 Statham Instruments, Inc., m.
 Stewart & Stevenson Services, Inc., a thru d.
 Stewart-Warner Electronics Div., a, b, h, k.
 Stromberg-Carlson Div.-General Dynamics Corp., b.
 Sunair Electronics, Inc., a, b, d, k.
 Sundstrand Turbo, a, b, d.
 Superior Electric Co., The, a, b, l.
 TRG, Inc., k, m.
 Taffet Electronics, Inc.
 Talley Corp., The, a, b, d.
 Tapco Group, Thompson Ramo Woodbridge Inc., a,
 b, d, m.
 Technical Apparatus Builders, a, b, e, h, k, m.
 Technical Materiel Corp., The
 Telechrome Mfg. Corp., a, b, d, e, h, j thru m.
 Telectro Industries Corp., a thru e, g, j, l, m.
 Telex, Inc., a, b, d, g.
 Tel-Instrument Electronics Corp., d, h, l.
 Telkor, Inc., a, b, d, h, k, l, m.
 Thermador Electrical Mfg. Co., a, b, d, g, h, k, l, m.
 Thompson Ramo Woodbridge Inc., a, b, d, m.
 Torrico Electronics, Inc., a, b, d, g, h, m.
 Traid Corp., b.
 Trans Electronics, Inc., a, b, d, e, g, h, k, l, m.
 Transformer Specialty Co., g.
 Transistor Devices Inc., a, b, e, h, k, l, m.
 Trans-Sil Corp., b, e, h, l, m.
 Trans-Sonics, Inc., b.
 Tresco, Inc.
 Tung-Sol Electric, Inc., a, b, d.
 United Aircraft Products, Inc., i.
 U. S. Industries, Inc., a, b, h, m.
 Universal Electronics Co., b, d, g, h, k, l, m.
 Universal Transistor Products Corp., a thru h, j thru m.
 Valor Instruments, Inc., b, c, d, h, k, l, m.
 Varo Mfg. Co., Inc., a thru h, j thru m.
 Vickers Inc., Electric Products Div., a, b, d, g, h, l, m.
 Vickers, Inc., Mich., a thru d, h, l, m.
 Video Instruments Co., Inc., b, h, k, l, m.
 Viking Industries Inc., b, m.
 Virginia Electronics Co., Inc., a, b, c, e, h, j, k, m.
 Wahlgren Magnetics, Div.-Marshall Industries, a, b,
 d, g, h, k.
 Wallson Associates, Inc., a, b, d thru h, j thru m.
 Weltronic Co., a, b.
 Wesrep Corp., a, b, h, l, m.
 Westinghouse Electric Corp., a thru f, h, j thru m.
 Wheeler Electronics Corp., Sub.-Sperry Rand Corp.,
 a, b, h, k, l, m.
 Wickes Engrg. & Construction Co., a thru e, g, h,
 j thru m.
 Wincharger Corp., Sub.-Zenith Radio Corp., m.
 Winder Aircraft Corp. of Florida, a, b, l, m.
 Wolverine Diesel Power Co., a thru e, h, k, l, m.
 Worthington Corp., a, b, d.
 Zacharias Electronics Corp., b, h, m.

PRECIPITATORS, ELECTROSTATIC

Bendix Utica Div., Bendix Aviation Corp.
 Dayton Aircraft Products Inc.
 Del Electronics Corp.
 General American Transportation Corp.
 Koppers Co., Inc., Metal Products Div.
 Mamco Corp.
 Radex Corp.
 Small Motors Inc.
 Spellman High Voltage Co.
 Westinghouse Electric Corp.

PRE-SELECTORS

FXR, Inc.
 General Instrument Corp., Defense & Engrg. Products
 Group
 Interstate Electronics Corp.
 Meridian Metalcraft, Inc.
 Motorola, Inc.
 National Co., Inc.
 Radio Receptor Co., Inc., Sub.-General Instrument
 Corp.
 Republic Aviation Corp., Missile Systems Div.

PRESSES, METAL FORMING

Cyril Bath Co., The
 E. W. Bliss Co.
 California Stamping & Mfg. Co.
 Chambersburg Engrg. Co.
 Cincinnati Milling Machine Co., The
 Cincinnati Shaper Co., The
 Henry & Miller Industries, Inc.
 High Speed Hammer Co., Inc., The
 Hughes Tool Co., Aircraft Div.
 Hydraulic Press Mfg. Co., The, Div.-Koehring Co.
 Niagara Machine & Tool Works
 Oliver Corp., The-A. B. Farquhar Div.
 Richard Philip Co.
 Pines Engrg. Co. Inc.
 Pioneer Industries Div., Almar-York Co. Inc.
 Portland Copper & Tank Works Inc.

Rotex Punch Co., Inc.
 Rucker Co., The
 Joseph T. Ryerson & Son, Inc.
 Sheridan-Gray, Inc.
 F. J. Stokes Corp.
 Roland Teiner Co. Inc.
 Verson Allsteel Press Co.
 Whitney Metal Tool Co.

PRESSURE INSTRUMENTS

Aero Research Instrument Co. Inc.
 Aerotec Industries Inc., Aircraft Equipment Div.
***AIRRESEARCH MFG. CO., DIV.-THE GARRETT**
CORP.
 Alloy Bellows Inc.
 American Instrument Co., Inc.
 Amthor Testing Instrument Co., Inc.
 Aero-Firewel Co., Inc., Sub.-The Aero Equip. Corp.
 Bendix Aviation Corp.-Montrose Div.
 A. Biederman, Inc.
***BRISTOL CO., THE**
 Budd Co., The
 Colvin Labs., Inc.
 Consolidated Controls Corp.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Custom Component Switches Inc.
 Daystrom Inc., Pacific Div.
 Dynometrics Corp.
 Dynisco, Inc.
 Thomas A. Edison Ind. Instrument Div.-Mc Graw-
 Edison Co.
 Edwards High Vacuum Ltd.
 Ellison Draft Gage Co., Inc.
 Fischer & Porter Co.
 Gilmore Industries, Inc.
 Glasco Instrument Co.
 B. F. Goodrich Aviation Products
 Gulton Industries, Inc.
 Hagan Chemicals & Controls Inc.
 Haskel Engrg. & Supply Co.
 Helicoid Gage Div., American Chain & Cable Co.,
 Inc.
 E. Vernon Hill & Co.
 Kollman Instrument Corp., Sub.-Standard Coil Pro-
 ducts Co.
 Leslie Co.
 Mason-Neilon
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Pacific Scientific Co.
 Photocon Research Products
 Rahm Instruments Div.-American Machine & Metals
 Reed Instrument Co.
 Reed Research Inc.
 Robertshaw-Fulton Controls Co., Fulton Sylphon Div.
 Rosemount Engrg. Co.
 Scarnivalve Co.
 Servomechanisms, Inc.
 Southwest Research Institute
 Space Components, Inc.
 Standard Controls, Inc.
 Statham Instruments, Inc.
***TABER INSTRUMENT CORP.**
 Technology Instrument Corp.
 Trans-Sonics, Inc.
 Trimount Instrument Co.
 Ultradyne, Inc.
 United Aircraft Products, Inc.
 United Electric Controls Co.
 Weksler Instruments Corp.
 Westport Development & Mfg. Co., Inc.

PRESSURIZATION UNITS

Accessory Products Co., Div.-Textron Inc.
 Aero-Test Equipment Co., Inc.
***AIRRESEARCH MFG. OF ARIZONA**
 Airtron, Div.-Liton Industries
 American Instrument Co., Inc.
 American Machine & Foundry Co., Government Pro-
 ducts N. Y.
 American Research Corp.
 Applied Dynamics Corp.
 Aero-Firewel Co., Inc., Sub.-The Aero Equip. Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Brooks & Perkins, Inc.
 Budd Lewyt Electronics, Inc.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Cornelius Co., The, Aero Div.
 Cornell Deep Drawing Co., Div.-Lanes Industries
 Corp.
 Futurecraft Corp.
 B. H. Hadley, Inc.
 Hamilton Standard, Div.-United Aircraft Corp.
 Hydra-Power Corp.
 Kahn & Co., Inc.
 Kemp Aero Products
 Kollman Instrument Corp., Sub.-Standard Coil Pro-
 ducts Co. Inc.
 Thomas J. Long, Inc.
 Mc Cormick Selph Associates
 Micro Gee Products, Inc.

Edw. Renneburg & Sons Co.
Research Controls
Robertshaw-Fulton Controls Co., A & I Div.
S & G Mfg. Corp.
Southwest Research Institute
Trinity Equipment Corp.
United Electric Controls Co.
Wells Industries Corp.

PRINTED CIRCUITS

ACF Electronics Div., ACF Industries Inc.
Adept Industries Inc.
Advance Industries, Inc.
All American Engrg. Co.
American Printed Circuits Co., Inc.
Arthur Ansley Mfg. Co.
*ARNOUX CORP.
Associated Engineers, Inc.
Balock Instrument Corp.
Blender-Tongue Labs., Inc., Special Products Div.
Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
Budd Co., The
CBS Electronics, Div.-Columbia Broadcasting System Inc.
CG Electronics Corp.
Chalco Engrg. Corp.
Chance Vought Aircraft, Inc.
Chemical Micro Milling Co.
Colorado Research Corp.
Corning Glass Works
Croname Inc.
Delco Radio Div.-General Motors Corp.
Electrolab Printed Electronics Corp.
Electronic Circuits
Elektro-Serv Co.
Emerron, Sub.-Emerson Radio & Phonograph Corp.
Gates Radio Co.
General Plastics Corp.
Gladding, McBean & Co.
Globe Electrical Mfg. Co.
B. F. Goodrich Aviation Products
Graphik Circuits, Div.-Cinch Mfg. Co.
Gulton Industries, Inc.
Hansen Electronics Co.
Howard B. Jones Div.-Cinch Mfg. Corp.
Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
La Pointe Industries Inc.
Lear, Inc.
Librascope Div., General Precision, Inc.
Lytle Corp.
P. R. Mallory & Co. Inc.
Mitratics Inc.
Modern Design Div. H. C. Schloer, Inc.
Molded Insulation Co.
Motorola, Inc.
National Co., Inc.
National Scientific Labs, Inc.
Navigation Computer Corp.
Northrop Corp.
Packard-Bell Electronics Corp.
Pasecki Aircraft Corp.
Q-Circuits, Div., Etching Co. of Calif.
*RCA CORP. OF AMERICA
*RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY
Rogers Corp.
St. Regis Paper Co., Panelyte Div.
Sibley Co., The
Sillocks-Miller Co.
Space Components, Inc.
Sunair Electronics, Inc.
Taylor Fibre Co.
Technograph Printed Electronics, Inc.
Techron Corp.
Thompson Ramo Wooldridge Inc.
Tingstol Co.
Trepac Corp. of America

PROBES

- a. Crystal
- b. High Frequency
- c. High Voltage
- d. Measurement
- e. Microwave
- f. Pilot Static
- g. Pressure
- h. Temperature

Advanced Electronics, Inc., g, h.
Aircorn Inc., a, e.
Airtron, Div.-Liton Industries, e.
*ARNOUX CORP., h.
Baird-Atomic, Inc., a.
Barber-Colman Co., h.
Bendix Aviation Corp., f, g, h.
Bogart Mfg. Corp., e.
Branson Instruments, Inc., a.
Calvert Electronics Inc., b, c.
Chance Vought Aircraft, Inc., e.
Consolidated Controls Corp., h.

Control Circuits Inc., h.
Crescent Engrg. & Research Co., h.
Curtiss-Wright Corp., Princeton Div., a.
Daven Co., The, a thru d.
Decker Corp., The, d.
Demornay-Bonardi, e.
Diamond Antenna & Microwave Corp., e.
Dorne & Margolin, Inc., e.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., g, h.
Edwards High Vacuum Ltd., b.
Eljay Corp., e.
FXR, Inc., a, e.
Fenwal Inc., h.
Flow Corp., g.
General Communication Co., e.
General Electric Co., Apparatus Sales Div., h.
General Instrument Corp., Defense & Engrg. Products Group, e.
Gulton Industries, Inc., h.
Hammett-Mercury Rex Div., a.
Harco Labs., Inc., f, g, h.
Hewlett-Packard Co., a, e.
Hickok Electrical Instrument Co., The, a, b.
ITI Electronics, Inc., a, b.
Illinois Testing Laboratories, Inc., h.
Interstate Electronics Corp., a, b, d.
J-V-M Microwave Co., e.
Javex Electronics, c.
Kahn & Co., Inc., g, h.
Joseph Kaye & Co., f, g, h.
Keithley Instruments, Inc., c.
Wayne Kerr Corp., d, h.
Kidde Aero-Space Div., Walter Kidde & Co., Inc., h.
Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc., f, g, h.
Langley Corp., h.
Leeds & Northrup Co., d, h.
*LEWIS ENGRG. CO., THE, h.
Meridian Metalcraft, Inc., e.
Microlab, e.
Microphase Corp., e.
Minco Products, Inc., h.
Mitchell Camera Corp., d, g, h.
Narda Microwave Corp., The, e.
Omega Labs, Inc., e.
Paco Electronics Co., Inc., a thru d.
Pemco Inc., f, g, h.
Phoastron Instrument & Electronic Co., c.
Philips Electronic Instruments
Pioneer Industries Div., Almar-York Co. Inc., a, d.
Polytechnic Research & Development Co., Inc., a, e.
Precision Development Corp., b, c, d.
Projects Unlimited, Inc., a, b.
Pyrometer Instrument Co., Inc., h.
*RADIO CORP. OF AMERICA, a thru e.
Radio Receptor Co., Inc., Sub.-General Instrument Corp., e.
Rantec Corp., e.
Revere Corp. of America, Sub., Neptune Meter Co., h.
Rosemount Engrg. Co., f, g, h.
Sage Labs, Inc., e.
Scientific Atlanta, Inc., e.
Southwest Research Institute, g, h.
Specialty Electronics Development Corp., e.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., e.
B. K. Sweeney Mfg. Co., h.
TRG, Inc., a, b, e.
*TABER INSTRUMENT CORP., g, h.
Technicraft, Div.-Electronic Specialty Co., e.
Thermo Electric Co., Inc., h.
Tranco Products, Inc., e.
Trimount Instrument Co., d.
Unison Products, Inc., b.
Unit Process Assemblies, Inc., b.
Victor R. F. & Microwave Co., a, e.
Victory Engrg. Corp., h.
Wacine, Inc., e.
Waste King Corp., Technical Products Div., f, g, h.
Waveline, Inc., e.
Yellow Springs Instrument Co., The, h.
Young Development Div., Hercules Powder Co., d.

PROCESSING EQUIPMENT, MOTION PICTURE

Balock Instrument Corp.
Cameralex Div., The, Federal Mfg. & Engrg. Corp.
Dejur-Amsco Corp., Electronic Sales Div.
Gordon Enterprises
Hazelhine Electronics Div.-Hazelhine Corp.
Hi-Speed Equipment, Inc.
J. A. Maurer, Inc.
Metal Fabricators Corp.
Plaudler Div., Plaudler Permutit Inc.
Viewlex, Inc.

PROPELLANT CASES, SOLID ROCKET

ACF Industries Inc.
Aerocal Div., Aeronca Mfg. Corp.

*AEROJET-GENERAL CORP.

Aerojet-General Corp., Downey Plant
Allison Div., General Motors Corp.
Aluminum Co. of America
Amsel Propulsion Inc.
American Car & Foundry Div., ACF Industries, Inc.
American Potash & Chemical Corp., National Northern Div.
American Tubing Co., Inc.
American Welding & Mfg. Co., The
Arde-Portland, Inc.
Armament Div.-Universal Match Corp.
Atlantic Research Corp.
Basic Tool Industries, Inc.
Beacon Steel Corp.
Beech Aircraft Corp.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
Bermite Powder Co.
E. W. Bliss Co.
Brunswick Balke Collender Co., The, Defense Products Div.
A. M. Byers Co.
Chance Vought Aircraft, Inc.
Continental Diamond Fibre Corp.
Cramer Mfg. & Engrg., Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Douglas Aircraft Co., Inc.
*EXCELCO DEVELOPMENTS INC.
Food Machinery & Chemical Corp., Ordnance Div.
Gabriel Co., Rocket Power-Talco
Garlock Packing Co.
General Electric Co., Rocket Engine Section
B. F. Goodrich Aviation Products
Goodyear Aircraft Corp.
Hahn & Clay
Hercules Powder Co., Chemical Propulsion Div.
Hughes Tool Co., Aircraft Div.
ITE Circuit Breaker Co., Special Products Div.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
Kaiser Fleetwings, Inc.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Lamtex Industries Inc.
Le Fiell Mfg. Co.
Lithium Corp. of America Inc., The Fulton-Irgon Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Lukens Steel Co.
Lycoming Div., Avco Corp.
Mc Cormick Selph Associates
McGregor Mfg. Corp.
Menasco Mfg. Co.
*MINNESOTA MINING & MFG. CO.
Narmco Mfg. Co.
National Tube Div.-United States Steel Corp.
Norris-Thermador Corp.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Portland Copper & Tank Works Inc.
Portt & Whitney Aircraft Div., United Aircraft Corp.
Pressed Steel Tank Co.
Raybestos-Manhattan, Inc.
Republic Aviation Corp., Missile Systems Div.
Solar Aircraft Co.
Spaceatoms Div., The Budd Co.
Stamping Div.-Rockwell Standard Corp.
Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.
Synthane Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.
Temco Aircraft Corp.
H. I. Thompson Fiber Glass Co.
Thompson Ramo Wooldridge Inc.
U. S. Pipe & Foundry Co., Steel & Tubes Div.
United States Rubber Co.
United States Steel Corp.
Western Design, Div.-U. S. Industries, Inc.
Young Development Div., Hercules Powder Co.

PROPELLANT TANKS

ACF Industries Inc.
Aerocal Div., Aeronca Mfg. Corp.
*AEROJET-GENERAL CORP.
Aerojet-General Corp., Downey Plant
Allison Div., General Motors Corp.
Aluminum Co. of America
Arde-Portland, Inc.
Armament Div.-Universal Match Corp.
Basic Tool Industries, Inc.
Beacon Steel Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Aviation Corp.
Benson Mfg. Co.
Bermite Powder Co.
Bethlehem Steel Co.
A. M. Byers Co.
California Stamping & Mfg. Co.
Chicago Bridge & Iron Co.
Cramer Mfg. & Engrg., Inc.

Curtiss-Wright Corp.-Wright Aeronautical Div.
 Douglas Aircraft Co., Inc.
 *EXCELCO DEVELOPMENTS INC.
 Food Machinery & Chemical Corp., Ordnance Div.
 Foster Wheeler Corp.
 Hahn & Clay
 Intercontinental Mfg. Co., Inc.
 Joclin Mfg. Co., The
 Latex Industries Inc.
 Le Fiel Mfg. Co.
 Lithium Corp. of America Inc., The Fulton-Irton Div.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Lycoming Div., Avco Corp.
 *MARTIN CO., THE, DENVER DIV.
 McGregor Mfg. Corp.
 *MINNESOTA MINING & MFG. CO.
 National Tube Div.-United States Steel Corp.
 Nooter Corp.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Pressed Steel Tank Co.
 Pry Welding & Mfg., Inc.
 A. O. Smith Corp., Smith-Erie Div.
 Spaceatomics Div., The Budd Co.
 Standard Steel Corp., Cambridge Div.
 Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.
 Struthers Wells Corp.
 Temco Aircraft Corp.
 Uni-Flex Mfg. & Engrg. Inc.
 United Aircraft Products, Inc.
 U. S. Pipe & Foundry Co., Steel & Tubes Div.
 United States Chemical Milling Corp.
 United States Steel Corp.
 Westholl Mfg. Inc.

PROPELLANTS, LIQUID ROCKET

Air Products, Inc.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
 Allied Chemical Corp., General Chemical Div.
 Allied Chemical Corp., Nitrogen Div.
 American Potash & Chemical Corp., National Northern Div.
 Becco Chemical Div.-Food Machinery & Chemical Corp.
 Bermite Powder Co.
 Callery Chemical Co.
 Cerium Metals & Alloys Div.-Ronson Metals Corp.
 Chlor-Alkali Div.-Food Machinery & Chemical Corp.
 FMC Chlor-Alkali Div.
 Food Machinery & Chemical Corp., Ordnance Div.
 Foster Wheeler Corp.
 General Electric Co., Rocket Engine Section
 Hughes Tool Co., Aircraft Div.
 Hummel Chemical Co., Inc.
 Liquid Carbonic Div.-General Dynamics Corp.
 *MARTIN CO., THE, DENVER DIV.
 Monsanto Chemical Co.
 National Cylinder Gas, Div.-Chemetron Corp.
 Olin Mathieson Chemical Corp., N. Y.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Pennsalt Chemicals Corp.
 Rocketdyne Div.-North American Aviation, Inc.
 Shell Chemical Co., Indsl. Chemical Div.
 Southwest Research Institute
 Standard Steel Corp., Cambridge Div.
 Stauffer Chemical Co.
 United Technology Corp.

PROPELLANTS, SOLID ROCKET

*AEROJET-GENERAL CORP.
 Allied Chemical Corp., Nitrogen Div.
 Amcel Propulsion Inc.
 American Latex Products Corp.
 American Potash & Chemical Corp., National Northern Div.
 American Rocket Co.
 Amoco Chemicals Corp.
 Atlantic Research Corp.
 Beckman & Whitley, Inc., Missile Products Div.
 Bermite Powder Co.
 Callery Chemical Co.
 Cerium Metals & Alloys Div.-Ronson Metals Corp.
 Chlor-Alkali Div.-Food Machinery & Chemical Corp.
 Continental Aviation & Engrg. Corp.
 Food Machinery & Chemical Corp., Epoxy Dept.
 Food Machinery & Chemical Corp., Ordnance Div.
 Gabriel Co., Rocket Power-Talco
 General Electric Co., Rocket Engine Section
 B. F. Goodrich Aviation Products
 Grand Central Rocket Co.
 Hercules Powder Co., Chemical Propulsion Div.
 Hughes Tool Co., Aircraft Div.
 Hummel Chemical Co., Inc.
 Lockheed Aircraft Corp., Missiles & Space Div.
 Mc Cormick Selph Associates
 Olin Mathieson Chemical Corp., N. Y.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.

Pennsalt Chemicals Corp.
 Propellax Chemical Div., Chromalloy Corp.
 Rocketdyne Div.-North American Aviation, Inc.
 Solid Propulsion Ops., Rocketdyne Div., North American Aviation
 Southwest Research Institute
 Standard Oil Co. of Indiana
 Stauffer Chemical Co.
 Topper Mfg. Co., Inc.
 United States Rubber Co.
 United Technology Corp.

PULSION SYSTEMS

*AEROJET-GENERAL CORP.
 Allison Div., General Motors Corp.
 Amcel Propulsion Inc.
 American Rocket Co.
 Arde-Portland, Inc.
 Atlantic Research Corp.
 Bell Aircraft Corp., Niagara Frontier Div.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Bermite Powder Co.
 Clevite Ordnance, Div.-Clevite Corp.
 Continental Aviation & Engrg. Corp.
 Cosmic Instruments Inc.
 Joe Davidson & Associates
 Douglas Aircraft Co., Inc.
 Food Machinery & Chemical Corp., Ordnance Div.
 Gabriel Co., Rocket Power-Talco
 General Electric Co., Rocket Engine Section
 B. F. Goodrich Aviation Products
 Grand Central Rocket Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 B. H. Hadley, Inc.
 Hercules Powder Co., Chemical Propulsion Div.
 High Voltage Engr. Corp.
 Lithium Corp. of America Inc., The Fulton-Irton Div.
 Lockheed Aircraft Corp., Missiles & Space Div.
 *MARTIN CO., THE, DENVER DIV.
 Mc Cormick Selph Associates
 Napier Engines Inc.
 Northrop Corp.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Pesco Products Div.-Borg-Warner Corp.
 Pratt & Whitney Aircraft Div., United Aircraft Corp.
 Propellax Chemical Div., Chromalloy Corp.
 Republic Aviation Corp., Missile Systems Div.
 Rocketdyne Div.-North American Aviation, Inc.
 Solid Propulsion Ops., Rocketdyne Div., North American Aviation
 Southwest Research Institute
 Standard Steel Corp., Cambridge Div.
 Temco Aircraft Corp.
 United States Rubber Co.
 United Technology Corp.
 Western Gear Corp.-Precision Products Div.
 Young Development Div., Hercules Powder Co.

PSYCHOGALVANOMETERS

Electro-Medical Lab., Inc.
 U. S. Plastic Molding Corp.
 *Yellow Springs Instrument Co., The

PSYCHROMETERS

General Scientific Equipment Co.
 E. Vernon Hill & Co.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Palmer Thermometers, Inc.
 Southwest Research Institute
 Universal Dynamics Corp.

PUBLIC ADDRESS SYSTEMS

Blonder-Tongue Labs. Inc., Special Products Div.
 Du Kane Corp.
 Executone, Inc.
 Fla. Aircraft Radio & Marine
 Gates Radio Co.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Madigan Corp.
 *MARTIN CO., THE, DENVER DIV.
 M. V. Palmer, Inc.
 J. J. Powers Co.
 Specialty Electronics Development Corp.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Sun Electric Corp., Aeronautical Div.

PULSATION CONTROL

Auto-Control Labs. Inc.
 Southwest Research Institute
 Task Corp.

PUMPS

a. Air
 b. Alcohol
 c. Booster
 d. Combination Air & Hydraulic

e. Fuel
 f. Hydraulic, Fixed Displacement
 g. Hydrogen Peroxide
 h. Liquid Nitrogen
 i. Liquid Oxygen
 j. Metering
 k. Oil
 l. Oxygen Transfer
 m. Pneumatic
 n. Speed Density Metering
 o. Transfer
 p. Turbine
 q. Vacuum
 r. Water Injection
 s. Wobble

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS, e, q.

ACF Industries Inc., o, b, e, k, m, q, r.
 Adel Precision Products of Calif., Div.-General Metals Corp., b, c, e, f, k, o, p, r, s.

*AEROJET-GENERAL CORP., e, g, h, l.

Agricultural Aviation Engineering Co. Inc., b, c, o, r.
 Air Products, Inc., h, i.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc., h, i.

Aircraft Accessory Turbine Dept.-General Electric Co., c, e, f, i, p.

*AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP., o, d, h, i, m, p, r.

Also Engr. Corp., b, c, e, k, a.
 American Brake Shoe Co., f.

American Brake Shoe Co., Kellogg Div., f, k.
 American Instrument Co., Inc., a, c, d, f, j, l, m, a, q.

Applied Dynamics Corp., o, f, k, m, q.
 Associated Control Equipment, Inc., j, m.
 Associated Engrg. & Mfg. Corp., q.

Basic Tool Industries, Inc., i.
 Beach-Russ Co., o, c, q.

Bell & Gossett Co., Marlow Pumps Div., b, c, e, k, o.
 Bendix Aviation Corp., a, b, c, e, thru i, k, m, p, r.

*BENDIX AVIATION CORP., HAMILTON DIV., e, f, g, j, k, n, o.

*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., e, g, n, r.
 Bendix Utica Div., Bendix Aviation Corp., o, b, c, e, f, g, j, k, m, p, q, r.

Binks Mfg. Co., o.
 Blackmer Pump Co., k, a.

Bowser Inc., Defense Div., j.
 Byron Jackson Pumps, Inc., b, e, g, h, i, k, l, o, p.

Carson Mach & Supply Co., c, d, k.
 J. C. Carter Co., The, b, c, e, g, h, i, l, o, r.
 Central Scientific Co., q.

Chempump Div., Fostoria Corp., c, e, g, h, i, k, o.
 Christie Machine Works, c, e.

Clark Bros. Co., Div.-Dresser Operations, Inc., a, q.
 Clark Equipment Co., f.

*CONSOLIDATED ELECTRODYNAMICS CORP., q.

Consolidated Vacuum Corp., q.
 Cornelius Co., The, Aero Div., o, d, f, m, q.
 Curtiss-Wright Corp., Santa Barbara Div., e, j, m, p, r.

Joe Davidson & Associates, e, k, o.
 Deming Co., The, k, a, p, s.

Denison Engrg. Div., American Brake Shoe Co., d, f.
 Eastern Industries Inc., o, b, c, e, f, k, m, o, thru r.

Eco Engrg. Co., b, g, h, j.
 Edwards High Vacuum Ltd., c, q.

Fischer & Porter Co., j.
 Fisher Scientific Co., Maryland, q.
 Fuller Co., o, q.

Futurecraft Corp., c.
 Gardner-Denver Co., a, m, o, q.

Garwin, Inc., o, e, q.
 Gar Wood Industries Inc., f, s.

General Electric Co., Apparatus Sales Div., c, p.
 General Electric Co., Rocket Engine Section, b, e, i.
 General Vacuum Corp., q.

Genisco, Inc., f.
 Gorman-Rupp Co., The, o.

Goulds Pumps Inc., b, c, e, g, h, i, k, l, o, r.
 Great Lakes Mfg. Corp., o, b, d, e, f, h, k, m, o, q, r.
 Hamilton Standard Div.-United Aircraft Corp., e, f.

Harman Equipment Co., e, k.
 Haskel Engrg. & Supply Co., o, c, thru m, q, s.

Hevi-Duty Electric Co., Div.-Basic Products Corp., q.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., q.

Highland Engrg. Co., c.
 Hills-Mc Canna Co., j.

A. F. Holden Co., The, k.
 Joy Mfg. Co., q.
 Joseph Kaye & Co., d.

Kemp Aero Products, e, f.
 Kerns Mfg. Corp., b, c, f, j, q.
 Kobe Inc., f, k.
 Lopp Insulator Co., Inc., Radio Specialties Div., j.

Lawrence Pumps Inc., e, g, h, i, l.
 Lear, Inc., o, thru m, o, thru s.

Ledeon Inc., d.
 Leiman Brothers, Inc., a, c, q.
 Linde Co., Div.-Union Carbide Corp., h, i.
 Litton Engr. Labs., q.
 M. C. Mfg. Co., a, e.
 M-D Blowers, Inc., a, m, q.
 Marquardt Corp., The, d, e, m.
 McGregor Mfg. Corp., h, i.
 Mico Instrument Co., q.
 National Water Lift Co., Div.-Cleveland Pneumatic Industries Inc., c, f, r.
 Nelson Vacuum Pump Co., q.
 New York Air Brake Co., The, Watertown Div., f.
 Newton Hydraulic Tooling Co., d, f.
 W. H. Nichols Co., f, j, k.
 Northern Ordnance Inc., Sub.-Northern Pump Co., c, e, f, j, k.
 Oil-Dyne, Inc., f.
 Owatonna Tool Co. Precision Hydraulic Div., f.
 Oxygen Equipment & Service Co., q.
 Peerless Pump Div., Food Machinery & Chemical Corp., e, g, i, k, p, r.
 Pesco Products Div.-Borg-Warner Corp., a, c, e, f, h, i, a, q, r.
 Richard Philip Co., d.
 Prot & Whitney Aircraft Div., United Aircraft Corp., p.
 Protectoseal Co., The, b, e, k, a.
 Pryor Mfg. Co., b, e, r.
 Pyles Industries, Inc., f, j, a.
 Quincy Compressor Co., q.
 Redo Pump Co., c, k, m, p, r.
 Republic Mfg. Co., f, j, k, s.
 Resitron Labs., Inc., q.
 J. R. Robbins Co., f thru i.
 Rocketdyne Div.-North American Aviation, Inc., e, g, h, i.
 Milton Roy Co., d, j.
 Rucker Co., The, c.
 Ruthman Machinery Co., The, k.
 S & G Mfg. Corp., a, m, r.
 Sargent Engr. Corp., f.
 Sier-Bath Gear & Pump Co., Inc.
 Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp., d, m.
 A. O. Smith Corp., Smith-Erie Div., j.
 Solor Aircraft Co., p.
 South Wind Div., Stewart Warner Corp., e.
 Southwest Research Institute, b, c, e, a, r.
 Southwestern Industries, Inc.
 Standard Steel Corp., h, i, l, a.
 Standard Steel Corp., Cambridge Div., e, g, h, i, l.
 Stewart-Warner Corp., Alemitie Div., c, q.
 F. J. Stokes Corp., a.
 Stratots, Div.-Fairchild Engine & Airplane Corp., b thru l, a, p, r.
 Sundstrand Turbo, i.
 Superior Air Products Co.
 Tapco Group, Thompson Romo Wooldridge Inc., c, e, h, i, a, p, r.
 Task Corp., a, b, c, e, h, j, m, a.
 Temperature Engr. Corp., q.
 Thompson Romo Wooldridge Inc., c, e, h, i, a, p, r.
 United Aircraft Products, Inc., s.
 United States Steel Corp., e.
 Vacuum Specialties Co., Inc., q.
 Vanton Pump & Equipment Corp., a.
 Veeco Vacuum Corp., q.
 Vickers Inc., f.
 Vickers Inc., Div.-Sperry Rand, c, e, f.
 Vickers, Inc., Mich., d, e, f, j, k, a.
 Viking Pump Co., b, c, e, f, j, k, a.
 Wolloce & Tiernan Inc., j.
 Wayne Pump Co., The, Div.-Symington Wayne Corp., e, m.
 *WEATHERHEAD CO., THE, d, f, m.
 W. M. Welch Scientific Div., W. M. Welch Mfg. Co., a, q.
 Wells Industries Corp., c.
 Western Design, Div.-U. S. Industries, Inc., c, d, f.
 Whittaker Controls, Div.-Telecomputing Corp., e.
 Worthington Corp., a, c, d, f thru i, k, l, m, a, p, q.

PUNCH PRESSES

Acromark Co., The
 Amerac Inc.
 California Stamping & Mfg. Co.
 Carl Hirschmann Co., Inc.
 Niagara Machine & Tool Works
 Oliver Corp., The-A. B. Farquhar Div.
 Rotex Punch Co., Inc.
 Joseph T. Ryerson & Son, Inc.
 F. J. Stokes Corp.
 U. S. Industries, Inc.
 Woless Strippit Inc., Unit of Houdaille Industries, Inc.
 Whitney Metal Tool Co.
 Wiedemann Machine Co.

PUNCHES

*ACE DRILL BUSHING CO. INC.

H. D. Allen Mfg.
 Allied Products Corp.
 Cyril Bath Co., The
 Bergen Corbide Co.
 Billings & Spencer Co., The
 Custom Tool & Mfg. Co.
 M. A. Ford Mfg. Co., Inc.
 G-C Electronics Co.
 Henry & Miller Industries, Inc.
 Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Owatonna Tool Co. Precision Hydraulic Div.
 Proto Tool Co.
 Rotex Punch Co., Inc.
 Joseph T. Ryerson & Son, Inc.
 Squiers Gage Co.
 U. S. Industries, Inc.
 Vlchek Tool Co.
 Wales Strippit Inc., Unit of Houdaille Industries, Inc.
 Whitney Metal Tool Co.
 Wiedemann Machine Co.

PYROMETERS, OPTICAL

Blonder-Tongue Labs. Inc., Special Products Div.
 Eisler Engr. Co., Inc.
 Engelhard Industries, Inc.
 Epic, Inc.
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 Instrument Development Labs., Inc.
 Leeds & Northrup Co.
 Pyrometer Instrument Co., Inc.
 Pyrotector Inc.

PYROMETERS, RADIATION

Blonder-Tongue Labs. Inc., Special Products Div.
 *BRISTOL CO., THE
 Epic, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Pyrometer Instrument Co., Inc.

PYROMETERS, RESISTANCE

Blonder-Tongue Labs. Inc., Special Products Div.
 *BRISTOL CO., THE
 Fisher Scientific Co.
 Fisher Scientific Co., Maryland
 General Controls Co.
 General Electric Co., Apparatus Sales Div.
 Gray Instrument Co.
 Illinois Testing Laboratories, Inc.
 Leeds & Northrup Co.
 *LEWIS ENGRG. CO., THE
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Pyrometer Instrument Co., Inc.
 Rosemount Engrg. Co.
 Technique Associates Div., Duncan Electric Co., Inc.
 Temperature Engr. Corp.
 Thermo Electric Co., Inc.

QUARTZ, FUSED

Associated Engr. & Mfg. Corp.
 Brom Metallurgical Chemical Co.
 Corning Glass Works
 Dell Optics Co., Ltd.
 Diamond Drill Carbon Co., The
 Emerson & Cuming, Inc.
 Engelhard Industries, Inc.
 *ENGIS EQUIPMENT CO.
 General Electric Co., Lamp Glass Dept.
 Hammett-Mercury-Rax Div.
 Mico Fabricating Co.
 Monsanto Chemical Co.
 Quartzite Processing Inc.
 Republic Lens Co., Inc.
 Semi-Elements, Inc.
 Sheridan-Gray, Inc.
 Thermal American Fused Quartz Co., Inc.
 Topper Mfg. Co., Inc.
 Ultra-Violet Products, Inc.
 Westinghouse Electric Corp.
 Zenith Optical Laboratory

RACKS

a. Cabinet
 b. Disc Storage
 c. Equipment
 d. Mounting & Relay
 A & E Metal Specialties Inc., c.
 A&P Metal Products Mfg. Corp., a.
 Abalon Precision Mfg. Corp., a, d.
 Aerocal Div., Aeronca Mfg. Corp., a, c.
 Albano Co., Inc.
 Alden Products Co., a, d.
 Allied Plastics Supply Corp., d.
 Alptec, Inc., a thru d.
 Amco Engrg. Co., a, c, d.
 American Beryllium Co., a, d.
 American Conveyor Co.

Anchor Specialty Mfg. Co. Inc., a, c, d.
 Arch Gear Works Inc.
 Arison Metal Works Co., a, c, d.
 Associated Co., Inc., d.
 Borrett-Cravens Co., b, c.
 Basic Tool Industries, Inc., a.
 Benson Mfg. Co., a, c.
 Bethlehem Steel Co., b, c.
 Binkley Co., The
 S. Blickman, Inc., a, c, d.
 Brooks & Perkins, Inc., a, c, d.
 Brunswick Balke Collender Co., The, Defense Products Div., c.
 Bud Radio, Inc., a, d.
 Burr-Brown Research Corp., c.
 Butler Mfg. Co.
 Colcor Corp., a thru d.
 California Stamping & Mfg. Co., a.
 Albert H. Cayne Equipment Corp., a, c.
 Clark Equipment Co., c.
 Collins Radio Co., a.
 Colonial Aircraft Corp., a, c, d.
 Computer Systems, Inc., d.
 Canrad & Moser, a, c, d.
 Craig Systems, Inc., c, d.
 Cutler Metal Products Co., a thru d.
 Dahlstrom Metallic Door Co., a, c, d.
 Daystrom, Inc., Military Electronics Div., a, d.
 Deluxe Metal Products Co., a, b, c.
 Devco Engr. Inc., a, c.
 Donnelly Mfg. Co., a.
 Dudwallen Mfg. Co., Inc., The, a thru d.
 Electronic Engr. Co. of California, d.
 Eljoy Corp.
 Elzee Metal Products Co., Inc., a thru d.
 Falstrom Co., a, c, d.
 Farwell Metal Fabricating, a thru d.
 Fouch Electric Mfg. Co., Inc., a.
 Gotes Radio Co., a, b, c.
 General Metal Products Co., a, c, d.
 Gramm Trailer Corp., c.
 Gremco, Inc., a.
 Halliburton, Inc., Mfg. Div., a, b.
 Hoffman Engr. Corp., a.
 Ludwig Harold Mfg. Co., a.
 Hughes Tool Co., Aircraft Div., a, c, d.
 Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
 Intercontinental Mfg. Co., Inc., c, d.
 Kellogg Aircraft Corp., a, d.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., d.
 Kirk & Blum Mfg. Co., The, a, d.
 *LAVELLE AIRCRAFT CORP., c.
 Lostrand Co., The, a, c.
 R. H. Lynch Mfg. Co., a, d.
 Lyon Metal Products, Inc., a, b, c.
 MEG Products, Div.-Mandrel Industries, Inc., a, c, d.
 *MARTIN CO., THE, DENVER DIV., a, c, d.
 Mechanical Handling Systems Inc., c.
 Metal Fabricators Corp., a.
 Mid-West Metal Products, Inc., a thru d.
 Muckle Mfg. Co., a, c.
 Northeast Metals Industries, Inc., a, c, d.
 Northeastern Engr. Inc., a, c.
 Nutron Mfg. Co., Inc., a, d.
 P. B. R. Mfg. Co., a thru d.
 Philips & Davies Inc., a thru d.
 Piasecki Aircraft Corp., a thru d.
 Pneumafil Corp., a, c, d.
 Portland Copper & Tank Works Inc., a thru d.
 Premier Metal Products Co., a, c, d.
 REF Mfg. Corp., a thru d.
 Rodio City Products Co., Inc., c, d.
 Rapids-Standard Co., Inc., The, c.
 Ravenna Metal Products, Div.-Standard Screw Co., a thru d.
 Republic Steel Corp., a, b, c.
 Rimak, Inc., a thru d.
 H. M. Scott Co., The, a thru d.
 Skydyne, Inc.
 Stackbin Corp., a, d.
 Standard Electronics Div.-Reeves Instrument Corp.
 Standard Pressed Steel Co., a.
 Taffel Electronics, Inc., c.
 Technical Material Corp., The, a, c.
 Temco Aircraft Corp., a, c.
 Twin Coach Co., Aircraft-Missiles, c.
 Unified Industries, Inc., a, c, d.
 United Aircraft Products, Inc., a, c.
 United States Chemical Milling Corp., a, c, d.
 United States Instrument Corp., a, c, d.
 Waiber Aircraft Corp., a.
 Walls Industries Corp., a, c, d.
 Albert Weasing & Sons Inc., c.
 Western Devices Inc., a.
 Westholt Mfg. Inc., a.
 Wickes Engr. & Construction Co., a, c.
 Winder Aircraft Corp. of Florida, a thru d.
 Wolverine Diesel Power Co., a, d.
 Wyco Metal Products, a, d.

RADAR, AIRBORNE

Admiral Corp.
Advance Industries, Inc.
Aeronca Mfg. Corp.-Aerospace Div.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Airtron, Div.-Liton Industries
Allied International Corp.
American Machine & Foundry Co., Government Products, N. Y.
American Tradair Corp.
Autonetics, Div.-North American Aviation, Inc.
Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Broadview Research Corp.
Budd Lewyt Electronics, Inc.
Cameralex Div., The, Federal Mfg. & Engrg. Corp.
Chance Vought Aircraft, Inc.
Collins Radio Co.
Dalmo Victor Co., Div.-Textron, Inc.
Daystrom, Inc., Military Electronics Div.
***DEL MAR ENGRG. LABS.**
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Emerron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
GPI Div.-General Precision, Inc.
Gabriel Co., The, Gabriel Electronics Div.
General Bronze Electronics Corp.
General Electric Co., Light Military Electronics Dept.
General Instrument Corp., Defense & Engrg. Products Group
Giffillan Bros. Inc.
Goodyear Aircraft Corp.
Gorham Electronics Div.-Gorham Mfg. Co.
Gray Mfg. Co., The
Guided Missile Div., The Firestone Tire & Rubber Co.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
Lab. for Electronics, Inc.
Lear, Inc.
Liton Industries, Inc.
Liton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Lockheed Electronics Co., Stavid Div.
W. L. Maxson Corp., The
Moran Instrument Corp.
Motorola, Inc.
National Co., Inc.
Norden Div., United Aircraft Corp.
Philco Corp.-Govt. & Industrial Group
RS Electronics Corp.
Radalab Inc.
Radiation, Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Republic Aviation Corp., Missile Systems Div.
Sanders Associates, Inc.
Specialty Electronics Development Corp.
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Stewart-Warner Electronics Div.
Strand Engrg. Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Sun Electric Corp., Aeronautical Div.
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc.
TRG, Inc.
Texas Instruments, Inc.

RADAR BEACONS

ACF Electronics Div., ACF Industries Inc.
ACF Industries Inc.
Admiral Corp.
Advance Industries, Inc.
Aeronca Mfg. Corp.-Aerospace Div.
Airtron, Div.-Liton Industries
Aerac Inc.
American Machine & Foundry Co., Government Products, N. Y.
American Machine & Foundry Co., Greenwich Engrg. Div.
Applied Electronics Corp. of N. J.
Avien, Inc.
Beacon Steel Corp.
Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Broadview Research Corp.
Budd Lewyt Electronics, Inc.
Chance Vought Aircraft, Inc.
Dalmo Victor Co., Div.-Textron, Inc.
Daystrom, Inc., Military Electronics Div.
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.

Eastman Kodak Co.
Emerron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Ferratron Electronics Co., Inc.
Gabriel Co., The, Gabriel Electronics Div.
General Communication Co.
General Devices, Inc.
General Electric Co., Light Military Electronics Dept.
General Electric Co., Missile & Space Vehicle Dept., Pa.
General Instrument Corp., Defense & Engrg. Products Group
Giffillan Bros. Inc.
Guided Missile Div., The Firestone Tire & Rubber Co.
Hallamore Electronics Co., Div.-Sieglar Corp.
Hallcrafters Co., The
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
J.-V.M. Microwave Co.
Lear, Inc.
Lel, Inc.
Liton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Lockheed Electronics Co., Stavid Div.
W. L. Maxson Corp., The
Moran Instrument Corp.
Motorola, Inc.
National Co., Inc.
Packard-Bell Electronics Corp.
Philco Corp.-Govt. & Industrial Group
Production Research Corp., Sub.-Radio Condenser Co.
RS Electronics Corp.
Radalab Inc.
Radio City Products Co. Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Rantec Corp.
Resdel Engrg. Corp.
Special Products Dept., Melpar, Inc.
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Stewart-Warner Electronics Div.
Stromberg-Carlson Div.-General Dynamics Corp.
TRG, Inc.
Tamar Electronics, Inc.
Telectro Industries Corp.
Telrad Mfg. Corp.
Texas Instruments, Inc.

RADAR, PRECISION APPROACH

Advance Industries, Inc.
American Machine & Foundry Co., Government Products, N. Y.
American Machine & Foundry Co., Greenwich Engrg. Div.
Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Broadview Research Corp.
Budd Lewyt Electronics, Inc.
Daystrom, Inc., Military Electronics Div.
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.
Emerron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
General Instrument Corp., Defense & Engrg. Products Group
Giffillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
Lab. for Electronics, Inc.
Liton Industries, Maryland Div.
Motorola, Inc.
National Co., Inc.
Philco Corp.-Govt. & Industrial Group
Radalab Inc.
***RADIO CORP. OF AMERICA**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Stewart-Warner Electronics Div.
Stromberg-Carlson Div.-General Dynamics Corp.
TRG, Inc.

RADAR, SURVEILLANCE

Advance Industries, Inc.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
American Machine & Foundry Co., Government Products, N. Y.
Autometric Corp.
Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Broadview Research Corp.
Budd Lewyt Electronics, Inc.
CBS Laboratories, Div.-Columbia Broadcasting System

Chance Vought Aircraft, Inc.
Dalmo Victor Co., Div.-Textron, Inc.
Daystrom, Inc., Military Electronics Div.
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.
Eastman Kodak Co.
Emerron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Foto-Video Labs., Inc.
Gabriel Co., The, Gabriel Electronics Div.
General Electric Co., Heavy Military Electronics Dept.
General Electric Co., Light Military Electronics Dept.
General Electric Co., Ordnance Dept.
General Instrument Corp., Defense & Engrg. Products Group
General Mills, Inc.
Giffillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
Intercontinental Electronics Corp.
Lab. for Electronics, Inc.
Liton Industries, Maryland Div.
Lockheed Electronics Co., Stavid Div.
W. L. Maxson Corp., The
Miller Associates
Motorola, Inc.
National Co., Inc.
Philco Corp.-Govt. & Industrial Group
Radalab Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Reeves Instrument Corp.
Sanders Associates, Inc.
Sperry Gyroscope Co., Div.-Sperry Rand Corp.
Strand Engrg. Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc.
TRG, Inc.
Texas Instruments, Inc.
Thompson Ramo Wooldridge, Inc.
Westinghouse Electric Corp.

RADAR TEST SETS

Admiral Corp.
Advance Industries, Inc.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Aircor Inc.
Aircraft Armaments, Inc.
Airtron, Div.-Liton Industries
Allied International Corp.
Aerac Inc.
American Machine & Foundry Co., Government Products, N. Y.
Applied Electronics Corp. of N. J.
Belock Instrument Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix-Pacific Div., Bendix Aviation Corp.
Broadview Research Corp.
Bruno-New York Industries Corp.
Budd Lewyt Electronics, Inc.
Cameralex Div., The, Federal Mfg. & Engrg. Corp.
Chance Vought Aircraft, Inc.
Chemalloy Electronics Corp.
Dalmo Victor Co., Div.-Textron, Inc.
Daystrom, Inc., Military Electronics Div.
***DEL MAR ENGRG. LABS.**
Designers for Industry, Inc.
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Allen B. Du Mont Labs., Inc.
Dunn Engrg. Associates, Inc.
Dynatronics, Inc.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Electron-Radar Products
Emerron, Sub.-Emerson Radio & Phonograph Corp.
Empire Products Sales Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Foto-Video Labs., Inc.
GPI Div.-General Precision, Inc.
General Communication Co.
General Instrument Corp., Defense & Engrg. Products Group
General Mills, Inc.
Giffillan Bros. Inc.
Gray Mfg. Co., The
Hallamore Electronics Co., Div.-Sieglar Corp.
Hazeltine Electronics Div.-Hazeltine Corp.
Huyck Systems Co.
ITT Federal Div., International Telephone & Telegraph Corp.

J. V. M. Microwave Co.

*KEARFOTT DIV., GENERAL PRECISION, INC.

*KEARFOTT DIV., GENERAL PRECISION, INC.,
MICROWAVE PRODUCTS

Lab. for Electronics, Inc.

Levinthal Electronic Products, Inc.

Lieco, Inc.

Litton Industries, Maryland Div

Lockheed Electronics Co., Stavrid Div.

Madigan Corp.

Marconi Instruments

W. L. Maxson Corp., The

Motorola, Inc.

Narda Microwave Corp., The

National Co., Inc.

Phico Corp.-Govt. & Industrial Group

Pitometer Log Corp.

Polarad Electronics Corp.

RS Electronics Corp.

Radalab Inc.

Radiation, Inc.

Radio City Products Co. Inc.

*RADIO CORP. OF AMERICA

*RADIO CORP. OF AMERICA, DEFENSE ELECTRON-
ICS PRODUCTS

Radio Receptor Co., Inc., Sub.-General Instrument
Corp.

Ramo-Woolridge, Div.-Thompson Ramo Wool-
ridge Inc.

Reeves Instrument Corp.

Resdel Engrg. Corp.

Specialty Electronics Development Corp.

Spectra Electronics Corp.

Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp.

Stewart-Warner Electronics Div

Stromberg-Carlson Div.-General Dynamics Corp.

Sun Electric Corp., Aeronautical Div

TRG, Inc.

Taffet Electronics, Inc.

Telectro Industries Corp.

Texas Instruments Inc.

Westinghouse Electric Corp.

General Electric Co., Apparatus Sales Div.

High Voltage Engrg. Corp

International Electronic Research Corp.

Interstate Electronics Corp.

Isotopes Specialties Co., Div.-Nuclear Corp. of
America

Moran Instrument Corp.

NUMEC-Nuclear Materials & Equipment Corp.

Nuclear-Chicago Corp.

Ohmart Corp., The

Patterson Moos Research, Div.-Leeson Corp.

Portland Copper & Tank Works Inc.

Radiation Instrument Development Lab., Inc.

*RADIO CORP. OF AMERICA

Ray Pool Corp.

Strand Engrg. Co.

Telechrome Mfg. Corp.

Tracerlab Inc.

United States Radium Corp.

Victoreen Instrument Co.

Westinghouse Electric Corp.

RADIATORS

Allied International Corp.

Budd Lewyt Electronics, Inc.

Modine Mfg. Co.

Northrop Corp.

United Aircraft Products, Inc.

Wakefield Engrg., Inc.

RADIATORS, COOLANT

Allied International Corp.

Budd Lewyt Electronics, Inc.

Griscom-Russell Co., The

*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON

FEARLESS CORP.

Kentucky Metal Products Co.

Southwest Research Institute

Standard-Thomson Corp., Clifford Mfg. Co. Div

Worthington Corp.

RADIATORS, ENGINE-COOLING

Allied International Corp.

Blackstone Corp.

Budd Lewyt Electronics, Inc.

Griscom-Russell Co., The

Kentucky Metal Products Co.

Modine Mfg. Co.

Southwest Research Institute

Standard-Thomson Corp., Clifford Mfg. Co. Div.

United Aircraft Products, Inc.

RADIATORS, OIL-COOLING

Allied International Corp.

Budd Lewyt Electronics, Inc.

Griscom-Russell Co., The

Kentucky Metal Products Co.

Modine Mfg. Co.

South Wind Div., Stewart Warner Corp.

Standard-Thomson Corp., Clifford Mfg. Co. Div.

United Aircraft Products, Inc.

York Div., Borg-Warner Corp.

RADIO COMPASS INDICATORS

Allied International Corp.

Bendix Aviation Corp.

A. Biederman, Inc.

Bruno-New York Industries Corp

Camelflex Div., The Federal Mfg. & Engrg. Corp.

Collins Radio Co.

Courier Products, Div. Model Engrg. & Mfg., Inc.

Eclipse-Pioneer Div.-Bendix Aviation Corp.

Lear, Inc.

Motorola, Inc.

National Co., Inc.

Radalab Inc.

RADIO DIRECTION FINDERS

ACF Industries Inc.

Allied International Corp.

Bendix Aviation Corp.

Budd Lewyt Electronics, Inc.

Collins Radio Co.

Control Electronics Co., Inc.

Dorne & Margolin, Inc.

Emertron, Sub.-Emerson Radio & Phonograph Corp.

*EQUIPMENT DIV., RAYTHEON CO.

Fla Aircraft Radio & Marine

General Electric Co., Heavy Military Electronics
Dept.

General Instrument Corp., Defense & Engrg Products
Group

Hoover Electronics Co.

ITT Federal Div., International Telephone & Tele-
graph Corp.

Intercontinental Electronics Corp

Lear, Inc.

Litton Industries, Maryland Div.

Madigan Corp.

Motorola, Inc.

Munston Electronic Mfg. Corp.

National Co., Inc.

Phico Corp.-Govt. & Industrial Group

Radalab Inc.

*RADIO CORP. OF AMERICA

*RADIO CORP. OF AMERICA, DEFENSE ELECTRON-
ICS PRODUCTS

Radio Receptor Co., Inc., Sub.-General Instrument
Corp.

Schaevitz Engrg.

Simmonds Aerocessories, Inc.

Southwest Research Institute

Specialty Electronics Development Corp.

Sperry Piedmont Co., Div.-Sperry Rand Corp.

Stewart-Warner Electronics Div.

RADIOACTIVITY EQUIPMENT

American Machine & Foundry Co., Government
Products, N. Y.

Bendix Aviation Corp.

Bendix Aviation Corp., Cincinnati Div.

Budd Co., The

Eberline Instrument Corp.

Emertron, Sub.-Emerson Radio & Phonograph Corp.

Flight Refueling, Inc.

Instrumentation Associates, Inc.

Instrument Div., The Budd Co.

Interstate Electronics Corp.

Isotopes Specialties Co., Div.-Nuclear Corp. of
America

NUMEC Nuclear Materials & Equipment Corp.

Nuclear Measurements Corp.

Nuclear-Chicago Corp.

Ohmart Corp., The

Radiation Instrument Development Lab., Inc.

St. John X Ray Laboratory

Telechrome Mfg Corp

Tracerlab Inc.

United States Radium Corp.

Westinghouse Electric Corp.

RADIOSONDES

Bendix Aviation Corp.

*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.

Budd Lewyt Electronics, Inc.

CBS Laboratories, Div.-Columbia Broadcasting
System

Chance Vought Aircraft, Inc.

Emertron, Sub.-Emerson Radio & Phonograph Corp.

General Instrument Corp., Defense & Engrg. Pro-
ducts Group

Halicrafters Co., The

ITT Federal Div., International Telephone & Tele-
graph Corp.

Molded Insulation Co.

Motorola, Inc.

National Co., Inc.

Piasecki Aircraft Corp.

Radalab Inc.

*RADIO CORP. OF AMERICA

Radio Receptor Co., Inc., Sub.-General Instrument
Corp

Southwest Research Institute

TRG, Inc.

Telechrome Mfg Corp

RADOMES

Allied International Corp.

American Agile Corp.

American Insulator Corp.

*ANDREW CORP.

Atkins & Merrill, Inc.

Bendix Aviation Corp.

Birdair Structures, Inc.

Carborandum Co., The

Chance Vought Aircraft, Inc.

Coors Porcelain Co.

Corning Glass Works

Craig Systems, Inc.

Dalmo Victor Co., Div.-Textron, Inc.

C. R. Daniels, Inc.

Dayton Rubber Co., The

Debell & Richardson Inc.

Diamond Antenna & Microwave Corp

Doyle & Margolin, Inc.

Dura Plastics of N. Y., Inc.

Duracote Corp.

Eliay Corp.

Eubanks Industries, Inc.

Gabriel Co., The, Gabriel Electronics Div.

Goodyear Aircraft Corp.

Honeycomb Co. of America, Inc.

*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON

FEARLESS CORP.

Irving Air Chute Co., Inc.

Kidde Aero-Space Div., Walter Kidde & Co., Inc.

H. Koch & Sons

Lamtex Industries Inc.

RADIATION DETECTORS

Advance Industries, Inc.

American Machine & Foundry Co., Government
Products, N. Y.

American Tradair Corp.

Bendix Aviation Corp.

Bendix Aviation Corp., Cincinnati Div

Corning Glass Works

Curiss-Wright Corp., Princeton Div.

Dejair Amco Corp., Electronic Sales Div.

Eastman Kodak Co.

Eberline Instrument Corp.

Emertron, Sub.-Emerson Radio & Phonograph Corp.

Empire Products Sales Corp.

General Electric Co., Missile & Space Vehicle Dept.,
Pa

Infrared Industries, Inc.

International Electronic Research Corp.

Interstate Electronics Corp.

Land Air Inc., Sub.-California Eastern Aviation, Inc

NUMEC-Nuclear Materials & Equipment Corp

Nuclear Development Lab.

Nuclear-Chicago Corp.

Ohmart Corp., The

Patterson Moos Research, Div.-Leeson Corp.

Philips Electronic Instruments

Piasecki Aircraft Corp.

Precision Radiation Instruments, Inc.

Radalab Inc.

Radiation Instrument Development Lab., Inc.

St. John X-Ray Laboratory

Sillicocks-Miller Co

Specialty Electronics Development Corp.

Sperry Microwave Electronics Co., Div.-Sperry Rand
Corp.

Strand Engrg. Co.

TRG, Inc.

Telechrome Mfg. Corp.

Tracerlab Inc.

Victoreen Instrument Co.

Westinghouse Electric Corp.

N. Wood Counter Lab.

RADIATION EQUIPMENT, NUCLEAR

American Electronics, Inc., Nuclear Div

American Machine & Foundry Co., Government
Products Group

American Machine & Foundry Co., Government
Products, N. Y.

Bendix Aviation Corp.

Bendix Aviation Corp., Cincinnati Div

Cadillac Plastic & Chemical Co.

Curiss-Wright Corp., Princeton Div

Eberline Instrument Corp.

Elorc, Inc.

Emertron, Sub.-Emerson Radio & Phonograph Corp.

Lone Star Plastics Co. Inc.
 Thomas J. Long, Inc.
 Lunn Laminates, Inc.
 Mc Millan Companies, The
 Mc Millan Lab., Inc.
***MINNESOTA MINING & MFG. CO.**
 Mycalex Corp. of America
 Narmco Mfg. Co.
 National Beryllia Corp.
 Norton Co., New Products Dept.
 Olympic Plastics Co., Inc.
 Parsons Corp., Special Products Div.
 Piasceki Aircraft Corp.
 Plastic Age Sales, Inc.
 Plastics Distributor of New England
 Prewitt Aircraft Co.
 REF Mfg. Corp.
***RADIO CORP. OF AMERICA**
 Reeves Bros. Inc., Vulcan Rubber Div.
 Republic Aviation Corp., Missile Systems Div.
 Seaman Products, Div.-Seaman Paper Co.
 Specialty Electronics Development Corp.
 Sperry Microwave Electronics Co., Div.-Sperry
 Rand Corp.
 Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.
 Stewart-Warner Electronics Div.
 Structural Fibers, Inc.
 TRG, Inc.
 H. I. Thompson Fiber Glass Co.
 Topper Mfg. Co., Inc.
 Twin Coach Co., Aircraft-Missiles
 United States Chemical Milling Corp.
 Universal Moulded Products Corp.
 Universal Unlimited, Inc.

REACTORS, SATURABLE

ACDC Electronics, Inc.
 American Research & Mfg. Corp.
 Atlas Engrg. Co. Inc.
 Beckman Instruments, Inc., Berkeley Div.
 Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION
 CORP.**
 CGS Labs., Inc.
 Carol Electronics Corp.
 Chicago Standard Transformer Corp.
 De Havilland Aircraft of Canada, Ltd., Special Pro-
 ducts Div.
 Dieco, Div.-Djordjevic Engrg. Co.
 Electro Engrg. Works
***EQUIPMENT DIV., RAYTHEON CO.**
 Fairchild Engrg. Corp.
 General Electric Co., Apparatus Sales Div.
 Donald C. Harder Co.
 George E. Harris & Co. Inc.
 Lab. For Electronics, Inc.
 Lear, Inc.
 Lumen, Inc.
 Penn-East Engrg. Corp.
 Southwestern Industrial Electronics Co.
 Standard Electronics Div.-Reeves Instrument Corp.
 Telex, Inc.
 Torwico Electronics, Inc.
 Transformer Design, Inc. of Milwaukee
 Tresco, Inc.
 Universal Toroid Coil Winding, Inc.
 Vari-I Co., Inc.
 Westinghouse Electric Corp.
 Wickes Engrg. & Construction Co.

READOUT DEVICES, COMPUTER

ACF Electronics Div., ACF Industries Inc.
 Advance Industries, Inc.
 Aeronca Mfg. Corp.-Aerospace Div.
 Aircraft Instruments Co.
 American Electronics, Inc.
 American Electronics, Inc., Toller-Cooper Div. &
 Data Systems Div.
 Ampex Data Products Co.
 Baird-Atomic, Inc.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Cincinnati Div.
 Benson-Lehner Corp.
 Bowmar Instrument Corp.
 Broadview Research Corp.
 Budd Lewyt Electronics, Inc.
 Burroughs Corp.
 Burroughs Corp., Electronic Tube Div.

Burton-Rodgers, Inc.
 Chance Vought Aircraft, Inc.
 Dutex Corp.
 Delco Radio Div.-General Motors Corp.
 Allen B. Du Mont Labs., Inc.
 Electro Instruments, Inc.
 Electronics Div.-The National Cash Register Co.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
 Gulton Industries, Inc.
 Huyck Systems Co.
 Industrial Electronic Engineers, Inc.
 Lab. For Electronics, Inc.
 Madigan Corp.
 Marco Industries Co.
 Milman Engrg. Co.
 Motorola, Inc.
 Non-Linear Systems, Inc.
 Northrop Corp.
 Pacific Optical Corp., Div.-Chicago Aerial Industries
 Packard Bell Computer Corp.
 Philco Corp.-Govt. & Industrial Group
 Potter Instrument Co., Inc.
 Precision Specialties, Inc.
***RADIO CORP. OF AMERICA**
 Servomechanisms, Inc.
 Special Products Dept., Melpar, Inc.
 Stewart-Warner Electronics Div.
 Tally Register Corp.
 Trio Laboratories, Inc.
 Wang Labs., Inc.
 Westinghouse Electric Corp.

RECEIVERS

o. AM & FM Communication
 b. AM Fixed Frequency
 c. Command, Guidance & Destruct
 d. Communication
 e. Direction Finding, Navigation
 f. Distance Measuring, Navigation
 g. Diversity
 h. Fixed Frequency
 i. FM
 j. FM Multiplex
 k. Frequency Shift
 l. Infrared
 m. Microwave
 n. Mobile
 o. Portable & Mobile
 p. Radar
 q. Radiation
 r. Radio, Hand Powered Emergency
 s. Radio, Navigation
 t. Remote Pickup, Fixed
 u. Selective Signalling, Navigation
 v. Short Wave, Fixed
 w. Short Wave, Portable
 x. Single Side Band
 y. Transistor Operated
 z. UHF
 a-l. VHF
 b-l. WWV
***AC SPARK PLUG, THE ELECTRONICS
 DIV.-GENERAL MOTORS, n.**
 ACF Electronics Div., ACF Industries Inc.,
 e, f, m.
 ACF Industries Inc., l, m.
 A. R. F. Products, Inc., m.
 Adler Electronics, Inc., d, m, z, a-l.
 Admiral Corp., p.
 Advance Industries, Inc., e, f, p.
***AEROJET-GENERAL CORP., l.**
 Aeronautical Electronics, Inc., a, b, h, i,
 n, o, z, a-l.
 Aeronca Mfg. Corp.-Aerospace Div., p.
 Airborne Instruments Lab., Div.-Cutler-
 Hammer, Inc., m, p.
 Aircom Inc., m, z, a-l, b-l.
 Airtron, Div.-Liton Industries, m
 Allied International Corp., b thru f, h, k,
 n, o, p, s, v thru z, a-l.
 Alto Scientific Co., Inc., l, m, z, a-l.
 Amerac Inc., h, m, p.
 American Missile Products Co., Inc., a, i.
 American Optical Co., Instrument Div., l.
 Anlab Inc., m.
 Applied Electronics Corp. of N. J., i.
 Applied Research Inc., h, i, j, z, a-l.
***ARNOUX CORP., d, o.**
 Automatic Radio Mfg. Co., Inc., b, i,
 w, y.
 Avco Corp., Crosley Div., c, d.
 Avco Corp.-Research & Advanced Develop-
 ment Div., d, x, z.
 Babcock Radio Engrg., Inc., c, i, z.
 Barry Electronics Corp., x.
 Rex Bassett, Inc., d, h.
 Beckman Instruments, Inc., Berkeley Div.,
 b-l.
 Bendix Aviation Corp., a thru q, s, u, x,
 y, z.

Bendix Aviation Corp., Cincinnati Div.,
 a, d, h, i, k, q, a-l.
 Bendix Radio Div., Bendix Aviation Corp.,
 d, e, f, h, i, n, o, a-l.
 Blonder-Tongue Labs. Inc., Special Pro-
 ducts Div., l, z, a-l.
 Broadview Research Corp.
 Bruno-New York Industries Corp., e.
 Budd Lewyt Electronics, Inc., a thru p,
 r thru z.
 Budelman Electronics Corp., a, d, h, i, i,
 m, z, a-l.
 Burton-Rodgers, Inc., a, b, d, h, i, k, o, z,
 a-l.
 CBS Laboratories, Div.-Columbia Broad-
 casting System, a, l.
 CG Electronics Corp., b, c, i, m, z, a-l.
 CGS Labs., Inc., d.
 Cameraflex Div.; The Federal Mfg. &
 Engrg. Corp., e, j, m, y.
 Chance Vought Aircraft, Inc., p, t, y.
 Clegg Labs., Div.-Clegg, Inc., a, b, d, h,
 i, v, x, a-l, b-l.
 Collins Radio Co., a, b, d thru j, m thru
 p, s, u thru a-l.
 Communications Co., a, b, d, h, i, n, r,
 x, z, a-l.
 Communications Research Co., b, d, g,
 h, s, x, a-l.
 Control Electronics Co., Inc., e, m, s.
 Crosby-Teletronics Corp., g, l, i, x.
 Cubic Corp., f.
 Daven Co., The, a thru d, h, o, v, w, z,
 a-l.
 Daystrom, Inc., Military Electronics Div.,
 a, o.
 De Havilland Aircraft of Canada, Ltd.,
 Special Products Div., l.
 Delco Radio Div.-General Motors Corp.,
 a, d, i, n, o, p, y, z, a-l.
***DEL MAR ENGRG. LABS., c, h, p, z, a-l.**
 Designers for Industry, Inc., a thru d, i, i,
 m thru p, r, v thru z, a-l, b-l.
 Allen B. Du Mont Labs., Inc., a thru j, l,
 n, o, p, s, v thru z, a-l.
 Dynatronics, Inc., g, j, z, a-l.
 Eastman Kodak Co., l.
 Eclipse-Pioneer Div., Bendix Aviation Corp.,
 f.
 Electromation Co., Div.-Del Mar Engrg-
 Labs., a thru f, h thru k, m thru s,
 u thru z, a-l, b-l.
 Electronic Applications, Inc., d, i, j, m,
 n, t, z, a-l.
 Electronic Specialty Co., c.
 Electro-Voice, Inc., o, w, x, y.
 Emertron, Sub.-Emerson Radio & Phono-
 graph Corp., a, c thru f, i thru s, v,
 w, x, z, a-l, b-l.
 Empire Products Sales Corp., m, p.
***EQUIPMENT DIV., RAYTHEON CO., a,**
c thru f, l, p, s.
 FXR, Inc., m.
 Fairchild Astrionics Div., Fairchild Engine
 & Airplane Corp., m, p.
 Fla. Aircraft Radio & Marine, a, d, e, r,
 s, a-l.
 Flush Wall Radio Corp., a.
 GPL Div.-General Precision, Inc., d, f, g,
 i, k, u.
 Gates Radio Co., b, y, x.
 General Communication Co., m.
 General Electric Co., Heavy Military Elec-
 tronics Dept., a, c, d, k, m, p.
 General Electric Co., Light Military Elec-
 tronics Dept., d, z.
 General Electric Co., Missile & Space
 Vehicle Dept., Pa.
 General Instrument Corp., Defense &
 Engrg. Products Group, a thru k, m thru
 p, s, t, u, x, y, z, a-l.
 Giffillan Bros. Inc., c, m, p.
 Globe Electronics, Div.-Textron Electronics,
 Inc., o, v, y.
 Gonsset Div.-Young Spring & Wire Corp.,
 a, b, d, h, i, n, v, w, x, z, a-l.
 Gorham Electronics-Div.-Gorham Mfg. Co.,
 p, z, a-l.
 Guided Missile Div., The Firestone Tire &
 Rubber Co., p.
 Hallamere Electronics Co., Div.-Sieglar
 Corp., a, z, a-l.
 Hallicrafters Co., The, c, d, m, x, y.
 Hammarlund Mfg. Co., The, d, k, v, x.
 Hammett-Mercury-Rex Div., m.
 Hazeltine Electronics Div.-Hazeltine Corp.,
 c thru f, m, p, z, a-l.
 Houston Fearless Corp., d, h, v thru z.
 ITI Electronics, Inc., b, e, h, s, y, z, a-l.
 ITT Federal Div., International Telephone
 & Telegraph Corp., a thru k, m thru p,
 s, y, z, a-l.
 Infrared Industries, Inc., l.
 Instruments for Industry, Inc., z, a-l.
 Interstate Electronics Corp., z, a-l.
 Kahn Research Labs., Inc., x.
***KEARFOIT DIV., GENERAL PRECISION,
 INC., p.**
 Kellogg Switchboard & Supply Co., Com-
 munications Div.-IT&T Corp., d.
 Lab. for Electronics, Inc., f, p.

Land-Air Inc., Sub-California Eastern Aviation, Inc., a thru e, h, i, n, o, y, z, a-1.
 Lavoie Labs., Inc., b-1.
 Lear, Inc., a thru f, h thru l, n, o, p, s, y, z, a-1.
 Lel, Inc., a thru d, h, i, m thru p, v thru z, a-1.
 Lenkurt Electric Co., Inc., j, m, n.
 Librascope Div., General Precision, Inc., l.
 Litton Industries, Maryland Div., c thru g, p, s.
 Lockheed Aircraft Corp., Missiles & Space Div., c.
 Lockheed Electronics Co., Stavid Div., p, z, a-1.
 Loral Electronics Corp., m, p, z, a-1.
 MEG Products, Div.-Mandrel Industries, Inc., a, c, d, h, i, j, n, o, x, y, z, a-1.
 Madigan Corp., a, e thru i, n, r thru z, a-1.
 *MAGNAVCO CO., THE, a, d, e, i, o, p, s, z.
 P. R. Mallory & Co. Inc., a, e, h, i, o, x, z, a-1.
 Marconi Instruments, a, b, d, i, x, z, a-1.
 *MARTIN CO., THE, DENVER DIV., c, d, f, h thru k, m, n, o, v, x, y, z, a-1.
 Mason Electric Corp., a thru e, h thru k, m, n, o, q, t, v thru z, a-1.
 W. L. Maxson Corp., The, e, g, k, m, p.
 Motorola, Inc., a thru k, m thru p, r thru z, a-1.
 Munston Electronic Mfg. Corp., e, y, a-1.
 National Co., Inc., a thru z, a-1, b-1.
 Nems Clarke Co., Div.-Vitro Corp. of America, a, b, d, h, i, z, a-1.
 Northrop Corp.
 Packard-Bell Electronics Corp., a, d, e, f.
 Paco Electronics Co., Inc., b, i, j.
 M. V. Palmer, Inc., b, h, i, l, m, v, x.
 Paraplegics Mfg. Co. Inc., c, d.
 Patterson Moos Research, Div.-Leesona Corp., l.
 Permoflux Products Co., o, r, s.
 Philco Corp.-Govt. & Industrial Group, a thru q, v thru z, a-1, b-1.
 Piasecki Aircraft Corp., a, d.
 Polrad Electronics Corp., m.
 Precise Development Corp., a, i.
 Production Research Corp., Sub.-Radio Condenser Co., d, l, m, o, r.
 Projects Unlimited, Inc., n, o, y, b-1.
 Pyroferic Co. Inc., l.
 RS Electronics Corp., c, h, i, m, p, y, z, a-1.
 Radalab Inc., a thru i, k, m thru p, r, s, t, v thru z, a-1, b-1.
 Radiophone Co. Inc., c, d.
 Radiation, Inc., h, j, m, p, y, z, a-1.
 Radio City Products Co. Inc., d, e, x, z, a-1.
 *RADIO CORP. OF AMERICA, a thru z, a-1, b-1.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, a thru e, h thru p, r, s, v thru z, a-1.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., a thru k, m thru p, s, t, u, x, y, z, a-1.
 Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc., c.
 Rantec Corp., m.
 Raven Industries Inc., c, o, y.
 Republic Aviation Corp., Missile Systems Div., a, c, l, m, n, u, y, z, a-1.
 Resdel Engrg. Corp., c, f, h, p, z, a-1.
 Santa Barbara Research Center, l.
 Schaevitz Engrg., e.
 Scientific-Atlanta, Inc., g, m, z, a-1.
 H. H. Scott, Inc., i.
 Seiscor, Div.-Seismograph Service Corp., e, f, o, r, s, y.
 Simmonds Aercosmetics, Inc., e, h, o, z, a-1.
 Southwest Research Institute
 Specialty Electronics Development Corp., f, m, p.
 Specific Products, b-1.
 Spectra Electronics Corp., l, o, y, z, a-1, b-1.
 Spectralab Instruments, m.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp., f, s.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., m.
 State Testing Laboratory Inc., n.
 Stewart-Warner Electronics Div., a thru e, i, m, p, y, z.
 Strand Engrg. Co., m, p.
 Stromberg-Carlson Div.-General Dynamics

Corp., a, c thru f, i, m thru p, s, u thru z, a-1.
 Summers Gyroscope Co., z.
 Sunair Electronics, Inc., d.
 Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc., m, p.
 TRG, Inc., l, m, p, q, s.
 Tamar Electronics, Inc., a, c, e, i, m, p, x, z, a-1.
 Tappo Group, Thompson Ramo Wooldridge Inc.
 Technical Materiel Corp., The, d, g, h, k, x.
 Technology Instrument Corp., b, h, o, u.
 Telechrome Mfg. Corp., h, i, b-1.
 Telefoto Industries Corp., a, d, e, i, o.
 Telerad Mfg. Corp., m.
 Texas Instruments Inc., l thru p.
 Thompson Ramo Wooldridge Inc., c.
 United Shoe Machinery Corp., m, p.
 U. S. Industries, Inc., p, q.
 U. S. Science Corp., Div.-Topp Industries, Inc., a-1.
 Virginia Electronics Co., Inc., a, b, d, e, h, n, o, s, v, w, y.
 Vocaline Co. of America Inc., z.
 Voi-Shan Electronics, y.
 Wells Industries Corp., l, t.
 Westinghouse Electric Corp., a, d, g thru j, m, n, p, x.
 Wheeler Electric Corp., Sub.-Sperry Rand Corp., z, a-1.
 Winder Aircraft Corp. of Florida, a, d, e.

RECEIVING EQUIPMENT, VHF OMNIRANGE

Allied International Corp.
 Bendix Aviation Corp.
 Bendix Radio Div., Bendix Aviation Corp.
 CG Electronics Corp.
 Collins Radio Co.
 Daystrom, Inc., Military Electronics Div.
 Designers for Industry, Inc.
 Emerfron, Sub.-Emerson Radio & Phonograph Corp.
 Fla. Aircraft Radio & Marine General Instrument Corp., Defense & Engrg. Products Group
 Hazeltine Electronics Div.-Hazeltine Corp.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Lear, Inc.
 Litton Industries, Maryland Div.
 MEG Products, Div.-Mandrel Industries, Inc.
 Motorola, Inc.
 Philco Corp.-Govt. & Industrial Group
 Radalab Inc.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Southwest Research Institute
 Stromberg-Carlson Div.-General Dynamics Corp.
 Telefoto Industries Corp.
 U. S. Science Corp., Div.-Topp Industries, Inc.

RECORDERS

a. Antenna Pattern
 b. Binaural Tape
 c. Code
 d. Data
 e. Depth
 f. Disc
 g. Disc Magnetic
 h. Electronic Rotary Stylus
 i. Electronic Self-Balancing Recorders & Indicators
 j. Facsimile
 k. Film
 l. Film Stripe, Magnet
 m. Film Thickness
 n. Flight Data
 o. Fluid Conductivity, Electronic
 p. Frequency
 q. Frequency Response
 r. Humidity, Electronic
 s. Liquid Level, Electronic
 t. Magnetic
 u. Materials Thickness, Electronic
 v. Mechanical
 w. Millivolt
 x. Moisture, Electronic
 y. Oscillograph
 z. Oxygen
 a-1. Polar
 b-1. Potentiometer
 c-1. Power Level
 d-1. Pressure, Electronic
 e-1. Sound Level

f-1. Specific Gravity, Electronic
 g-1. Strain
 h-1. Tape & Wire
 i-1. Telemetering
 j-1. Temperature, Electronic
 k-1. Timing
 l-1. Torque, Electronic
 m-1. Transient
 n-1. Vacuum
 o-1. Vibration
 p-1. Weight, Electronic
 q-1. XY
 ACF Industries Inc., g-1, q-1.
 ASCOP Div., Electro-Mechanical Research, Inc., n.
 Acton Laboratories Inc., y.
 Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., a, a-1.
 Alfax Paper & Engrg. Co. Inc., d, j, i-1.
 American Electronics, Inc., t, h-1, k-1.
 American Electronics Inc., Teller-Cooper Div. & Data Systems Div., i-1, k-1.
 American Instrument Co., Inc., r, x, j-1.
 American Machine & Foundry Co., Government Products, N. Y., d, m-1.
 American Missile Products Co., Inc., i-1, k-1.
 Ampex Data Products Co., d, t, i-1, m-1, o-1.
 Anthon Testing Instrument Co., Inc., v.
 Antlab Inc., a, a-1, c-1, e-1, o-1, q-1.
 Applied Electronics Corp. of N. J., c, d.
 Arcair Co., k-1.
 *ARNOUX CORP., i-1, j-1.
 Associated Engrg. & Mfg. Corp., h-1.
 Automatic Timing & Controls, Inc., i, d-1, g-1, l-1, p-1, q-1.
 Autonetics, Div.-North American Aviation, Inc., n.
 Avien, Inc., j-1.
 B & K Instruments, Inc., i, q, a-1, e-1, o-1.
 Bach Auricon, Inc., d, k, l, n.
 Baldwin-Lima-Hamilton Corp., Electronics & Instrumentation Divs., i, w, d-1, g-1, l-1.
 Barnes Development Co., d.
 Beckman Instruments, Inc., Berkeley Div., d, p, k-1.
 Beckman-Systems Div., d.
 Belock Instrument Corp., d.
 Bendix Aviation Corp., a, c, d, e, n, s, x, i-1.
 Benson-Lehner Corp., b, c, d, k, n, t, h-1, q-1.
 Bergen Labs., Inc., l-1.
 *BRISTOL CO., THE, i, r, w, b-1, i-1, j-1, q-1.
 Brush Instruments, Div.-Clevite Corp., d, y.
 Budd Co., The, d, j, a-1.
 Budd Lewyt Electronics, Inc., d.
 Burr-Brown Research Corp., j-1.
 Bytrec Corp., i, w, g-1, l-1, p-1.
 CBS Laboratories, Div.-Columbia Broadcasting System, t, h-1.
 CG Electronics Corp., a, d, n, i-1.
 California Computer Products, Inc., q-1.
 Calvert Electronics Inc., w.
 Cameraflex Div., The Federal Mfg. & Engrg. Corp., l, t, y, h-1.
 Century Electronics & Instruments, Inc., d, n, w, y, b-1, i-1.
 Clevite Ordnance, Div.-Clevite Corp., e, v, h-1.
 Computer Systems, Inc., b-1, q-1.
 Consolidated Airborne Systems, Inc., i, s, p-1.
 *CONSOLIDATED ELECTRODYNAMICS CORP., d, n, t, x, y, d-1, g-1, h-1, i-1, o-1.
 Control Data Corp., g.
 Convair Instruments, Convair Div.-General Dynamics Corp., d-1.
 Crown International Div.-International Radio & Electronics Corp., t.
 Curtiss-Wright Corp., Princeton Div., i, u, w, j-1, q-1.
 DBM Research Corp., k-1.
 Dalmo Victor Co., Div.-Trextron, Inc., t.
 Daystrom Inc., Weston Instruments Div., i, p, r, u, v, w, b-1, d-1.
 Dejur-Amsco Corp., Electronics Sales Div., w, b-1, h-1.
 Designers for Industry, Inc., j, y, h-1, i-1.
 Digital Sensors Inc., k-1.
 Allen B. Du Mont Labs., Inc., y, j-1.
 Dynatronics, Inc., d, i-1.
 Eastman Kodak Co., d, k thru n, i-1.
 Edwards Engrg. Co., b, d, n, q, t, e-1, h-1, j-1.
 Edwards High Vacuum Ltd., n-1.

Electric Autolite Co., The, j-1.
 Electro Instruments, Inc., c, d, p, v, w, q-1.
 Electromation Co., Div.-Del Mar Engrg. Labs., b thru e, k, l, p, t, v, d-1, e-1, g-1, i-1.
 Electro-Medical Lab., Inc., j-1.
 Electronic Applications, Inc., b, p, q, c-1.
 Emlerton, Sub.-Emerson Radio & Phonograph Corp., n, q, r, t, u, v, a-1, e-1, i-1, o-1.
 Epic, Inc., w, y, o-1.
 Esterline-Angus Co., The, p, w, n-1.
 Fenske, Fredrick & Miller, Inc., p.
 Fischer & Porter Co., s, d-1, j-1.
 Fisher Scientific Co., Maryland, w, b-1, j-1.
 Flight Research, Inc., d, n, y.
 Ford Instrument Co., Div.-Sperry Rand Corp., i-1.
 Foxboro Co., The, o, r, s, x, b-1, d-1, f-1, g-1, j-1, n-1.
 GPL Div.-General Precision, Inc., d, k, n.
 Gates Radio Co., t, h-1.
 General Aniline & Film Corp., Ansco Div., k.
 General Communication Co., f-1.
 General Controls Co., b-1, d-1, j-1, n-1.
 General Electric Co., Apparatus Sales Div., i, p, u, w, c-1, k-1.
 General Kinetics Inc., h-1.
 General Radio Co., c-1, e-1.
 Gilmore Industries, Inc., d, i, w, g-1, j-1, l-1, p-1, q-1.
 Gordon Enterprises, k, n, y, h-1, k-1, o-1.
 Gray Mfg. Co., The, t, h-1.
 Gulton Industries, Inc., d, n, p, d-1, i-1, j-1, o-1.
 Hagan Chemicals & Controls, Inc., d, v, d-1, j-1.
 Haledy Electronics Co., s.
 Hallicrafters Co., The, d.
 Hammett-Mercury-Rex Div., d.
 Hathaway Instruments, Inc., d, k, n, v, y, g-1.
 Hays Corp., The, i.
 Hewlett-Packard Co., d, y, q-1.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., n-1.
 Houston Instrument Corp., q-1.
 Howe Scale Co., The, p-1.
 Image Instruments, Inc., d.
 Impact-O-Graph Corp., The, o-1.
 Industrial Instruments Inc., o.
 Instrumentation Associates, Inc., z.
 International Radio & Electronics, b, d, i, n, p, q, t, e-1, h-1, i-1, k-1, m-1.
 Kay Electric Co., d, g, p, q, e-1, i-1, m-1, o-1.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Lab. for Electronics, Inc., f, g.
 Lane Electronics Mfg. Corp., f, t, h-1.
 Leach Corp., b, d, n, p, t, i-1.
 Lear, Inc., i, n, o, r, s, q-1.
 Leeds & Northrup Co., a, d, o, r, s, w, z, a-1, b-1, c-1, g-1, i-1, j-1, p-1, q-1.
 Librascope Div., General Precision, Inc., d, q-1.
 Edwin A. Lipps Engrg., t.
 Lockheed Aircraft Corp., Missiles & Space Div., h-1, i-1.
 Loral Electronics Corp., q-1.
 MB Electronics, o-1.
 Madigan Corp., d, i, n, i-1.
 Magnasync Corp., d, l, t, h-1, i-1.
 Maico Electronics, Inc., d, g, t, h-1.
 Martin-Decker Corp., d, v, d-1, n-1, p-1.
 Mason-Neilan, n-1.
 Massa Div.-Cohu Electronics, Inc., y, g-1, m-1, o-1.
 J. A. Maurer, Inc., k.
 W. L. Maxson Corp., The, l.
 Micro Gee Products, Inc., n, q.
 Midwestern Instruments, Inc., b, d, i, n, y, h-1, i-1.
 Milgo Electronic Corp., q-1.
 Mincom Div., Minnesota Mining & Mfg. Co.,
 Mine Safety Appliances Co., z.
 Minicord Corp. of America, h-1.
 Minneapolis-Honeywell, Heiland Div., y.
 Minneapolis-Honeywell Regulator Co., Industrial Systems Div., d, n, q, t, h-1, i-1.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div., b, d, i, o, p, r, s, t, w, x, y, b-1, d-1, f-1, g-1, h-1, j-1, p-1.
 *MINNESOTA MINING & MFG. CO., b, d, t, h-1, i-1.

Moran Instrument Corp., d.
 Motorola, Inc., c, i-1, q-1.
 Muirhead Instruments Inc., j.
 NUMEC-Nuclear Materials & Equipment Corp., p-1.
 New England Scientific Instruments Co., r, w, c-1, m-1.
 Northeastern Engrg. Inc., p.
 Northrop Corp., k, n, p, q, i-1, o-1.
 Offner Electronics Inc., y, g-1, i-1, m-1.
 Optomechanisms Inc., k, o-1.
 Orbitran Co., Inc., p-1.
 Oxygen Equipment & Service Co., z.
 Packard-Bell Electronics Corp., t.
 Panoramic Radio Products, Inc., o-1.
 Philco Corp.-Govt. & Industrial Group, c, d, i-1.
 Photovolt Corp., w.
 Photon Instrument Co., d, n, q, y, g-1, o-1.
 Potter Aeronautical Corp., p, f-1.
 Potter Instrument Co., Inc., b, c, d, g, l, n, p, q, t, h-1, i-1, j-1.
 Presin Co., d.
 Production Research Corp., Sub.-Radio Condenser Co., d, i-1.
 Pyrometer Instrument Co., Inc., j-1.
 Radalab Inc., a.
 Radiophone Co. Inc., i-1.
 Radiation, Inc., h, i-1, q-1.
 *RADIO CORP. OF AMERICA, a thru d, f, g, j thru n, p, q, t, u, e-1, i-1, n-1.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, i, t, h-1.
 Raymond Engrg. Lab., Inc., h-1.
 J. B. Rea Co., t.
 Research, Inc., w, d-1, g-1, j-1, p-1.
 Resitron Labs., Inc., n-1.
 Robertshaw-Fulton Controls Co., A & I Div., i.
 Rockwood Sprinkler Co., Div.-The Game-well Co., b-1.
 Rosemont Engrg. Co., d-1, j-1.
 Milton Roy Co., m, s, z.
 Sangamo Electric Co., f, a-1, h-1.
 Schaevitz Engrg., m, u, l-1, p-1.
 Scientific & Process Instruments Div.-Beckman Instruments, Inc., b-1.
 Scientific-Atlanta, Inc., a, a-1.
 Seeburg Corp., The, i, n, i-1.
 Seiscor, Div.-Seismograph Service Corp., q-1.
 Serdex, Inc., r, j-1.
 Servo Consultants Ltd., q, a-1.
 Soroban Engrg., Inc., c, d, v, h-1.
 Southwest Research Institute
 Southwestern Industrial Electronics Co., y, e-1, i-1, o-1.
 Sperry Piedmont Co., Div.-Sperry Rand Corp., e.
 Stewart-Warner Electronics Div., d, i, v.
 F. J. Stokes Corp., n-1.
 Stromberg-Carlson, San Diego, General Dynamics Corp., d, i, k.
 Sun Electric Corp., Aeronautical Div., o-1.
 Systron Corp., d, i, p, b-1, k-1.
 TRG, Inc., a.
 Talley Register Corp., q-1.
 Tapco Group, Thompson Ramo Wooldridge Inc., t.
 Technitrol Engrg. Co., d, j.
 Technology Instrument Corp., y.
 Telechrome Mfg. Corp., d, i, i-1.
 Telectro Industries Corp., a thru d, i, t, y.
 Television Utilities Corp., k.
 Telex, Inc., g, t, p-1.
 Texas Instruments Inc., d, g, i, w, b-1.
 Thermo Electric Co., Inc., i, r, s, w, d-1, f-1, j-1.
 Thompson Ramo Wooldridge Inc., t.
 Trimount Instrument Co., s.
 Universal Dynamics Corp., r, x, d-1.
 Viewlex, Inc., b, k, y, h-1.
 Wang Labs., Inc., c, d.
 Waste King Corp., Technical Products Div., d, n, v.
 Weksler Instruments Corp., n-1.
 Wells Industries Corp., o, r, s, x, b-1, f-1, j-1.
 Western Union Telegraph Co., The, j.
 Westronics Inc., a, e, i, o thru s, v thru y, b-1 thru g-1, l-1 thru p-1.
 Yellow Springs Instrument Co., The, d, w, i-1.

RECTIFIER POWER UNITS

ADC Inc.
 Allen Electric & Equipment Co.
 American Rectifier Corp.

*ARNOUX CORP.
 Bendix Aviation Corp.
 Boque Electric Mfg. Co.
 Bradley Semiconductor Corp.
 Chalco Engrg. Corp.
 Clark Electronic Laboratories
 Continental Electronics Mfg. Co., Sub.-Ling-Altec Electronics Inc.
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Delco Radio Div.-General Motors Corp.
 Delco, Div.-Djordjevic Engrg. Co.
 Dresser Electric Co.
 Electronic Devices Inc.
 Fansteel Metallurgical Corp.
 Flight Support, Inc.
 General Electric Co., Apparatus Sales Div.
 General Instrument Corp., Defense & Engrg. Products Group
 Gonset Div.-Young Spring & Wire Corp.
 Gremco, Inc.
 Hammett-Mercury-Rex Div.
 IIT Components Div., International Telephone & Telegraph Corp.
 IIT Federal Div., International Telephone & Telegraph Corp.
 *INTERELECTRONICS CORP.
 Jack & Heintz, Inc.
 Kahn & Co., Inc.
 Lear, Inc.
 Leece-Neville Co., The
 Leland Airborne Products, Div.-American Machine & Foundry Co.
 Macarr, Inc.
 P. R. Mallory & Co., Inc.
 *MARTIN CO., THE, DENVER DIV.
 Sanford Miller Co.
 Model Rectifier Corp.
 Motoresearch Co.
 Mullenbach Div.-Electric Machinery Mfg. Co.
 Opad Electric Co.
 Otis Elevator Co., Defense & Industrial Div.
 M. V. Palmer, Inc.
 Perkin Engrg. Corp.
 Peschel Electronics, Inc.
 Pesco Products Div., Borg-Warner Corp., Calif.
 Power Supplies Inc.
 *RADIO CORP. OF AMERICA
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Solar Aircraft Co.
 Specialty Electronics Development Corp.
 Stewart & Stevenson Services, Inc.
 Talley Corp., The
 Technical Apparatus Division
 Telechrome Mfg. Corp.
 Telkor, Inc.
 Trans-Sil Corp.
 Varo Mfg. Co., Inc.
 Virginia Electronics Co., Inc.
 Westinghouse Electric Corp.
 Wickes Engrg. & Construction Co.
 Winder Aircraft Corp. of Florida

RECTIFIERS

a. Copper Oxide
 b. Electronic Tube
 c. Germanium
 d. Mercury Arc
 e. Metal Sulphide
 f. Metallic Oxide
 g. Metallic Power Supplies
 h. Metallic Stack
 i. Photoelectric
 j. Selenium
 k. Silicon
 l. Titanium
 m. Tube
 n. Tube Rectifying Units

Aerolux Light Corp., m.
 Air Reduction Sales Co., Div.-Air Reduction Co., Inc., j.
 Allied Research Products, Inc., i, k.
 Allis-Chalmers, c, d, i, k.
 American Rectifier Corp., g, h, j, k.
 Barco, Inc., i, k.
 Barry Electronics Corp., j.
 Bendix Aviation Corp., c, k, m.
 Bendix Aviation Corp.-Semiconductor Products, Red Bank Div., k.
 Bogue Electric Mfg. Co., k.
 Bradley Semiconductor Corp., a, g, h, j, k.
 Britton Electronics Corp., j, k.
 CBS Electronics, Div.-Columbia Broadcasting System, Inc., b, m.

Calvert Electronics Inc., b, k, m, n.
 Central Electronic Mfrs., Div.-Nuclear Corp. of America, b, m.
 Chatham Electronics Div.-Tung-Sol Electric Inc., i, k.
 Cleviste Transistor Products, Div.-Clevite Corp., k.
 Columbus Electronics Corp., k.
 Conant Labs., a, i.
 Continental Electric Co., b, d, m.
 Continental Electronics Mfg. Co., Sub.-Ling-Altec Electronics Inc., b, d, i, k, m, n.
 Cosmic Instruments Inc., j.
 Dallons Semiconductor, Div.-Dallons Labs., k.
 Daven Co., The, n.
 Daystrom Inc., Weston Instruments Div., a.
 Delco Radio Div.-General Motors Corp., c, k.
 Djeco, Div.-Djordjevic Engrg. Co., b, c, g, h, i, k, m, n.
 Eicor Div.-Scranton, g.
 Eitel-McCullough, Inc., m.
 Electronic Devices, Inc., g, h, j.
 *EQUIPMENT DIV., RAYTHEON CO., n.
 Fansteel Metallurgical Corp., g, h, i, k.
 Fla. Aircraft Radio & Marine, a, b, m, n.
 Gates Electronic Co., g, i, k.
 General Electric Co., Apparatus Sales Div., c, d, i, k.
 General Electric Co. Ltd. of England, a, b, i, k, m.
 General Instrument Corp., Semiconductor Div., k.
 Gordon Enterprises, h, i, k.
 Hammett-Mercury-Rex Div., a thru n.
 Hanson-Van Winkle-Munning Co., a, c, i, k.
 George E. Harris & Co., Inc., c, i, k.
 Hermetic Seal Corp. & Thermal Controls, Inc., b.
 Hoffman Electronics Corp., Semiconductor Div., k.
 Hughes Semiconductor Div.-Hughes Aircraft Co., k.
 ITT Components Div., International Telephone & Telegraph Corp., i, k, m.
 Instron Corp., n.
 *INTERELECTRONICS CORP., g.
 International Rectifier Corp., c, h thru k.
 Kuthe Labs., Inc., b.
 Lear, Inc., b, k, m, n.
 Leece-Neville Co., The, c, i, k.
 P. H. Leland, Inc., j.
 P. R. Mallory & Co., Inc., a, e, k.
 *MARTIN CO., THE, DENVER DIV., n.
 Sanford Miller Co., g, h, i, k.
 Motorola, Inc., c, k.
 NUMEC-Nuclear Materials & Equipment Corp., f.
 North American Electronics Inc., k.
 Northrop Corp.
 Opad Electric Co., a, b, c, e thru n.
 Peschel Electronics, Inc., n.
 *RADIO CORP. OF AMERICA, b, c, i, j, k, m, n.
 Radio Development & Research Corp., g, h, i, k.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., i, k.
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., b, m.
 Rectico, Inc., a, d thru h, i, k.
 Resitron Labs., Inc., m.
 Sargent Engrg. Corp., k.
 Sarks Tarzian, Inc., Semiconductor Div., h, i, k.
 *SEMICONDUCTOR DIV., RAYTHEON CO., c, k.
 Semi-Elements, Inc., a, c, k.
 Southwest Research Institute
 Standard Rectifier Corp., k.
 Sylvania Electric Products Inc., Sylvania Electronic Tubes Div., k.
 Sylvania Semiconductor Div., Sylvania Electric Products Inc., k.
 Technical Apparatus Builders, a, i, k.
 Telechrome Mfg. Corp., c, j.
 Texas Instruments Inc., i, k.
 Thermosen Inc., b, m.
 Transiron Electronic Corp., h, k.
 Trans-Sil Corp., e thru h, k.
 Tung-Sol Electric, Inc., b, f, g, h, i, k, m, n.
 Udyllite Corp., The, j, k.
 U. S. Semiconductor Products Div.-United Industrial Corp., k.
 Vickers Inc., Electric Products Div., h, j, k.

Wells Industries Corp., i.
 Welltronic Co., b, g, n.
 Westinghouse Electric Corp., b, c, d, f, g, h, i, k, m, n.
 Winder Aircraft Corp. of Florida, n.

REDUCERS, SHAFT

Acme Industrial Co.
 Amatonic Electronic Hardware Co., Inc.
 Custom Products Corp.
 Guidance Controls Corp.
 Indiana Gear Works, Inc.
 Jan Hardware Mfg. Co., Inc.
 Lovejoy Flexible Coupling Co.
 Richard Philip Co.
 Tube-Turns Div., Chemetron Corp.
 Western Gear Corp.-Precision Products Div.
 Worthington Corp.

REFLECTORS, RADAR

Ainslie Corp.
 *ANDREW CORP.
 Bendix Aviation Corp.
 Blaw-Knox Equipment, Div.-Blaw-Knox Co.
 Brooks & Perkins, Inc.
 Joe Davidson & Associates
 *DEL MAR ENGRG. LABS.
 Diamond Antenna & Microwave Corp.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
 General Bronze Electronics Corp.
 General Electric Co., Ordnance Dept.
 Gilfillan Bros, Inc.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Kling Metal Spinning & Stamping Co.
 *LAVELLE AIRCRAFT CORP.
 Lockheed Electronics Co., Stavid Div.
 Lunn Laminates, Inc.
 Narmco Mfg. Co.
 Northrop Corp.
 Parsons Corp., Special Products Div.
 Phoenix Products Co.
 Plastic Age Sales, Inc.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Sanders Associates, Inc.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
 C. W. Tomgren Co., Inc.
 Tower Construction Co.
 Transco Products, Inc.
 Winder Aircraft Corp. of Florida
 Zippertubing Co., The

REFRIGERATION EQUIPMENT, AIRBORNE

Aeroquip Corp., Jackson Div.
 Air Products, Inc.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 Alco Valve Co.
 Bar-Ray Products, Inc.
 Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Budd Lewyt Electronics, Inc.
 Cameraflex Div., The Federal Mfg. & Engrg. Corp.
 Cryogenerators, Inc.
 Joe Davidson & Associates
 Dean Products, Inc.
 Drayer Hanson Div.-Crane Co.
 Great Lakes Mfg. Corp.
 Hallicrafters Co., The
 Hamilton Standard, Div.-United Aircraft Corp.
 Monrovia Aviation Corp.
 Murphy & Miller Inc.
 Northrop Corp.
 On Mark Couplings, Inc.
 Ready-Power Co., The
 Recony Div.-Vincro Corp.
 Southwest Research Institute
 Stearns-Roger Mfg. Co., The
 Stratos, Div.-Fairchild Engine & Airplane Corp.
 Torrington Mfg. Co. Inc., The, Specialty Blower Div.
 United Aircraft Products, Inc.
 Western Div., Aeroquip Corp.
 York Div., Borg-Warner Corp.

REFRIGERATION EQUIPMENT, GROUND

Accessory Controls & Equipment Corp.
 Aeroquip Corp., Jackson Div.
 Aero-Test Equipment Co., Inc.
 Air Products, Inc.

***AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.**

Alco Valve Co.
 American Instrument Co., Inc.
 Associated Testing Labs., Inc.
 Atlas Engrg. Corp.
 Auto-Control Labs. Inc.
 Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co.
 Budd Lewyt Electronics, Inc.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Consolidated Diesel Electric Corp.
 Cryogenerators, Inc.
 Joe Davidson & Associates
 Dean Products, Inc.
 Drayer Hanson Div.-Crane Co.
 Ellis & Watts Products, Inc.
 Frick Co.
 Gardner Laboratory, Inc.
 Great Lakes Mfg. Corp.
 Gremco, Inc.
 George E. Harris & Co., Inc.
 Highland Engrg. Co.
 C. G. Hokanson Co., Inc.
 Hughes Tool Co., Aircraft Div.
 *ITEMCO, INC.
 Jamison Cold Storage Door Co.
 Lear, Inc.
 M-D Blowers, Inc.
 Monrovia Aviation Corp.
 On Mark Couplings, Inc.
 D. W. Onan & Sons, Inc.
 Pioneer Industries Div., Almar-York Co., Inc.
 Pre-Flite Industries Corp.-Sub.-Avco Mfg., Corp.
 Ready-Power Co., The
 Recony Div.-Vincro Corp.
 Southwest Research Institute
 Stearns-Roger Mfg. Co., The
 Stratos, Div.-Fairchild Engine & Airplane Corp.
 Tenney Engrg., Inc.
 Thermo King Corp.
 Torrington Mfg. Co., Inc., The, Specialty Blower Div.
 Trane Co., The
 United Aircraft Products, Inc.
 Vilter Mfg. Co., The
 Webber Engrg. Corp.
 Webber Mfg. Co., Inc.
 Wenzlau Engrg. Co.
 Western Devices Inc.
 Western Div., Aeroquip Corp.
 Westinghouse Electric Corp.
 Whitlock Mfg. Co., The
 Worthington Corp.
 York Div., Borg-Warner Corp.

REGULATORS

a. Air
 b. Air Combustion
 c. Air Pressure
 d. Battery Charging
 e. Cable Tension
 f. Coolant
 g. Demand Oxygen
 h. Fluid Flow
 i. Frequency
 j. Fuel Flow
 k. Fuel Pressure
 l. Generator
 m. Hydraulic Pressure
 n. Liquid Level
 o. Manifold Pressure
 p. Oil Cooler
 q. Oil Pressure
 r. Oil Pump Flow
 s. Oil Temperature
 t. Oxygen
 u. Temperature
 v. Vacuum Systems
 w. Voltage Frequency
 x. Voltage Regulators & Stabilizers
 y. Water Injection
 z. Water Metering

ACF Industries Inc., b, c, i thru l, q, w thru z.
 Accessory Controls & Equipment Corp., a, c.
 Accessory Products Co., Div.-Textron Inc., a, c, h, i, k, n, p, q, t, v, y.
 Acme Electric Corp., x.
 Acme Industrial Co., h.
 Acoustica Associates, Inc., h, n.
 Actuation Research Corp., a, c, h, k, m.
 Adel Precision Products of Calif., Div.-

General Metals Corp., m, q, r.
Aero Supply Mfg. Inc., b, f, h, i, k, n,
q, r, y.
Aeroscience, Inc., x.
Aerotek Industries Inc., Aircraft Equip-
ment Div., a, b, c, h, i, k, m, n, q, t.
Air Products, Inc., g, t.
Air Reduction Sales Co., Div.-Air Re-
duction Co., Inc., a, c, g, i, k, o, t.
Air Speed Tool Co., a.
Airsterra, t.
Airborne Research & Development Corp.,
c, k, m.
***AIRESEARCH MFG. OF ARIZONA**, a, c,
h, i, k, p, q, t, u.
***AIRESEARCH MFG. CO., DIV-THE GAR-
RETT CORP.**, a, c, h, i, l, p, s, u.
Alco Valve Co., f.
Allied International Corp., f, h, i, k, m, p
thru s.
American Electronics, Inc., i, u, w.
American Instrument Co., Inc., a, c, h, m,
q, u.
American Rectifier Corp., x.
American Research & Mfg. Corp., x.
Applied Dynamics Corp., a, c.
Arkay Engrg., Inc., x.
Arkwin Industries, Inc., a, c, m.
Aro Equipment Corp., The, g, t.
Aro-Firewal Co., Inc., Sub-The Aro
Equip. Corp., a, c, g, n, t.
Atlas Engrg. Co., Inc., x.
Automation Products, Inc., n.
Avien, Inc., u.
Bar-Ray Products, Inc., u.
Bastian-Blessing Co., The, a, c, h, t.
Bellofram Corp., a, c.
Bellows-Valvair Divs., a, c.
Benbow Mfg. Corp., a, h, i, m, t.
Bendix Aviation Corp., a, c, g, h, i
thru m, t thru y.
Bendix Aviation Corp., Cincinnati Div.,
i.
Bendix Aviation Corp., Pioneer-Central
Div., g, n, t.
***BENDIX PRODUCTS DIV., BENDIX
AVIATION CORP.**, h, i, k, u, y, z.
Bendix-Pacific Div., Bendix Aviation
Corp., c, m.
Bendix Utica Div., Bendix Aviation Corp.,
a, c, h, i, k.
A. Biederman, Inc., g, i, k, o, t, u.
Binks Mfg. Co., a, c, h.
Bogue Electric Mfg. Co., d, i, l, n, u,
w, x.
Brooks Rotameter Co., h, j.
Budd Lewyt Electronics, Inc., w, x.
CBS Electronics, Div.-Columbia Broad-
casting System, Inc., x.
Cameraflex Div., The, Federal Mfg. &
Engrg. Corp., j.
Captive Seal Corp., a, c, h, i, k, m
thru t, v.
Carleton Aviation Co., Inc., a, b, h, i,
k, m, t, v, y.
J. C. Carter Co., The, h, i, k, m, n, o, y.
A. W. Cash Valve Mfg. Corp., c, k, m,
q, s thru v.
Central Transformer Co., x.
Chalco Engrg. Corp., w, x.
Cleco Air Tools, Div.-Reed Roller Bit Co.,
a.
Clegg Labs., Div.-Clegg, Inc., x.
***COMMERCIAL APPARATUS & SYSTEMS
DIV., RAYTHEON CO.**, i, x.
Components Corp., c, k, m.
Conoflow Corp., a, c, h, i, v.
Consolidated Airborne Systems, Inc., i,
n.
Consolidated Controls Corp., a, c, h, i,
k, m.
Consolidated Diesel Electric Corp., w, x.
Cornelius Co., The, Aero Div., a, c, h,
m, v.
Cornell Deep Drawing Co., Div.-Lanes
Industries Corp., a, c, i, k, m.
Custom Component Switches Inc., h, k,
m, o, q, s, t.
Datascan Inc., x.
Daven Co., The, x.
Davenport Mfg. Co., x.
De Havilland Aircraft of Canada, Ltd.,
Special Products Div., w.
Delco Radio Div.-General Motors Corp.,
i, w, x.
Deiron Inc., x.
Dieco Div.-Djordjevic Engrg. Co., d, x.
Dorsett Electronic Labs., Inc., w, x.
R. C. Dudek & Co., x.
Dynamic Controls Corp., c, h thru n, s,
u, w.
Eastern Industries Inc., c, f, h, i, k, m,
p thru s, v.
Eclipse Fuel Engrg. Co., b, i, k, u.
Edwards High Vacuum Ltd., v.
Electric Autolite Co., The, x.
Electric Regulator Corp., d, i, l, u, w, x.
Electro Precision Corp., w.
Electrol Inc., a, h, m.
Essex Mfg., Co., Inc., c.
Farwest Mfg. Div., Inc., x.
Fenwal, Inc., f, s, u.
Fidelity Instrument Corp., i, w, x.
Fisher Governor Co., a, b, c, n, t.
Flight Refueling, Inc., h, i, k, n, o, t.
Fluid Power Inc., a, g, t.
Fluid Regulators Corp., h, j, m.
Ford Instrument Co., Div.-Sperry Rand
Corp., w, x.
Futurecraft Corp., a, c, f, g, h, k, m, q,
t.
GPL Div.-General Precision, Inc., i, w.
Garwin, Inc., a, v.
Gates Radio Co., x.
General Controls Co., a, c, u.
General Electric Co., l, w.
General Electric Co., Apparatus Sales
Div., h, i, l, u, w, x.
General Electric Co., Missile & Space
Vehicle Dept., Pa.
General Magnetics, Inc., w, x.
General Radio Co., x.
General Regulator Corp., k.
Paul E. Gerst & Co., l, w, x.
Giffillan Bros. Inc., c, m.
Gits Brothers Mfg. Co., a.
Great Lakes Mfg. Corp., c, k, m, q.
Greenleaf Mfg. Div., The, Mandrel Ind.
Inc., u.
Grove Valve & Regulator Co., a, c, h.
Guidance Controls Corp., e.
Gulton Industries, Inc., u, w, x.
B. H. Hadley, Inc., a, b, f, g, h, i, k,
m, n, o, q, t.
Hamilton Standard, Div.-United Aircraft
Corp., a, c, u.
Hammel-Dahl Div.-General Controls Co.,
c, h, n, q, r, u, z.
Hammitt-Mercury-Rex Div., d, w, x.
George E. Harris & Co., Inc., l, q, w, x.
Haskel Engrg. & Supply Co., a, b, c, h,
m.
Hass Instrument Corp., The, v.
Herlo Corp., k, m.
High Vacuum Equipment Corp., Sub.-
Robinson Tech. Products, Inc., v.
Highland Engrg. Co., a.
E. Vernon Hill & Co., u.
Hoffman Electronics Corp., Semiconductor
Div., x.
Hoke Inc., a, c, h, k, o, t.
Hoover Electronics Co., x.
Howe Scale Co., The, h.
Huyck Systems Co., c, h, i, k, m.
Walter J. Hyatt Co., The, c, h, i, k, m,
q, t, v.
Hydra-Power Corp., m, y.
Hydraulic Research & Mfg. Co., h, m.
Instrulab, Inc., x.
Integral Corp., h, m.
Intercontinental Dynamics Corp., c, v.
International Electronic Research Corp.,
h, i.
International Rectifier Corp., x.
Interstate Engrg. Corp., a, k, m.
Jack & Heintz, Inc., w, x.
Janitrol Aircraft Div.-Midland-Ross Corp.,
a, b, c, f, h, i, k, m, n, p, q, s thru v.
Jordan Electronics, Div.-Victoreen Instru-
ment Co., w.
Kemp Aero Products, a, c, h, i, k, m, q,
r.
Kepco, Inc., x.
Kidde Aero-Space Div., Walter Kidde &
Co., Inc., a, c.
Kielej & Mueller, Inc., a, c, h, i, k, m,
n, t, v, z.
Kollmans Instrument Corp., Sub.-Standard
Coil Products Co., Inc., c.
Langley Corp., u.
Learn, Inc., a thru d, f thru p, s, u, v,
x, y.
Lee Electric & Mfg. Co., d, w, x.
Leece-Neville Co., The, d, l, x.
Leland Airborne Products, Div.-American
Machine & Foundry Co., d, l, w, x.
***WALLACE O. LEONARD, INC.**, a, c, g,
h, i, k, m, n, q, r, t, v.
Leslie Co., c, f, k, m, n, q, r, s, u.
Linde Co., Div.-Union Carbide Corp., t.
Line Material Industries-McGraw-Edison
Co., x.
Liquid Carbonic Div.-General Dynamics
Corp., g, t.
Liquidometer Corp., The, n.
Lundy Mfg. Corp., a, i, m.
M. C. Mfg. Co., a, c, h, m.
Magnetic Circuit Elements, Inc., i, u, w.
Magnetic Instrument Co., Inc., n.
Magnetic Research Corp., w, x.
Manning & Lewis Engrg. Co., p.
Marotta Valve Corp., a, c, h, i, k, m, o,
q, t.
***MARTIN CO., THE, DENVER DIV.**, d, h,
k, m, u, w, x.
Mason-Neilan, a, c, h, i, k, n, q, r, s, u.
Mead Specialties Co., Inc., a, c.
Milro Controls Co., Inc., w.
Mira Corp., The, t.
J. J. Monaghan Co., Inc., t.
C. A. Morgren Co., a, c, m, t, z.
National Co., Inc., x.
National Cylinder Gas, Div.-Chemetron
Corp., a, g, t.
National Welding Equipment Co., a, g,
k, o, t.
Networks Electronic Corp., w, x.
Newark Controls Co., c, m, n, v.
Ernest Norrman Laboratories, i.
North American Electronics Inc., x.
Northrop Corp., e, i, u, w, x.
OPW-Jordan, a, c, k, n, p, q, s, u.
Ohio Chemical & Surgical Equip. Co.,
Div.-Air Reduction Co., Inc., t.
Oil-Dyne, Inc., m.
Opad Electric Co., x.
Otis Elevator Co., Defense & Industrial
Div., w, x.
Oxygen Equipment & Service Co., g, t, v.
Ozone Metal Products Corp., m, q, r.
Packer Scientific Co., e.
Parker-Hannifin Corp., a, c, h, i, k, m,
o, q, r, t.
Peacock Engrg. & Mfg. Co., m.
Performance Measurements Co., w.
Perkin Engrg. Corp., x.
Richard Philip Co., t.
Pitometer Log Corp., i.
Pneu-Hydro Valve Corp., a, b, c, f, g,
h, i, k, m, p, q, s, t.
Potter Aeronautical Corp., h, i, j, z.
Power Supplies Inc., l.
Powers Regulator Co., The, u.
Projects Unlimited, Inc., u.
Puritan Aerospace Div.-Puritan Com-
pressed Gas Corp., g, t.
Pyrometer Instrument Co., Inc., u.
Radiation, Inc., x.
Radiation Research Corp., x.
***RADIO CORP. OF AMERICA**
Randall Engrg. Corp., a, c, h, m.
***RAYTHEON CO., INDUSTRIAL COM-
PONENTS DIV.**, x.
Reaction Motors Div., Thiokol Chem.
Corp., k, o, t.
Republic Mfg. Co., c, m, q.
Research Controls, a, b, c, h, i, k, n,
r, y, z.
Research, Inc., m, u.
Revere Corp. of America, Sub., Neptune
Meter Co., i, n, u.
J. R. Robbins Co., m.
Robertshaw-Fulton Controls Co., A & I
Div., a, c, g, h, o, t.
Robertshaw-Fulton Controls Co., Fulton
Sylphon Div., c, h, k, n, o, s, u, v.
Ronson Hydraulic Units Corp., a, c, m.
Milton Roy Co., n, z.
Roylyn Inc., t.
S-P Mfg. Corp., The, a.
Safety Electrical Equipment Corp., d,
i, l, w, x.
Sargent Engrg. Corp., m.
Scott Aviation Corp., t.
Servo-Tek Products Co., x.
Sierra Engrg. Co., g, t.
Sierra-Schroeder Controls, Div.-Idaho
Maryland Mines Corp., a, c, h, i, m,
n, o, q.
Sirvalco Systems Corp., a, c, g, h, i, k,
m, t.
Skyvalve, Inc., a, c, h, i, k.
A. O. Smith Corp., Smith-Erie Div., i, k,
m.
Sorensen & Co., Inc., i, w, x.
Southwest Research Institute, a, b, c, f,
g, h, i, k, m thru u, y, z.
Southwestern Valve Corp., c, h, i, k,
m, t.
Specialty Electronics Development Corp.,
x.
Standard Electronics Div.-Reeves Instru-
ment Corp., w, x.

Stevens Mfg. Co., Inc., u.
 Stewart-Warner Corp., Alemite Div., a, c.
 F. J. Stokes Corp., v.
 A. U. Stone & Co., Inc., a, c, f, h, i, k,
 m, p, q, r, z.
 Straios, Div.-Fairchild Engine & Airplane
 Corp., a, c, h, i.
 Sun Electric Corp., Aeronautical Div., h,
 k, m.
 Superior Electric Co., The, x.
 Superior Pneumatic & Mfg., Inc., a, c.
 Tapco Group, Thompson Ramo Wool-
 dridge Inc., h thru l, x.
 Tel-Instrument Electronics Corp., x.
 Texas Instruments Inc., u.
 Thompson Ramo Wooldridge Inc., h
 thru l, x.
 Torwico Electronics, Inc., x.
 Transistor Devices Inc., x.
 Transiron Electronic Corp., x.
 Uehling Instrument Co., n.
 United Aircraft Products, Inc., a, c, f, h,
 i, k, m, p thru s, u, v, y.
 United Control Corp., n, p, s, u.
 United Electric Controls Co., q, u, v.
 U. S. Industries, Inc., x.
 Universal Transistor Products Corp., w, x.
 Valor Instruments, Inc., x.
 Vap-Air Aeronautical Products Div., Vapor
 Heating Corp., x.
 Varo Mfg. Co., Inc., a, h, i, j, l, m, u,
 w, x.
 Vickers Inc., Electric Products Div., i, w,
 x.
 Vickers, Inc., Mich., h, i, k, m, s.
 Victoreen Instrument Co., x.
 Vinson Mfg. Co., Inc., a, c, g, h, i, k,
 m, t, y, z.
 Voi-Shan Electronics, w, x.
 Wallson Associates, Inc., v, w, x.
 Waterman Hydraulics Corp., h, i, r, y, z.
 Weatherhead Co. The, a, c, h, l, m, n.
 Wells Industries Corp., n.
 Weltronic Co., w, x.
 Western Sky Industries, m, t.
 Westinghouse Electric Corp., i, j, l, w, x.
 Westline Products Div.-Western Lithograph
 Co., a.
 Wheeler Electronic Corp., Sub.-Sperry
 Rand Corp., x.
 Whittaker Controls, Div.-Telecomputing
 Corp., a, g, i, k, l, t.
 Wickes Engrg. & Construction Co., d, i, l,
 w, x.
 Wolverine Diesel Power Co., d, x.
 Worthington Corp., a, b, c, f, g, h,
 j thru m, q, r, s, u thru x.
 Yellow Springs Instrument Co., The, u.
 Zacharias Electronics Corp., x.
 Zep Aero, g, t.

REINFORCED PLASTICS

Agricultural Aviation Engineering Co.,
 Inc.
 Air Logistics Corp.
 American Aerophysics Corp.
 American Printed Circuits Co., Inc.
 American Research & Mfg. Corp.
 Arrowhead Products, Div.-Federal-Mogul-
 Bower Bearings, Inc.
 Atkins & Merrill, Inc.
 L. J. Barwood Mfg. Co., Inc.
 Bjorksten Research Labs. for Industry, Inc.
 Bonny Mfg. Corp.
 Brook Molding Corp.
 Milton H. Brooks & Son Engraving & Mfg.
 Co., Inc.
 Brunswick Balke Collender Co., The, De-
 fense Products Div.
 Butler Mfg. Co.
 Chemplast, Inc.
 Cincinnati Milling Machine Co., The
 Clark Equipment Co.
 Clevite Ordnance, Div.-Clevite Corp.
 Colonial Aircraft Corp.
 Continental Diamond Fibre Corp.
 Cordo Chemical Corp.
 Crystal-X Corp.
 Custom Tool & Mfg. Co.
 Dalmo Victor Co., Div.-Textron, Inc.
 Dixon Corp.
 Douglas Aircraft Co., Inc.
 Duracote Corp.
 Durez Plastics Div.-Hooker Chemical Corp.
 Eastern Chemical Div.-Hooker Chemical
 Corp.
 Eljay Corp.
 Emerson Plastics Corp.
 Eubanks Industries, Inc.
 Fairchild Aircraft & Missiles Div., Fair-
 child Engine & Airplane Corp.

Food Machinery & Chemical Corp.-Dapon
 Dept.
 Food Machinery & Chemical Corp.-Epoxy
 Dept.
 Food Machinery & Chemical Corp., Ord-
 nance Div.
 Franklin Fibre-Lamitex Corp.
 Garlock Packing Co.
 General American Transportation Corp.
 General Electric Co., Missile & Space
 Vehicle Dept., Pa.
 General Plastics Corp.
 B F. Goodrich Aviation Products
 Goodyear Aircraft Corp.
 Grant-Lehr Corp.
 Harco Containers Div.-Harbor Boat Build-
 ing Co.
 Heil Process Equipment Corp.
 Hercules Powder Co., Chemical Propul-
 sion Div.
 *HORKEY-MOORE ASSOCIATES, SUB-
 HOUSTON FEARLESS CORP.
 Walter J. Hyatt Co., The
 Insulation Mfrs. Corp.
 Johns-Manville Sales Corp.
 Kelsey-Hayes Co.
 Kidde Aero-Space Div., Walter Kidde &
 Co., Inc.
 H. Koch & Sons
 Lam-Ply, Inc.
 Lamtex Industries Inc.
 Lone Star Plastics Co., Inc.
 Lunn Laminates, Inc.
 Magee-Bralla & Associates
 Mc Millan Companies, The
 Mc Millan Lab., Inc.
 Mica Insulator Div.-Minnesota Mining &
 Mfg. Co.
 *MINNESOTA MINING & MFG. CO.
 Molding Corp. of America
 Narmco Mfg. Co.
 National Vulcanized Fibre Co.
 Naugatuck Chemical Div.-U. S. Rubber
 Co.
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Norrthorp Corp.
 Olin Mathieson Chemical Corp., N. Y.
 Olympic Plastics Co., Inc.
 Owens-Corning Fiberglass Corp.
 Parsons Corp., Special Products Div.
 Piasecki Aircraft Corp.
 Plastic Age Sales, Inc.
 Plastics Distributor of New England
 Prewitt Aircraft Co.
 REF Mfg. Corp.
 Raven Industries Inc.
 Raybestos-Manhattan, Inc.
 Reeves Bros. Inc., Vulcan Rubber Div.
 Rogers Corp.
 Scientific-Atlanta, Inc.
 Seaman Products, Div.-Seaman Paper Co.
 Skadyne, Inc.
 Specialty Electronics Development Corp.
 Stahlin Bros. Inc.
 Structural Fibers, Inc.
 Swedlow Inc.
 Snythane Corp.
 Tapco Group, Thompson Ramo Wool-
 dridge Inc.
 Temco Aircraft Corp.
 Tetrafluor, Inc.
 Textstar Plastics, Div.-The Textstar Corp.
 Thompson Ramo Wooldridge Inc.
 Topper Mfg. Co., Inc.
 Turco Products, Inc.
 United States Chemical Milling Corp.
 United States Rubber Co.
 Westinghouse Electric Corp., Micarta Div.
 Winder Aircraft Corp. of Florida
 Wolverine Diesel Power Co.
 Young Development Div., Hercules Powder
 Co.

RELAYS

a. Coaxial
 b. Cross-Bar
 c. D'Arsonval
 d. Differential
 e. Frequency Selective
 f. High Voltage
 g. Impulse
 h. Keying & Break-In
 i. Latching
 j. Mercury
 k. Microwave
 l. Overload
 m. Overvoltage & Undervoltage
 n. Photoelectric
 o. Plate Circuit
 p. Polarized

q. Power
 r. Rotary
 s. Sensitive
 t. Stepping
 u. Subminiature
 v. Telephone
 w. Thermal
 x. Thermostatic Delay
 y. Time Delay
 z. Timing
 a-l. Vibrating Reed Type
 *ABRAMS INSTRUMENT CORP., g, s, t.
 Acro Div., Robertshaw-Fulton Controls, g,
 h, i, q, s.
 Advance Relays, Electronics Div., Elgin
 National Watch Co., a, f, h, i, l, o, q,
 r, s, u, v, w, y.
 Aemco Inc., f, q, u.
 Aerolite Electronics Corp.,
 Agastat Timing Instruments-Elastic Stop
 Nut Corp. of America, y, z.
 Airtron, Div.-Lifton Industries, k.
 Allied Control Co., Inc., a, d, f thru i,
 l, m, o thru s, u, v, y.
 Allied International Corp., a.
 American Instrument Co., Inc., j, q, s, y.
 Amerperite Co., Inc., y.
 Arrow-Hart & Hegeman Electric Co., The,
 i, l, m, q, r, y.
 Assembly Products, Inc., c, d, l, m.
 Augat Brothers, Inc.
 Automatic Electric Sales Corp., g, i, p,
 r, s, t, v, y.
 Automatic Switch Co., d, e, m, q, s, y.
 Automatic Timing & Controls, Inc., t, y.
 Babcock Relays, Inc., d, g, i, l, m, o thru
 s, u, v.
 Barber-Colman Co., d, i, p, s.
 Baso Inc., s, y.
 Beckman-Systems Div., j.
 Bernco Engrg. Corp., j.
 James G. Biddle Co., e, a-l.
 Blonder-Tongue Labs., Inc., w.
 Branson Corp., g, l, m, o thru r, u, w
 thru z.
 *BRISTOL CO., THE, u, a-l.
 Bristol Motors Div.-Vocaline Co. of
 America, Inc., y.
 CG Electronics Corp., a-l.
 Cable Electric Products Inc., a, q, w.
 Cameralex Div., The, Federal Mfg. &
 Engrg. Corp., k, x.
 Chalcor Engrg. Corp., y.
 Clark Controller Co., The., f, i, l, m, p,
 w thru z.
 Comar Electric Co., b, d, e, g, h, i, m,
 n, p, s, u, v, y.
 Couch Ordnance, Inc., o, r, s, u.
 Cramer Controls Corp., y, z.
 Curtiss-Wright Corp., Electronics Div., i,
 w, y, z.
 Daystrom Inc., Weston Instruments Div.,
 c, d, f, i, m, n, p, q, s, u.
 Destron Co., z.
 Don-Lan Electronics Inc., a, k.
 Dow-Key Co., a.
 Durakool, Inc., j, y.
 Eagle Signal Co., y, z.
 Ebert Electronics Corp., i, j, l, n, q, s,
 w, y.
 Thomas A. Edison Ind. Instrument Div.-
 Mc Graw-Edison Co., c, d, m, o, p, r,
 s, w thru z.
 Eitel-McCullough, Inc.
 Electro Tec Corp., r, s.
 Electro Tec Corp., Virginia Div., q.
 Electro-Mechanical Specialties Co., Inc.,
 d, e, i, l, m, o, r, t, u, y.
 Electronic Computer Co., Inc., a-l.
 Electronic Control Corp., n, y.
 Electronic Speciality Co., a, d, e, u, y, z.
 Electron-Radar Products, f, j, l, n, w, y.
 Emertron, Sub.-Emerson Radio & Phono-
 graph Corp., k, w, y, z.
 Exact Engrg. & Mfg. Inc., d.
 FXR, Inc., k.
 Fairfield Engrg. Corp., e, q, z.
 Farmer Electric Products Co., Inc., n.
 Filters, Inc., g, i, l, m, o thru s, u.
 Five Star Co., The, q, s.
 Ford Instrument Co., Div.-Sperry Rand
 Corp., q.
 G-V Controls, Inc., e, l, m, w thru z.
 General Automatic Corp., d, g, h, i, l
 thru p, s, v, y.
 General Communication Co., a, k.
 General Controls Co., x, y, z.
 General Electric Co., d, i, o, p, q, s, u,
 v, y.
 General Electric Co., Apparatus Sales

Div., d thru q, l, m, n, q, y, z.
Globe Electrical Mfg. Co., i, r, s, v, y.
Fred Goat Co., Inc., The, o, v.
B. F. Goodrich Aviation Products, d.
Gorham Electronics-Div.-Gorham Mfg. Co., k.
Hagen Mfg. Co., y, z.
Haley Electronics Co., i, n, s.
Hammett-Mercury-Rex Div., k.
George E. Harris & Co., Inc., a, h, i, s thru v, x, y, a-l.
Hart Mfg. Co., The, g, p thru s, u.
Hartman Electrical Mfg. Co., The, d, e, i, l, m, p, q, s, y.
Hathaway Instruments, Inc., w.
A. W. Haydon Co., The, g, t, y, z.
Heinemann Electric Co., l, y.
Hermetic Seal Corp. & Thermal Controls, Inc., i, l, m, p, s, u, w, x, z.
HI-G Inc., i, m, p, r, s, u, y.
Hillburn Electronic Prods. Co., g, h, i, l, n thru q, s thru v.
Hi-Spec Electronics Corp., o, q, s.
Honeywell, Marion Instruments Div., c, s.
Imtra Corp., i, t, v.
Indsl. Prod.-Danbury Knudsen Div.-Amphenol-Borg Electronics Corp., a.
Industrial Timer Corp., y, z.
International Instruments Inc., c.
Jack & Heintz, Inc., e, l, m, q, y.
James Electronics Inc., a, d, p, s, a-l.
Jennings Radio Mfg. Corp., a, f, l.
E. F. Johnson Co., f, q.
Jordan Electronics, Div.-Victoreen Instrument Co., m, y, z.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., b, d, e, g, p, t, v, y.
Kurman Electric Co., Sub.-Crescent Petroleum Corp., d, f, g, h, l thru q, s, u, v, y.
Land-Air Inc., Sub.-California Eastern Aviation, Inc., r, t.
Arthur S. La Pine & Co., q.
Leach Corp., f thru i, l, m, p thru z, a-l.
Lear, Inc., d, i, p, q, r, t, u.
Lee Electric & Mfg. Co., m.
Leetronics, Inc., f, t.
G. H. Leland Inc., r, t.
Liquidometer Corp., The, s.
Livingston Electronic Corp., w, y.
Magnecraft Electric Co., i, q, s, u, v, y.
Magnetic Devices, Inc., a, i, p, r.
P. R. Mallory & Co., Inc., l, u, y.
Marion Instrument Div.-Minneapolis-Honeywell Regulator Co., a, c, u.
Mason Electric Corp., l, q, r, t, y.
Master Specialties Co., y.
Microdot Inc., a.
Motorola, Inc., k, a-l.
Muirhead Instruments Inc., d.
National Electronics, f, l, m, n, q, w, z.
E. V. Naylor Labs., Inc., l, o, q, r, u, y.
Networks Electronic Corp., e, f, g, w.
Northrop Corp., t.
Pacific Relays, Inc., m, o, q, s, u, y.
Pacific Scientific Co., g, i, o, r thru u, y, z, a-l.
M. V. Palmer, Inc., t, v.
Penn Keystone Corp., i, p, s, u.
Peschel Electronics, Inc., f.
Phaostron Instrument & Electronic Co., s.
Phillips Control Corp., d, f, i, l, o, q, s, u, v, y, z.
Piqua Engrg. Inc., d, p, q.
Joseph Pollak Corp., a, f, n, o, q, s, u, v, y.
Potter & Brumfield, Div.-American Machine & Foundry Co., f, g, i, l thru v, y.
Price Electric Corp., a, f, i, l, o thru v, y.
RBM Controls Div.-Essex Wire Corp., b, d, f, l, q, s, u, v.
Radar Relay, Inc., s.
***RADIO CORP. OF AMERICA**
Reed Instrument Co., g, p, u.
Reed Research Inc., g, p, u.
Relay Sales Inc., a, d, f thru j, l, o thru z.
Relays, Inc., d, f, h, m, o, s, u, v.
Resitron Labs., Inc., l, m.
Reverse Corp. of America, Sub., Neptune Meter Co., a-l.
M. H. Rhodes, Inc., y.
Safety Electrical Equipment Corp., l, m.
Secode Corp., g, i.
Servo-Tek Products Co., s.
Sigma Instruments, Inc., d, g thru j, l

thru q, s, t, u.
Simpson Electric Co., c.
Space Components, Inc., g, p, u.
Standard Electromagnetics Div.-Cornell Dubilier Electric Corp., a, g, h, i, n, o, q, t, u, v.
Stewart & Stevenson Services, Inc., m.
Stromberg-Carlson Div.-General Dynamics Corp., v.
Struthers-Dunn, Inc., a, d, f thru i, l, m, o, q thru z.
Sun Electric Corp., Aeronautical Div., k.
Tapco Group, Thompson Ramo Wooldridge Inc., a, y.
Teletrome Mfg. Corp., q, s, t.
Telkor, Inc., a-l.
Tempo Instrument Inc., m, y, z.
Terado Co., s.
Texas Instruments Inc., l, m, w, x.
Thompson Ramo Wooldridge Inc., a, y.
Torwico Electronics, Inc., d, e, i, l, m, p, s, y.
Tranco Products, Inc., a, k.
Transistor Devices Inc., m, s, w, x, y.
Trepac Corp. of America, e, h, p, q, s, y, z.
Tung-Sol Electric, Inc., w, y.
Twix Mfg. Co., Inc., y.
George Ulanet Co., w, x, y.
Union Switch & Signal, Div.-Westinghouse Air Brake Co., o, r, u.
United Control Corp., y.
U. S. Relay-Electronics, Div.-A. S. R. Products Corp., b, d, e, f, i, l, m, o, p, q, s, u, v, w, y.
United States Instrument Corp., i, s, t, v, w.
Vap-Air Aeronautical Products Div., Vapor Heating Corp., f, q.
Varo, Mfg. Co., Inc., e, l, m, s, y, z, a-l.
Vocaline Co. of America Inc., y.
Voi-Shan Electronics, y, z.
Wacline, Inc., c, e.
Wells Industries Corp., n.
Westinghouse Electric Corp., d, f, i, l, m, n, q, w, y.
Wheelock Signals Inc., a, h, i, p, q, s, u, v.
G. C. Wilson & Co., y.
Winatic Corp., The, q.
Zenith Electric Co., d, q, s, y, z.

RELEASE MECHANISMS

Aerocal Div., Aeronca Mfg. Corp.
Armament Div.-Universal Match Corp. Associated Co., Inc.
Beckman & Whitley, Inc., Missile Products Div.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Utica Div., Bendix Aviation Corp.
Bermite Powder Co.
Bowmar Instrument Corp.
Bowser, Inc.
Burlkyn Co.
Capewell Mfg. Co.
Clevite Ordnance, Div.-Clevite Corp. Components Corp.
Conax Corp.
E. I. Du Pont De Nemours & Co., Inc.
Eastern Rotorcraft Corp.
Fae Instrument Corp.
Flight Refueling, Inc.
Gabriel Co., Rocket Power-Talco
General Logistics Div., Aeroquip Corp.
Guidance Controls Corp.
B. H. Hadley, Inc.
H. Koch & Sons
Lear, Inc.
Lithium Corp. of America Inc., The Full-ton-Irgon Div.
Lockheed Aircraft Corp., Missiles & Space Div.
***MARTIN CO., THE, DENVER DIV.**
McCormick Selp Associates
Northrop Corp.
Olin Mathieson Chemical Corp., Winchester-Western Div.
On Mark Couplings, Inc.
Ordnance Engrg. Associates, Inc.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Pastushin Industries, Inc.
Patterson Moos Research, Div.-Leeson Corp.
Propellex Chemical Div., Chromalloy Corp.
Research, Inc.
Robot Industries Inc.
Scott Aviation Corp.

Southwest Research Institute
Sunshine Scientific Instrument
Temco Aircraft Corp.
Weber Aircraft Corp.
Western Design, Div.-U. S. Industries, Inc.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.

REMOTE PICKUP, AUDIO

Electronic Applications, Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
Gates Radio Co.
Madigan Corp.
***MARTIN CO., THE, DENVER DIV.**
Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
H. H. Scott, Inc.

REPEATERS, MICROWAVE

Budelman Electronics Corp.
Collins Radio Co.
Joe Davidson & Associates
Designers for Industry, Inc.
Electronic Applications, Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
General Instrument Corp., Defense & Engrg. Products Group
Hammett-Mercury-Rex Div.
Hazeltine Electronics Div.-Hazeltine Corp.
***KEARFOIT DIV., GENERAL PRECISION, INC.**
Lel, Inc.
Microflex Co., Inc.
Motorola, Inc.
M. V. Palmer, Inc.
Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.

REPEATERS, PASSIVE MICROWAVE

Ainslie Corp.
Collins Radio Co.
Joe Davidson & Associates
Designers For Industry, Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
General Instrument Corp., Defense & Engrg. Products Group
Hammett-Mercury-Rex Div.
***KEARFOIT DIV., GENERAL PRECISION, INC.**
Microflex Co., Inc.
Motorola, Inc.
Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.

RESERVOIRS, HYDRAULIC SYSTEMS

American Instrument Co., Inc.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Auto-Control Labs, Inc.
Benbow Mfg. Corp.
Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
California Stamping & Mfg. Co.
Chance Vought Aircraft, Inc.
Colonial Aircraft Corp.
Electrol Inc.
Flight Support, Inc.
General American Transportation Corp.
***HORKEY-MOORE ASSOCIATES, SUB. HOUSTON FEARLESS CORP.**
Hydra-Power Corp.
Janitrol Aircraft Div.-Midland-Ross Corp.
Kahn & Co., Inc.
***MARTIN CO., THE, DENVER DIV.**
Menasco Mfg. Co.
Norris-Thermador Corp.
Northeast Metals Industries, Inc.
Ozone Metal Products Corp.
Richard Philip Co.
Portland Copper & Tank Works Inc.
Pre-Flite Industries Corp.-Sub.-Avco Mfg. Corp.
Pressed Steel Tank Co.
REF Mfg. Corp.
Royal Jet, Div.-Royal Industries, Inc.
Rucker Co., The
Sancor Corp.

Sierra-Schroeder Controls, Div.-Idaho
Maryland Mines Corp.
Simmonds Aerocessories, Inc.
Sweetland Engrg. Co.
Temco Aircraft Corp.
United Aircraft Products, Inc.
Vickers Inc.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Vinson Mfg. Co. Inc.
***WEATHERHEAD CO., THE**
Wells Industries Corp.
Western Design, Div.-U. S. Industries, Inc.
Westholt Mfg. Inc.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.
Whittaker Controls, Div.-Telecomputing Corp.
Young Development Div., Hercules Powder Co.

RESERVOIRS, PNEUMATIC SYSTEMS

Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Benbow Mfg. Corp.
Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Cornelius Co., The, Aero Div.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Flight Support, Inc.

*HORKEY-MOORE ASSOCIATES, SUB.-HOUSTON FEARLESS CORP.

Joy Mfg. Co.
Kahn & Co., Inc.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
***MARTIN CO., THE, DENVER DIV.**
McGregor Mfg. Corp.
Menasco Mfg. Co.
Northeast Metals Industries, Inc.
Portland Copper & Tank Works Inc.
Pre-Flite Industries Corp.-Sub.-Avco Mfg. Corp.

Pressed Steel Tank Co.
Royal Jet, Div.-Royal Industries, Inc.
Rucker Co., The
Sierra-Schroeder Controls, Div.-Idaho
Maryland Mines Corp.
Simmonds Aerocessories, Inc.
Sweetland Engrg. Co.
Temco Aircraft Corp.
United Aircraft Products, Inc.
Vinson Mfg. Co. Inc.
***WEATHERHEAD CO., THE**
Wells Industries Corp.
Weston Hydraulics Ltd., Sub.-Borg-Warner Corp.
Whittaker Controls, Div.-Telecomputing Corp.
Young Development Div., Hercules Powder Co.

RESINS, BONDING

Acheson Colloids Co., Div.-Acheson Industries, Inc.
Adhesive Engrg. Div.-Hiller Aircraft Corp.
Allied International Corp.
American Latex Products Corp.
Aries Laboratories, Inc.
Armstrong Products Co.
Bacon Industries, Inc.
Bendix Aviation Corp.
Carl H. Biggs Co.
Bjorksten Research Labs. for Industry, Inc.
Borden Chemical Co.
Budd Co., The
Catalin Corp. of America
Clarkson Labs., Inc., The
Cordo Chemical Corp.
Dow Corning Corp.
E. I. du Pont De Nemours & Co. Inc.

Durez Plastics Div.-Hooker Chemical Corp.
Eastern Chemical Div., Hooker Chemical Corp.
Emerson & Cuming, Inc.
Food Machinery & Chemical Corp.-Epoxy Dept.
Furane Plastics, Inc.
Hastings Plastics, Inc.
Hercules Powder Co., Chemical Propulsion Div.
Honeycomb Co. of America, Inc.
Insulation Mfrs. Corp.
Kish Industries, Inc.
Lam-Ply, Inc.
Marblette Corp., The
***MINNESOTA MINING & MFG. CO.**
***MINNESOTA MINING & MFG. CO.-**

CHEMICAL DIV.

Mitchell Rand Mfg. Corp.
Monsanto Chemical Co.
C. P. Moyer Co.
Narmco Materials Div., Narmco Industries, Inc.
National Engrg. Products, Inc.
Nautaguck Chemical Div.-U. S. Rubber Co.
Neville Chemical Co.
Permacel
Permatex Co., Inc.
Plastic Age Sales, Inc.
Portland Copper & Tank Works Inc.
Products Research Co.
Raybestos-Manhattan, Inc.
Reichhold Chemicals, Inc.
Ren Plastics, Inc.
Rezolin, Inc.
Milton Ross Metals Co., The
Silicone Products Dept., General Electric Co., Dept. C.
Silicones Div.-Union Carbide Corp.
Topper Mfg. Co., Inc.
United States Rubber Co.
Westinghouse Electric Corp., Micarta Div.

RESINS, ENCAPSULATING

Adhesive Engrg. Div.-Hiller Aircraft Corp.
Allied International Corp.
American Latex Products Corp.
Aries Laboratories, Inc.
Armstrong Products Co.
Bacon Industries, Inc.
Carl H. Biggs Co.
Biwax Corp.
Bjorksten Research Labs. for Industry, Inc.
Borden Chemical Co.
Coast Pro-Seal & Mfg. Co.
Dennis Chemical Co.
Dow Corning Corp.
E. I. du Pont De Nemours & Co. Inc.
Durez Plastics Div.-Hooker Chemical Corp.
Eastern Chemical Div., Hooker Chemical Corp.
Emerson & Cuming, Inc.
Food Machinery & Chemical Corp.-Epoxy Dept.
Furane Plastics, Inc.
Hastings Plastics, Inc.
Insulation Mfrs. Corp.
Kish Industries, Inc.
Lam-Ply, Inc.
Marblette Corp., The
***MINNESOTA MINING & MFG. CO.**
***MINNESOTA MINING & MFG. CO.-**
CHEMICAL DIV.
Mitchell Rand Mfg. Corp.
Monsanto Chemical Co.
Narmco Materials Div., Narmco Industries, Inc.
National Engrg. Products, Inc.
Nautaguck Chemical Div.-U. S. Rubber Co.
Norrich Screw Machine Products
Permacel
Products Research Co.
Reichhold Chemicals, Inc.
Ren Plastics, Inc.
Rezolin, Inc.
Milton Ross Metals Co., The
Silicones Div.-Union Carbide Corp.
Southwest Research Institute
Special Products Dept., Melpar, Inc.
Thor Ceramics, Inc.
Topper Mfg. Co., Inc.
United States Rubber Co.

RESINS, POTTING

Adhesive Engrg. Div.-Hiller Aircraft Corp.
Allied International Corp.
American Latex Products Corp.
Aries Laboratories, Inc.
Armstrong Products Co.
Bacon Industries, Inc.
Carl H. Biggs Co.
Biwax Corp.
Bjorksten Research Labs. for Industry, Inc.
Borden Chemical Co.
Coast Pro-Seal & Mfg. Co.
Dennis Chemical Co.
Dow Corning Corp.
Durez Plastics Div.-Hooker Chemical Corp.
Emerson & Cuming, Inc.
Food Machinery & Chemical Corp.-Epoxy Dept.
Furane Plastics, Inc.
B. F. Goodrich Aviation Products
Hastings Plastics, Inc.

Hercules Powder Co., Chemical Propulsion Div.
Insulation Mfrs. Corp.
Kish Industries, Inc.
Lam-Ply, Inc.
Marblette Corp., The
***MINNESOTA MINING & MFG. CO.**
***MINNESOTA MINING & MFG. CO.-**
CHEMICAL DIV.
Mitchell Rand Mfg. Corp.
Monsanto Chemical Co.
Narmco Materials Div., Narmco Industries, Inc.
National Engrg. Products, Inc.
Nautaguck Chemical Div.-U. S. Rubber Co.
Norrich Screw Machine Products
Pennsalt Chemicals Corp.
Permacel
Plastic Age Sales, Inc.
Products Research Co.
Reichhold Chemicals, Inc.
Ren Plastics, Inc.
Rezolin, Inc.
Milton Ross Metals Co., The
Silicones Div.-Union Carbide Corp.
Special Products Dept., Melpar, Inc.
Thor Ceramics, Inc.
Topper Mfg. Co., Inc.
United States Rubber Co.

RESINS, SYNTHETIC

Allied International Corp.
American Latex Products Corp.
Aries Laboratories, Inc.
Bacon Industries, Inc.
Carl H. Biggs Co.
Biwax Corp.
Bjorksten Research Labs. for Industry, Inc.
Borden Chemical Co.
Budd Co., The
Catalin Corp. of America
Ciba Products Corp.
Clarkson Labs., Inc., The
Coast Pro-Seal & Mfg. Co.
Dayton Rubber Co., The
Dow Chemical Co., The
Dow Corning Corp.
E. I. Du Pont De Nemours & Co. Inc.
Duracote Corp.
Durez Plastics Div.-Hooker Chemical Corp.
Eastern Chemical Div., Hooker Chemical Corp.
Food Machinery & Chemical Corp.-Chemical & Plastics Div.
Food Machinery & Chemical Corp.-Dapson Dept.
Food Machinery & Chemical Corp.-Epoxy Dept.
Furane Plastics, Inc.
B. F. Goodrich Chemical Co.
Grant-Lehr Corp.
Hastings Plastics, Inc.
Hercules Powder Co., Chemical Propulsion Div.
Insulation Mfrs. Corp.
Kish Industries, Inc.
Marblette Corp., The
***MINNESOTA MINING & MFG. CO.**
***MINNESOTA MINING & MFG. CO.-**
CHEMICAL DIV.
Mitchell Rand Mfg. Corp.
Monsanto Chemical Co.
Nautaguck Chemical Div.-U. S. Rubber Co.
Neville Chemical Co.
Permacel
Permatex Co., Inc.
Plastic Age Sales, Inc.
Polymer Corp., The
Raybestos-Manhattan, Inc.
Reichhold Chemicals, Inc.
Schenectady Varnish Co., Inc.
Silicone Products Dept., General Electric Co., Dept. C.
Silicones Div.-Union Carbide Corp.
Southwest Research Institute
Synthane Corp.
Topper Mfg. Co., Inc.
United States Rubber Co.
Westinghouse Electric Corp., Micarta Div.

RESISTANCE THERMOMETER BULBS

Aero Research Instrument Co., Inc.
***ARNOUX CORP.**
Bergen Labs., Inc.
Convair Instruments, Convair Div.-General Dynamics Corp.
Thomas A. Edison Ind. Instrument Div.

Mc Graw-Edison Co.
Electronic Processes Corp. of California
Foxboro Co., The
Garwin, Inc.
Illinois Testing Laboratories, Inc.
Lewis Engrg. Co., The
Minco Products, Inc.
Rosemount Engrg. Co.
Trans-Sonics, Inc.
United Control Corp.

RESISTORS

a. Boroncarbon
b. Carbon Film
c. Decade
d. Deposited Carbon
e. Encapsulated
f. Film
g. Fixed Composition
h. Fixed Wire-Wound
i. Glass
j. High-Frequency
k. High-Temperature
l. High-Voltage
m. Miniature Variable
n. Negative Temperature Coefficient
o. Photo Sensitive
p. Precision
q. Printed Circuit
r. Printed Circuit
s. Rectilinear
t. Silicone
u. Subminiature
v. Tape
w. Temperature Sensitive
x. Variable, Miniature
y. Variable Wire Wound
z. Wire Wound

Ace Coil & Electronics Co., e, p, z.
Adept Industries Inc., q, r.
Aerovox Corp., a, b, d, e, h, k, p, z.
Allies Products Corp., d, e, n, p.
Associated Engineers, Inc., h, z.
Barber-Colman Co., w.
Blonder-Tongue Labs. Inc., Special Products Div., o.
Bourns, Inc., h, m, q, x, y, z.
Bryl Instrument Co., e, h, k thru n, p, q, s, u, w thru z.
Budd Co., The, f, p.
Campbell Industries, Inc., b, d, e, p.
Carbone Corp., The, n, w.
Carborundum Co., The, k, l, n, p, w.
Carborundum Co., Refractories Div., k, n, p.
Carol Electronics Corp., h, p.
Carter Mfg. Corp., m, x, y.
Central Scientific Co., y.
Clark Controller Co., The, h, z.
Clarostat Mfg. Co., Inc., b thru f, h, i, l, m, p, q, s, u, x, y, z.
Computer Instruments Corp., b, f, i thru m, p, s, x.
Continental-Wirt Electronics Corp., b, d, e, f, h, i, m, n, p, q, y, z.
Corning Glass Works, e, f, i thru l, p, q.
Dale Products, Inc., b, d, e, h, k, l, m, p, q, u, z.
Daven Co., The, c, e, f, h thru l, n, p, u, z.
Daysrom Inc., Western Instruments Div., f, h, l, p.
Dejuro-Amsco Corp., Electronic Sales Div., s, u, y, z.
Dmetzer Mfg. Co., c, h, n, p, q, t, u, z.
Eastman Kodak Co., o.
Electra Mfg. Co., b, d, e, f, i, n, p, u.
Electro Instruments, Inc., c, p.
Electromath Corp., k, l, m, p, u, x, y, z.
Electro-Mec Lab., Inc., h, p, y.
Electronic Applications, Inc., d, l, p.
Electronic Brazing Co., z.
Elektro-Serv Co., r.
Erie Resistor Corp., b, d, g, u.
Fenwal Electronics, Inc., n, w.
Ferroxcube Corp. of America, k, l.
G-C Electronics Co., d.
Gamewell Co., The, m, x, y.
General Electric Co., Apparatus Sales Div., h.
General Radio Co., c, h, p, y.
General Transistor Corp., p, z.
Globar Plant, Refractories Div.-The Carborundum Co., g, i, k, l, n, u, w.
Gray Instrument Co., c, h, p, z.
Guidance Controls Corp., m, x, y, z.
Gulton Industries, Inc., w.
Hammett-Mercury-Rex Div., h, l, z.
Hansen Electronics Co., q, r, v.

Hardwick, Hindle, Inc., h, y, z.
Helipot Div.-Beckman Instruments, Inc., h, p.
Hi Q Div., Aerovox Corp., a, b, d, p, q, u.
Industrial Instruments Inc., c.
Instrument Resistors Co., c, e, h, k, p, u, z.
Instrument Div., The Budd Co., f, p, w.
Interstate Electronics Inc., b, d, f thru i, k.
Janco Corp., p.
Keystone Carbon Co., n, w.
Lear, Inc., d thru g, i, o thru r, u, w, x.
Lectrohm, Inc., h, q, t, y, z.
Leeds & Northrup Co., p.
Legris Resistor Corp., a, b, d thru h, m, p, u, x, y, z.
Lewis Engrg. Co., The, w.
P. R. Mallory & Co. Inc., b, e, h, i, k, m, q, u, x, y, z.
McMillan Companies, The, b, f.
Mepco, Inc., b thru f, h, i, k, n, p, t, u, z.
Metaplast Co., Inc., d.
Miller Electro-Research Labs., p, w.
Minco Products, Inc., w.
*MINNESOTA MINING & MFG. CO., w.
Muirhead Instruments Inc., c, h, p, z.
Mullenbach Div.-Electric Machinery Mfg. Co., h, k, p, y, z.
New England Instrument Co., y.
Non-Linear Systems, Inc., e, p.
Nucleonic Products Co., w.
Ohio Carbon Co., The, g, h, z.
Onondaga Electronics Div., Speer Carbon Co., g, q.
Phaoston Instrument & Electronic Co., b, z.
Polarad Electronics Corp., j.
Potter Aeronautical Corp., h.
Precision, Inc., e, h, p, q, w, z.
Pyrofilm Resistor Co., Inc., b, d, e, i, k, p, u.
Q-Circuits, Div.-Etching Co. of Calif., q.
*RAVEN CORP. OF AMERICA
Raden Industries Inc., h.
Reon Resistor Corp., e, h, m, p, q, x, z.
Resistance Products Co., f, i, l, p, q, z.
Resistors, Inc., h, y, z.
Rinco, Inc., c, y.
Rosemount Engrg. Co., w.
Sage Electronics Corp., h.
Shallcross Mfg. Co., e, h thru l, p, q, z.
Shallite, Inc., e, h, q, z.
W. S. Shamban & Co., q.
Spectrol Electronics Corp., m, q, u, x, y, z.
Sprague Electric Co., b thru f, h, i, k, l, q, u, z.
Stackpole Carbon Co., g.
States Co., The, n.
Technical Apparatus Builders, b, d, g, h, p, z.
Technology Instrument Corp., b, d, e, f, h, i, k, m, n, p thru s, u, w thru z.
Texas Instruments Inc., b, d, e, f, l, k, n, p, q, w.
Topper Mfg. Co., Inc., e, h, p, x, y, z.
Trans-Sonics, Inc., w.
Tru-Ohm Products Div.-Model Eng. & Mfg., Inc., h, q, y.
Tucson Instrument Corp., x, y.
H. W. Tuttle & Co., h, z.
United Control Corp., w.
United Mineral & Chemical Corp., d.
U. S. Science Corp., Div.-Topp Industries, Inc., h, m, p, s, y, z.
Victoreen Instrument Co., d.
Victory Engrg. Corp., w.
Wells Industries Corp., m, q, u, x, y, z.
Westinghouse Electric Corp., h, y, z.
S. S. White Industrial Div., g.
Yellow Springs Instrument Co., The, w.

RESOLVERS

American Electronics, Inc.
American Electronics Incorporated
Beckman Instruments, Inc., Berkeley Div.
Bendix Aviation Corp.
Bendix Aviation Corp.-Montrose Div.
Cedar Engrg. Div.-Control Data Corp.
Cliffon Precision Products Co., Inc.
Computer Instruments Corp.
Conrad & Moser
Control Data Corp.
Joe Davidson & Associates
Daystrom Inc., Transcoil Div.
Daystrom Inc., Weston Instruments Div.
Diehl Mfg. Co.

Eclipse-Pioneer Div., Bendix Aviation Corp.
Ford Instrument Co., Div.-Sperry Rand Corp.
George E. Harris & Co., Inc.
IMC Magnetics Corp.
*KEARFOTT DIV., GENERAL PRECISION, INC.
Ketay Dept., Norden Div., United Aircraft Corp.
Kollsman Instrument Corp. Sub-Standard Coil Products Co., Inc.
Lear, Inc.
Librascope Div., General Precision, Inc.
*MARTIN CO., THE, DENVER DIV.
Motorola, Inc.
Muirhead Instruments Inc.
Norden Div., United Aircraft Corp.
John Oster Mfg. Co., Avionic Div.
PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y.
Packard Bell Computer Corp.
Reeves Instrument Corp.
Servo Consultants Ltd.
Victory Engrg. Corp.

RESTRICTORS, HYDRAULIC SYSTEMS

Arkwin Industries, Inc.
Arnav Aircraft Associates, Inc.
Benbow Mfg. Corp.
Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Bowser, Inc.
Chance Vought Aircraft, Inc.
Electrol Inc.
B. H. Hadley, Inc.
Hydra-Power Corp.
Integral Corp.
Kemp Aero Products
Richard Philip Co.
Rimak, Inc.
Ronson Hydraulic Units Corp.
Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp.
Simmonds Aerocessories, Inc.
A. U. Stone & Co., Inc.
Sweetland Engrg. Co.
United Aircraft Products, Inc.
U. S. Industries, Inc.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Vinson Mfg. Co. Inc.
Waterman Hydraulics Corp.

RETRACTING MECHANISM UNITS

*BEAVER PRECISION PRODUCTS INC.
Bowser, Inc.
Conax Corp.
Electrol Inc.
Flight Support, Inc.
Gabriel Co., Rocket Power-Talco
B. H. Hadley, Inc.
Haskel Engrg. & Supply Co.
Jack & Heintz, Inc.
Kemp Aero Products
Lear, Inc.
Lithium Corp. of America Inc.,
The Fulton-Ircon Div.
Menasco Mfg. Co.
On Mark Couplings, Inc.
Ronson Hydraulic Units Corp.
Simmonds Aerocessories, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Temco Aircraft Corp.
U. S. Industries, Inc.
Weber Aircraft Corp.
Western Design, Div.-U. S. Industries, Inc.
Western Gear Corp.-Precision Products Div.

RETRACTORS, LANDING GEAR

Bowser, Inc.
Continental-Emsco Co., Div.-
The Youngstown Sheet & Tube Co.
Electrol Inc.
Gabriel Co., Rocket Power-Talco
Hydra-Power Corp.
Jack & Heintz, Inc.
Kemp Aero Products
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Lear, Inc.
Menasco Mfg. Co.
Ronson Hydraulic Units Corp.
Simmonds Aerocessories, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Sweetland Engrg. Co.
Temco Aircraft Corp.

U. S. Industries, Inc.
Weber Aircraft Corp.
Western Design, Div.-U. S. Industries, Inc.
Western Gear Corp.-Precision Products
Div.

REVERBERATION UNITS

Audio Instrument Co., Inc.
Electronic Applications, Inc.
Gates Radio Co.
Industrial Acoustics Co., Inc.

RHEOSTATS

Aero Electronics Corp.
James G. Biddle Co.
Bourne, Inc.
Clark Controller Co., The
Clarostat Mfg. Co., Inc.
Continental-Wirt Electronics Corp.
Dejour-Amsco Corp., Electronic Sales Div.
General Electric Co., Apparatus Sales Div.
General Radio Co.
Lear, Inc.
Legris Resistor Corp.
P. R. Mallory & Co. Inc.
Model Rectifier Corp.
Rex Rheostat Co.
Herman H. Sticht Co., Inc.
Superior Electric Co., The
Technology Instrument Corp.
Tru-Ohm Products Div.-Model Eng. &
Mfg., Inc.
Westinghouse Electric Corp.

RHODIUM

Bram Metallurgical Chemical Co.
Deringer Metallurgical Corp.
Engelhard Industries, Inc.
GIBSON Electric Co.
NUMEC-Nuclear Materials & Equipment
Corp.
Semi-Elements, Inc.
Technic Inc.
United Mineral & Chemical Corp.
Var-Lac-Oid Chemical Co.

RINGS

- a. Carbon Packing
- b. Clamping
- c. Collector
- d. Expansion
- e. Hydraulic Back-Up
- f. Oil Sealing
- g. Retainer
- h. Scraper
- i. Sealing
- j. Shock Absorber
- k. Slip
- l. Slip & Brush Assemblies
- m. Special

Ace Products Co., h.
Acushnet Process Co., f.
Advanced Products Co., The, i, m.
Aero Bolt & Screw Co., Inc., e, f, g, i.
Aero Gasket Corp., f.
Aero Spares, Inc., e, g, h.
Airflyte Electronics Co., k, l.
Airhardware, Inc., g.
All Chrome Mfg. Co., e, h.
All Specs Corp., e, g, h, i.
Allied International Corp., f, i.
Allied Plastics Supply Corp., a, e, f, i.
Alloys Unlimited, Inc., m.
American Felt Co., f, g, i, j, m.
American Standard Products, Inc., m.
American Welding & Mfg. Co., The, g, m.
Anchor Packing Co., The, f, g.
Arrowhead Products, Div.-Federal-Mogul-
Bower Bearings, Inc., f.
Associated Technical Sales Co., h.
Auburn Mfg. Co., The, e, f, h, i, m.
Bacon Industries, Inc., m.
Wallace Barnes Div. Associated Spring
Corp., b, d thru g, i, k, l, m.
Best Aircraft Corp., h, m.
Bonny Mfg. Corp., i.
Breeze Corporations, Inc., k, l.
Capewell Mfg. Co., m.
Capital City Mfg. Co., Inc., c, g, m.
Carbone Corp., The, a, j, k.
Carborundum Co., The, i, m.
Carborundum Co., Latrobe Plant, Re-
fractories Div., f, i.
Cartriseal Corp., i.
Chicago Rawhide Mfg. Co., f, i.
Continental Rubber Works, f, i.
C. Lee Cook Co., Airtomic Products Div.,
a, b, f thru i, m.

Crystal-X Corp., m.
Edgewater Steel Co., m.
Electro Tec Corp., k, l.
Electro Tec Corp., Virginia Div., k, l.
Electro-Miniatures Corp., c, k, l.
Emerson Plastics Corp., f, g, i.
Engelhard Industries, Inc., c, k.
Federal Machine Co. Inc., m.
Flight Refueling, Inc., i, m.
Fluorocarbon Co., The, e thru i.
Foursome Mfg. Co., Inc., b, g.
Futurecraft Corp., e, i, m.
General Devices, Inc., k, l, m.
General Findings & Supply Co.,
Industrial Div., c, k.
General Gasket Inc., e, i.
Gorham Electronics-Div.-Gorham Mfg.
Co., k, l.
Goshen Rubber Co., Inc., f, i.
Graphite Metallizing Corp., c, f, k, l.
Greene, Tweed & Co., e thru i.
Gries Reproducer Corp., m.
Halogen Insulator & Seal Corp., e, f, g.
Haskel Engrg. & Supply Co., b, e, f, g,
i, j, m.
Walter K. Jaros Aircrafters, e thru j.
Johns-Manville Sales Corp., f.
Kennametal Inc., i.
Kerns Mfg. Corp., b.
Keystone Carbon Co., k, l.
King Fifth Wheel Co.,
Kolcast Industries-Div. Thompson Ramo
Wooldridge Inc., b, i.
Koppers Co., Inc., Metal Products Div.,
c, d, f, h, i, m.
Kwikset Powered Metal Products, c, g.
Ladish Co., m.
Lear, Inc., k, l, m.
Machine Products Div., New Haven Trap
Rock Co., m.
Magnetic Controls Co., c.
Minnesota Rubber Co., f, i, m.
National Carbon Co., Div.-Union Carbide
Corp., a, f, l.
Norrich Plastics Corp., i, m.
Norrich Screw Machine Products, m.
Nuclear Development Corp. of America, i.
Ohio Carbon Co., The, a, i.
Ohlson Empire Inc., e, g, h, k, m.
Pacific Scientific Co., c, k, l.
Parker Seal Co., Div.-Parker-Hannifin
Corp., e, f, i, m.
Penn Fibre & Specialty Co., Inc., e thru k.
Penn-Michigan Mfg. Corp., c.
Richard Philip Co., e, g, h, m.
Precision Lapping Co., Inc., f.
Precision Rubber Products Corp., m.
Ravenna Metal Products Div.-Standard
Screw Co., g.
Reliable Spring & Wire Forms Co., m.
Roberts Toledo Rubber Co., The, i.
Rogers Corp., e, i.
Rubbercraft Corp. of California, e, f, i, j.
Russell Mfg. Co., j.
St. Marys Carbon Co., a, f, i, k, l, m.
Shenango Furnace Co., The, Centrifugally
Cast Products Div., d thru g, i.
Solar Aircraft Co., b.
Southwest Research Institute, d, f.
Specialty Products Corp., b, g.
Speer Carbon Co., a.
Stackpole Carbon Co., a, f, i.
Stanley-Judd Div.-The Stanley Works, g,
h, i, m.
Standard Steel Works, Div.-Baldwin-Lima-
Hamilton Corp., m.
Stillman Rubber Co., f, i.
Superior Carbon Products Inc., a, c, g,
h, i, k, l, m.
Temco Aircraft Corp., c.
Tetrafluor, Inc., e, g, h, i, k, m.
Texas Instruments Inc., c, k, l.
Unison Products Inc., c, k, l.
United Aircraft Products, Inc., f, i.
U. S. Plastic Molding Corp., c, k.
United Wire & Supply Corp., m.
Waldes Kohinoor, Inc., g, m.
Westholt Mfg. Inc., c, m.

RIVETS

Abbott Screw & Mfg. Co.
Adam Metal Supply Inc.
Aero Spares, Inc.
Airhardware, Inc.
All Specs Corp.
All Metal Screw Products Co., Inc.
Aluminum Co. of America
Atlas Tack Corp.
Best Aircraft Corp.
Bethlehem Steel Co.
Chase Brass & Copper Co., Inc.

Cherry Rivet Div.-Townsend Co.
Chicago Rivet & Machine Co.
Continental Screw Co.
Deringer Metallurgical Corp.
Deutsch Co., The, Electronic Components
Div.
Division Lead Co.
Engelhard Industries, Inc.
Federal Screw Products Inc.
General Findings & Supply Co., Industrial
Div.
Gibson Electric Co.
Gries Reproducer Corp.
H. M. Harper Co.
John Hassall, Inc.
Hi-Shear Rivet Tool Co.
Walter K. Jaros Aircrafters
Keystone Bolt & Nut Corp.
Mercury Air Parts Co., Inc.
National Rivet & Mfg. Co.
Norrich Screw Machine Products
Ohlson Empire Inc.
Olympic Screw & Rivet Corp.
Parker Seal Co., Div.-Parker-Hannifin
Corp.
Pastushin Industries, Inc.
Pioneer Aluminum Inc.
Republic Steel Corp.
Screw Corp.
Skyproducts
Star Stainless Screw Co.
Thomson, Judson L.
Townsend Co., Cherry Rivet Div.
Unified Industries, Inc.
United Shoe Machinery Corp.
Vector Electronic Co., Inc.

RIVETS, BLIND

AVDEL
Adam Metal Supply Inc.
Aero Spares, Inc.
Airhardware, Inc.
Aluminum Co. of America
Cherry Rivet Div.-Townsend Co.
Deutsch Co., The, Electronic Components
Div.
Deutsch Fastener Corp.
Dill Mfg. Co., The
E. I. Du Pont de Nemours & Co. Inc.
Farwest Mfg. Div., Inc.
B. F. Goodrich Aviation Products
Hi-Shear Rivet Tool Co.
Huck Mfg. Co.
Walter K. Jaros Aircrafters
Keystone Bolt & Nut Corp.
Mercury Air Parts Co., Inc.
Norrich Screw Machine Products
Ohlson Empire Inc.
Olympic Screw & Rivet Corp.
Pastushin Industries, Inc.
Republic Steel Corp.
Skyproducts
Southco Div., South Chester Corp.
Townsend Co., Cherry Rivet Div.
United Shoe Machinery Corp.

RIVETS, EXPLOSIVE

Bermite Powder Co.
E. I. Du Pont de Nemours & Co. Inc.
Hercules Powder Co., Chemical
Propulsion Div.
Walter K. Jaros Aircrafters
Ohlson Empire Inc.
Ordnance Engrg. Associates, Inc.
Ordnance Research & Development Co.,
Div.-Bermite Powder Co.
Skyproducts

ROCKET LAUNCHING DEVICES

Aerocal Div., Aeronca Mfg. Corp.
Aero-Test Equipment Co., Inc.
American Machine & Foundry Co.,
Greenwich Engrg. Div.
***AMERICAN STEEL FOUNDRIES,
HAMMOND DIV.**
Armament Div.-Universal Match Corp.
Basic Tool Industries, Inc.
Beacon Steel Corp.
***BEAVER PRECISION PRODUCTS INC.**
Becker & Whitley, Inc., Missile Product
Div.
Bendow Mfg. Corp.
***BENDIX PRODUCTS DIV., BENDIX
AVIATION CORP.**
Bermite Powder Co.
E. W. Bliss Co.
Colonial Aircraft Corp.
Continental-EmSCO Co., Div.-The Youngs
town Sheet & Tube Co.

Cromer Mfg. & Engrg., Inc.
***EXCELCO DEVELOPMENTS INC.**
 Food Machinery & Chemical Corp., Ordnance Div.
 Gabriel Co., Rocket Power-Talco General Electric Co., Missile & Space Vehicle Dept.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hoefner Corp.
***HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP.**
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Marquardt Corp., The
 W. L. Maxson Corp., The
 Mechanics Research Div., American Machine & Foundry Co.
 Northrop Corp.
 Ordnance Engrg. Associates, Inc.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Portland Copper & Tank Works Inc.
 Republic Aviation Corp., Missile Systems Div.
 Rimak, Inc.
 Stamping Div.-Rockwell Standard Corp.
 Standard Armament Inc.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Temco Aircraft Corp.
 Thompson Ramo Wooldridge Inc.
 Trailmobile, Inc.
 Twin Coach Co., Aircraft-Missiles U. S. Pipe & Foundry Co., Steel & Tubes Div.
 Welded Construction Inc.
 Wells Industries Corp.
 Westinghouse Electric Corp.
 Winder Aircraft Corp. of Florida
 Young Development Div., Hercules Powder Co.

ROCKETS

***AEROJET-GENERAL CORP.**
 Allison Div., General Motors Corp.
 Amcel Propulsion Inc.
 American Rocket Co.
 Arde-Portland, Inc.
 Atlantic Research Corp.
 Beckman & Whitley, Inc., Missile Products Div.
 Bermite Powder Co.
 Brooks & Perkins, Inc.
 Gabriel Co., Rocket Power-Talco General Electric Co., Missile & Space Vehicle Dept., Pa.
 General Electric Co., Rocket Engine Section
 B. F. Goodrich Aviation Products
 Grand Central Rocket Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hahn & Clay
 Hercules Powder Co., Chemical Propulsion Div.
 Marquardt Corp., The
 McCormick Selpel Associates
 Norris-Thermador Corp.
 Olin Mathieson Chemical Corp., Winchester-Western Div.
 Ordnance Research & Development Co., Div.-Bermite Powder Co.
 Propellax Chemical Div., Chromalloy Corp.
 Republic Aviation Corp., Missile Systems Div.
 Solid Propulsion Ops., Rocketdyne Div., North American Aviation.
 Southwest Research Institute
 Temco Aircraft Corp.
 United Technology Corp.
***WEATHERHEAD CO., THE**
 Young Development Div., Hercules Powder Co.

ROD END BEARINGS

Billings & Spencer Co., The
 Honti Engrg. & Mfg. Co.
 Walter K. Jaros Aircrafters
 Norrich Screw Machine Products
 Randall Graphite Bearings, Inc.
 Raway Bearing Co., Inc.
 Shafer Bearings, Chain Belt Co.
 Southwest Products Co.
***STEPHENS ADAMSON MFG. CO., SEAL MASTER BEARING DIV.**

RODS, TUNGSTEN

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
 Alloys Unlimited Inc.
 Associated Engrg. & Mfg. Corp.
 Bergen Carbide Co.
 Bram Metallurgical Chemical Co.
 Electronic Parts Mfg. Co., Inc.
 Fansteel Metallurgical Corp.
 General Electric Co., Lamp Metals & Components Dept.
 Universal-Cyclops Steel Corp.
 Var-Lac-Oid Chemical Co.
 Weh Chang Corp.
 Wai Met Alloys Co.
 Westinghouse Electric Corp.

ROPE, WIRE

American Chain & Cable Co., Inc.
 Bergen Wire Rope Co.
 Bethlehem Steel Co.
 Chase Brass & Copper Co., Inc.
 Continental-Emasco Co., Div.-The Youngstown Sheet & Tube Co.
 General Electric Co., Lamp Metals & Components Dept.
 Walter K. Jaros Aircrafters
 John A. Roebings Sons Div.
 Joseph T. Ryerson & Son, Inc.
 United States Steel Corp.

ROTATORS

All Products Co.
***ANDREW CORP.**
 Anflab Inc.
 Aronson Machine Co., Inc.
 CG Electronics Corp.
 Cornell-Dubilier Electric Corp.
 Hoover Electric Co.
 Lear, Inc.
 McGregor Mfg. Corp.
 Robot Industries Inc.
 Scientific-Atlanta, Inc.
 Talley Corp., The
 Western Gear Corp.-Precision Products Div.
 Wind Turbine Co.

ROTOR ASSEMBLIES, GAS TURBINE ENGINE

Allison Div., General Motors Corp.
 Christie Machine Works
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Fenn Mfg. Co., The
 General Devices, Inc.
 Leach Corp.
 Lycoming Div., Avco Corp.
 Marquardt Corp., The
 McGregor Mfg. Corp.
 Napier Engines Inc.
 Parker-Hartford Corp., The
 Schellens-True Corp.
 Solar Aircraft Corp.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Therm, Inc.
 Thompson Ramo Wooldridge Inc.
 Western Design, Div.-U. S. Industries, Inc.
 Western Gear Corp.-Precision Products Div.
 Whiton Machine Co., The

ROTOR CASTINGS

Allison Div., General Motors Corp.
 Aluminum Co. of America
 American Brake Shoe Co.
 Ampco Metal, Inc.
 Bethlehem Steel Co.
 Westinghouse Electric Corp.

ROTORS

Allison Div., General Motors Corp.
 Bethlehem Steel Co.
 Bogue Electric Mfg. Co.
 Christie Machine Works
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Eicor Div.-Scranton
 General Devices, Inc.
 Genisco, Inc.
 Paul E. Gerst & Co.
 Lycoming Div., Avco Corp.

*MARTIN CO., THE, DENVER DIV.

Parker-Hartford Corp., The
 Pesco Products Div., Borg-Warner Corp., Calif.
 Precision, Inc.
 Schellens-True Corp.

Talley Corp., The
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 Western Gear Corp.-Precision Products Div.
 Westinghouse Electric Corp.
 Whiton Machine Co., The

RUBBER

a. Conductive
 b. Hard
 c. Insulation
 d. Natural
 e. Synthetic
 Abesto Corp., a thru e.
 Acushnet Process Co., a, d, e.
 Aero Gasket Corp., e.
 Allied Plastics Supply Corp., b thru e.
 American Felt Co., e.
 American Latex Products Corp., a thru e.
 Anchor Packing Co., The, d, e.
 Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc., a thru e.
 Associated Gaskets, Inc., a, c, d, e.
 Auburn Mfg. Co., The, a, c, d, e.
 Colonial Rubber Co., a, c, d, e.
 Connecticut Hard Rubber Co., The, a, c, e.
 Continental Rubber Works, a, c, d, e.
 Darnell Corp. Ltd., a, b, e.
 Dayton Rubber Co., The, e.
 Dow Corning Corp., a, c, e.
 E. I. Du Pont de Nemours & Co., Inc., e.
 Firestone Indsl Products Co., Div.-Firestone Tire & Rubber Co., a, b, d, e.
 Garlock Packing Co., a thru e.
 General Electric Co., Lamp Metals & Components Dept., d, e.
 General Gasket Inc., d, e.
 General Tire & Rubber Co., The, Industrial Products Div., d, e.
 B. F. Goodrich Aviation Products, a thru e.
 B. F. Goodrich Chemical Co., e.
 B. F. Goodrich Industrial Products Co., b, d, e.
 B. F. Goodrich Sponge Products, d, e.
 Goodyear Tire & Rubber Co., The, Aviation Products Div., a, c.
 Gordon Rubber & Packing Co. Inc., a, b, d, e.
 Goshen Rubber Co., Inc., a, d, e.
 Guided Missile Div., The Firestone Tire & Rubber Co., a thru e.
 George E. Harris & Co., Inc., d, e.
 E. F. Houghton & Co., e.
 Huntington Rubber Mills, a thru e.
 Kirkhill Rubber Co., b thru e.
 Luzerne Rubber Co., b, d, e.
 Mechanical Rubber Products Co., d, e.
***MINNESOTA MINING & MFG. CO.-CHEMICAL DIV., e.**
 Minnesota Rubber Co., c, d, e.
 J. J. Monaghan Co., Inc., a, d, e.
 Natvar Corp., c.
 Naugatuck Chemical Div.-U. S. Rubber Co., a thru e.
 Newth Rubber Co., c, d, e.
 Norrich Plastics Corp., b.
 Parker-Hannifin Corp., e.
 Penn Fibre & Specialty Co., Inc., c, d, e.
 Precision Rubber Products Corp., e.
 Raybestos-Manhattan, Inc., a thru e.
 Reeves Brothers, Inc., e.
 Reeves Bros. Inc., Vulcan Rubber Div., c, d, e.
 Resistoflex Corp., e.
 Fred T. Roberts & Co., d, e.
 Roberts Toledo Rubber Co., The, b, d, e.
 Rogers Corp., b, e.
 Rubbercraft Corp. of California, a thru e.
 Silicone Products Dept., General Electric Co., Dept. C., c, e.
 Silicones Div.-Union Carbide Corp., a, c, e.
 Stillman Rubber Co., a, c, d, e.
 Swan Rubber Co., d, e.
 Thermoid Div.-H. K. Porter Co., Inc., a thru e.
 Union Asbestos & Rubber Co., e.
 United States Rubber Co., a thru e.
 Western Felt Works & Acadia Synthetic Products Div., a, c, e.
 Wilbur & Williams Co., Inc., The, e.
 Zipper tubing Co., The, a, e.

RUDDERS

Aerocal Div., Aerona Mfg. Corp.

Colonial Aircraft Corp.
Guided Missile Div., The Firestone Tire
& Rubber Co.
*LAVELLE AIRCRAFT CORP.
Monrovia Aviation Corp.
Northrop Corp.
Reynolds Metals Co., Sheffield Missile
Plant
Temco Aircraft Corp.
Winder Aircraft Corp. of Florida

SAFETY EQUIPMENT

Abesto Corp.
Air Reduction Sales Co., Div.-Air Reduc-
tion Co., Inc.
All American Engrg. Co.
American Latex Products Corp.
American Optical Co., Safety Products
Div.
Ampco Metal, Inc.
Aro Equipment Corp., The
Avco Corp., Crosley Div.
Aviation Textile Associates
Bar-Ray Products, Inc.
S. Blickman, Inc.
Boyt Harness Co.
Brown-Line Corp.
Cambridge Filter Corp.
Capewell Mfg. Co.
David Clark Co., Inc.
Compudyne Corp.
Conax Corp.
C. R. Daniels, Inc.
Davis Instruments
Finnell System, Inc.
Fisher Scientific Co.
Fluid Power Inc.
General Scientific Equipment Co.
Gentex Corp.
Globe Automatic Sprinkler Div., The Fyr-
Fyter Co.
Hamilton Watch Co., Military Products
Div.
Hardman Tool & Engrg., Co.
*HAWS DRINKING FAUCET CO.
Hocks Labs.
Industrial Acoustics Co., Inc.
Kidde Aero-Space Div., Walter Kidde &
Co., Inc.
*MARTIN CO., THE, DENVER DIV.
Medical Supply Co.
Mine Safety Appliances Co.
J. J. Monaghan Co., Inc.
National Cylinder Gas, Div.-Chemetron
Corp.
Nuclear Development Corp. of America
Pacific Scientific Co.
Photobell Co., Inc.
Protectoseal Co., The
Reeves Bros. Inc., Vulcan Rubber Div.
Reliance Industrial Prod., Inc.
Republic Aviation Corp., Missile Systems
Div.
Rose Mfg. Co.
Scott Aviation Corp.
Seiscor, Div.-Seismograph Service Corp.
Sellstrom Mfg. Co.
Sierra Engrg. Co.
Southwest Research Institute
Standard Safety Equipment Co.
Switlik Parachute Co., Inc.
U. S. Plastic Molding Corp.
Universal Transistor Products Corp.
Wells Industries Corp.
Zep Aero

SAFING, ARMING & FUZING SYSTEMS

*AEROJET-GENERAL CORP.
Aerojet-General Corp., Downey Plant
*AIRESEARCH MFG. CO., DIV.-THE
GARRETT CORP.
American Machine & Foundry Co.
Avco Corp., Crosley Div.
Avco Corp., Research & Advanced
Development Div.
Beckman & Whitley, Inc., Missile Products
Div.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Aviation Corp., York Div.
Bermite Powder Co.
Bulova Research & Development Labs.,
Inc.
Chance Vought Aircraft, Inc.
Cleveland Metal Specialties Co.,
Electronics Div.
De Havilland Aircraft of Canada, Ltd.,
Special Products Div.

Eastman Kodak Co.
Emertron, Sub.-Emerson Radio &
Phonograph Corp.
Fae Instrument Corp.
Ford Instrument Co., Div.-Sperry Rand
Corp.
Gabriel Co., Rocket Power-Talco
General Electric Co., Missile & Space
Vehicle Dept.
General Electric Co., Missile & Space
Vehicle Dept., Pa.
General Mills, Inc.
Hamilton Watch Co., Military Products
Div.
*HORKEY-MOORE ASSOCIATES, SUB.-
HOUSTON FEARLESS CORP.
Hughes Tool Co., Aircraft Div.
Integrated Dynamics Div., Globe
Industries, Inc.
Lear, Inc.
Librascope Div., General Precision, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
McCormick Selph Associates
Minneapolis-Honeywell Regulator Co.,
Missile Equipment Div.
Olin Mathieson Chemical Corp., N. Y.
Ordnance Research & Development Co.,
Div.-Bermite Powder Co.
Patterson Moos Research, Div.-Leesona
Corp.
Ramo-Wooldridge, Div.-Thompson Ramo
Wooldridge Inc.
Raymond Engrg. Lab., Inc.
Republic Aviation Corp., Missile Systems
Div.
Singer Military Products Div.-The Singer
Mfg. Co.
Special Products Dept., Melpar, Inc.
Thiokol Chemical Corp., Hunter-Bristol
Div.

SALT BATHS

Associated Testing Labs., Inc.
California Stamping & Mfg. Co.
General Electric Co., Apparatus Sales Div.
Hallikainen Instruments
Hevi-Duty Electric Co., Div.-Basic
Products Corp.
A. F. Holden Co., The
Temperature Engrg. Corp.

SAWS

Air Speed Tool Co.
Armstrong-Blum Mfg. Co.
W. O. Barnes Co., Inc.
Black & Decker Mfg. Co., The
Brown & Sharpe Mfg. Co.
California Stamping & Mfg. Co.
Capewell Mfg. Co.
Clausing Div.-Atlas Press Co.
Forsberg Mfg. Co., The
Handicraft Tools, Inc., Div.-X-Acto, Inc.
Miller Falls Co.
Norwalk Cutter Sharpening Co.
Simonds Saw & Steel Co.
Snap-on-Tools Corp.
L. S. Starrett Co., The
W. Whitney Stueck, Inc.
Thor Power Tool Co.

SCALES, OSCILLOSCOPE

Adept Industries Inc.
Allen B. Du Mont Labs., Inc.
Howe Scale Co., The
Jan Hardware Mfg. Co., Inc.
James Millen Mfg. Co., Inc.
Sillcocks-Miller Co.
Sun Dial Corp.

SCANNERS, REFLECTED & TRANSMITTED LIGHT

Blowers Inc.
Budd Lewyt Electronics, Inc.
CBS Laboratories, Div.-Columbia
Broadcasting System
Cameralex Div., The, Federal Mfg. &
Engrg. Corp.
De Havilland Aircraft of Canada, Ltd.,
Special Products Div.
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.
Electro Instruments, Inc.
General Devices, Inc.
Hammett-Mercury-Rex Div.
Hass Instrument Corp., The
Instrument Development Labs., Inc.
Kollsman Instrument Corp., Sub.-Standard
Coil Products Co. Inc.
Northrop Corp.

Optomechanisms Inc.
Philco Corp.-Govt. & Industrial Group
Scanivalve Co.
Singer Military Products Div.-The Singer
Mfg. Co.
Skiatron Electronics & Television Corp.
Spectra Electronics Corp.
Television Utilities Corp.
Wells Industries Corp.

SCOOPS

Autoscrew Co., Inc.
Mercury Air Parts Co., Inc.
Star Stainless Screw Co.

SCREW DRIVERS

Albertson & Co., Inc.
Ampco Metal, Inc.
Black & Decker Mfg. Co., The
Burklyn Co.
Continental Screw Co.
Foredom Electric Co., Inc.
Gardner-Denver Co.
Handicraft Tools, Inc., Div.-X-Acto, Inc.
Hunter Tool Co.
Industrial Tools Mfg. Corp., Sub-Pendle-
ton Tool Industries, Inc.
Mercury Air Parts Co., Inc.
Miller Falls Co.
Moody Machine Products Co., Inc.
Overload Control Co.
Owatonna Tool Co. Precision Hydraulic
Div.
Proto Tool Co.
Richmont, Inc.
Snap-On-Tools Corp.
L. S. Starrett Co., The
Thor Power Tool Co.
United Shoe Machinery Corp.
Vaco Products Co.
Vlcek Tool Co.
Vlier Engrg. Corp.
Wesrep Corp.
Zephyr Mfg. Co. Inc.

SCREW, MACHINE PRODUCTS

Abalon Precision Mfg. Corp.
Abbot Screw & Mfg. Co.
Acme Industrial Co.
Actuator Products Div., Geartronics Corp.
Aero Bolt & Screw Co., Inc.
Aero Mfg. & Mach. Co., Inc.
Aero Spares, Inc.
Aero Supply Mfg. Inc.
Aero-Stat Co., The
Aerotron Supply Co.
Airhardware, Inc.
All Specs Corp.
Allied Precision Products, Inc.
Allied Products Corp.
Allmetal Screw Products Co., Inc.
Alpine Electronic Components, Inc.
Aluminum Co. of America
Amatom Electronic Hardware Co. Inc.
American Screw Co.
American Standard Products, Inc.
Ampco Metal, Inc.
Anderson, Greenwood & Co.
Anti-Corrosive Metal Products Co., Inc.
Apex Tool Co., Inc., The
Arnold Corp.
Atlas Screw & Specialty Co.
Autoscrew Co., Inc.
Bennett-Feragen
Bergen Carbide Co.
Best Aircraft Corp.
Bland Burner Co., The
Bruce Engrg. Co.
Buchmann Spark-Wheel Corp.
Capital City Mfg. Co., Inc.
Chandler Products Corp.
Chemplast, Inc.
Chicago Screw Co., The, Div.-Standard
Screw Co.
Continental-EmSCO Co., Div.-The Youngs-
town Sheet & Tube Co.
Custom Products Corp.
Deutsch Co., The, Electronic Components
Div.
Dill Mfg. Co., The
Doak Aircraft Co. Inc.
Dumont Engrg. Co.
Eastern Specialty Co., The
Electronic Paris Mfg. Co., Inc.
Eljay Corp.
Elzee Metal Products Co., Inc.
Emerson Plastics Corp.
Eureka Williams Corp.
Federal Screw Products Inc.
Franklin Fibre-Lamitex Corp.

Freeman, Co., The
 General Aniline & Film Corp., Anasco Div.
 Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products
 Div.
 H. M. Harper Co.
 Hartford Machine Screw Co., Div.-Stand-
 ard Screw Co.
 Harvey Aluminum
 Henry & Miller Industries, Inc.
 Hobbs Mfg. Co.
 Walter K. Jaros Aircrafters
 K-W Engrg. Works
 Keystone Bolt & Nut Corp.
 Keystone Electronics Corp.
 L & R Mfg. Co.
 Link-Belt Co.
 Massachusetts Gear Div.-Geartronics Corp.
 Mayflower Mfg. Co.
 Moran Co.
 J. I. Morris Co.
 Napoleon Products Co., The
 National Screw & Mfg. Co., The
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Nutmeg Screw Machine Products Co.
 Ohlson Empire Inc.
 Olympic Screw & Rivet Corp.
 Richard Philip Co.
 Precision Metal Products Co. Inc.
 Red Devil Mfg. Co.
 Research Development Mfg. Inc.
 J. R. Robbins Co.
 Rosan, Inc.
 Scovill Mfg. Co.
 Sinclair Mfg. Co.
 C. M. Smillie & Co.
 Standard Pressed Steel Co.
 Star Stainless Screw Co.
 Herman D. Steel Co.
 T. O. D. Mfg. Co. Inc.
 Taft-Peirce Mfg. Co., The
 Thompson-Brewer & Co. Div.-American
 Machine & Foundry Co.
 Torrington Co., The
 Voi-Shan Mfg. Co., Div.-Voi-Shan Indus-
 tries, Inc.
 Waltham Screw Co.
 Western Automatic Machine Screw Co.,
 Div.-Standard Screw Co.
 William Whytock Co.

SCREWS, SELF-TAPPING

Abbott Screw & Mfg. Co.
 Aero Spares, Inc.
 Aerotron Supply Co.
 Airhardware, Inc.
 All Specs Corp.
 Allmetal Screw Products Co., Inc.
 Aluminum Co. of America
 Alvo Nut & Bolt Co., Inc.
 American Screw Co.
 Anti-Corrosive Metal Products Co., Inc.
 Atlas Screw & Specialty Co.
 Best Aircraft Corp.
 Camcar Screw & Mfg. Co., Div.-Textron
 Industries, Inc.
 Central Screw Co.
 Cherry Rivet Div.-Townsend Co.
 Continental Screw Co.
 Eaton Mfg. Co., Reliance Div.
 Federal Screw Products Inc.
 Gries Reproducer Corp.
 H. M. Harper Co.
 Holub Industries, Inc.
 Walter K. Jaros Aircrafters
 Keystone Bolt & Nut Corp.
 J. I. Morris Co.
 National Screw & Mfg. Co., The
 Nylok Corp., The
 Ohlson Empire Inc.
 Olympic Screw & Rivet Corp.
 Republic Steel Corp.
 Screw Corp.
 Star Stainless Screw Co.
 Thompson-Brewer & Co. Div.-American
 Machine & Foundry Co.
 Voi-Shan Mfg. Co., Div.-Voi-Shan Indus-
 tries, Inc.

SCREWS, SET

Abbott Screw & Mfg. Co.
 Aero Bolt & Screw Co., Inc.
 Aero Spares, Inc.
 Aerotron Supply Co.
 Airhardware, Inc.
 All Specs Corp.
 Allen Mfg. Co.
 Allied Products Corp.
 Allmetal Screw Products Co., Inc.
 Aluminum Co. of America

Alvo Nut & Bolt Co., Inc.
 Amatam Electronic Hardware Co. Inc.
 Anti-Corrosive Metal Products Co., Inc.
 Atlas Screw & Specialty Co.
 Autoscrew Co., Inc.
 Best Aircraft Corp.
 *BRISTOL CO., THE
 Camcar Screw & Mfg. Co., Div.-Textron
 Industries, Inc.
 Chandler Products Corp.
 Chase Brass & Copper Co., Inc.
 Chicago Screw Co., The, Div.-Standard
 Screw Co.
 Federal Screw Products Inc.
 Gries Reproducer Corp.
 H. M. Harper Co.
 Hartford Machine Screw Co., Div.-Stand-
 ard Screw Co.
 Walter K. Jaros Aircrafters
 Keystone Bolt & Nut Corp.
 Mercury Air Parts Co., Inc.
 Moran Co.
 J. I. Morris Co.
 National Screw & Mfg. Co., The
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Nylok Corp., The
 Ohlson Empire Inc.
 Republic Steel Corp.
 Standard Pressed Steel Co.
 Star Stainless Screw Co.
 Voi-Shan Mfg. Co., Div.-Voi-Shan Indus-
 tries, Inc.
 Western Automatic Machine Screw Co.,
 Div.-Standard Screw Co.

SCREWS, STANDARD

Abbott Screw & Mfg. Co.
 Aero Bolt & Screw Co., Inc.
 Aero Spares, Inc.
 Aero-Stat Co., The
 Aerotron Supply Co.
 Airhardware, Inc.
 All Specs Corp.
 Allen Mfg. Co.
 Allmetal Screw Products Co., Inc.
 Aluminum Co. of America
 Alvo Nut & Bolt Co., Inc.
 American Screw Co.
 Ampco Metal, Inc.
 Anti-Corrosive Metal Products Co., Inc.
 Atlas Screw & Specialty Co.
 Autoscrew Co., Inc.
 Best Aircraft Corp.
 Birnbach Radio Co., Inc.
 *BRISTOL CO., THE
 Camcar Screw & Mfg. Co., Div.-Textron
 Industries, Inc.
 Central Screw Co.
 Chandler Products Corp.
 Chase Brass & Copper Co., Inc.
 Chicago Screw Co., The, Div.-Standard
 Screw Co.
 Continental Screw Co.
 Eaton Mfg. Co., Reliance Div.
 Federal Screw Products Inc.
 Gries Reproducer Corp.
 H. M. Harper Co.
 Hartford Machine Screw Co., Div.-
 Standard Screw Co.
 Hi-Shear Rivet Tool Co.
 Walter K. Jaros Aircrafters
 Keystone Bolt & Nut Corp.
 Mercury Air Parts Co., Inc.
 J. I. Morris Co.
 National Screw & Mfg. Co., The
 Nylok Corp., The
 Ohlson Empire Inc.
 Olympic Screw & Rivet Corp.
 Republic Steel Corp.
 Scovill Mfg. Co.
 Screw Corp.
 Standard Pressed Steel Co.
 Star Stainless Screw Co.
 Western Automatic Machine Screw Co.,
 Div.-Standard Screw Co.

SEALERS, FUEL & OIL TANK

Aero-Stat Co., The
 American Latex Products Corp.
 Avondale Co., The
 Borden Chemical Co.
 Coast Pro-Seal & Mfg. Co.
 Connecticut Hard Rubber Co., The
 Johns-Manville Sales Corp.
 Jonco Aircraft Corp., Sub.-Fairchild En-
 gine & Airplane Corp.
 *MINNESOTA MINING & MFG. CO.
 *MINNESOTA MINING & MFG. CO.-

ADHESIVES, COATING & SEALERS
 DIV.
 Parker Seal Co., Div.-Parker-Hannifin
 Corp.
 Products Research Co.
 Reeves Bros. Inc., Vulcan Rubber Div.
 United Aircraft Products, Inc.
 United Shoe Machinery Corp.

SEALERS, NUCLEAR

Borg-Warner Mechanical Seals, Div. Borg
 Warner Corp.
 Flight Refueling, Inc.
 Marman Div., Aeroquip Corp.
 *MINNESOTA MINING & MFG. CO.
 Parker Seal Co., Div.-Parker-Hannifin
 Corp.
 Portland Copper & Tank Works Inc.
 United Aircraft Products, Inc.
 U. S. Industries Inc.

SEALERS, PROTECTIVE

American Latex Products Corp.
 Avondale Co., The
 Borden Chemical Co.
 Clarkson Labs, Inc., The
 Coast Pro-Seal & Mfg. Co.
 Connecticut Hard Rubber Co., The
 Insulation Mfrs. Corp.
 Lam-Ply, Inc.
 *MINNESOTA MINING & MFG. CO.
 *MINNESOTA MINING & MFG. CO.-
 ADHESIVES, COATING & SEALERS
 DIV.
 Penetone Co., The
 Permatex Co., Inc.
 Products Research Co.
 Sauereisen Cements Co.
 Silicone Products Dept., General Electric
 Co., Dept. C.
 Sillcocks-Miller Co.

SEALING SERVICE, HERMETIC

Aero-Stat Co., The
 Alite Div., U. S. Stoneware Co.
 Bearing Inspection, Inc.
 A. Biederman, Inc.
 Connecticut Hard Rubber Co., The
 Deutsch Co., The, Electronic Components
 Div.
 Electro-Seal Corp.
 Fisher Engrg. Inc.
 General Laboratory Associates, Inc.
 Livingston Electronic Corp.
 Parker Seal Co., Div.-Parker-Hannifin
 Corp.
 Milton Ross Metals Co., The
 Sherman Indsl. Electronics Co., Div.-
 Electronic Development Inc.
 Sillcocks-Miller Co.
 Sphere Co. Inc., The
 Torwico Electronics, Inc.
 Warren Components, Div.-El-Tronics, Inc.

SEALS

a. Carbon
 b. Ceramic to Metal
 c. Dust Excluder
 d. Grease & Oil
 e. Hermetic & Pressurized
 f. Hydraulic
 g. Insulating
 h. Metal-to-Glass
 i. Missile
 j. Oil
 k. Pipe Joint
 l. Pump
 m. Pump-Mechanical
 n. Shaft
 o. Special Purpose
 ACF Industries Inc., k.
 A. P. M. Corp., e.
 Acushnet Process Co., c, d, f, j thru o.
 Advanced Products Co., The b, d, e, f,
 h thru k, o.
 Aero Gasket Corp., f, j.
 Aero Leather Products Co., c.
 Aerolite Electronics Corp., h.
 Aero-Stat Co., The, d, e, f, i, o.
 Alite Div., U. S. Stoneware Co., b, e, o.
 Allied International Cor., e, k.
 Alloys Unlimited Inc., b, e, h.
 Amatam Electronic Hardware Co. Inc.
 American Feldmuehle Corp., b.
 American Felt Co., c thru g, i thru o.
 American Instrument Co., Inc., f.
 American Latex Products Corp., a thru o.
 American Lava Corp., b.
 American Potash & Chemical Corp., Na-

tional Northern Div., h.
 Anchor Packing Co., The, j.
 Apex Tool Co., Inc., The, d, j.
 Armstrong Cork Co., d, f, i, m.
 *ARNOUX CORP., b, e, g, h.
 Associated Engrg. & Mfg. Corp., h.
 Auburn Mfg. Co., The, c, d, f, g, h, i, k, l, n, o.
 Avca Corp., o.
 B G Corp., The, b.
 Bacon Industries, Inc., g.
 Wallace Barnes Div. Associated Spring Corp., d, f, i, n, o.
 Barnes Development Co., n.
 L. J. Barwood Mfg. Co. Inc., b thru o.
 Bellofram Corp., f, o.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., b, n.
 Best Aircraft Corp., j.
 J. Bishop & Co., Platinum Works, h.
 Bonny Mfg. Corp., f, g, l, m, o.
 Borden Chemical Co., b, g, k.
 Borg-Warner Mechanical Seals, Div. Borg-Warner Corp., b, i, l thru o.
 Braun-Knecht-Heimann Co., Industrial Div., h.
 Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co., e.
 H. H. Buggie Div., Burndy Corp., n.
 Byron Jackson Pumps, Inc., l thru o.
 Carbone Corp., The, a.
 Carborundum Co., The, b, h, o.
 Carborundum Co., Refractories Div., b, g, n.
 Cartriseal Corp., a, b, d, f, i, j, l, m, n.
 Caterpillar Tractor Co., Defense Products Dept., o.
 Central Safety Equip. Co., o.
 Centralab, Div.-Globe-Union, Inc., b, g.
 Ceramaseal, Inc., b.
 Chemplast, Inc., o.
 Chicago Rawhide Mfg. Co., a thru d, f, i, j, m, n, o.
 Clark Bros. Co., Div.-Dresser Operations, Inc., a, j, n, o.
 Clover Industries, Inc., c.
 Colonial Rubber Co., f, i, j.
 Commonwealth Felt Co., c, d, g, j, n, o.
 Components Corp., f, i, k, o.
 Connecticut Hard Rubber Co., The, d, e, g, h, i, o.
 Consolidated Vacuum Corp., h.
 L. L. Constantin & Co., e, h.
 Continental Felt Co., c, d.
 Continental Rubber Works, o.
 C. Lee Cook Co., Airtomic Products Div., a, d, f, i, l, n, o.
 Cords Porcelain Co., b.
 Cords Chemical Corp., h.
 Cornelius Co., The, Aero Div., e, f, n, o.
 Corning Glass Works, b, h.
 D. S. D. Mfg. Co., The, e, f, j.
 C. R. Daniels, Inc., d, o.
 Darcoid Co. Inc., The, j thru n.
 Deutsch Co., The, Electronic Components Div., e, h, o.
 Division Lead Co., h.
 Dixon Corp., g, i, m, n.
 John L. Dore Co., n, o.
 Dow-Elco, Inc., e, f, i, o.
 Du-Co Ceramics Co., b.
 Duramic Products, Inc., b.
 Dyna-Therm Chemical Corp., g.
 Eco Engrg. Co., k, l, m.
 Edwards High Vacuum Ltd., l, n, o.
 Emerson Plastics Corp., d, f, g, l thru o.
 Enfab Inc., g.
 Felters Co., The, c, j.
 Finnell System, Inc., o.
 Fluorocarbon Co., The, c, e, f, g, i, j, l thru o.
 Frenchtown Porcelain Co., b, e, g.
 Fusite Corp., h.
 Futurecraft Corp., d, f, j.
 Garde Mfg. Co., e.
 Garlock Packing Co., a, c, d, f, i thru o.
 General Ceramics Div., Indiana General Corp., b.
 Gits Brothers Mfg. Co., a, b, d, f, i, j, l thru o.
 Gladding, McBean & Co., b.
 B. F. Goodrich Aviation Products, e.
 Goshen Rubber Co., Inc., f.
 Graphite Metallizing Corp., a, d, j, n.
 Greene, Tweed & Co., d, f, g, j thru o.
 B. H. Hadley, Inc., e, f, i, o.
 Halogen Insulator & Seal Corp., f, o.
 Haskel Engrg. & Supply Co., f, i, l, m, n, o.
 Helwig Carbon Products, Inc., a.
 Herlo Corp., e, i, j.

Hermetic Seal Corp., b, e, h.
 Hermetic Seal Corp. & Thermal Controls, Inc., b, e, h, i.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., e, g, o.
 E. F. Houghton & Co., f.
 ITT Components Div., International Telephone & Telegraph Corp., e, h.
 Isolantite Mfg. Corp., b, g.
 Joclin Mfg. Co., The, d, e, i, j, o.
 Johns-Manville Sales Corp., c, d, f, g, j, l.
 Kennametal Inc.
 Kentucky Metal Products Co., i, n, o.
 Kollmorgen Optical Corp., b, e, h, o.
 Koppers Co., Inc., Metal Products Div., a, n, o.
 Lam-Ply, Inc., b, g, h, k.
 Langley Corp., o.
 Lapp Insulator Co., Inc., Radio Specialties Div., b.
 Lear, Inc., f, j, l, m, o.
 Linear, Inc., a thru o.
 Litton Engrg. Labs., b.
 Livingston Electronic Corp., h, o.
 Machine Products Div., New Haven Trap Rock Co., o.
 Magnetic Seal Corp., b, j, m, n.
 Marman Div., Aeroquip Corp., f, i, k, o.
 McCormick Selph Associates, e.
 Metaplast Co., Inc., b, h.
 *MINNESOTA MINING & MFG. CO., b, j, k.
 Minnesota Rubber Co., d thru g, i, l thru o.
 Mironics Inc., b, e, g, h.
 Molding Corp. of America, e, g.
 Morganite, Inc., a, h.
 National Carbon Co., Div.-Union Carbide Corp., a, d, e, f, l thru o.
 Networks Electronic Corp., e, h.
 Norton Co., New Products Dept., b.
 Nuclear Development Corp. of America, e, k.
 Nureco, Inc., b, h.
 Ohio Carbon Co., The, a, l, n.
 Oil-Dyne, Inc., f, l, n.
 Ordnance Research & Development Co., Div.-Bermite Powder Co., b, e, h.
 Pacific Universal Products Corp., h.
 Parker Seal Co., Div.-Parker-Hannifin Corp., d thru g, i, j, l, n, o.
 Parker-Hannifin Corp., f.
 Peerless Pump Div., Food Machinery & Chemical Corp., l, m, n.
 Permacel, k.
 Permatex Co., Inc., k.
 Richard Philip Co., c, f, n, o.
 Polymer Corp., The, f, g, j.
 Precision Lapping Co. Inc., b, e, h.
 Precision Rubber Products Corp., o.
 Prestite Div., American-Marietta, b, g, h, o.
 Raybestos-Manhattan, Inc., d thru g, i thru l, n, o.
 Reeves Brothers, Inc., o.
 Resistoflex Corp., h, k.
 Resistron Labs., Inc., e, h.
 Fred T. Roberts & Co., o.
 Roberts Toledo Rubber Co., The, d, f, g, m, n, o.
 Robertshaw-Fulton Controls Co., Fulton Sylphon Div., d, e, f, j, l thru o.
 Rocketdayne Div.-North American Aviation, Inc.
 Rogers Corp., f, g.
 Milton Ross Metals Co., The, e, h.
 Rubbercraft Corp. of California, c, d, g.
 St. Marys Carbon Co., a, d, i, l thru o.
 Ray A. Scharer & Co., j.
 Schlegel Mfg. Co., c, g, h.
 Sealectro Corp., g.
 Sealol Corp., a, d, e, f, i, j, l thru o.
 Sealtron Corp., h.
 Sedco, c.
 E. C. Smith Mfg. Co., Inc., b.
 Southwest Research Institute.
 Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co., d, f, n, o.
 Speer Carbon Co., a.
 Sphere Co. Inc., The, b, e.
 Stackpole Carbon Co., a, d, j, l, m.
 Stein Seal Co., l, m, n, o.
 Stillman Rubber Co., d, e, f, i, k, o.
 Stonhard Co., Inc., h, o.
 Strat-O-Seal Mfg. Co., e.
 Superior Carbon Products Inc., a.
 Temco Aircraft Corp., i.
 Tetrafluor, Inc., c, d, f, g, i thru o.
 Texas Instruments Inc., b, h.
 Thor Ceramics, Inc., b, g.

Topper Mfg. Co., Inc., b, g.
 Torwico Electronics, Inc., e, o.
 Transco Products, Inc., o.
 Union Asbestos & Rubber Co., g, l, m, n.
 United Aircraft Products, Inc., d, e, f, i thru m, o.
 United States Graphite Co., The, Div.-The Wickes Corp., a, d, k thru o.
 United States Rubber Co., c, d, i, k.
 Vacuum Research Co., n, o.
 Victor Mfg. & Gasket Co., a thru d, f, j thru o.
 Warren Components, Div.-El-Tronics, Inc., e, h.
 Worthington Corp., f, l thru o.
 X-Pando Corp., b, f, h, i, k.
 Young Development Div., Hercules Powder Co., d, f, o.

SELECTIVE CALLING APPARATUS

Bell & Gossett Co.
 Bruno-New York Industries Corp.
 Collins Radio Co.
 Dage Television Div., Thomson Ramo Wooldridge, Inc.
 Du Kane Corp.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Gates Radio Co.
 Hammarlund Mfg. Co., The
 Houston Fearless Corp.
 ITI Electronics, Inc.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Motorola, Inc.
 Northrop Corp.
 Philco Corp.-Govt. & Industrial Group
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
 Secode Corp.
 United States Instrument Corp.
 Western Union Telegraph Co., The

SENSING DEVICES

Acoustica Associates, Inc.
 Aero Research Instrument Co., Inc.
 American Instrument Co., Inc.
 American Machine & Foundry Co., Government Products, N. Y.
 American Missile Products Co., Inc.
 *ARNOUX CORP.
 Barber-Colman Co.
 Bendix Aviation Corp.
 Bendix Aviation Corp.-Montrose Div.
 Bruno-New York Industries Corp.
 Bulova Research & Development Labs., Inc.
 Consolidated Controls Corp.
 Consolidated Vacuum Corp.
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Designers for Industry, Inc.
 Digital Sensors Inc.
 Djeco, Div.-Djordjevic Engrg. Co.
 Du Kane Corp.
 Eastman Kodak Co.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
 Electro Products Labs., Inc.
 Emertron Sub.-Emerson Radio & Phonograph Corp.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 GPL Div.-General Precision, Inc.
 General Instrument Corp., Defense & Engrg. Products Group
 Genisco, Inc.
 Genisco, Inc., Instrument Div.
 Gulton Industries, Inc.
 B. H. Hadley, Inc.
 Harco Labs., Inc.
 Image Instruments, Inc.
 Infrared Industries, Inc.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
 Lab. for Electronics, Inc.
 Leach Corp.
 Lear, Inc.
 Leland Airborne Products, Div.-American Machine & Foundry Co.
 *LEWIS ENGRG. CO., THE
 Liquidometer Corp., The
 Lycoming Div., Avco Corp.
 Magnetic Circuit Elements, Inc.

Magnetic Controls Co.
Marquardt Corp., The
Minco Products, Inc.
Minneapolis-Honeywell Regulator Co.,
Aeronautical Div.
Minneapolis-Honeywell Regulator Co.,
Semiconductor Products Div.
Motorola, Inc.
Narda Ultrasonics Corp., The
Northrop Corp.
Optomechanisms Inc.
Otis Elevator Co., Defense & Industrial
Div.
Pacific Scientific Co.
Patterson Moos Research, Div.-Leesona
Corp.
Philco Corp.-Govt. & Industrial Group
Philips Electronic Instruments
Production Research Corp., Sub.-Radio
Condenser Co.
Radio Condenser Co.
***RADIO CORP. OF AMERICA**
Revere Corp. of America, Sub., Neptune
Meter Co.
Rosemount Engrg. Co.
Sanders Associates, Inc.
Santa Barbara Research Center
Southwest Research Institute
Specialties, Inc.
Specialty Electronics Development Corp.
Spectra Electronics Corp.
Statham Instruments, Inc.
Talley Corp., The
Taurus Corp.
Teledrome Mfg. Corp.
Thompson Ramo Wooldridge Inc.
Trimount Instrument Co.
Trio Laboratories, Inc.
U. S. Science Corp., Div.-Topp Industries,
Inc.
Varo Mfg. Co., Inc.
Victory Engrg. Corp.
Wells Industries Corp.
Western Union Telegraph Co., The

SEPARATION DEVICES

Aerojet-General Corp., Downey Plant
American Machine & Foundry Co.
Beckman & Whitley, Inc., Missile Prod-
ucts Div.
Bermite Powder Co.
Bowler Inc., Defense Div.
Bulova Research & Development Labs.,
Inc.
Conax Corp.
Joe Davidson & Associates
Dels Tumbling Service
J. W. Dice Co.
Emerron, Sub.-Emerson Radio & Phono-
graph Corp.
Ensign-Bickford Co., The
Fae Instrument Corp.
Fram Corp.
Gabriel Co., Rocket Power-Talco
General American Transportation Corp.
General Electric Co., Missile & Space
Vehicle Dept., Pa.
Hi-Shear Rivet Tool Co.
***HORKEY-MOORE ASSOCIATES, SUB.-
HOUSTON FEARLESS CORP.**
Warner Lewis Co., Div.-Fram Corp.
Lithium Corp. of America Inc., The Fulton-
Iron Div.
Lockheed Aircraft Corp., Missiles & Space
Div.
Lycoming Div., Avco Corp.
McCormick Selp Associates
Olin Mathieson Chemical Corp., N. Y.
Olin Mathieson Chemical Corp., Win-
chester-Western Div.
Ordnance Research & Development Co.,
Div.-Bermite Powder Co.
Patterson Moos Research, Div.-Leesona
Corp.
Philco Corp.-Govt. & Industrial Group
Precision Equipment Co., Inc.
Propellex Chemical Div., Chromalloy Corp
Selas Corp. of America
Temco Aircraft Corp.
Thiokol Chemical Corp., Hunter-Bristol
Div.
Weber Aircraft Corp.
Wells Industries Corp.

SEPARATORS, OIL

Bendix Utica Div., Bendix Aviation Corp.
Bowler Inc., Defense Div.
Briggs Filtration Co., The
Brooks & Perkins, Inc.
Genisco, Inc.

Harman Equipment Co.
***HORKEY-MOORE ASSOCIATES, SUB.-
HOUSTON FEARLESS CORP.**
Kieley & Mueller, Inc.
Warner Lewis Co., Div.-Fram Corp.
Nooter Corp.
Precision Equipment Co., Inc.

SERVO MECHANISM CONTROL SYSTEMS

ACF Industries Inc.
Advance Industries, Inc.
Advance Instrument Corp.
Aero Supply Mfg. Inc.
***AEROJET-GENERAL CORP.**
Aeronautical Machinists Inc.
Aerona Mfg. Corp.-Aerospace Div.
Aircraft Accessory Turbine Dept.-General
Electric Co.
***AIRSEARCH MFG. CO., DIV.-THE GAR-
RETT CORP.**
Airpax Electronics Inc., Cambridge Div.
Airpax Electronics Inc., Seminole Div.
American Brake Shoe Co., Kellogg Div.
American Machine & Foundry Co.
American Machine & Foundry Co., Green-
wich Engrg. Div.
Anhlab Inc.
Armament Div.-Universal Match Corp.
Avian, Inc.
Ball Brothers Research Corp.
Barber-Colman Co.
Belock Instrument Corp.
Bendix Aviation Corp.
***BENDIX AVIATION CORP., HAMILTON
DIV.**
Bendix Aviation Corp., Montrose Div.
Bendix Corp., The Eclipse-Pioneer Div.
***BENDIX PRODUCTS DIV., BENDIX AVIA-
TION CORP.**
Bendix-Pacific Div., Bendix Aviation Corp.
Bermite Powder Co.
Bogue Electric Mfg. Co.
Bowmar Instrument Corp.
***BRISTOL CO., THE**
Bruno-New York Industries Corp.
Budd Lewyt Electronics, Inc.
Bulva Research & Development Labs.,
Inc.
Cadillac Gage Co.
Cameraflex Div., The, Federal Mfg. &
Engrg. Corp.
Chance Vought Aircraft, Inc.
Clevite Ordnance, Div.-Clevite Corp.
Coleman Electronics, Inc.
Compudyne Corp.
Consolidated Controls Corp.
Control Data Corp.
Control Technology Co.
Couter Products, Div.-Model Engrg. &
Mfg., Inc.
Crescent Engrg. & Research Co.
Dalmo Victor Co., Div.-Textron, Inc.
Joe Davidson & Associates
Daystrom, Inc., Control Systems Div.
Daystrom Inc., Pacific Div.
Daystrom Inc., Transicoil Div.
Decker Corp., The
De Havilland Aircraft of Canada, Ltd.,
Special Products Div.
Delco Radio Div.-General Motors Corp.
Designers for Industry, Inc.
Dieco, Div.-Djordjevic Engrg. Co.
Dynatronics, Inc.
Eastern Industries Inc.
Thomas A. Edison Ind. Instrument Div.-
McGraw-Edison Co.
Electro Precision Corp.
Erie Resistor Corp.
Exact Engrg. & Mfg. Inc.
Fae Instrument Corp.
Fairchild Astrionics Div., Fairchild Engine
& Airplane Corp.
Fairfield Engrg. Corp.
J. W. Fecker Div., American Optical Co.
Feedback Controls, Inc.
Fenwal Inc.
Flight Refueling, Inc.
Ford Instrument Co., Div.-Sperry Rand
Corp.
GAP Instrument Corp.
General Aniline & Film Corp., Ansco Div.
General Bronze Electronics Corp.
General Electric Co., Apparatus Sales Div.
General Electric Co., Light Military Elec-
tronics Dept.
General Electric Co., Missile & Space
Vehicle Dept., Pa.
General Electric Co., Ordnance Dept.
General Electro-Mechanical Corp.
Gillfillan Bros. Inc.
Guidance Controls Corp.

Guided Missile Div., The Firestone Tire &
Rubber Co.
B. H. Hadley, Inc.
Hammett-Mercury-Rex Div.
Hoefner Corp.
Hoover Electric Co.
Huyck Systems Co.
Hydra-Power Corp.
Hydraulic Research & Mfg. Co.
ITT Federal Div., International Telephone
& Telegraph Corp.
Ideal-Aerosmith, Div.-Royal Industries, Inc.
Inso Co., Div.-Barry Controls Inc.
Integrated Dynamics Div., Globe Indus-
tries, Inc.
Interstate Electronics Corp.
Jack & Heintz, Inc.
***KEARFOTT DIV., GENERAL PRECISION,
INC.**
Kellogg Switchboard & Supply Co., Com-
munications Div.-IT&T Corp.
Kelsey-Hayes Co.
Kemp Aero Products
Kidde Aero-Space Div., Walter Kidde &
Co., Inc.
Kollmorgen Optical Corp.
Kollsman Instrument Corp., Sub.-Standard
Coil Products Co. Inc.
Land-Air Inc., Sub.-California Eastern
Aviation, Inc.
Lear, Inc.
Leeds & Northrup Co.
***WALLACE O. LEONARD, INC.**
Librascope Div., General Precision, Inc.
Liquidometer Corp., The
Lifton Industries, Inc.
Madigan Corp.
Magnetic Circuit Elements, Inc.
Marquardt Corp., The
McDonnell Aircraft Corp.
Micro Gee Products, Inc.
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co.,
Aeronautical Div.
Minneapolis-Honeywell Regulator Co.,
Missile Equipment Div.
Mitchell Camera Corp.
Muirhead Instruments Inc.
George L. Nankervis Co.
National Co., Inc.
Networks Electronic Corp.
Northrop Corp.
Ordnance Research & Development Co.,
Div.-Bermite Powder Co.
Otis Elevator Co., Defense & Industrial
Div.
Parker-Hannifin Corp.
Pegasus Labs., Inc.
Philco Corp.-Govt. & Industrial Group
Pitometer Log Corp.
***RADIO CORP. OF AMERICA, DEFENSE
ELECTRONICS PRODUCTS**
Radio Development & Research Corp.
Reeves Instrument Corp.
Republic Aviation Corp., Missile Systems
Div.
Research, Inc.
Rimak, Inc.
Sanders Associates, Inc.
Sargent Engrg. Corp.
Servomechanisms, Inc.
Servo-Tek Products Co.
Sierra-Schroeder Controls, Div.-Idaho
Maryland Mines Corp.
Singer Military Products Div.-The Singer
Mfg. Co.
Southwest Research Institute
Southwestern Industrial Electronics Co.
Spectral Electronics Corp.
Sperry Farragut Co., Div.-Sperry Rand
Corp.
Sperry Piedmont Co., Div.-Sperry Rand
Corp.
Statham Development Corp.
Sun Electric Corp., Aeronautical Div.
TRG, Inc.
Talley Corp., The
Tapco Group, Thompson Ramo Wooldridge
Inc.
Technology Instrument Corp.
Teledrome Mfg. Corp.
Temco Aircraft Corp.
Thermo Electric Co., Inc.
Thompson Ramo Wooldridge Inc.
Transicoil Div.-Daystrom Inc.
Trio Laboratories, Inc.
United Sensor & Control Corp.
U. S. Science Corp., Div.-Topp Industries,
Inc.
Varo Mfg. Co., Inc.
Vickers Inc.

Vickers Inc., Div.-Sperry Rand
 Vickers Inc. Electric Products Div.
 Vickers, Inc., Mich.
 Vinson Mfg. Co. Inc.
 Voi-Shan Electronics
 Western Design, Div.-U. S. Industries, Inc.
 Western Gear Corp.-Precision Products
 Div.
 Westgate Lab., Inc.
 Weston Hydraulics Ltd., Sub.-Borg-Warner
 Corp.

SERVO, MEASUREMENT

Advance Industries, Inc.
 Advance Instrument Corp.
 Avien, Inc.
 Bendix Aviation Corp.
 Bulova Research & Development Labs.,
 Inc.
 Chance Vought Aircraft, Inc.
 Control Data Corp.
 Daimo Victor Co., Div.-Textron, Inc.
 Daystrom Inc., Transicoil Div.
 Dynametrics Corp.
 Feedback Controls, Inc.
 Ford Instrument Co., Div.-Sperry Rand
 Corp.
 General Electric Co., Apparatus Sales Div.
 Guided Missile Div., The Firestone Tire &
 Rubber Co.
 Huyck Systems Co.
 Hydraulic Research & Mfg. Co.
 ITT Federal Div., International Telephone
 & Telegraph Corp.
 Interstate Electronics Corp.
***KARFOFF DIV., GENERAL PRECISION,
 INC.**
 Kollman Instrument Corp., Sub.-Standard
 Coil Products Co. Inc.
 Lear, Inc.
 Leeds & Northrup Co.
 Madigan Corp.
 Meletron Corp.
 Micro Gee Products, Inc.
 Minneapolis-Honeywell Regulator Co.,
 Boston Div.
 Muirhead Instruments Inc.
 National Co., Inc.
 Optomechanisms Inc.
 Otis Elevator Co., Defense & Industrial
 Div.
 PSP Engrg. Co., Div.-IMC Magnetics
 Corp., N. Y.
 Philco Corp.-Govt. & Industrial Group
 Reeves Instrument Corp.
 Singer Military Products Div.-The Singer
 Mfg. Co.
 Special Products Dept., Melpar, Inc.
 Sun Electric Corp., Aeronautical Div.
 TRG, Inc.
 Telechrome Mfg. Corp.
 Theta Instrument Corp.
 Topper Mfg. Co., Inc.
 Trio Laboratories, Inc.
 Western Gear Corp.-Precision Products
 Div.

SEXTANTS, PERISCOPE TYPE

Gordon Enterprises
 Kollmorgen Optical Corp.
 Kollman Instrument Corp., Sub.-Standard
 Coil Products Co. Inc.

SHAFTS, FLEXIBLE

***AC SPARK PLUG, THE ELECTRONICS
 DIV.-GENERAL MOTORS**
 Actuator Products Div., Geartronics Corp.
 Albertson & Co., Inc.
 Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Birnbach Radio Co., Inc.
 Electric Autolite Co., The
 B. W. Elliott Mfg. Co., Inc.
 Gordon Enterprises
 Jeffrey Mfg. Co., The
 E. F. Johnson Co.
 Lear, Inc.
 Stow Mfg. Co.
 Wyzenbek & Staff, Inc.

SHAFTS, RIGID

American Nickel Alloy Mfg. Corp.
 Ampco Metal, Inc.
 Belmar Wheel & Machine Co., Inc.
 Bethlehem Steel Co.
 Birnbach Radio Co., Inc.
 Capital City Mfg. Co., Inc.
 Continental-Emsco Co., Div.-The Youngs-
 town Sheet & Tube Co.
 Fenn Mfg. Co., The

Hupp Aviation Div.-Hupp Corp.
 E. F. Johnson Co.
 Kerns Mfg. Corp.
 Ladish Co.
 La Vezzi Machine Works
 Lycoming Div., Avco Corp.
 National Forge Co.
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Richard Philip Co.
 Piasecki Aircraft Corp.
 Edw. Renneburg & Sons Co.
 Research Development Mfg. Inc.
 Joseph T. Ryerson & Son, Inc.
 Standard Steel Works, Div.-Baldwin-Lima-
 Hamilton Corp.
 Superior Industrial Machine Co.
 Tube-Turns Div., Chemetron Corp.
 United States Chemical Milling Corp.
 Utility Brass & Copper Corp.

SHEET METAL PARTS

ACF Industries Inc.
 A & E Metal Specialties Inc.
 Aerocal Div., Aeronca Mfg. Corp.
 Aircraft Tools, Inc.
 Allied Products Corp.
 Allison Div., General Motors Corp.
 Alloy Products Corp.
 Aluminum Co. of America
 Amatom Electronic Hardware Co. Inc.
 American Aluminum Co.
 American Brass Co., The
 American Car & Foundry Div., ACF In-
 dustries, Inc.
 Ampco Metal, Inc.
 Anchor Metal Spinning Co., The
 Anchor Specialty Mfg. Co. Inc.
 Arnolt Corp.
 Artisan Metal Works Co.
 Associated Co., Inc.
 B. H. Aircraft Co., Inc.
 Basic Tool Industries, Inc.
 Cyril Bath Co., The
 Belmar Wheel & Machine Co., Inc.
 Benson Mfg. Co.
 J. F. Bingham Mfg. Co.
 Bowser, Inc.
 Bram Metallurgical Chemical Co.
 Brooks & Perkins, Inc.
 Brunswick Balke Collender Co., The, De-
 fense Products Div.
 Bud Radio, Inc.
 Budd Co., The
 Buffalo Metal Container Corp.
 Butler Mfg. Co.
 Calcor Corp.
 California Stamping & Mfg. Co.
 Carborundum Metals Co., The
 Chance Vought Aircraft, Inc.
 Colonial Aircraft Corp.
 Conrad & Moser
 Craig Systems, Inc.
 D K Mfg. Co.
 Dahlstrom Metallic Door Co.
***DEL MAR ENGRG. LABS.**
 Detroit Stamping Co.
 Douglas Aircraft Co., Inc.
 Dow Chemical Co., The
 Dudwallen Mfg. Co., Inc., The
 Eljay Corp.
 Elzee Metal Products Co., Inc.
 Eureka Williams Corp.
 Fairchild Aircraft & Missiles Div., Fair-
 child Engine & Airplane Corp.
 Falstrom Co.
 Farwell Metal Fabricating
 Fouch Electric Mfg. Co., Inc.
 General Electric Co., Lamp Metals &
 Components Dept.
 Hardman Tool & Engrg., Co.
 Helder Mfg. Co., Inc.
 Helio Aircraft Corp.
 Henry & Miller Industries, Inc.
 Ludwig Honold Mfg. Co.
 Houston Fearless Corp.
 Hughes Tool Co., Aircraft Div.
 Industrial Tools Mfg. Corp., Sub.-Pendle-
 ton Tool Industries, Inc.
 Ingersoll Kalamazoo Div., Borg-Warner
 Corp.
 Janitrol Aircraft Div.-Midland-Ross Corp.
 Walter K. Jaros Aircrafters
 Jeta, Inc.
 Jonco Aircraft Corp., Sub.-Fairchild En-
 gine & Airplane Corp.
 Kellett Aircraft Corp.
 Kerns Mfg. Corp.
 Alfred B. King Co., The
 Kirk & Blum Mfg. Co., The
 Kling Metal Spinning & Stamping Co.

*LAVELLE AIRCRAFT CORP.

Leemath Inc.
 Lycoming Div., Avco Corp.
***MARTIN CO. THE, DENVER DIV.**
 McGregor Mfg. Corp.
 Meridian Metalcraft, Inc.
 Metal Forming Corp., Div.-Vanadium-
 Alloys Steel Co.
 Monrovia Aviation Corp.
 Narmco Mfg. Co.
 Norrich Plastics Corp.
 Northeast Metals Industries, Inc.
 Northrop Corp.
 Paris Engrg. Co., Inc.
 Penn-Michigan Mfg. Corp.
 Richard Philip Co.
 Phoenix Products Co.
 Piasecki Aircraft Corp.
 Pneumafil Corp.
 Portland Copper & Tank Works Inc.
 Precision, Inc.
 Prestole Corp.
 Protectoseal Co., The
 Pry Welding & Mfg., Inc.
 REF Mfg. Corp.
 Edw. Renneburg & Sons Co.
 Reynolds Metals Co., Sheffield Missile
 Plant
 Rimak, Inc.
 Royal Jet, Div.-Royal Industries, Inc.
 Sheltered Workshops
 Sheridan-Gray, Inc.
 Skyline Products, Inc.
 Solar Aircraft Co.
 Southwestern Industrial Electronics Co.
 Spaceomatics Div., The Budd Co.
 Specialty Electronics Development Corp.
 Spincraft, Inc.
 Stalker Corp., The
 Stamping Div., Rockwell Standard Corp.
 Standard Armament Inc.
 Superior Spinning & Stamping Co.
 Roland Teiner Co. Inc.
 Temco Aircraft Corp.
 Thermionic Aeronautical Div.
 Unified Industries, Inc.
 United Aircraft Products, Inc.
 U. S. Science Corp., Div.-Topp Industries,
 Inc.
 United States Chemical Milling Corp.
 Victor Tool & Mfg., Inc.
 Waco Aircraft Co.
 Wayne Foundry & Stamping Co.
 Weber Aircraft Corp.
 Wells Industries Corp.
 Western Devices Inc.
 Westholt Mfg. Inc.
 Whitehead Stamping Co.
 Winder Aircraft Corp. of Florida
 Wolverine Diesel Power Co.
 Woolf Aircraft Products, Inc.

SHEETS, METAL CLAD, PRINTED CIRCUIT

Accurate Specialties Co. Inc.
 American Nickel Alloy Mfg. Corp.
 Bethlehem Steel Co.
 Bo Myte Co., Inc., The
 William Brand, Rex Div.-American Enka
 Corp.
 Milton H. Brooks & Son Engraving & Mfg.
 Co., Inc.
 Continental Diamond Fibre Corp.
 Engelhard Industries, Inc.
 Formica Corp.
 Franklin Fibre-Lamitex Corp.
 Garlock Packing Co., The-Electronic Prod-
 ucts
 General Plastics Corp.
 George E. Harris & Co., Inc.
 Thomas J. Long, Inc.
 Mica Insulator Div.-Minnesota Mining &
 Mfg. Co.
***MINNESOTA MINING & MFG. CO.**
 National Vulcanized Fibre Co.
 Northern Plastics Corp.
 St. Regis Paper Co., Panelyte Div.
 Spaulding Fibre Co., Inc.
 Synthane Corp.
 Taylor Fibre Co.
 Temco Aircraft Corp.
 Tingstol Co.
 Westinghouse Electric Corp., Micarta Div.

SHEETS, MOLYBDENUM

Accurate Specialties Co. Inc.
 Alloys Unlimited Inc.
 Anchor Metal Co. Inc.
 Bram Metallurgical Chemical Co.
 Electronic Paris Mfg. Co., Inc.
 Elmet Div.-North American Philips Co.,
 Inc.

Fansteel Metallurgical Corp.
 General Electric Co., Lamp Metals & Components Dept.
 Hughes Tool Co., Aircraft Div.
 Stauffer Chemical Co.
 Texas Instruments Inc.
 Thermionic Aeronautical Div.
 Universal-Cyclops Steel Corp.
 Var-Lac-Oid Chemical Co.
 Wah Chang Corp.
 Westinghouse Electric Corp.

SHELTERS, TRAILERS, VANS

Aeronca Mfg. Corp.
 Albano Co. Inc.
 American Car & Foundry Div., ACF Industries, Inc.
 American Rocket Co.
 Avco Corp., Nashville Div.
 Beacon Steel Corp.
 Brooks & Perkins, Inc.
 Brunswick Balke Collender Co., The, Defense Products Div.
 Craig Systems, Inc.
 C. R. Daniels, Inc.
 Douglas Aircraft Co., Inc.
 Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
 Fruehauf Trailer Co., Military Equipment Div.
 Fred S. Gichner Iron Works, Inc.
 Gramm Trailer Corp.
 Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
 International Steel Co.
 Magline Inc.
 *MARTIN CO., THE, DENVER DIV.
 Northrop Corp.
 Perfection Div.-Hupp Corp.
 Piasecki Aircraft Corp.
 REF Mfg. Corp.
 Rimak, Inc.
 Southwest Research Institute
 Southwestern Industrial Electronics Co.
 F. M. Stevenson Co., Inc.
 Temco Aircraft Corp.
 Trailmobile Inc.
 Welded Construction Inc.
 Wells Industries Corp.
 Welles Engrg. & Construction Co.
 Wolverine Diesel Power Co.
 *WONDER BUILDING CORP. OF AMERICA

SHIELDING

a. Cathode Ray Tube
 b. Coil
 c. Electrostatic
 d. Heat
 e. Ignition
 f. Lead
 g. Lead, Nuclear
 h. Magnetic
 i. Radiation, Ionizing
 j. Radiation, Radio Frequency
 k. Rubber
 l. Sheet or Screen
 m. Solid
 n. Transformer
 o. Tube
 ACF Industries Inc., g.
 Ace Engrg. & Machine Co., Inc., c, j, l, m.
 Airtron, Div.-Litton Industries, e.
 Alloys Unlimited Inc., f.
 Alpha Metals, Inc., f, g.
 American Agile Corp., l, i, m.
 American Aluminum Co., a.
 American Brass Co., The, a, e, n, o.
 American Machine & Foundry Co., Government Products, N. Y., d, i, j.
 American Smelting & Refining Co., f.
 Anaconda Metal Hose Div., The American Brass Co., e.
 Associated Engineers, Inc., j.
 Atkins & Merrill, Inc., g.
 Atlee Corp., o.
 Auburn Mfg. Co., The, c, j, k.
 Bar-Ray Products, Inc., f, g.
 Belmont Smelting & Refining Works, Inc., f, g.
 Birmbach Radio Co., Inc., e.
 Bogart Mfg. Corp., j.
 Breeze Corporations, Inc., e.
 Brooks & Perkins, Inc., i, m.
 Budd, Co., The, g, i.
 CBS Laboratories, Div.-Columbia Broadcasting System, a.
 Carborundum Co., The, d.
 Colonial Rubber Co., k.

Co-operative Industries, Inc., e.
 Cordo Chemical Corp., f.
 Corning Glass Works, i.
 DBM Research Corp., j.
 R. E. Darling Co., Inc., c, d, f thru k.
 Dean Products, Inc., d.
 Division Lead Co., f, g, i, l, m.
 Double E Products Co., b, c, e, h, i, n.
 Allen B. Du Mont Labs., Inc., a.
 Elco Corp., c, o.
 Electronic Tube Corp., a.
 Emerson & Cuming, Inc., g thru j, l, m.
 Enfab Inc., d.
 Ferroxcube Corp. of America, h.
 Firth Sterling Inc., m.
 Flexible Metal Hose Mfg. Co., j.
 Furane Plastics, Inc., g, i.
 General Laboratory Associates, Inc., e.
 Fred Goat Co. Inc., The, c.
 Goodyear Tire & Rubber Co., The, Aviation Products Div., i, j.
 W. R. Grace & Co., Davison Chem. Div., Nuclear Reactor Mat. Plant, i, m.
 Hallett Mfg. Co., b, c, e, h.
 Hammett-Mercury-Rex Div., a.
 George E. Harris & Co., Inc., e.
 Henry & Miller Industries, Inc., d, h.
 IERC Div., International Electronic Research Corp., o.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp., g.
 Industron Corp., e.
 Interference Measurement Laboratory, Inc., j.
 International Electronic Research Corp., c, d, o.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America, g.
 Jan Hardware Mfg. Co., Inc., a, b, h, o.
 Johnson Metal Hose, Inc., e.
 Kentucky Metal Products Co., j, l.
 Morris P. Kirk & Son, Inc., f, g.
 Livingston Electronic Corp., o.
 Thomas J. Long, Inc., a, b, i, l, n.
 Magnetic Metals Co., a, h, n, o.
 *MARTIN CO., THE, DENVER DIV., j, l.
 McCathron Boiler Works Co., Inc., f, g.
 McMillan Companies, The, j.
 J. E. Menaugh Co., e.
 Metal Textile Corp. Div.-General Cable Corp., c, j, o.
 Met-L-Wood Corp., f.
 Micro-Circuits Co., c.
 James Millen Mfg. Co. Inc., a, b, c, h, i, n, o.
 Minicord Corp. of America, h.
 *MINNESOTA MINING & MFG. CO., d, l.
 National Moldite Co., b, h.
 Nuclear Development Corp. of America, d, f, g, i, j, l, m.
 Nuclear Measurements Corp., g, i.
 Nuclear-Chicago Corp., i.
 Nureco, Inc., d.
 Phillips & Davies Inc., g, i.
 Pittsburgh Corning Corp., d.
 Plastics Distributor of New England, f.
 Portland Copper & Tank Works Inc., f, g, h.
 Ray Proof Corp., f, g, j, k, l.
 Raybestos-Manhattan, Inc., d.
 Reeves Brothers, Inc., k.
 Reeves Bros. Inc., Vulcan Rubber Div., k.
 Rimak, Inc., a thru j, l thru o.
 Fred T. Roberts & Co., k.
 Roberts Toledo Rubber Co., The, k.
 St. John X-Ray Laboratory, f, l.
 Saylor Electric Products Corp., o.
 Servicair Co., e.
 Sheridan-Gray, Inc., d.
 Shielding, Inc., j, l, m.
 Skytronics, Inc., e.
 Southern Plastics Co., l.
 Sphere Co. Inc., The, n.
 Swift Textile Metalizing & Laminating Corp., l.
 TRG, Inc., g, i, j.
 Temco Aircraft Corp., d.
 Thermionic Aeronautical Div., d.
 Thermionic Products Co., b.
 Topatron, Inc., c, h, l.
 Tracerlab Inc., g.
 Unified Industries, Inc., a, b, c, e, f, h, l thru o.
 United States Rubber Co., k.
 Westinghouse Electric Corp., i.
 Westinghouse Electric Corp., Micarta Div., m.
 Zippertubing Co., The, c thru h, j, l, o.
 Zirconium Corp. of America, d.

SHIELDS, LEAD

Ackerman-Johnson Co.
 Alloys Unlimited Inc.
 Alpha Metals, Inc.
 Bar-Ray Products, Inc.
 Belmont Smelting & Refining Works, Inc.
 Breeze Corporations, Inc.
 Division Lead Co.
 Hallett Mfg. Co.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Isotopes Specialties Co., Div.-Nuclear Corp. of America
 Morris P. Kirk & Son, Inc.
 McCathron Boiler Works Co., Inc.
 Nuclear Development Corp. of America
 Nuclear-Chicago Corp.
 Pacific Coast Engrg. Co.
 Plastics Distributor of New England
 Radiation Instrument Development Lab., Inc.
 Ray Proof Corp.
 Rimak, Inc.
 Zippertubing Co., The

SHIMS, ADJUSTING

Allied Plastics Supply Corp.
 American Felt Co.
 American Silver Co., Inc.
 Auburn Mfg. Co., The
 L. J. Barwood Mfg. Co., Inc.
 Belmar Wheel & Machine Co., Inc.
 Detroit Stamping Co.
 General Gasket Inc.
 Laminated Shim Co., Inc.
 Unified Industries, Inc.
 Victor Mfg. & Gasket Co.
 Whitehead Stamping Co.
 Winder Aircraft Corp. of Florida
 Wrought Washer Mfg. Co.

SHIMS, LAMINATED

Aero Gasket Corp.
 Allied Plastics Supply Corp.
 Alloys Unlimited Inc.
 American Felt Co.
 Bridgeport Brass Co.
 Emerson Plastics Corp.
 Laminated Shim Co., Inc.
 Penn Fibre & Specialty Co., Inc.
 Seymour Products Corp., The
 Texas Instruments Inc.
 Utility Brass & Copper Corp.
 Whitehead Stamping Co.
 Winder Aircraft Corp. of Florida

SHIPPING CONTAINERS

ACF Industries, Inc.
 Air Logistics Corp.
 Aluminum Co. of America
 American Car & Foundry Div., ACF Industries, Inc.
 Avco Corp., Crosley Div.
 Benson Mfg. Co.
 Brooks & Perkins, Inc.
 Buffalo Metal Container Corp.
 Butler Mfg. Co.
 California Stamping & Mfg. Co.
 Colonial Aircraft Corp.
 Commercial Services Co., Inc.
 Craig Systems, Inc.
 Cromer Mfg. & Engrg., Inc.
 Douglas Aircraft Co., Inc.
 Food Machinery & Chemical Corp., Ordnance Div.
 Fruehauf Trailer Co., Military Equipment Div.
 General Box Co.
 Harvey Aluminum
 Ludwig Honold Mfg. Co.
 Ingersoll Kalamazoo Div., Borg-Warner Corp.
 Kelleff Aircraft Corp.
 Kirk & Blum Mfg. Co., The
 H. Hoch & Sons
 *MINNESOTA MINING & MFG. CO., Northrop Corp.
 Nuclear Development Corp. of America
 Olin Mathieson Chemical Corp., N. Y.
 Opelika Welding, Machine & Supply Inc.
 Parsons Corp., Special Products Div.
 Piasecki Aircraft Corp.
 Portland Copper & Tank Works Inc.
 Pry Welding & Mfg., Inc.
 REF Mfg. Corp.
 Royal Jet, Div.-Royal Industries, Inc.
 Temco Aircraft Corp.
 Thiokol Chemical Corp., Hunter-Bristol Div.
 Weber Aircraft Corp.

Welded Construction Inc.
Young Development Div., Hercules Powder
Co.
Zippertubing Co., The

SHOCK ABSORBER CORD & RINGS

American Latex Products Corp.
Enfab Inc.

SHOCK ABSORBER LANDING GEAR

American Latex Products Corp.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX AVI-
ATION CORP.
A. M. Byers Co.
Electrol Inc.
Haskel Engrg. & Supply Co.
Hydra-Power Corp.
Kemp Aero Products
Menasco Mfg. Co.
Ronson Hydraulic Units Corp.
Western Design, Div.-U. S. Industries, Inc.

SHOCK MOUNTS

Acushnet Process Co.
Allied International Corp.
American Felt Co.
American Latex Products Corp.
American Machine & Foundry Co., Gov-
ernment Products, N. Y.
American Machine & Foundry Co., Green-
wich Engrg. Div.
*AMERICAN STEEL FOUNDRIES, HAM-
MOND DIV.
Arrowhead Products, Div.-Federal-Mogul-
Bower Bearings, Inc.
Associated Engineers, Inc.
Barry Controls Inc.
*BENDIX PRODUCTS DIV., BENDIX AVIA-
TION CORP.
Bushings, Inc.
Capital City Mfg. Co., Inc.
Convair Instruments, Convair Div.-General
Dynamics Corp.
Dow-Elco, Inc.
Enfab Inc.
Farwest Mfg. Div., Inc.
Felters Co., The
General Logistics Div., Aeroquip Corp.
General Tire & Rubber Co., The, Indust-
rial Products Div.
Guided Missile Div., The Firestone Tire &
Rubber Co.
Hamilton Kent Mfg. Co.
George E. Harris & Co., Inc.
Houdaille Industries, Inc., Buffalo Hy-
draulics Div.
Walter K. Jaros Aircrafters
K. W. Johnson & Co., Inc.
Kemp Aero Products
Kolcast Industries-Div. Thompson Ramo
Wooldridge Inc.
Lord Mfg. Co.
MB Electronics
Menasco Mfg. Co.
Northrop Corp.
Piasecki Aircraft Corp.
Remler Co.
Robinson Technical Products, Inc.
Rubbercraft Corp. of California
Ray A. Scharer & Co.
Southwest Research Institute
A. T. Stevens Co.
Stewart-Warner Electronics Div.
Taylor Devices, Inc.
United States Rubber Co.
Vibration Isolation Products
Western Design, Div.-U. S. Industries, Inc.
Westinghouse Electric Corp.
Winder Aircraft Corp. of Florida
Zippertubing Co., The

SHOCK TUBES

Aerotest Laboratories, Inc.
American Instrument Co., Inc.
American Latex Products Corp.
Avco Corp.-Research & Advanced De-
velopment Div.
Bendix Aviation Corp.
Bermite Powder Co.
Bethlehem Steel Co.
Convair Instruments, Convair Div.-General
Dynamics Corp.
Electric Steel Foundry Co.
Emertron, Sub.-Emerson Radio & Phono-
graph Corp.
Lockheed Aircraft Corp., Missiles & Space
Div.
Lycoming Div., Avco Corp.

Mechanics Research Div., American
Machine & Foundry Co.
National Forge Co.
Ordance Research & Development Co.,
Div.-Bermite Powder Co.
Taylor Devices, Inc.
U. S. Pipe & Foundry Co., Steel & Tubes
Div.
Zippertubing Co., The

SHOCK TUNNELS

Aerotest Laboratories, Inc.
American Instrument Co., Inc.
American Latex Products Corp.
Chicago Bridge & Iron Co.
General Electric Co., Missile & Space
Vehicle Dept., Pa.
Mechanics Research Div., American
Machine & Foundry Co.
Edw. Renneburg & Sons Co.
Westinghouse Electric Corp.
Zippertubing Co., The

SHUNTS, METER

American Machine & Foundry Co., Gov-
ernment Products, N. Y.
Daystrom Inc., Weston Instruments Div.
General Electric Co., Apparatus Sales
Div.
Hammett-Mercury-Rex Div.
Janco Corp.
Marion Instrument Div.-Minneapolis-Honey-
well Regulator Co.
National Electronics
New England Scientific Instruments Co.
Ram Meter Inc.
Sangamo Electric Co.
Sensitive Research Instrument Corp.

SHUTTERS, MICROWAVE

Airtron, Div.-Litton Industries
Bogart Mfg. Corp.
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Gilfillan Bros. Inc.
Hammett-Mercury-Rex Div.
Microwave Associates, Inc.
Motorola, Inc.
Omega Labs, Inc.
Sperry Microwave Electronics Co., Div.-
Sperry Rand Corp.
Waveline, Inc.

SIGNALLING DEVICES

Allard Instrument Corp.
*ARNOUX CORP.
Bell & Gossett Co.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bermite Powder Co.
Bruno-New York Industries Corp.
Chance Vought Aircraft, Inc.
De Havilland Aircraft of Canada, Ltd.,
Special Products Div.
Dryomatic Corp.
Eagle Electric Mfg. Co. Inc.
Emertron, Sub.-Emerson Radio & Phono-
graph Corp.
General Devices, Inc.
General Electric Co., Apparatus Sales Div.
General Instrument Corp., Defense &
Engrg. Products Group
Hammarlund Mfg. Co., The
Kellogg Switchboard & Supply Co., Com-
munications Div.-IT&T Corp.
Lear, Inc.
Leetronics, Inc.
*MARTIN CO., THE, DENVER DIV.
Motorola, Inc.
Northrop Corp.
Ordance Research & Development Co.,
Div.-Bermite Powder Co.
Pacific Mercury Electronics
Philco Corp.-Govt. & Industrial Group
Racon Electric Co. Inc.
Radio Receptor Co., Inc., Sub.-General
Instrument Corp.
Tamar Electronics, Inc.
Western Union Telegraph Co., The

SILICATES

Anderson Chemical Co., Div.-Stauffer
Chemical Co.
City Chemical Corp.
E. I. Du Pont De Nemours & Co. Inc.
Monsanto Chemical Co.
Philadelphia Quartz Co.
Semi-Elements, Inc.

SILICON

Allegheny Electronic Chemicals Co.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical Chemical Co.
Continental Rubber Works
Delta Chemical Works, Inc.
Dow Corning Corp.
E. I. Du Pont De Nemours & Co. Inc.
Footo Mineral Co.
Harmon, Lichtenstein & Co.
Hummel Chemical Co., Inc.
Insulation Mfrs. Corp.
Kemet Co., Div.-Union Carbide Corp.
Merck & Co., Inc., Electronic Chemicals
Div.
Monsanto Chemical Co.
National Carbon Co., Div.-Union Carbide
Corp.
National Metallurgical Corp.
*RADIO CORP. OF AMERICA
Semi-Elements, Inc.
Semimetals, Inc.
Texas Instruments Inc.
Union Carbide Metals Co., Div.-Union
Carbide Corp.
Vanadium Corp. of America
Var-Lac-Oid Chemical Co.
Wai Met Alloys Co.
Zenith Optical Laboratory

SILICONE GREASES

American Grease Stick Co.
George Basch Co., The
Dow Corning Corp.
Ed-Berl Products, Inc.
Edwards High Vacuum Ltd.
Insulation Mfrs. Corp.
National Engrg. Products, Inc.
Silicone Products Dept., General Electric
Co., Dept. C.
Silicones Div.-Union Carbide Corp.

SILICONE OILS

George Basch Co., The
Delta Chemical Works, Inc.
Dow Corning Corp.
Ed-Berl Products, Inc.
Edwards High Vacuum Ltd.
Insulation Mfrs. Corp.
Silicone Products Dept., General Electric
Co., Dept. C.
Silicones Div.-Union Carbide Corp.

SILICONE RUBBER

Actioncraft Products
Acushnet Process Co.
Aero Gasket Corp.
Armstrong Cork Co.
Arrowhead Products, Div.-Federal-Mogul-
Bower Bearings, Inc.
Auburn Mfg. Co., The
Colonial Rubber Co.
Connecticut Hard Rubber Co., The
Continental Rubber Works
R. E. Darling Co., Inc.
Dow Corning Corp.
Ed-Berl Products, Inc.
Edwards High Vacuum Ltd.
Garlock Packing Co.
General Gasket Inc.
B. F. Goodrich Aviation Products
B. F. Goodrich Sponge Products
Goshen Rubber Co., Inc.
Insulation Mfrs. Corp.
Kirkhill Rubber Co.
Mechanical Rubber Products Co.
Minnesota Rubber Co.
Natvar Corp.
Nenth Rubber Co.
Permacel
Raybestos-Manhattan, Inc.
Reeves Bros. Inc., Vulcan Rubber Div.
Rubbercraft Corp. of California
Sierra Engrg. Co.
Silicone Products Dept., General Electric
Co., Dept. C.
Silicones Div.-Union Carbide Corp.
Special Products Dept., Melpar, Inc.
Stillman Rubber Co.
Thermoid Div.-H. K. Porter Co., Inc.

SILVER & ALLOYS

Allied Research & Engrg., Div.-Allied
Record Mfg. Co.
American Brazing Alloys Corp.
American Silver Co., Inc.
American Smelting & Refining Co.
Attleboro Refining Co., Inc.
Bram Metallurgical Chemical Co.

Deringer Metallurgical Corp.
Eastern Smelting & Refining Corp.
Engelhard Industries, Inc.
Eutectic Welding Alloys Corp.
Gibson Electric Co.
Goldsmith Bros. Div., National Lead Co.
Handy & Harman
Leach & Gardner Co., Indsl. Div.
P. R. Mallory & Co. Inc.
Metz Refining Co.
NUMEC-Nuclear Materials & Equipment Corp.
Secon Metals Corp.
Semi-Elements, Inc.
Var-Lac-Oid Chemical Co.
Western Gold & Platinum Co.

SILVER PASTE

American Brazing Alloys Corp.
Eutectic Welding Alloys Corp.
Furane Plastics, Inc.
Handy & Harman
O. Hommel Co., The
Metz Refining Co.
Micro-Circuits Co.
Sunshine Scientific Instrument
Var-Lac-Oid Chemical Co.

SIMULATORS, FLIGHT

ACF Electronics Div., ACF Industries Inc.
ACF Industries Inc.
Aircraft Armaments, Inc.
Allied International Corp.
Atkins & Merrill, Inc.
Belock Instrument Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bermite Powder Co.
Budd Lewyt Electronics, Inc.
Burton-Rodgers, Inc.
Chance Vought Aircraft, Inc.
Curtiss-Wright Corp., Electronics Div.
Allen B. Du Mont Labs., Inc.
Eastman Kodak Co.
Emerron, Sub-Emerson Radio & Phonograph Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Feedback Controls, Inc.
General Devices, Inc.
General Electric Co., Light Military Electronics Dept.
Gilfillan Bros. Inc.
Goodyear Aircraft Corp.
Guided Missile Div., The Firestone Tire & Rubber Co.
HRB-Singer, Inc., Sub-Singer Mfg. Co.
Hickok Electrical Instrument Co., The
Hughes Tool Co., Aircraft Div.
Ideal-Aerosmith, Div.-Royal Industries, Inc.
Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
Lear, Inc.
Madigan Corp.

***MARTIN CO., THE DENVER DIV.**
McDonnell Aircraft Corp.
Micro Gee Products, Inc.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
Motorola, Inc.
Northrop Corp.
Norronics, Div.-Northrop Corp.
Ordnance, Research & Development Co., Div.-Bermite Powder Co.
Packard Bell Computer Corp.
Pegason Labs., Inc.
Philco Corp.-Govt. & Industrial Group Radiation, Inc.
***RADIO CORP. OF AMERICA**
Rucker Co., The
Southwest Research Institute
Space Corp.
Special Products Dept., Melpar, Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
TRG, Inc.

SIMULATORS, MISSILE

ACF Electronics Div., ACF Industries Inc.
ACF Industries, Inc.
Advance Industries, Inc.
Aeronca Mfg. Corp.-Aerospace Div.
Aeroscience, Inc.
Aircraft Armaments, Inc.
Andersen Labs., Inc.
Atkins & Merrill, Inc.
Belock Instrument Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Aviation Corp., York Div.

Bendix Computer Div.-Bendix Aviation Corp.
Bermite Powder Co.
Budd Lewyt Electronics, Inc.
Bulova Research & Development Labs., Inc.
Burton-Rodgers, Inc.
Chance Vought Aircraft, Inc.
Clevite Ordnance, Div.-Clevite Corp.
Curtiss-Wright Corp., Electronics Div.
Eastman Kodak Co.
Emerron, Sub-Emerson & Radio Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Feedback Controls, Inc.
Flight Support, Inc.
General Devices, Inc.
General Electric Co., Missile & Space Vehicle Dept., Pa.
Gilfillan Bros. Inc.
Guided Missile Div., The Firestone Tire & Rubber Co.
HRB-Singer, Inc., Sub-Singer Mfg. Co.
Hughes Tool Co., Aircraft Div.
ITT Federal Div., International Telephone & Telegraph Corp.
Lear, Inc.
Litton Industries, Maryland Div.
Lycoming Div., Avco Corp.
Madigan Corp.
***MARTIN CO., THE DENVER DIV.**
McDonnell Aircraft Corp.
Micro Gee Products, Inc.
Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
Northrop Corp.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Otis Elevator Co., Defense & Industrial Div.
Pacific Automation Products, Inc.
Packard Bell Computer Corp.
Packard-Bell Electronics Corp.
Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
Republic Aviation Corp., Missile Systems Div.
Southwest Research Institute
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
TRG, Inc.
Westinghouse Electric Corp.

SIMULATORS, RADAR

ACF Electronics Div., ACF Industries, Inc.
ACF Industries Inc.
Advance Industries, Inc.
Aeronca Mfg. Corp.-Aerospace Div.
Aircraft Armaments, Inc.
Andersen Labs., Inc.
Bendix Instrument Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Aviation Corp., York Div.
Budd Lewyt Electronics, Inc.
Bulova Research & Development Labs., Inc.
Burton-Rodgers, Inc.
Chance Vought Aircraft, Inc.
Clevite Ordnance, Div.-Clevite Corp.
Curtiss-Wright Corp., Electronics Div.
Daystrom, Inc., Military Electronics Div.
Allen B. DuMont Labs., Inc.
Emerron, Sub-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
Federal Scientific Corp.
General Devices, Inc.
General Instrument Corp., Defense & Engr. Products Group
Gilfillan Bros. Inc.
Goodyear Aircraft Corp.
HRB-Singer, Inc., Sub-Singer Mfg. Co.
Hazeltine Electronics Div.-Hazeltine Corp.
Hewlett-Packard Co.
Hughes Tool Co., Aircraft Div.
ITT Federal Div., International Telephone & Telegraph Corp.
Lab. for Electronics, Inc.
Litton Industries, Maryland Div.
Lockheed Electronics Co., Stavid Div.
MacLeod & Hanopol, Inc.
Madigan Corp.
W. L. Maxson Corp., The
Miller Associates
New London Instrument Co., Inc.
Newton Co., The
Northrop Corp.

Otis Elevator Co., Defense & Industrial Div.
Philco Corp.-Govt. & Industrial Group
Pitometer Log Corp.
***RADIO CORP. OF AMERICA**
Radio Receptor Co., Inc., Sub-General Instrument Corp.
Ramo-Wooldridge, Div.-Thompson Ramo Wooldridge Inc.
Republic Aviation Corp., Missile Systems Div.
Singer Military Products Div.-The Singer Mfg. Co.
Southwest Research Institute
Special Products Dept., Melpar, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Sun Electric Corp., Aeronautical Div.
TRG, Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
U. S. Industries, Inc.
Westgate Lab., Inc.
Westinghouse Electric Corp.

SLEEVES, METALLIC

Acme Industrial Co.
Aetna Ball & Roller Bearing Co., Div.-Parkersburg-Aetna Corp.
Alpha Metals, Inc.
American Brake Shoe Co.
American Brass Co., The
American Standard Products, Inc.
***AMERICAN STEEL FOUNDRIES, HAMMOND DIV.**
Ampco Metal, Inc.
B. H. Aircraft Co., Inc.
Best Aircraft Corp.
Bridgeport Brass Co.
California Stamping & Mfg. Co.
Capital City Mfg. Co., Inc.
Central Safety Equip. Co.
Cobra Metal Hose Div. DK Mfg. Co.
Collins Mfg. Corp.
Conrad & Moser
Continental-Emasco Co., Div.-The Youngstown Sheet & Tube Co.
Division Lead Co.
Walter K. Jaros Aircrafters
Kellett Aircraft Corp.
Lycoming Div., Avco Corp.
National Moldite Co.
Norrich Plastics Corp.
Ohlson Empire Inc.
Richard Philip Co.
J. R. Robbins Co.
Sinclair Mfg. Co.
Superior Industrial Machine Co.
***WEATHERHEAD CO., THE**

SLEEVES, NON-METALLIC

Allite Div., U. S. Stoneware Co.
Allied Plastics Supply Corp.
American Latex Products Corp.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
Auburn Mfg. Co., The
L. J. Barwood Mfg. Co. Inc.
Bentley, Harris Mfg. Co.
Bonny Mfg. Corp.
Borden Chemical Co.
Capital City Mfg. Co., Inc.
Carborundum Co., The
Chemplast, Inc.
Continental Diamond Fibre Corp.
Continental Rubber Works
Crystal-X Corp.
C. R. Daniels, Inc.
Emerson Plastics Corp.
Franklin Fibre-Lamitex Corp.
Insulation Mfrs. Corp.
Walter K. Jaros Aircrafters
Lamtex Industries, Inc.
M & O Plastic Products
J. E. Menough Co.
***MINNESOTA MINING & MFG. CO.**
Molding Corp. of America
National Beryllia Corp.
National Carbon Co., Div.-Union Carbide Corp.
Natvar Corp.
New England Tape Co., Div.-United-Carr Fastener Corp.
Norrich Plastics Corp.
Polymer Corp., The
Prewitt Aircraft Co.
Reeves Bros. Inc., Vulcan Rubber Div.

J. R. Robbins Co.
Fred T. Roberts & Co.
Milton Ross Metals Co., The
Rubbercraft Corp. of California
St. Marys Carbon Co.
Sanford Plastics Corp.
Sillcocks-Miller Co.
Sinclair Mfg. Co.
Synthane Corp.
Taylor Fibre Co.
Tetrafluor, Inc.
United States Rubber Co.
Varflex Corp.
Westinghouse Electric Corp., Micarta Div.
Wilmington Fibre Specialty Co.
Zippertubing Co., The

SLEEVES, TUBE

All Specs Corp.
Allied Plastics Supply Corp.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
L. J. Barwood Mfg. Co., Inc.
Bentley Harris Mfg. Co.
Best Aircraft Corp.
Bonny Mfg. Corp.
Borden Chemical Co.
California Stamping & Mfg. Co.
Cobra Metal Hose Div. DK Mfg. Co.
Collins Mfg. Corp.
Commercial Shearing & Stamping Co.
Continental Diamond Fibre Corp.
Continental-Emsco Co., Div.-The Youngs-town Sheet & Tube Co.
Crystal-X Corp.
Henry & Miller Industries, Inc.
Insulation Mfrs. Corp.
Walter K. Jaros Aircrafters
M & Q Plastic Products
***MINNESOTA MINING & MFG. CO.**
Minnesota Rubber Co.
New England Tape Co., Div.-United-Carr Fastener Corp.
Norrich Plastics Corp.
Norrich Screw Machine Products
Richard Philip Co.
Polymer Corp., The
Pressed Steel Tank Co.
Prewitt Aircraft Co.
Reeves Bros. Inc., Vulcan Rubber Div.
Milton Ross Metals Co., The
Sillcocks-Miller Co.
Synthane Corp.
Taylor Fibre Co.
Varflex Corp.
***WEATHERHEAD CO., THE**
Wilmington Fibre Specialty Co.
Zippertubing Co., The

SLEEVING

Allied Plastics Supply Corp.
Alpha Wire Corp.
Arrowhead Products, Div.-Federal-Mogul-Bower Bearings, Inc.
B. & C. Insulation Products, Inc.
Bentley Harris Mfg. Co.
Birnbach Radio Co., Inc.
Bonny Mfg. Corp.
Borden Chemical Co.
William Brand, Rex Div.-American Enka Corp.
California Stamping & Mfg. Co.
Chemplast, Inc.
Cobra Metal Hose Div. DK Mfg. Co.
Continental-Emsco Co., Div.-The Youngs-town Sheet & Tube Co.
Division Lead Co.
Franklin Fibre-Lamitex Corp.
G-C Electronics Co.
Insulation Mfrs. Corp.
***MINNESOTA MINING & MFG. CO.**
National Electric Coil, Div.-McGraw-Edison Co.
Norrich Plastics Corp.
Norrich Screw Machine Products
Owens-Corning Fiberglass Corp.
Raybestos-Manhattan, Inc.
Sillcocks-Miller Co.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co.
Varflex Corp.
Westline Products Div.-Western Lithograph Co.
Zippertubing Co., The

SLIDES

Amco Engrg. Co.
Ampco Metal, Inc.
Capital City Mfg. Co. Inc.
Chassis-Trak, Inc.

Eastern Rotorcraft Co.,
Grant Pulley & Hardware Corp.
Walter K. Jaros Aircrafters
Corydon M. Johnson Co., Inc.
National Co., Inc.
Remler Co.
Unified Industries, Inc.
Zippertubing Co., The

SLIDES, INDUSTRIAL

Belmar Wheel & Machine Co., Inc.
Capital City Mfg. Co., Inc.
Chassis-Trak, Inc.
Dudwallen Mfg. Co., Inc., The
Grant Pulley & Hardware Corp.
Corydon M. Johnson Co., Inc.
National Co., Inc.
Unified Industries, Inc.

SLIDING LOADS, MICROWAVE

Aircrom Inc.
Bogart Mfg. Corp.
Joe Davidson & Associates
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
FXR, Inc.
Hewlett-Packard Co.
Lieco, Inc.
Meridian Metalcraft, Inc.
Microwave Associates, Inc.
Narda Microwave Corp., The
Sage Labs., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Technicraft, Div.-Electronic Specialty Co.
Waveline, Inc.

SLIP RING ASSEMBLIES

Airflyte Electronics Co.
All American Engrg. Co.
Breeze Corporations, Inc.
Collectron Corp.
Continental-Emsco Co., Div.-The Youngs-town Sheet & Tube Co.
Courtner Products, Div.-Model Engrg. & Mfg., Inc.
Electro Tec Corp.
Electro-Miniatures Corp.
Engelhard Industries, Inc.
Gorham Electronics-Div.-Gorham Mfg. Co.
Graphite Metallizing Corp.
Learn, Inc.
Leece-Neville Co., The
Midwest Molding & Mfg. Co.
J. M. Ney Co., The
Pacific Scientific Co.
Richard Philip Co.
Piasecki Aircraft Corp.
Poly-Scientific Corp.
Milton Ross Metals Co., The
Sernonic Instruments, Inc.
Skyline Electric & Mfg. Co.
Slip Ring Co. of America
Southwestern Industrial Electronics Co.
Tetrafluor, Inc.
Texas Instruments Inc.
Toledo Commutator Co.
Topper Mfg. Co., Inc.
U. S. Plastic Molding Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.

SNIPS

Ampco Metal, Inc.
Billings & Spencer Co., The
Hunter Tool Co.
Proto Tool Co.
Snap-On-Tools Corp.
Vlchek Tool Co.

SOLAR CELLS

Delco Radio Div.-General Motors Corp.
B. F. Goodrich Aviation Products
Hammett-Mercury-Rex Div.
Hoffman Electronics Corp., Semiconductor Div.
International Rectifier Corp.
Learn, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
Semi-Elements, Inc.
Sundstrand Turbo
Texas Instruments Inc.
Transitron Electronic Corp.

SOLDER

a. Aluminum
b. Indium
c. Lead-Tin
d. Platinum
e. Printed Circuit
f. Rings & Preforms
g. Silver

Accurate Specialties Co. Inc., a, b, c, e, f, g.
Alloys Unlimited, Inc., b, c, d, f, g.
Alpha Metals, Inc., a thru f.
Aluminum Co. of America, a.
American Brazing Alloys Corp., a, f, g.
American Silver Co., Inc., f, g.
American Smelting & Refining Co., c.
Anchor Metal Co. Inc., a thru g.
Art Wire & Stamping Co., f.
Barker Sales Co., a, c, f.
Belmont Smelting & Refining Works, Inc., a, b, c, e, f, g.
Bohn Aluminum & Brass Corp., a.
Bow Solder Products Co., Inc., a, b, c, e, f.
Chase Brass & Copper Co., Inc., c, g.
Chemalloy Electronics Corp., a.
Dalweld Co. Inc., a, e, f, g.
Division Lead Co., b, c, e, f.
M. W. Duntun Co. Inc., The, c, e, f.
Dyna-Therm Chemical Corp., a.
Engelhard Industries, Inc., f, g.
Eutectic Welding Alloys Corp., a, c, e, f, g.
Fusion Engrg., c, f, g.
General Electric Co., Lamp Metals & Components Dept., a.
General Findings & Supply Co., Industrial Div., f.
Gibson Electric Co., f.
Globe Automatic Sprinkler Div., The Fry-Fyter Co., c.
Goldsmith Bros. Div., National Lead Co., d, f, g.
Indium Corp. of America, The, b, f.
Johnson Mfg. Co., Inc., a, c, e, f.
Kaiser Aluminum & Chemical Sales, Inc., a.
Kester Solder Co., a, b, c, e, f, g.
Morris P. Kirk & Son, Inc., c, e, f, g.
Leach & Garner Co., Indsl. Div., g.
London Chemical Co., Inc., c, e.
Metz Refining Co., d.
Micro Instrument Co., c.
Mitronics Inc., e.
Multicore Sales Corp., c, e, f, g.
National Electric Coil, Div.-McGraw-Edison Co., c, g.
Ruby Chemical Co., c.
Sherman Indsl. Electronics Co., Div.-Electronic Development Inc., a.
Texas Instruments Inc., d, g.

SOLDER POTS

Dee Electric Co.
General Electric Co., Apparatus Sales Div.
Hammett-Mercury-Rex Div.
Johnson Mfg. Co., Inc.
Manhattan Lighting Equipment Co., Inc.
***MARTIN CO., THE, DENVER DIV.**
Temperature Engrg. Corp.
Waage Electric, Inc.
Western Coating Co.

SOLDERING EQUIPMENT, PRINTED CIRCUIT

American Electrical Heater Co.
Bell & Gossett Co.
Dee Electric Co.
Division Lead Co.
Ideal Industries, Inc.
Jefferson Electronic Products
Lepel High Frequency Labs. Inc.
M. M. Newman Corp.
Temperature Engrg. Corp.
Virginia Electronics Co., Inc.
Waage Electric, Inc.
P. Wall Mfg. Co.
Zephyr Mfg. Co., Inc.

SOLDERING EQUIPMENT, ULTRASONIC

Aeroprojects Inc.
Alcar Instruments, Inc.
Circo Equipment Co.
Circo Ultrasonic Corp.
Gulion Industries, Inc.
Lepel High Frequency Labs. Inc.
McKenna Labs.

SOLDERING GUNS

Bow Solder Products Co., Inc.
General Electric Co., Apparatus Sales Div.
Hammett-Mercury-Rex Div.
Hexacon Electric Co.
Ideal Industries, Inc.
International Electronic Research Corp.
Manhattan Lighting Equipment Co., Inc.
Snap-on-Tools Corp.
P. Wall Mfg. Co.
Weller Electric Corp.
Zephyr Mfg. Co., Inc.

SOLDERING IRON STANDS

American Electrical Heater Co.
Hexacon Electric Co.
Kester Solder Co.
Manhattan Lighting Equipment Co., Inc.
P. Wall Mfg. Co.

SOLDERING IRON TIPS

American Electrical Heater Co.
Caig Labs.
General Electric Co., Apparatus Sales Div.
Hexacon Electric Co.
Manhattan Lighting Equipment Co., Inc.
M. M. Newman Corp.
Oryx Co.
Ungar Electric Tools, Div.-Eldon Ind.
P. Wall Mfg. Co.
Weller Electric Corp.

SOLDERING IRONS

American Electrical Heater Co.
Bow Solder Products Co., Inc.
Caig Labs.
Chase Brass & Copper Co., Inc.
Eagle Electric Mfg. Co., Inc.
General Electric Co., Apparatus Sales Div.
Hammett-Mercury-Rex Div.
Hexacon Electric Co.
C. G. Hussey & Co., Div.-Copper Range Co.
Ideal Industries, Inc.
Johnson Mfg. Co., Inc.
Linde Co., Div.-Union Carbide Corp.
Manhattan Lighting Equipment Co., Inc.
National Specialties Co., Inc.
M. M. Newman Corp.
Oryx Co.
Selas Corp. of America
Snap-on-Tools Corp.
Ungar Electric Tools, Div.-Eldon Ind.
P. Wall Mfg. Co.
Weller Electric Corp.
Zephyr Mfg. Co., Inc.

SOLENOIDS

a. Control
b. Linear
c. Rotary
d. Sub-Miniature
A. P. W. Co., d.
Adel Precision Products of Calif., Div.-
General Metals Corp., b.
Aero Supply Mfg. Inc., a, b.
Alco Valve Co., a.
Automatic Switch Co., a, b.
Caltron Products Co., a.
Cameraflex Div., The, Federal Mfg. &
Engrg. Corp.
Captive Seal Corp., b.
Comar Electric Co., b, d.
Joe Davidson & Associates, a, b.
De Havilland Aircraft of Canada, Ltd.,
Special Products Div., c.
Dynamic Controls Corp., a, b, d.
Electric Autolite Co., The, a.
Electroid Corp., a, b, d.
Electro-Mechanical Specialties Co., Inc.,
a, c, d.
Fae Instrument Corp., a thru d.
Five Star Co., The, a, b, d.
Futurecraft Corp., a, b, d.
General Electric Co., Apparatus Sales
Div., a.
Gordon Enterprises, b, c.
B. H. Hadley, Inc., a, d.
Hammett-Mercury-Rex Div., a, b, c.
George E. Harris & Co., Inc., a, b.
Haskel Engrg. & Supply Co., a.
A. W. Haydon Co., The, c.
Hillburn Electronic Prods. Co., b, d.
Hoover Electric Co., a, b, c.
Walter J. Hyatt Co., The, a, b, d.
Hydra-Power Corp., b.
IMC Magnetics Corp., a thru d.
Jack & Heintz, Inc., b.
James Electronics Inc., a.

Janitrol Aircraft Div.-Midland-Ross Corp.
Kemp Aero Products, a, b.
Leetronics, Inc., a, c, d.
G. H. Leland, Inc., c.
G. W. Lisk Co., Inc., a, b, d.
Manhattan Lighting Equipment Co., Inc.,
a, b.
Mestron Corp., a, b.
Mid-West Coil & Transformer Co., b.
Midwestern Instruments, Inc., a, d.
Modelectric Products Corp., a, b, d.
E. V. Naybor Labs., Inc., b, c, d.
PSP Engrg. Co. Div.-IMC Magnetics
Corp., N. Y., a thru d.
Pegasus Labs., Inc., a, b.
Phillips Control Corp., b.
Pickering & Co., Inc., a, b, d.
Joseph Pollak Corp., b, d.
Relay Sales Inc., a thru d.
J. R. Robbins Co., a, b, d.
Sargenti Engrg. Corp., a, b, c.
Skyvalve, Inc., a.
Trepac Corp. of America
Trombetta Solenoid Corp.
U. E. Electronics Corp., a, b, d.
Valcor Engrg. Corp., a, b, d.
Vickers Inc., b.
West Coast Electrical Mfg. Corp., b, d.

SOLID ROCKET FUELS

*AERJET-GENERAL CORP.
Allied Chemical Corp., Nitrogen Div.
Amcel Propulsion Inc.
American Latex Products Corp.
American Potash & Chemical Corp., National
Northern Div.
Bermite Powder Co.
Bjorksten Research Labs. for Industry, Inc.
Callery Chemical Co.
Food Machinery & Chemical Corp.-Epoxy
Dept.
Gabriel Co., Rocket Power-Talco
B. F. Goodrich Aviation Products
B. F. Goodrich Chemical Co.
Grand Central Rocket Co.
Hercules Powder Co., Chemical Propul-
sion Div.
Hughes Tool Co., Aircraft Div.
Lockheed Aircraft Corp., Missiles & Space
Div.
Naugatuck Chemical Div.-U. S. Rubber
Co.
Olin Mathieson Chemical Corp., N. Y.
Ordnance Engrg. Associates, Inc.
Ordnance Research & Development Co.,
Div.-Bermite Powder Co.
Pennsalt Chemicals Corp.
Propellux Chemical Div., Chromalloy
Corp.
Southwest Research Institute
Standard Oil Co. of Indiana
Stauffer Chemical Co.
Topper Mfg. Co., Inc.
United Technology Corp.

SOLVENTS

Allied Chemical Corp., General Chemical
Div.
Allied Chemical Corp., National Aniline
Div.
American Oil & Supply Co.
Antara Chemicals, Div.-General Aniline
& Film Corp.
Aries Laboratories, Inc.
Barco Chemical Products Co.
City Equipment Co.
Circu Chemical Corp.
Cobehn, Inc.
Delta Chemical Works, Inc.
Detrox Chemical Industries, Inc.
Dow Chemical Co., The
E. I. Du Pont De Nemours & Co., Inc.
Eastern Chemical Div., Hooker Chemical
Corp.
B. F. Goodrich Industrial Products Co.
Hercules Powder Co., Chemical Propul-
sion Div.
Kano Labs.
Kester Solder Co.
London Chemical Co., Inc.
Monsanto Chemical Co.
National Ultrasonic Corp.
Naz-Dar Co.
Neville Chemical Co.
Penetone Co., The
Phillips Mfg. Co.
Southwest Research Institute
Topper Mfg. Co., Inc.
Trio Chemical Works, Inc.
U. S. Indsl. Chemicals Co., Div.-Natl.

Distillers & Chemical Corp.
Wye Industries

SONAR

ACF Industries, Inc.
Advance Industries, Inc.
Allied International Corp.
Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Budd Lewyt Electronics, Inc.
CBS Laboratories' Div.-Columbia Broad-
casting System
Chance Vought Aircraft, Inc.
Clevite Ordnance, Inc.-Clevite Corp.
Cosmic Instruments Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Dalmo Victor Co., Div.-Textron, Inc.
Daven Co., The
*DEL MAR ENGRG. LABS.
Edo Corp.
Emertron, Sub.-Emerson Radio & Phono-
graph Corp.
*EQUIPMENT DIV., RAYTHEON CO.
General Instrument Corp., Defense &
Engrg. Products Group
Gulton Industries, Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Huyck Systems Co.
ITT Federal Div., International Telephone
& Telegraph Corp.
Lockheed Electronics Co., Stavid Div.
Motorola, Inc.
Philco Corp.-Govt. & Industrial Group
*RADIO CORP. OF AMERICA
*RADIO CORP. OF AMERICA, DE-
FENSE ELECTRONICS PRODUCTS
Sperry Piedmont Co., Div.-Sperry Rand
Corp.
Stromberg-Carlson, Div.-General Dynam-
ics Corp.
Stromberg-Carlson, San Diego, General
Dynamics Corp.
Texas Instruments Inc.
U. S. Sonics Corp.
Vickers Inc., Electric Products Div.
Westinghouse Electric Corp.
SOUND SYSTEMS, COMPLETE
Allied International Corp.
Beacon Steel Corp.
Blonder-Tongue Labs., Inc., Special
Products Div.
Du Kane Corp.
Electromation Co., Div.-Del Mar Engrg.
Labs
Executone, Inc.
Huyck Systems Co.
Kellogg Switchboard & Supply Co., Com-
munications Div.-IT&T Corp.
*MARTIN CO., THE, DENVER DIV.
Midwestern Instruments, Inc.
*RADIO CORP. OF AMERICA
*RADIO CORP. OF AMERICA, DEFENSE
ELECTRONICS PRODUCTS
Remler Co.
Rimak, Inc.
Stromberg-Carlson Div.-General Dynam-
ics Corp.
Wickes Engrg. & Construction Co.
SPACERS
Aero Bolt & Screw Co., Inc.
Airhardware, Inc.
Alite Div., U. S. Stoneware Co.
All Specs Corp.
American Felt Co.
American Welding & Mfg. Co., The
Apex Tool Co., Inc., The
Auburn Mfg. Co., The
Belmar Wheel & Machine Co., Inc.
Best Aircraft Corp.
Capital City Mfg. Co., Inc.
Continental-Emco Co., Div.-The Youngs-
town Sheet & Tube Co.
Delron Co., Inc., The
Eljay Corp.
General Electric Co., Missile & Space
Vehicle Dept., Pa.
General Gasket Inc.
John Hassall, Inc.
Honti Engrg. & Mfg. Co.
Walter K. Jaros Aircrafters
Kellett Aircraft Corp.
Ladish Co.
*MINNESOTA MINING & MFG. CO.
Ohlson Empire Inc.
Superior Industrial Machine Co.
Tetrafluor, Inc.
Unified Industries, Inc.
Wilmington Fibre Specialty Co.

SPEAKERS

Atlas Sound Corp.
Collins Radio Co.
Du Kane Corp.
Electromation Co., Div.-Del Mar Engrg. Labs
Electro-Voice, Inc.
General Coil Products Corp.
Jensen Mfg. Co., Div.-The Muter Co.
Parkway Specialties Co.
Permoflux Products Co.
Racon Electric Co., Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DE-FENSE ELECTRONICS PRODUCTS**
Remler Co.
Rimak, Inc.
Stephens Trusonix Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
Technical Materiel Corp., The
Telectro Industries Corp.
Telex, Inc.
University Loudspeakers, Inc.

SPECTROMETERS

American Electronics, Inc.
Applied Research Labs., Inc.
***ASKANIA-WERKE, U. S. BRANCH OFFICE**
Bausch & Lomb Optical Co.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
Crosby-Teletronics Corp.
Davidson Optronics, Inc.
***ENGIS EQUIPMENT CO.**
Epic, Inc.
Gardner Laboratory, Inc.
Gordon Enterprises
Jarrell-Ash Co.
Lockheed Aircraft Corp., Missiles & Space Div.
Nuclear Measurements Corp.
Nuclear-Chicago Corp.
Perkin-Elmer Corp.
Process & Instruments
Production Research Corp., Sub.-Radio Condenser Co.
Radiation Instrument Development Lab., Inc.
Southwest Research Institute
TRG, Inc.
Tracelab Inc.
Veeco Vacuum Corp.

SPECTROPHOTOMETERS

American Instrument Co., Inc.
Applied Physics Corp.
Bausch & Lomb Optical Co.
Coleman Instruments, Inc.
***ENGIS EQUIPMENT CO.**
Farwest Mfg. Div., Inc.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
General Electric Co., Apparatus Sales Div.
Gordon Enterprises
Instrument Development Labs., Inc.
Jarrell-Ash Co.
Land-Air Inc., Sub.-California Eastern Aviation, Inc.
Perkin-Elmer Corp.
Process & Instruments
Scientific & Process Instruments Div.-Beckman Instruments, Inc.
Southwest Research Institute
TRG, Inc.
Telechrome Mfg. Corp.

SPECTROSCOPIC EQUIPMENT

Applied Research Labs., Inc.
Bausch & Lomb Optical Co.
***ENGIS EQUIPMENT CO.**
Intercontinental Electronics Corp.
Jarrell-Ash Co.
Philips Electronic Instruments
Southwest Research Institute
TRG, Inc.

SPINNINGS, METAL

Aerocal Div., Aeronca Mfg. Corp.
Aluminum Co. of America
American Aluminum Co.
Ampco Metal, Inc.
Anchor Metal Spinning Co., The
Associated Co., Inc.
Associated Engrg. & Mfg. Corp.

Benson Mfg. Co.
Brighton Corp.
Brooks & Perkins, Inc.
Calcor Corp.
California Stamping & Mfg. Co.
Chance Vought Aircraft, Inc.
Cincinnati Milling Machine Co., The
Commercial Shearing & Stamping Co.
Henry & Miller Industries, Inc.
Hughes Tool Co., Aircraft Div.
Walter K. Jaros Aircrafters
Kanarr Corp.
Kelsey-Hayes Co.
Kling Metal Spinning & Stamping Co.
Le Fiell Mfg. Co.
Lodge & Shipley Co., The
Lycoming Div., Avco Corp.
McGregor Mfg. Corp.
Miami Engrg., Div.-Miami Shipbuilding Corp.
Northrop Corp.
Piasecki Aircraft Corp.
Rimak, Inc.
Joseph T. Ryerson & Son, Inc.
Spincraft, Inc.
Superior Spinning & Stamping Co.
Tapco Group, Thompson Ramo Wooldridge Inc.
Roland Teiner Co., Inc.
Temco Aircraft Corp.
Thompson Ramo Wooldridge Inc.
C. W. Torngren Co., Inc.
Unified Industries, Inc.
United States Chemical Milling Corp.
Westholt Mfg. Inc.
Woolf Aircraft Products, Inc.

SP LICING EQUIPMENT

***MINNESOTA MINING & MFG. CO.**
Neumade Products Corp.
Robins Industries Corp.

SPRING CONTACT METAL STOCK

Ace Spring Mfg. Co., Inc.
American Silver Co., Inc.
Associated Spring Corp., Ohio Div.
General Findings & Supply Co., Industrial Div.
Lapham Hickey Steel Corp.
Leach & Garner Co., Indsl. Div.
J. E. Menaugh Co.

SPRINGS

a. Antenna Tension
b. Grounding Antenna
c. Hardware
d. Instrument Hairsprings
e. Knob
f. Precision
Ace Spring Mfg. Co., Inc., a, b, c, e, f.
Associated Spring Corp., Ohio Div., a thru f.
Wallace Barnes Div., Associated Spring Corp., a thru f.
Birnbach Radio Co., Inc., a.
John Chatillon & Sons, f.
Chemical Micro Milling Co., f.
Consolidated Controls Corp., f.
Dorau-Calza Hairspring Co., Inc., d.
Foursome Mfg. Co., Inc., c, e, f.
Gerbet Hairspring Co., d.
Hamilton Watch Co.-Industrial Div., d, f.
George E. Harris & Co., Inc., f.
Hunter Spring Co., Div.-American Machine & Metals, Inc., a, d, f.
Ingraham Co., The, d.
Leelectronics, Inc., f.
J. E. Menaugh Co., f.
Mid-West Spring Mfg. Co., a, b, c, e, f.
***MINNESOTA MINING & MFG. CO.**
New England Spring Mfg. Co., Inc., a, b, c, e, f.
Reliable Spring & Wire Forms Co., a, f.
Sandvik Steel, Inc., d, f.
Stanley-Judd Div.-The Stanley Works, c.
Herman D. Steel Co., d.
Taylor Devices, Inc., f.
Tinnerman Products, Inc., e.
Tube-Turns Div., Chemetron Corp., c.
United Mfg. Co., The
United States Steel Corp.
Western Control Corp., c, e, f.
Wind Turbine Co.

SQUIBS

***AEROJET-GENERAL CORP.**
Aerojet-General Corp., Downey Plant
Amcel Propulsion Inc.
American Potash & Chemical Corp., National Northern Div.

Beckman & Whitley, Inc., Missile Products Div.
Bermite Powder Co.
Joe Davidson & Associates
***DEL MAR ENGRG. LABS.**
E. J. Du Pont De Nemours & Co., Inc.
Gabriel Co., Rocket Power-Talco
Hercules Powder Co., Chemical Propulsion Div.
Hi-Shear Rivet Tool Co.
Kidde Aero-Space Div., Walter Kidde & Co., Inc.
Librascope Div., General Precision, Inc.
Lithium Corp. of America Inc., the Fulton-Irgon Div.
McCormick Selph Associates
Olin Mathieson Chemical Corp., N. Y.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Propellax Chemical Div., Chromalloy Corp.

STABILIZERS

Aerocal Div., Aeronca Mfg. Corp.
Bendix Aviation Corp.
Bendix Corp., The, Eclipse-Pioneer Div.
Colonial Aircraft Corp.
Djeco, Div.-Djordjevic Engrg. Co.
Doak Aircraft Co., Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
Guided Missile Div., The Firestone Tire & Rubber Co.
Monrovia Aviation Corp.
Northrop Corp.
REF Mfg. Corp.
Southwest Research Institute
Sperry Piedmont Co., Div.-Sperry Rand Corp.
Temco Aircraft Corp.
Weber Aircraft Corp.

STACKS

California Stamping & Mfg. Co.
Djeco, Div.-Djordjevic Engrg. Co.
Graver Tank & Mfg. Co., Div.-Union Tank Car Co.
Heil Process Equipment Corp.
Kirk & Blum Mfg. Co., The
Nooter Corp.
Opelika Welding, Machine & Supply Inc.
Penn-Michigan Mfg. Corp.
Woolf Aircraft Products, Inc.

STAMPED PARTS, TUBE

Alloy Products Corp.
American Aluminum Co.
American Brass Co., The
Art Wire & Stamping Co.
B. H. Aircraft Co., Inc.
Babco Mfg. Inc.
Belmar Wheel & Machine Co., Inc.
Bergen Carbide Co.
Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
Detroit Stamping Co.
Doak Aircraft Co., Inc.
Electronic Parts Mfg. Co., Inc.
Forsberg Mfg. Co., The
Foursome Mfg. Co., Inc.
Gemex Corp., The, Indsl. Div.
General Electric Co., Lamp Metals & Components Dept.
HPL Mfg. Co.
Heldor Mfg. Co., Inc.
Kerns Mfg. Corp.
King Labs., Inc.
Kling Metal Spinning & Stamping Co.
E. Konigslow Stamping & Tool Co.
Laminated Shim Co., Inc.
New England Spring Mfg. Co., Inc.
Norrich Plastics Corp.
Richard Philip Co.
Rimak, Inc.
Stamping Div.-Rockwell Standard Corp.
Superior Spinning & Stamping Co.
Unified Industries, Inc.
Waco Aircraft Co.
Whitehead Stamping Co.
Winder Aircraft Corp. of Florida
Woolf Aircraft Products, Inc.
Worcester Pressed Steel Co.
Zierick Mfg. Corp.

STAMPS

Acromark Co., The
Adept Industries Inc.
John Griffin Co.
Jas. H. Matthews & Co.
Noble & Westbrook Mfg. Co., The

Parker-Hartford Corp., The
Sillcocks-Miller Co.

STANDARDS

- a. Capacitance
- b. Equipment, Calibration
- c. Frequency
- d. Inductance
- e. Laboratory Time
- f. Phase
- g. Resistance
- h. Temperature
- i. Time
- j. Voltage

Acton Laboratories Inc., f.
Aeroscience, Inc., b.
Arkay Engrg., Inc., c.
Avien, Inc., j.
Barnes Development Co., g.
Bendix Aviation Corp., b.
A. Biederman, Inc., b, e.
Boonton Electronics Corp., a.
Arthur E. Booth Co., b.
Borg Equipment Div., Amphenol-Borg
Electronics Corp., c, e, i.
Bulova Research & Development Labs.,
Inc., b, i.
Burton-Rodgers, Inc., c.
Calvert Electronics Inc., a, d, g, j.
Consolidated Controls Corp., j.
Cornell-Dubilier Electric Corp., a.
Daven Co., The, g, i.
Davenport Mfg. Co., b, j.
Daystrom Inc., Weston Instruments Div.,
b, j.
Decker Corp., The, a, b, c, f thru j.
Djeco, Div.-Djordjevic Engrg. Co., j.
Dmeter Mfg. Co., g.
Electro Scientific Industries, a, b, g.
Electronic Applications, Inc., a thru d, g.
Electronic Engrg. Co. of California, e, i.
Electronic Measurements Co., Inc., i.
Epic, Inc., a, g.
Farwest Mfg. Div., Inc., f.
General Communication Co., b, c, i.
General Radio Co., a, c, d, g.
Gray Instrument Co., b, g.
Gyrex Corp., The, c, e, i.
Hathaway Instruments, Inc., c.
Hewlett-Packard Co., b, c, e, i, j.
I-L-S Instrument Div., The Meriam Instru-
ment Co., c, i.
ITT Federal Div., International Telephone
& Telegraph Corp., e.
Industrial Test Equipment Co., c, f.
Infrared Industries, Inc., b, h.
International Electronic Research Corp.,
c.
Wayne Kerr Corp., a.
Kin Tel Div.-Cohu Electronics, Inc., j.
James Knights Co., The, c, e.
Lavoie Labs., Inc., c.
Leeds & Northrup Co., a, d, g, h, j.
*WALLACE O. LEONARD, INC., b.
Liquidometer Corp., The, a.
MacLeod & Hanopol, Inc., a.
Manson Labs., Inc., c.
Marconi Instruments, c.
*MARTIN CO., THE, DENVER DIV., j.
Mitchell Camera Corp., b.
Muirhead Instruments Inc., a, c, j.
George L. Nankervis Co., b.
National Co., Inc., c.
New England Scientific Instruments Co.,
a, d, g.
New London Instrument Co., Inc., c.
Nilsson Electrical Lab., Inc., b.
Ernest Norman Laboratories, c, i.
Northeastern. Engrg. Inc., c.
Northern Engrg. Laboratories, Inc., c.
Nuclear-Chicago Corp.
Philamon Labs. Inc., c.
Radiation, Inc., j.
*RADIO CORP. OF AMERICA
Ramo-Woolldridge, Div.-Thompson Ramo
Woolldridge Inc., e.
Recony Div.-Vincor Corp., b.
Riverbank Labs., Dept.-Engrg., c.
Sensitive Research Instrument Corp., b, j.
Shallcross Mfg. Co., g.
E. C. Smith Mfg. Co., Inc., h.
H. W. Sullivan Ltd., a, d, g.
Sunshine Scientific Instrument, b, j.
TRG, Inc., c.
Technical Materiel Corp., The, c.
Technology Instrument Corp., f.
Teledrome Mfg. Corp., b, c, i.
Theta Instrument Corp., f.
Trans-Sonics, Inc., h.
United States Radium Corp., b.

Universal Mfg. Co., Inc., d.
Varo Mfg. Co., Inc., c, f, i, j.
Viking Industries Inc., j.
Waltham Electronics Corp., c.

STANDS, MICROPHONE

Atlas Sound Corp.
Belmar Wheel & Machine Co., Inc.
Electromation Co., Div.-Del Mar Engrg.
Labs.
Electronic Applications, Inc.
Electro-Voice, Inc.
Emertron, Sub.-Emerson Radio & Phono-
graph Corp.
G-C Electronics Co.
P. B. R. Mfg. Co.
Radio Corp. of America, Defense
Electronics Products
Sonotone Corp.

STANDS, TEST

Accessory Controls & Equipment Corp.
Advanced Electronics, Inc.
*AEROJET-GENERAL CORP.
Aeroscience, Inc.
Aero-Test Equipment Co., Inc.
Aerofest Laboratories, Inc.
Air Logistics Corp.
Allegany Instrument Co., Inc.
Allison Steel Mfg. Co.
American Instrument Co., Inc.
American Research & Mfg. Corp.
Anchor Metal Spinning Co., The
Anchor Specialty Mfg. Co., Inc.
Arnolt Corp.
*ASSOCIATED TESTING LABS., INC.
Atlas Industrial Corp.
Auto-Control Labs. Inc.
Baldwin-Lima-Hamilton Corp., Electronics
& Instrumentation Divs.
Basic Tool Industries, Inc.
Beacon Steel Corp.
Beaver-Advance Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
*BENDIX PRODUCTS DIV., BENDIX
AVIATION CORP.
A. Biederman, Inc.
E. W. Bliss Co.
Bogue Electric Mfg. Co.
Bytrex Corp.
Cardell Mfrs.
Chicago Bridge & Iron Co.
Colonial Aircraft Corp.
Continental-Emsco Co., Div.-The
Youngstown Sheet & Tube Co.
Cornelius Co., The, Aero Div.
Doak Aircraft Co., Inc.
Dudwallen Mfg. Co., Inc., The
Eastman Kodak Co.
Eizee Metal Products Co., Inc.
Emertron, Sub.-Emerson Radio & Phono-
graph Corp.
Emhart Mfg. Co., Maxim Div.
*ENGIS EQUIPMENT CO.
Farwell Metal Fabricating
Flight Refueling, Inc.
Flight Support, Inc.
General Electric Co., Apparatus Sales Div.
Gremco, Inc.
Guided Missile Div., The Firestone Tire &
Rubber Co.
Hamilton Standard
Haskel Engrg. & Supply Co.
Highland Engrg. Co.
Hughes Tool Co., Aircraft Div.
I-L-S Instrument Div., The Meriam
Instrument Co.
Ideal-Aerosmith, Div.-Royal Industries, Inc.
Indiana Gear Works, Inc.
Industrial Tools Mfg. Corp., Sub.-
Pendleton Tool Industries, Inc.
Jamison Cold Storage Door Co.
Kahn & Co., Inc.
Kellert Aircraft Corp.
Kirk & Blum Mfg. Co., The
Machine Products Div., New Haven
Trap Rock Co.
Metal Fabricators Corp.
Miami Engrg., Div.-Miami Shipbuilding
Corp.
George L. Nankervis Co.
Northeast Metals Industries, Inc.
Northrop Corp.
Opad Electric Co.
Opelika Welding, Machine & Supply Inc.
P. B. R. Mfg. Co.
Philco Corp.-Govt. & Industrial Group
Richard Philip Co.
Philips & Davies Inc.

Propulsion Test Facilities Div.-MB
Electronics
REF Mfg. Corp.
Recony Div.-Vincor Corp.
Regent Jack Mfg. Co., Inc.
Rucker Co., The
Sancor Corp.
Schaffer Air Industries, Inc.
Skydyne, Inc.
Skyline Electric & Mfg. Co.
Space Corp.
Stearns-Roger Mfg. Co., The
Sun Electric Corp., Aeronautical Div.
Temco Aircraft Corp.
Thiokol Chemical Corp., Hunter-Bristol
Div.
Twix Mfg. Co., Inc.
United Aircraft Products, Inc.
United Mfg. Co., Div., The W. L.
Maxson Corp.
U. S. Science Corp., Div.-Topp Industries,
Inc.
Vincor Corp.
Waco Aircraft Co.
Weber Aircraft Corp.
Welded Construction Inc.
Wells Industries Corp.
Western Gear Corp.-Precision Products
Div.
Westinghouse Electric Corp.
Winder Aircraft Corp. of Florida

STANDS, WAVEGUIDE

Aircor Inc.
Airtron, Div.-Litton Industries
Demornay-Bonardi
Electronic Applications, Inc.
Emertron, Sub.-Emerson Radio &
Phonograph Corp.
FXR, Inc.
Hammett-Mercury-Rex Div.
Hewlett-Packard Co.
*KEARFOTT DIV., GENERAL PRECISION,
INC.
Narda Microwave Corp., The
Omega Labs., Inc.
P. B. R. Mfg. Co.
Polytechnic Research & Development Co.,
Inc.
Victor R. F. & Microwave Co.
Waveline, Inc.

STARTERS

Accessory Controls & Equipment Corp.
Aircraft Accessory Turbine Dept.-General
Electric Co.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE
GARRETT CORP.
Allied International Corp.
Bendix Utica Div., Bendix Aviation Corp.
Bogue Electric Mfg. Co.
Breeze Corporations, Inc.
Clark Controller Co., The
Consolidated Diesel Electric Corp.
Detroit Diesel Engine Div.-General
Motors Corp.
Electric Autolite Co., The
Gabriel Co., Rocket Power-Talco
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft
Corp.
Hammett-Mercury-Rex Div.
Lear, Inc.
Leece-Neville Co., The
Sunstrand Turbo
Talley Corp., The
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Westinghouse Electric Corp.
Wolverine Diesel Power Co.

STARTERS, GAS TURBINE ENGINE

Aircraft Accessory Turbine Dept.-General
Electric Co.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE
GARRETT CORP.
Arde-Portland, Inc.
Auto-Control Labs. Inc.
Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Breeze Corporations, Inc.
Consolidated Diesel Electric Corp.
Gabriel Co., Rocket Power-Talco
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft
Corp.
Hercules Powder Co., Chemical Propulsion
-Div.
Jack & Heintz, Inc.

Lear, Inc.
Solar Aircraft Co.
Southwestern Industrial Electronics Co.
Sundstrand Turbo
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Western Gear Corp.-Precision Products
Div.
Westinghouse Electric Corp.
Wickfield, Inc.
Wolverine Diesel Power Co.

STARTERS, PNEUMATIC

Accessory Controls & Equipment Corp.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE
GARRETT CORP.
Arnolt Corp.
Auto-Control Labs, Inc.
Bendix Utica Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp.
Gardner-Denver Co.
Hamilton Standard, Div.-United Aircraft
Corp.
Kahn & Co., Inc.
Kidde Aero-Space Div., Walter Kidde &
Co., Inc.
Lear, Inc.
M-D Blowers, Inc.
Pre-Flite Industries Corp.-Sub.-Avco Mfg.
Corp.
Solar Aircraft Co.
Sundstrand Turbo
Wells Industries Corp.
Western Gear Corp.-Precision Products
Div.
Wickfield, Inc.

STARTERS, ROCKET ENGINE

*AEROJET-GENERAL CORP.
Arde-Portland, Inc.
Bendix Utica Div., Bendix Aviation Corp.
Bermite Powder Co.
*DEL MAR ENGRG. LABS.
Gabriel Co., Rocket Power-Talco
Grand Central Rocket Co.
Guided Missile Div., The Firestone Tire &
Rubber Co.
Hercules Powder Co., Chemical Propulsion
Div.
Lithium Corp. of America Inc., The
Fulton-Irgon Div.
McCormick Selph Associates
Ordnance Research & Development Co.,
Div.-Bermite Powder Co.
Propellex Chemical Div., Chromalloy
Corp.
Rockefdyne Div.-North American Aviation,
Inc.
Western Gear Corp.-Precision Products
Div.

STARTING SYSTEMS & CONTROLS

*AEROJET-GENERAL CORP.
Aircraft Accessory Turbine Dept.-General
Electric Co.
*AIRESEARCH MFG. OF ARIZONA
*AIRESEARCH MFG. CO., DIV.-THE
GARRETT CORP.
Allis-Chalmers
Arrow-Hart & Hegeman Electric Co., The
Auto-Control Labs, Inc.
Bendix Aviation Corp.
*BENDIX PRODUCTS DIV., BENDIX
AVIATION CORP.
Bendix Utica Div., Bendix Aviation Corp.
Clark Controller Co., The
Consolidated Diesel Electric Corp.
Cornelius Co., The, Aero Div.
Cornell Deep Drawing Co., Div.-Lanes
Industries Corp.
Ford Instrument Co., Div.-Sperry Rand
Corp.
General Electric Co., Apparatus Sales
Div.
Guidance Controls Corp.
Guided Missile Div., The Firestone Tire &
Rubber Co.
Hamilton Standard, Div.-United Aircraft
Corp.
Hoover Electronics Co.
Jack & Heintz, Inc.
Kahn & Co., Inc.
Leach Corp.
Lear, Inc.
Micro Gee Products, Inc.
Northrop Corp.
On Mark Couplings, Inc.
Rimak, Inc.
Southwestern Industrial Electronics Co.
Sundstrand Turbo

Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Mich.
Wells Industries Corp.
Western Gear Corp.-Precision Products
Div.
Wolverine Diesel Power Co.

STATIC ELIMINATORS

CGS Labs., Inc.
Hoover Electronics Co.
Isotopes Specialties Co., Div.-Nuclear
Corp. of America
Lear, Inc.
Merix Chemical Co.
Micro-Circuits Co.
Statikil, Inc.
Herman H. Sticht Co., Inc.
Telkor, Inc.
United States Radium Corp.
Vibration Isolation Products

STATORS, MOTOR & GENERATOR

A. Biederman, Inc.
Bogue Electric Mfg. Co.
Chase Electronics Motor Div., Inc.
Eicor Div.-Scranton
General Electric Co., Apparatus Sales
Div.
Genisco, Inc.
Hammett-Mercury-Rex Div.
George E. Harris & Co., Inc.
Hol-Gar Mfg. Corp.
IMC Magnetics Corp.
Jack & Heintz, Inc.
Leach Corp.
Leece-Neville Co., The
Leland Airborne Products, Div.-American
Machine & Foundry Co.
Lincoln Electric Co., The
Marquardt Corp., The
Minneapolis-Honeywell Regulator Co.
Boston Div.
Precision, Inc.
Radio Development & Research Corp.
Telley Corp., The
Westinghouse Electric Corp.

STEEL, ELECTRIC

Armco Steel Corp.
Bethlehem Steel Co.
Carpenter Steel Co., The
Crucible Steel Co. of America
Jessop Steel Co.
Jones & Laughlin Steel Corp., Stainless
& Strip Div.
Kolcast Industries-Div. Thompson Ramo
Wooldridge Inc.
Lapham Hickey Steel Corp.
Midvale-Heppenstall Co.
Republic Steel Corp.
Joseph T. Ryerson & Son, Inc.
Sharon Steel Corp.
Standard Steel Works, Div.-Baldwin-Lima-
Hamilton Corp.
U. S. Steel Supply Div., United States
Steel Corp.
United States Steel Corp.
Vanadium-Alloys Steel Co.
Wai Met Alloys Co.
Westinghouse Electric Corp.
Wyman-Gordon Co.

STEEL, METAL COATED

Armco Steel Corp.
Bethlehem Steel Co.
Chromium Corp. of America
Colorado Fuel & Iron Corp., The
General American Transportation Corp.
Jones & Laughlin Steel Corp., Stainless
& Strip Div.
Earle M. Jorgensen Co.
Lukens Steel Co.
Pfaeuler Div., Pfadler Permutit Inc.
Republic Steel Corp.
Sharon Steel Corp.
Arthur Tickle Engrg. Works, Inc.
U. S. Steel Supply Div. United States
Steel Corp.
United States Steel Corp.

STEEL, * STAINLESS

Armco Steel Corp.
Avco Corp., Nashville Div.
Bethlehem Steel Co.
Bond Metal Surplus Co.
A. M. Byers Co.
G. O. Carlson, Inc.
Carpenter Steel Co., The
Chase Brass & Copper Co., Inc.

Colorado Fuel & Iron Corp., The
Crucible Steel Co. of America
Custom Tool & Mfg. Co.
Damascus Tube Co.
Driver-Harris Co.
Dudwallen Mfg. Co., Inc., The
Eastern Stainless Steel Corp.
General Alloys Co.
Hamilton Watch Co.-Industrial Div.
Harvey Aluminum
Hughes Tool Co., Aircraft Div.
Jessop Steel Co.
Jones & Laughlin Steel Corp., Stainless
& Strip Div.
Earle M. Jorgensen Co.
Kolcast Industries-Div. Thompson Ramo
Wooldridge Inc.
Charles E. Larson & Sons, Inc.
Mc Louth Steel Corp.
Midvale-Heppenstall Co.
National Tube Div.-United State Steel
Corp.
Opelika Welding, Machine & Supply Inc.
Perfecto Cast
Pioneer Aluminum Inc.
Republic Steel Corp.
Rodney Metals Inc.
Joseph T. Ryerson & Son Inc.
Sandvik Steel, Inc.
Seymour Mfg. Co., The
Sharon Steel Corp.
South River Metal Products Co., Inc.
Standard Steel Works, Div.-Baldwin-Lima-
Hamilton Corp.
Superior Steel Div., Copperweld Steel Co.
Timken Roller Bearing Co., The
U. S. Pipe & Foundry Co., Steel & Tubes
Div.
U. S. Steel Supply Div., United States
Steel Corp.
United States Steel Corp.
Universal-Cyclops Steel Corp.
Vanadium-Alloys Steel Co.
Var-Lac-Oid Chemical Co.
Wai Met Alloys Co.
Wallingford Steel Co.
Washington Steel Corp.
Wyman-Gordon Co.

STILLS & DEMINERALIZERS

Accessory Controls & Equipment Corp.
Barnstead Still & Sterilizer Co.
Chance Vought Aircraft, Inc.
Detrex Chemical Industries, Inc.
General American Transportation Corp.
Nooter Corp.
Opelika Welding, Machine & Supply Inc.
F. J. Stokes Corp.

STIMULATORS

American Electronic Labs., Inc.
Bendix Aviation Corp.
Electro-Medical Lab., Inc.
Rucker Co. The

STOOLS & BENCHES

Brooks & Perkins, Inc.
Eureka Williams Inc.
Lyon Metal Products, Inc.
Joseph T. Ryerson & Son, Inc.
Standard Pressed Steel Co.
Young & Rioux Woodworking Co., Inc.

STORAGE CONTAINERS

ACF Industries Inc.
Aerocal Div., Aeronca Mfg. Corp.
American Car & Foundry Div., ACF In-
dustries, Inc.
American Rocket Co.
Ampco Metal, Inc.
Benson Mfg. Co.
Brooks & Perkins, Inc.
Buffalo Metal Container Corp.
Butler Mfg. Co.
California Stamping & Mfg. Co.
Cutter Metal Products Co.
C. R. Daniels, Inc.
Dempster Brothers, Inc.
Dolin Metal Products, Inc.
Dudwallen Mfg. Co., Inc. The
Farwell Metal Fabricating
Gatewood Products, Inc.
General American Transportation Corp.
Goldsmen
Graver Tank & Mfg. Co., Div.-Union
Tank Car Co.
Hahn & Clay
Halliburton, Inc., Mfg. Div.
High Vacuum Equipment Corp., Sub-
Robinson Tech. Products, Inc.

Hofman Labs, Inc.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Kirk & Blum Mfg. Co., The
 Lofstrand Co., The
 Lukens Steel Co.
 Lunn Laminates, Inc.
 Lyon Metal Products Inc.
 MEG Products, Div.-Mandrel Industries, Inc.
 Northrop Corp.
 Opelika Welding, Machine & Supply Inc.
 Parsons Corp., Special Products Div.
 Pfaudler Div., Pfaudler Permutit Inc.
 Portland Copper & Tank Works Inc.
 Pressed Steel Tank Co.
 Pry Welding & Mfg., Inc.
 Republic Steel Corp.
 Rimak, Inc.
 Skydyne, Inc.
 A. O. Smith Corp., Smith-Erie Div.
 Stackbin Corp.
 Standard Steel Corp., Cambridge Div.
 Weber Aircraft Corp.
 Welded Construction Inc.

STORAGE UNITS

ACF Industries, Inc.
 American Latex Products Corp.
 American Rocket Co.
 Brooks & Perkins, Inc.
 Cutler Metal Products Co.
 Dolin Metal Products, Inc.
 Dudwallen Mfg. Co. Inc., The
 Farwell Metal Fabricating
 Gatewood Products, Inc.
 General American Transportation Corp.
 Graver Tank & Mfg. Co., Div.-Union Tank Car Co.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc.
 Image Instruments, Inc.
 Lyon Metal Products, Inc.
 Pfaudler Div., Pfaudler Permutit Inc.
 Republic Steel Corp.
 Rimak, Inc.
 Joseph T. Ryerson & Son, Inc.
 Standard Pressed Steel Co.
 Standard Steel Corp., Cambridge Div.
 Struthers Wells Corp.
 Young & Rioux Woodworking Co., Inc.

STRAIN RELIEFS

American Latex Products Corp.
 Birnbach Radio Co., Inc.
 Heyman Mfg. Co.
 Holub Industries, Inc.
 MEG Products, Div.-Mandrel Industries Inc.
 Malco Mfg. Co.
 Milton Ross Metals Co. The
 Rubbercraft Corp. of California

STRAINERS

Accessory Products Co., Div.-Textron Inc.
 Aero Supply Mfg., Inc.
 Agricultural Aviation Engineering Co., Inc.
 Air-Maze Corp.
 Bethlehem Steel Co.
 Bowser Inc., Defense Div.
 A. W. Cash Valve Mfg. Corp.
 Chemical Micro Milling Co.
 Du-Co Ceramics Co.
 Eddington Metal Specialty Co.
 Garwin, Inc.
 General Controls Co.
 Harman Equipment Co.
 Kieley & Mueller, Inc.
 Ladish Co.
 Leslie Co.
 Marsh Instrument Co., Div.-Colorado Oil & Gas Corp.
 Newark Wire-Cloth Co.
 OPW-Jordan
 Pequot Wire Cloth Co.
 Protectoseal Co., The
 Republic Mfg. Co.
 J. R. Robbins Co.
 Rockwood Sprinkler Co., Div.-The Game-well Co.
 Schutte & Koerting Co.
 Spraying Systems Co.
 Zurn Industries, Inc.

STRIPS, GROUNDING

Accurate Electronics Corp.
 Blaco Mfg. Co.
 Metal Textile Corp. Div.-General Cable Corp.

STRIPS, MOUNTING

American Latex Products Corp.
 Erie Resistor Corp.
 Federal Screw Products Inc.
 B. F. Goodrich Industrial Products Co.
 Luzerne Rubber Co.
 Sangamo Electric Co.
 Unified Industries, Inc.

STROBOSCOPE, SYNCHRONIZER

Chadwick-Helmuth Co.
 Edgerton, Gerneshausen & Grier, Inc.
 Hammett-Mercury-Rex Div.
 Winkler Labs.

STROBOSCOPES

American Speedlight Corp.
 Chadwick-Helmuth Co.
 Davenport Mfg. Co.
 Joe Davidson & Associates
 Edgerton, Gerneshausen & Grier, Inc.
 Electronic Brazing Co.
 Epic, Inc.
 General Radio Co.
 Hammett-Mercury-Rex Div.
 I-L-S Instrument Div., The Meriam, Instrument Co.
 Kingston Electronics-Div.-Kingston Industries Inc.
 Loral Electronics Corp.
 Herman H. Sticht Co., Inc.
 Sun Electric Corp., Aeronautical Div.

STRONTIUM

Bram Metallurgical Chemical Co.
 Delta Chemical Works, Inc.
 King Labs, Inc.
 *RADIO CORP. OF AMERICA
 Tracerlab Inc.
 Var-Lac-Oid Chemical Co.

SUBMINIATURIZATION SERVICES

ACF Electronics Div., ACF Industries Inc.
 American Machine & Foundry Co., Government Products, N. Y.
 *ARNOUX CORP.
 Beckman & Whitley, Inc., Missile Products Div.
 Bendix Aviation Corp., Cincinnati Div.
 Budd Lewyt Electronics, Inc.
 Bulova Research & Development Labs., Inc.
 Cleveland Metal Specialties Co., Electronics Div.
 Delco Radio Div.-General Motors Corp.
 Designers for Industry, Inc.
 Du Kane Corp.
 Allen B. Du Mont Labs., Inc.
 Electromation Co., Div.-Del Mar Engrg. Labs
 Erie Resistor Corp.
 Ford Instrument Co., Div.-Sperry Rand Corp.
 Guidance Controls Corp.
 High Vacuum Equipment Corp., Sub-Robinson Tech. Products, Inc.
 Hoover Electronics Co.
 Kollman Instrument Corp., Sub-Standard Coil Products Co., Inc.
 Lear, Inc.
 Livingston Electronic Corp.
 Madigan Corp.
 Maico Electronics, Inc.
 Mira Corp., The
 Molded Insulation Co.
 Motorola, Inc.
 National Co., Inc.
 National Scientific Labs, Inc.
 Northrop Corp.
 Nugent Electronics Co., Inc.
 Philco Corp.-Govt. & Industrial Group
 *RADIO CORP. OF AMERICA, DEFENSE
 *ELECTRONICS PRODUCTS
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV.
 Recony Div.-Vincor Corp.
 Reed Instrument Co.
 Reed Research Inc.
 Rimak, Inc.
 Sonotone Corp.
 Southwest Research Institute
 Southwestern Industrial Electronics Co.
 Telechrome Mfg. Corp.
 Texas Instruments Inc.
 Walkirt Co.

SUPERSONIC EQUIPMENT

*DEL MAR ENGRG. LABS.
 Emertron, Sub-Emerson Radio & Phonograph Corp.
 Maico Electronics, Inc.
 Philco Corp.-Govt. & Industrial Group
 Vickers, Inc., Mich.

SUPPORTS, TUBE

American Latex Products Corp.
 Art Wire & Stamping Co.
 Electronic Parts Mfg. Co., Inc.
 Lamtex Industries Inc.
 National Tube Div.-United States Steel Corp.
 Northrop Corp.
 Stamping Div.-Rockwell Standard Corp.
 U. S. Pipe & Foundry Co., Steel & Tubes Div.

SUPPRESSORS, NOISE

Air Logistics Corp.
 Axel Electronics-Div.-Axel Bros, Inc.
 A. M. Byers Co.
 David Clark Co., Inc.
 Continental-Wirt Electronics Corp.
 Dudwallen Mfg. Co., Inc. The
 Emhart Mfg. Co., Maxim Div.
 Erie Resistor Corp.
 Hallett Mfg. Co.
 Janke & Co. Inc.
 Koppers Co., Inc., Metal Products Div.
 Lear, Inc.
 M. V. Palmer, Inc.
 Telkor, Inc.

SWITCH, GUARDS

Birnbach Radio Co., Inc.-
 Grimes Mfg. Co.
 Hartwell Aviation Supply Co.
 Lear, Inc.

SWITCH INERTIA

Beckman & Whitley, Inc., Missile Products Div.
 Control Data Corp.
 Joe Davidson & Associates
 Eureka Williams Corp.
 Genisco, Inc.
 Giffilan Bros. Inc.
 Haydon Switch, Inc.
 Integrated Dynamics Div., Globe Industries, Inc.
 Kidde Aero-Space Div., Walter Kidde & Co., Inc.
 Lear, Inc.
 Northrop Corp.
 Patterson Moos Research, Div.-Leesona Corp.
 U. S. Science Corp., Div.-Topp Industries, Inc.

SWITCHES

a. Acceleration
 b. Air Ram
 c. Alarm
 d. Aneroid
 e. Automatic
 f. Automatic Transfer
 g. Circuit Breaker
 h. Coaxial
 i. Commutation, for Telemetering
 j. Contact
 k. Control
 l. Crossbar
 m. Decade
 n. Duplex
 o. Electronic
 p. Float
 q. Foot
 r. Hermetically Sealed
 s. Hydraulic
 t. Ignition
 u. Impact
 v. Indicating
 w. Jack
 x. Key
 y. Knife
 z. Limit
 a-1. Liquid Oxygen Control
 b-1. Mach Limit
 c-1. Mechanical Control
 d-1. Mercury
 e-1. Microphone
 f-1. Microwave
 g-1. Miniature
 h-1. Oil Immersed
 i-1. Plunger
 j-1. Pressure
 k-1. Printed Circuit
 l-1. Pulse
 m-1. Pushbutton
 n-1. Radio
 o-1. Remote Control
 p-1. Reset
 q-1. Rotary
 r-1. Rotary Chopper
 s-1. Rotary Sampling
 t-1. Rotary Selector
 u-1. Safety
 v-1. Slide
 w-1. Snap Action
 x-1. Specialty
 y-1. Step Type
 z-1. Subminiature
 a-2. Tap
 b-2. Telemetering
 c-2. Temperature Control
 d-2. Thermal

e-2. Timing
f-2. Toggle
g-2. Transformer
h-2. Transistor
i-2. Vacuum
j-2. Wavechange Receiver
k-2. Wavechange Transmitter
l-2. Waveguide
m-2. Waveguide Microwave

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS, a, j-1.
ACF Industries Inc., p, s, g-1, h-1, j-1, z-1, i-2.
ASCOP Div., Electro-Mechanical Research, Inc., i, s-1, b-2.
Acro Div., Robertshaw-Fulton Controls, e, j, k, v, z, g-1, j-1, m-1, p-1, u-1, w-1, z-1, f-2.
Actuation Research Corp., a, c, d, h, o, f-1, l-2, m-2.
Aero Instrument Co., b, d, s, a-1, j-1, i-2.
Aero Supply Mfg. Inc., p, r, j-1.
*AEROJET-GENERAL CORP., j-1.
Aerolux Light Corp., i-2.
Aeronautical Machinists Inc., i-1, j-1.
Aerotec Industries Inc., Aircraft Equipment Div., a thru d, p, r, s, u, v, a-1, b-1, g-1 thru j-1, i-2.
Ainslie Corp., l-2, m-2.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc., a-1.
*AIRESARCH MFG. CO., DIV.-THE GARRETT CORP., j-1, c-2.
Airflyte Electronics Co., i, k-1, l-1, q-1 thru t-1, b-2, e-2.
Airpax Electronics Inc., Cambridge Div., g, h.
Airpax Electronics Inc. Seminole Div., g, h.
Airtron, Div.-Littion Industries, g-1, l-2, m-2.
Alidan Products Co., v.
All Specs Corp., f-2.
Allard Instrument Corp., g, v.
Allen Electric & Equipment Co., w-1, x-1, a-2.
Allied Control Co., Inc., m-1, z-1, f-2, i-2.
Allied International Corp., r, z-1, c-1, g-1 thru j-1, m-1 thru p-1, w-1 thru z-1, b-2 thru f-2.
American Electronic Labs., Inc., f-1.
American Machine & Foundry Co., Government Products Group, l.
American Machine & Foundry Co., Government Products, N. Y., e, o, s, j-1, m-1, u-1, x-1, z-1.
American Missile Products Co., Inc., i.
American Potash & Chemical Corp., National Northern Div., c-1.
American Research & Mfg. Corp., h-2.
Amigo Corp., r-1, s-1, x-1, e-2.
*ANDREW CORP., h, l-2.
Arthur Ansley Mfg. Co., k-1.
Applied Electronics Corp. of N. J., i, q-1, s-1, b-2, e-2.
Arch Gear Works Inc., z.
Armament Div.-Universal Match Corp., A-1.
*ARNOUX CORP., i, o, b-2.
Arrow-Hart & Hegeman Electric Co., The, f, j, k, l, n thru q, z.
Associated Engineers, Inc., j, k, m-1, w-1, f-2.
Automatic Electric Sales Corp., k, m, r, w, x, c-1, f-1, o-1, q-1, s-1, t-1.
Automatic Switch Co., f, k, c-1, f-1, o-1, w-1.
Automatic Timing & Controls, Inc., e, o, e-2.
Automation Products, Inc., o, a-1.
Avco Corp., Crosley Div., a, e, k, c-1, g-1, j-1, n-1, o-1, u-1, z-1, h-2, i-2.
Avion, Inc., e-2.
Barber-Colman Co., c-2, d-2.
Barksdale Valves, j-1.
Barwood Electronics Inc., q.
Beckman & Whitley, Inc., Missile Products Div., a, d, j, r, u, c-1, w-1, e-2.
Belock Instrument Corp., a, k, o, j-1, o-1, e-2.
Bendix Aviation Corp., a, d, h, i, o, p, s, t, a-1, b-1, j-1, n-1, o-1, q-1, b-2, c-2, h-2.
Bendix Aviation Corp., Cincinnati Div., a, k, o, j-1, l-1, o-1, e-2.
Bendix Aviation Corp.-Montrose Div., k, r, s, g-1, j-1, i-2.
Bendix Utica Div., Bendix Aviation Corp., e-2.
Bermite Powder Co., t.
Bernco Engng. Corp., e, r, z, c-1, d-1, u-1.
A. Biederman, Inc., f-2.
Birnback Radio Co., Inc., g, x, y, g-1, m-1, q-1, v-1, z-1, f-2.
Bogart Mfg. Corp., h, f-1, l-2, m-2.
*BRISTOL CO., THE, j-1.
Bulova Research & Development Labs., Inc., a, e-2.
Burrhoughs Corp., Electronic Tube Div., o.
CBS Electronics, Div. Columbia Broadcasting System, Inc., o.
CG Electronics Corp., l-1, b-2.
CGS Labs., Inc., o.
Capitol Machine Co., The, x, m-1.
Captive Seal Corp., s, c-1, j-1.
Carleton Aviation Co., Inc., a, b, e, s, a-1, c-1, h-1, j-1, i-2.
Carling Electric, Inc., j, k, p, q, t, e-1, g-1, j-1, m-1, q-1, u-1 thru x-1, z-1, f-2.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, i-2.
Centralab, Div.-Globe-Union, Inc., g-1, k-1, m-1, q-1, t-1, z-1, a-2.
Century Electronics & Instruments, Inc., j-1, h-2.
Chemical Micro Milling Co., k-1.
Chicago Miniature Lamp Works, r.
Clark Controller Co., The, a, c, e, f, k, o, p, q, v, y, z, b-1, j-1, m-1, l-1, p-1, q-1, t-1, u-1, w-1, e-2, f-2.
Clarostat Mfg. Co., Inc., k, g-1, n-1, q-1, t-1, w-1, x-1, z-1.
Cole Electric Co., r, c-1, q-1.
Collectron Corp., i, r-1, s-1, t-1, b-2.
Colvin Labs., Inc., j-1.
Comar Electric Co., i, z, b-1, g-1.
*COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., f-1.
Components Corp., c-2, d-2.
Consolidated Airborne Systems, Inc., a, a-1.
Consolidated Controls Corp., b, c, d, r, s, v, z, b-1, g-1, j-1, z-1, c-2, d-2, i-2.
Consolidated Vacuum Corp., i-2.
Continental-Wirt Electronics Corp., v-1.
Control Data Corp., a.
Control Products Inc., c-2, d-2.
Convoir Instruments, Convoir Div.-General Dynamics Corp., a-1.
Control Sw. Div. Controls Co. of America, k, q, r, v, z, c-1, g-1, i-1, l-1, m-1, p-1, q-1, t-1, u-1, w-1, z-1, f-2.
Cornelius Co., The, Aero Div., r, s, j-1.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., d, e, s, j-1.
Couch Ordnance, Inc., c, q-1, t-1.
Cramer Controls Corp., e-2.
Crescent Engng. & Research Co., a.
Croname Inc., k-1.
Crosby-Teletronics Corp., o.
James Cunningham Son & Co., Inc., l.
Curtiss-Wright Corp., Electronics Div., r, g-1, z-1, d-2, h-2.
Cushman Precision Industries, i, j, o, r, g-1, k-1, o-1, q-1, r-1, s-1, x-1, z-1, b-2, h-2.
Custom Component Switches Inc., a thru e, r, s, v, a-1, b-1, j-1, u-1, z-1, i-2.
Daven Co., The, h, i, j, m, n, o, r, z, g-1, k-1, q-1, s-1, t-1, v-1, w-1, y-1 thru b-2, h-2.
Joe Davidson & Associates, a, g, h, k, r, u, v, z, f-1, g-1, i-1, j-1, m-1, w-1, x-1, y-1, d-2, l-2, m-2.
Daystrom Inc., Pacific Div., a.
De Havilland Aircraft of Canada, Ltd., Special Products Div., r-1.
Delco Radio Div.-General Motors Corp., o, z, h-2.
Delttron Inc., o, h-2.
Demornay-Bonardi, f-1, l-2, m-2.
Dialight Corp., v, p-1, w-1.
Diamond Antenna & Microwave Corp., h, f-1, l-2, m-2.
Henry G. Dietz Co., Inc., The, j-1, e-2, i-2.
Digitron, Co., The, k, m, r, g-1, k-1, m-1, q-1, x-1.
Dieco, Div.-Djordjevic Engng. Co., o, h-2.
Don-Lan Electronics Inc., h, l, f-1, m-1, m-2.
Douglas Microwave Co., Inc., h, f-1, l-2, m-2.
Dow-Key Co., h, o.
Durakod, Inc., d-1.
Dynamic Controls Corp., b, d, p, j-1, y-1, d-2, e-2.
Eagle Electric Mfg. Co., Inc., n, y, d-1, q-1, w-1, f-2.
Eagle Signal Co., e, k, r, z, c-1, l-1, e-2.
Eastern Industries Inc., j-1.
Eastern Specialty Co., The, q-1, a-2.
Ebert Electronics Corp., r, d-1, i-1, o-1, w-1, e-2, g-2.
Hugh H. Eby Co., m-1.
Edcliff Instruments, a.
Edgerton, Gershenhausen & Grier, Inc., h.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., r, d-2, e-2.
Edwards High Vacuum Ltd., i-2.
Eitel-McCullough, Inc., i-2.
Eldemo Corp., g-1, m-1, p-1, w-1, x-1, z-1, h-2.
Electro Switch Corp., k, c-1, g-1, o-1, q-1, t-1, w-1, x-1, z-1, a-2.
Electro Tec Corp., i, o, g-1, q-1, r-1, s-1, b-2.
Electro-Miniatures Corp., i, r, g-1, q-1, r-1, s-1, x-1, z-1, b-2.
Electronic Control Corp., o.
Electronic Engng. Co. of California, o.
Electronic Specialty Co., h.
Electron-Radar Products, r, d-1, d-2.
Electro-Serv Co., i, s-1, b-2.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a.
Ellison Draft Gage Co., Inc., c, v, i, c-1, j-2.
Emmerton, Sub.-Emerson Radio & Phonograph Corp., f-1, k-1, b-2, j-2 thru m-2.
*EQUIPMENT DIV., RAYTHEON CO., g-2, h-2.
Era Engng. Inc., a, s, u.
Essex Mfg. Co., Inc., b, d, p, r, s, a-1, j-1, q-1, t-1, v-1, f-2.
Eureka Williams Corp., a, u, d-2, e-2.
Exact Engng. & Mfg. Inc., e-2.
FXR, Inc., f-1, l-2, m-2.
Fairfield Engng. Corp., f, g, k, o.
Farmer Electric Products Co., Inc., z, s-1.
Farwest Mfg. Div., Inc., o, f-2.
Federal Screw Products Inc., v-1, f-2.
Fenwal Inc., c, e-2, d-2.
Food Machinery & Chemical Corp., Ordnance Div., h-2.
Ford Instrument Co., Div.-Sperry Rand Corp., k, o, c-1, h-2.
Frebrank Co., b, d, a-1, j-1, i-2.
Furnas Electric Co., j, k, p, q, z, j-1, m-1, o-1, q-1, a-2.
G-C Controls Inc., q-1, v-1, f-2.
G-V Controls Inc., c-2, d-2, e-2.
Gamewell Co., The, q-1, s-1, t-1.
General Aniline & Film Corp., Ansoco Div., m-2.
General Communication Co., h, f-1.
General Controls Co., e, j, k, q, r, z, c-1, j-1, w-1, c-2, e-2, i-2.
General Devices, Inc., a thru z, a-1 thru z-1, a-2 thru m-2.
General Electric Co., Apparatus Sales Div., e, f, g, j, k, p, r, y, z, h-1, j-1, m-1, o-1, p-1, q-1, u-1, w-1, x-1, b-2 thru g-2, i-2.
General Radio Co., m.
Genisco, Inc., a, i, u, s-1.
Genisco, Inc., Instrument Div., a, i, s-1, b-2.
Gibson Electric Co., j.
Giffilan Bros. Inc., a, h, u-1, x-1, d-2, l-2, m-2.
Glasco Instrument Co., a-1, j-1, i-2.
John Gombos Co., Inc., f-1, l-2, m-2.
Good Electronic Corp., m, s-1, t-1.
B. F. Goodrich Aviation Products, j-1.
Gorham Electronics-Div.-Gorham Mfg. Co., l-2, m-2.
Gorn Electric Co., Inc., Aircraft Controls Div., b, c, d, k, p, r, s, b-1, j-1, o-1, z-1, d-2.
Gorn Electric Co., Inc., Gorn Electronics Div., b, c, d, p, r, b-1, j-1, o-1, y-1, d-2.
Graphik Circuits, Div.-Cinch Mfg. Co., k-1.
Graphite Metallizing Corp., i, r-1.
Griffith, Inc., g-1, m-1, t-1, z-1.
Great Lakes Mfg. Corp., d, r, s, j-1.
Greenleaf Mfg. Div., The, Mandrel Ind. Inc., a.
Grisby Co., Inc., The, j, m, o, q, c-1, e-1, g-1, i-1, k-1, m-1 thru q-1, t-1, v-1, w-1, x-1, z-1, j-2, k-2.
Guided Missile Div., The Firestone Tire & Rubber Co., j-1.
B. H. Hadley, Inc., k, p, s, a-1, c-1, j-1, x-1.
Hagan Chemicals & Controls Inc., j-1.
Hagen Mfg. Co., e, k, z, c-1, p-1, e-2.
Hamilton Watch Co., Military Products Div., a, j, v, p-1.
Hamlin, Inc., c, i, r, d-1, x-1, z-1.
Hammitt-Mercury-Rex Div., g, o, d-1, f-1, o-1, q-1, v-1 thru y-1, a-2, e-2, j-2 thru m-2.
George E. Harris & Co., Inc., g, r, v, z, b-1, g-1, i-1, j-1, m-1, n-1, q-1, w-1, z-1, d-2, f-2.
Hart Mfg. Co., The, o, r, k-1, q-1, t-1, v-1, w-1, x-1, c-2, f-2.
Hartwell Aviation Supply Co., f-1.
Haskel Engng. & Supply Co., b, s, a-1, j-1, f-2, i-2.
A. W. Haydon Co., The, e, f, i, o, o-1, s-1, b-2, e-2, h-2.
Haydon Switch, Inc., a, d, r, u, z, a-1, g-1 thru j-1, m-1, p-1, w-1, x-1, z-1, f-2.
Heinemann Electric Co., z.
Hermetic Seal Corp. & Thermal Controls, Inc., r, d-1, w-1, d-2.
Hewlett-Packard Co., l-2, m-2.
High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., i-2.
Highland Engng. Co., E-2.
E. Vernon Hill & Co., c-2.
John W. Hobbs Corp., Div.-Stewart-Warner Corp., J-1.
Hughes Semiconductor Div.-Hughes Aircraft Co., h-2.
Walter J. Hyatt Co., The, s, j-1.
Hydra-Power Corp., s, j-1.
Hydraulic Research & Mfg. Co., s, j-1.
ITT Components Div., International Telephone & Telegraph Corp., g-1.
Imtra Corp., y-1.
Industrial Devices Inc., t-1.
Industrial Instruments Inc., m, q-1.
Indsl. Prod.-Danbury Knudsen Div.-Amphenol-Borg Electronics Corp., h, r, f-1, g-1, i-2.
Industrial Timer Corp., d-2, e-2.
Ingram Co., The, e-2.
Instrument Development Labs., Inc., i, s-1, b-2.
Instrument Div., The W. L. Maxson Corp., a.
Integral Corp., s.
Integrated Dynamics Div., Globe Industries, Inc., a, u, b-1.
Interstate Engng. Corp., j-1.
JEM Electronics Corp., o-1.
JFD Electronics Corp., d-1.
James Electronics Inc., h.

Janco Corp., g, r, s, z, g-1, j-1, q-1, t-1, x-1, a-2, c-2, d-2, e-2.

Javex Electronics, h, q-1.

Jennings Radio Mfg. Corp., g, h.

Jordan Electronics, Div.-Victoreen Instrument Co., o, e-2, h-2.

Joy Mfg. Co., m-1, w-1, f-2.

Kahn & Co., Inc., k.

Kay Electric Co., f-2.

***KEARFOOT DIV., GENERAL PRECISION, INC., q-1.**

***KEARFOOT DIV., GENERAL PRECISION, INC., MICROWAVE PRODUCTS, f-1.**

Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., e, f, j, k, l, o, v, w, x, c-1, e-1, i-1, k-1, m-1, o-1, q-1, y-1.

Kemp Aero Products, s, j-1.

Kidde Aero-Space Div., Walter Kidde & Co., Inc., u, j-1.

Kings Electronics Co., Inc., h.

Kollsman Instrument Corp., Sub-Standard Coil Products Co., Inc., a, r, b-1, c-1, j-1, k-1.

Kolton Electric Mfg. Co., y, u-1.

Kulka Electric Corp., o, f-2.

Lamtex Industries Inc., i.

Langley Corp., r, c-2, d-2.

Learn, Inc., a, b, c, e thru m, o thru r, u, v, z, c-1, d-1, g-1, j-1, k-1, m-1, o-1, p-1, q-1, s-1, t-1, u-1, x-1, z-1, c-2, d-2, h-2, i-2.

Leece-Neville Co., The, j, m-1.

Leeds & Northrup Co., m, x, y, m-1, q-1, t-1, a-2, f-2.

Leetronics, Inc., s-1, x-1, m-2.

G. H. Leland, Inc., r, o-1, p-1, q-1, y-1.

***WALLACE O. LEONARD, INC., a, d, s, u, b-1, j-1, z-1.**

Leviton Mfg. Co., Inc., k, n, x, y, d-1, g-1, m-1, n-1, q-1, v-1, w-1, a-2, f-2.

***LEWIS ENGRG. CO., THE, q-1, t-1.**

Licon Switch & Control Div., Illinois Tool Works, r, z, c-1, m-1, l-1, w-1, x-1, z-1.

Lieco, Inc., f-1, l-2, m-2.

Line Material Industries-McGraw-Edison Co., e, f, g, c-1, o-1.

Liquidometer Corp., The, o, p, c-2.

Litton Industries, Inc., l-2.

Livingston Electronic Corp., q.

Lundy Mfg. Corp., e, f, k, q-1.

***MAGNAVOX CO., THE, a, s-1, b-2.**

P. R. Mallory & Co., Inc., e, j, m, o, r, w, z, g-1, i-1, k-1, m-1 thru p-1, t-1 thru w-1, y-1, z-1, a-2, e-2, f-2, h-2.

Markite Corp., i, s-1, b-2.

Master Electric Corp., r, u, c-1, g-1, l-1, o-1, q-1, t-1, w-1, x-1, y-1, a-2, b-2, f-2, g-2.

Mason-Neilan, j-1, y-1.

McGill Mfg. Co., Inc., Bearing Div., o, z.

Mechanical Products, Inc., g.

Meletron Corp., d, s, v, z, a-1, b-1, c-1, h-1, i-1, k-1, o-1, q-1 thru t-1, w-1, d-2, l-2.

Micro Switch, Div.-Minneapolis-Honeywell Reg. Co., q, r, z, d-1, g-1, i-1, l-1, m-1, p-1, q-1, t-1, w-1, z-1, f-2.

Microdot Inc., h.

Microwave Associates, Inc., h, n, f-1, q-1, j-2 thru m-2.

Miller-Robinson Co., s, g-1, j-1.

Milli-Switch Corp., z, g-1, i-1, m-1, q-1, u-1, w-1, z-1, f-2.

Minneapolis-Honeywell Regulator Co., Aeronautical Div., a-1.

Minneapolis-Honeywell Regulator Co., Boston Div., a.

Mitchell Camera Corp., j-1, l-1.

Donald P. Mossman, Inc., x, m-1.

Motorola, Inc., o, f-1, h-2, l-2, m-2.

Muirhead Instruments Inc., m, x, q-1, t-1.

Mycalex Corp. of America, o, k-1, q-1, b-2.

National Co., Inc., i, n-1, o-1, h-2, i-2.

Navigation Computer Corp., o, h-2.

Networks Electronic Corp., o, r, h-2.

Newark Controls Co., d, p, j-1, i-2.

Newton Co., The, o.

Norrlich Plastics Corp., g-1, l-1 thru p-1, w-1, x-1, y-1.

Northrop Corp., o, o-1, y-1, e-2.

Nonwalk Thermostat Co., k, w-1, c-2, d-2, e-2.

Olin Mathieson Chemical Corp., N. Y., o, d-2.

Omega Labs, Inc., f-1, l-2, m-2.

Ordnance Research & Development Co., Div.-Bermite Powder Co., t.

PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y., q-1.

Pacific Mercury Electronics, i, u, v, s-1, b-2.

Pacific Scientific Co., a, d, e, i, k, n, r, u, c-1, d-1, g-1, k-1, l-1, o-1 thru t-1, x-1, z-1, b-2 thru e-2.

Packard Bell Computer Corp., o, k-1, l-1, e-2, h-2.

M. V. Palmer, Inc., y-1.

Parkway Specialties Co., k.

Pass & Seymour, Inc., Defense Div., x-1.

Patterson Moos Research, Div.-Leesona Corp., a, u, e-2.

Penn-Keystone Corp., h-2.

Permoflux Products Co., q, e-1.

Philco Corp.-Govt. & Industrial Group, k, l, o, k-1, m-1, o-1, b-2, h-2, m-2.

Piqua Engrg. Inc., j-1, x-1.

Joseph Poliak Corp., j, k, o, r, f, x, g-1, m-1, o-1, q-1, t-1, w-1, f-2.

PolyScientific Corp., i, g-1, q-1, s-1, t-1, v-1, z-1, b-2.

Powers Regulator Co., The, o-1, c-2.

Q-Circuits, Div.-Etching Co. of Calif., k-1.

Radar Relay, Inc., v, d-1.

Radiation, Inc., i, b-2.

Rantec Corp., f-1, l-2, m-2.

Raymond Engrg. Lab., Inc., a.

Reed Instrument Co., g-1, z-1, f-2.

Reed Research Inc., g-1, z-1, f-2.

Remler Co., e-1.

Republic Aviation Corp., Missile Systems Div., d-1.

Republic Mfg. Co., s.

Resitron Labs., Inc., g, i, j, i-2.

Revere Corp. of America, Sub. Neptune Meter Co., p, r, a-1, j-1.

M. H. Rhodes, Inc., e-2.

Robot Industries Inc., e, z, o-1, e-2.

Rochester Mfg. Co. Inc. of Calif., i-1.

Ronson Hydraulic Units Corp., s.

Rosemount Engrg. Co., b-1.

Milton Ross Metals Co., The, g-1, z-1.

Rotron Mfg. Co., u-1.

Royal Electric Corp., m-1, q-1.

Sage Labs., Inc., f-1.

Sangamo Electric Co., g, d-2, e-2.

Sargent Electric Corp., o, m-1, f-2.

Scintilla Div., Bendix Aviation Corp., t.

Scott Aviation Corp., d.

Secode Corp., c, e, k, l-1, o-1, p-1, y-1.

***SEMICONDUCTOR DIV., RAYTHEON CO., h-2.**

Servomechanisms, Inc., b-1, j-1.

Servonic Instruments, Inc., d, j-1.

Shallcross Co., Co., g, j, m, g-1, k-1, m-1, o-1, q-1, t-1.

Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp., s.

Sigma Instruments, Inc., i, o-1, s-1, t-1, b-2.

Singer Military Products Div.-The Singer Mfg. Co., q-1, t-1, x-1.

Southwest Research Institute, h-2.

Southwestern Industrial Electronics Co., a-1, j-1.

Southwestern Industries, Inc.

Space Components, Inc., g-1, z-1, f-2.

Specialties, Inc., j-1.

Spectra Electronics Corp., h-2.

Spectral Electronics Corp., k-1, q-1, b-2.

Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., f-1, l-2, m-2.

Stackpole Carbon Co., n-1, v-1, w-1.

Statham Development Corp., c-2, h-2.

Stewart Mfg. Co., Inc., c-2, d-2.

Stewart-Warner Electronics Corp., h-2.

Strand Engrg. Co., f-1.

Stromberg-Carlson Div.-General Dynamics Corp., w, x, y-1.

Switchcraft, Inc., j, w, x, e-1, g-1, m-1, q-1, f-2.

TRG, Inc., f-1, m-2.

Talley Corp., The, b-2.

Tappco Group, Thompson Ramo Wooldridge Inc., h, f-1, l-2, m-2.

Technical Material Corp., The, w.

Technology Instrument Corp., d, j-1.

Tektronix, Inc., o.

Telechrome Mfg. Corp., e, i, t-1, b-2, h-2.

Telflex Inc., c-1.

Telex, Inc., o, g-1, m-1, z-1.

Telkor, Inc., x-1, e-2.

Temperature Engrg. Corp., c-2, i-2.

Texas Instruments Inc., g, i, j, k, o, r, z, c-1, g-1, m-1, q-1, w-1, z-1, c-2, d-2.

Thermo Electric Co., Inc., c-2.

Thompson Ramo Wooldridge Inc., h, f-1, l-2, m-2.

Tingstol Co., k-1.

Tork Time Controls, Inc., e-2.

Tower Mfg. Corp., o, y, m-1, w-1, x-1.

Tranco Products, Inc., h, f-1, l-2, m-2.

Transistor Electronics Corp., v, g-1, m-1.

Transitron Electronic Corp., h-2.

Trans-Sonics, Inc., j-1, c-2.

Trepac Corp. of America, c, e, k, o, k-1, o-1, c-2, e-2, h-2.

Tucson Instrument Corp., k-1.

George Ulanet Co., r, d-2, e-2.

Unimax Switch Div., The W. L. Maxson Corp., k, z, b-1, c-1, g-1, i-1, k-1, m-1, p-1, u-1, w-1, f-1, f-2.

Unison Products, Inc., g-1, q-1, s-1, z-1, b-2.

United Control Corp., p, a-1, t-1, c-2, d-2.

United Electric Controls Co., c thru g, k, r, s, v, z, k-1, p-1, u-1, w-1, c-2, d-2, i-2.

U. S. Plastic Molding Corp.

U. S. Science Corp., Div.-Topp Industries, Inc., a, o, b-1, j-1, c-2, d-2, g-2.

United States Instrument Corp., e, i, w, x, e-1, m-1, q-1, t-1, y-1.

United Supply Co.

Universal Circuit Controls, o, w, x, z, b-1, m-1, q-1, w-1, x-1, f-2.

Universal Transistor Products Corp., o, l-1, z-1, g-2, h-2.

Vacuum Tube Products, Div.-Hughes Aircraft Co., i-2.

Vap-Air Aeronautical Products Div., Vapor Heating Corp., d-2.

Varo Mfg. Co., Inc., o, c-1, o-1, c-2, h-2.

Veeco Vacuum Corp., i-2.

Vemaline Products Co., q, m-1, x-1.

Vickers Inc., s.

Vickers, Inc., Mich., s.

Virginia Electronics Co., Inc., x-1.

Voi-Shan Electronics, o.

Walkirt Co., o.

Wang Labs., Inc., k-1, b-2.

Warren Components, Div.-El-Tronics, Inc., j.

Waugh Engrg. Co., o.

Waveline, Inc., f-1, l-2, m-2.

Wells Industries Corp., o-1, c-2, e-2.

Weltronic Co., o.

Western Control Corp., c-1.

Western Electronic Products Co., a.

Westinghouse Electric Corp., g, k, o, r, y, z, h-1, d-2, h-2.

Westport Development & Mfg. Co., Inc., b, d, r, u, j-1, x-1, d-2, i-2.

Whittaker Gyro, Div.-Telecomputing Corp., a.

Wiancko Engrg. Co., j-1.

Zenith Electric Co., f, o-1, e-2.

SWITCHING EQUIPMENT, ANTENNA

Actuation Research Corp.

Allied International Corp.

***ANDREW CORP.**

Bendix Aviation Corp.

CG Electronics Corp.

CGS Labs., Inc.

Collins Radio Co.

Joe Davidson & Associates

Diamond Antenna & Microwave Corp.

Don-Lan Electronics Inc.

Electro Tec Corp.

Emertson, Sub.-Emerson Radio & Phonograph Corp.

General Devices, Inc.

George E. Harris & Co., Inc.

Microwave Associates, Inc.

Motorola, Inc.

Philco Corp.-Govt. & Industrial Group

Portland Copper & Tank Works Inc.

Rantec Corp.

Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.

Standard Electronics Div.-Reeves Instrument Corp.

Tappco Group, Thompson Ramo Wooldridge Inc.

Thompson Ramo Wooldridge Inc.

Tranco Products, Inc.

United Electric Controls Co.

Wind Turbine Co.

Winder Aircraft Corp. of Florida

SWITCHING EQUIPMENT, CAMERA

Aeroflex Labs. Div., Aeroflex Corp.

Benson-Lehner Corp.

Dage Television Div., Thompson Ramo Wooldridge, Inc.

Eastman Kodak Co.

Electronic Engrg. Co. of California

General Devices, Inc.

Optomechanisms Inc.

Philco Corp.-Govt. & Industrial Group

Standard Electronics Div.-Reeves Instrument Corp.

Telechrome Mfg. Corp.

SYNCHROS

American Electronics, Inc.

Bendix Aviation Corp.

Bendix Aviation Corp.-Montrose Div.

Bendix Corp., The Eclipse-Pioneer Div.

A. Biederman, Inc.

Clifford Precision Products Co., Inc.

Control Data Corp.

Courter Products, Div.-Model Engrg. & Mfg., Inc.

Joe Davidson & Associates

Daystrom Inc., Transicoil Div.

Ford Instrument Co., Div.-Sperry Rand Corp.

George E. Harris & Co., Inc.

IMC Magnetics Corp.

ITT Federal Div., International Telephone & Telegraph Corp.

Interstate Electronics Corp.

***KEARFOOT DIV., GENERAL PRECISION, INC.**

Kesley Dept., Norden Div., United Aircraft Corp.

Kollsman Instrument Corp., Sub-Standard Coil Products Co., Inc.

Learn, Inc.

Librascope Div., General Precision, Inc.

Minneapolis-Honeywell Regulator Co., Boston Div.
Muirhead Instruments Inc.
John Oster Mfg. Co., Avionic Div.
PSP Engrg. Co., Div.-IMC Magnetics Corp., N. Y.
Philco Corp.-Govt. & Industrial Group
Servo-Tek Products Co.
Summers Gyroscope Co.
Transcoil Div.-Daystrom Inc.

SYNCHROSCOPES

Daystrom Inc., Weston Instruments Div.
General Electric Co., Apparatus Sales Div.
Hazeltine Electronics Div.-Hazeltine Corp.
Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
Lavoie Labs, Inc.
James Millen Mfg. Co. Inc.
Muirhead Instruments Inc.
Polarad Electronics Corp.

SYSTEMS, REMOTE CONTROL

Advance Instrument Corp.
Aeroflex Labs. Div., Aeroflex Corp.
Anlab Inc.
Armament Div.-Universal Match Corp.
Barber-Colman Co.
Belock Instrument Corp.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Bendix Aviation Corp., Montrose Div.
Broadview Research Corp.
Chance Vought Aircraft, Inc.
Clark Controller Co., The
Collins Radio Co.
Consolidated Airborne Systems, Inc.
Daystrom, Inc., Control Systems Div.
Daystrom Inc., Transcoil Div.
Djeco, Div.-Djordjevic Engrg. Co.
Dynamatics, Inc.
Eastern Industries Inc.
Electro Instruments, Inc.
Electromation Co., Div.-Del Mar Engrg. Labs
Electronic Engrg. Co. of California
Emertson, Sub-Emerson Radio & Phonograph Corp.
Fairfield Engrg. Corp.
Fenwal, Inc.
Flight Refueling, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
GPL Div.-General Precision, Inc.
General Devices, Inc.
General Electric Co., Apparatus Sales Div.
General Instrument Corp., Defense & Engrg. Products Group
General Mills, Inc.
Gordon Enterprises
Guidance Controls Corp.
Guided Missile Div., The Firestone Tire & Rubber Co.
B. H. Hadley, Inc.
Hammarlund Mfg. Co., The
A. W. Haydon Co., The
Howe Scale Co., The
Hughes Tool Co., Aircraft Div.
Industrial Control Co.
Industrial Electronic Engineers, Inc.
International Electronic Research Corp.
Kahn & Co., Inc.
*KEARFOTT DIV., GENERAL PRECISION, INC.
Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
Kieley & Mueller, Inc.
Lear, Inc.
*WALLACE O. LEONARD, INC.
Librascope Div., General Precision, Inc.
Lynch Carrier Systems Inc.
Madigan Corp.
Micro Gee Products, Inc.
Mitchell Camera Corp.
Motorola, Inc.
National Co., Inc.
National Electronics
Northrop Corp.
Optomechanisms Inc.
M. V. Palmer, Inc.
Pegasus Labs., Inc.
Philco Corp.-Govt. & Industrial Group
Pneu-Hydro Valve Corp.
Propulsion Test Facilities Div.-MB Electronics
Radio Receptor Co., Inc., Sub-General Instrument Corp.
Rimak, Inc.
Robertshaw-Fulton Controls Co., A & I Div.
Servo-Tek Products Co.
Skyline Electric & Mfg. Co.
Southwestern Industrial Electronics Co.
Spectrol Electronics Corp.
Statham Development Corp.
Sun Electric Corp., Aeronautical Div.
Tapco Corp., Thompson Ramo Wooldridge Inc.
Technical Materiel Corp., The
Telechrome Mfg. Corp.

Telectro Industries Corp.
Temco Aircraft Corp.
Thompson Ramo Wooldridge Inc.
Trepac Corp. of America
Tucson Instrument Corp.
United Electric Controls Co.
Varo Mfg. Co., Inc.
Virginia Electronics Co., Inc.
Wang Labs., Inc.
Wells Industries Corp.
Westinghouse Electric Corp.
Westronics Inc.

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Adept Industries Inc.
Alloys Unlimited Inc.
Art Wire & Stamping Co.
Breeze Corporations, Inc.
California Plasteck Inc.
Duramark, Inc.
Eljay Corp.
Emeloid Co., Inc., The
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp.
Monrovia Aviation Corp.
Silcocks-Miller Co.

TABS, DIAL ACCESS

Adept Industries Inc.
Breeze Corporations, Inc.
California Plasteck Inc.

TACHOMETERS

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS
Actuator Products Div., Geartronics Corp.
American Electronics, Inc.
American Electronics Incorporated
American Machine & Foundry Co., Government Products Group
Amthor Testing Instrument Co., Inc.
Bendix Aviation Corp.
Bendix Aviation Corp.-Montrose Div.
Bendix Corp., The, Eclipse-Pioneer Div.
A. Biederman, Inc.
Daystrom Inc., Weston Instruments Div.
Diehl Mfg. Co.
R. C. Dudek & Co.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Apparatus Sales Div.
Ideal Industries, Inc.
Jack & Heintz, Inc.
Jones Motrola Corp.
*KEARFOTT DIV., GENERAL PRECISION, INC.
Ketay Dept., Norden Div., United Aircraft Corp.
Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
Martin-Decker Corp.
Metron Instrument Co.
Motordyne Inc.
National Electronics
Norden Div., United Aircraft Corp.
John Oster Mfg. Co., Avionic Div.
Potter Aeronautical Corp.
Power Supplies Inc.
Servo-Tek Products Co.
Standard Electric Time Co., The
Herman H. Sticht'Co., Inc.
Sun Electric Corp., Aeronautical Div.
Task Corp.
Wacline, Inc.
Wang Labs., Inc.
Westberg Mfg. Co.

TACHOMETERS, ELECTRONIC

*AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS
Airtax Electronics Inc., Cambridge Div.
Airtax Electronics Inc., Seminole Div.
Allen Electric & Equipment Co.
Beckman Instruments, Inc., Berkeley Div.
Bendix Aviation Corp.
Courter Products' Div.-Model Engrg. & Mfg. Inc.
Electro Products Labs., Inc.
Erie Resistor Corp.
Kahn & Co., Inc.
Kollsman Instrument Corp., Sub-Standard Coil Products Co. Inc.
Magtrol, Inc.
Norden Div., United Aircraft Corp.
John Oster Mfg. Co., Avionic Div.
Potter Aeronautical Corp.
Servomechanisms, Inc.
Servo-Tek Products Co.
Standard Electric Time Co., The
Sunshine Scientific Instrument
Varo Mfg. Co., Inc.
Wacline, Inc.
Westberg Mfg. Co.

TAILPIPPES, JET ENGINE

Aerocal Div., Aerocal Mfg. Corp.
Arnolt Corp.

Associated Co., Inc.
California Stamping & Mfg. Co.
Cromer Mfg. & Engrg., Inc.
Kaiser Fleetwings, Inc.
*LAVELLE AIRCRAFT CORP.
Lycoming Div., Avco Corp.
Marquardt Corp., The
Northeast Metals Industries, Inc.
Penn-Michigan Mfg. Corp.
Solar Aircraft Co.
Stamping Div.-Rockwell Standard Corp.
Thermionic Aeronautical Div.

TANKS

a. Auxiliary
b. Auxiliary Drop
c. Fuel
d. Liquid Nitrogen
e. Liquid Oxygen
f. Liquefied Gas Storage
g. Low Temperature
h. Oil
i. Self-Sealing
j. Transportation & Storage
ACF Industries Inc., a, d, e, f, j.
Aerocal Div., Aerocal Mfg. Corp., a, b, c.
*AEROJET-GENERAL CORP., b, d, e, f.
Agricultural Aviation Engineering Co. Inc.
Air Products, Inc., d thru g, j.
*AIRESEARCH MFG. CO., DIV.-THE GARRET CORP., d thru g.
Allied International Corp., h.
Alsop Engrg. Corp., c, f, h, j.
Aluminum Co. of America, a thru h, j.
American Car & Foundry Div., ACF Industries Inc., e, f, g, j.
American Latex Products Corp., g.
American Machine & Foundry Co., Government Products Group, j.
Ampeco Metal, Inc., h, j.
Anchor Metal Spinning Co., The, a, b.
Arde-Portland, Inc., j.
Arnolt Corp., b.
Associated Co., Inc., a, b, c, j.
Avondale Marine Ways, Inc., j.
B. H. Aircraft Co., Inc., h.
Beech Aircraft Corp., a, b, g.
Bell Aircraft Corp., Niagara Frontier Div., a, l, c, j.
Bendix Aviation Corp., e, g.
Bendix Utica Div., Bendix Aviation Corp., a, thru h.
Bennett-Feragen
Benson Mfg. Co., a, b, c, f.
Bethlehem Steel Co., c thru h.
S. Blickman, Inc., b, d, e, f.
Bowler, Inc., a thru j.
Brighton Corp., c thru f.
Brooks & Perkins, Inc., a thru h, j.
Brunswick Balke Colender Co., The, Defense Products Div., a, c.
Butler Mfg. Co., a, c, g, h, j.
Calcor Corp., a thru j.
California Stamping & Mfg. Co., a thru h, j.
Chicago Bridge & Iron Co., c thru g, j.
Cobra Metal Hose Div. DK Mfg. Co., d thru r.
Consolidated Diesel Electric Corp., c.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., c thru f.
Cromer Mfg. & Engrg., Inc., d, e, g, h, j.
Cutler Metal Products Co., a, b, c, h, j.
*DEL MAR ENGRG. LABS., d, f.
Dempster Brothers, Inc., j.
Drayer Hanson Div.-Crane Co., a, b.
Dudwallen Mfg. Co., Inc., The
Eubanks Industries, Inc., a, j.
*EXCELCO DEVELOPMENTS INC., c, j.
Fairchild Aircraft & Missiles Div., Fairchild Engine & Airplane Corp., b, c, h.
Foster Wheeler Corp., f, h.
Frick Co., g.
Fruehauf Trailer Co., Military Equipment Div., j.
General American Transportation Corp., c thru h, j.
B. F. Goodrich Aviation Products, c, d, h, i.
Goodyear Tire & Rubber Co., The, Aviation Products Div., a, c, h, i, j.
Graver Tank & Mfg. Co., Div.-Union Tank Co., c thru h, j.
Guided Missiles Div., The Firestone Tire & Rubber Co., a, c, d, e.
Hahn & Clay, c thru i.
Halliburton, Inc., Mfg. Div., j.
Hanson-Van Winkle-Manning Co.
Heil Process Equipment Corp., j.
Henry & Miller Industries, Inc.
Herlo Corp., c, d, g.
*HORKEY-MOORE ASSOCIATES, SUB-HOUSTON FEARLESS CORP., a, b, c.
Horsely, Robson & Co., Inc., h.
ITE Circuit Breaker Co., Special Products Div., Intercontinental Mfg. Co., Inc., j.
International Ferromat Machinery Co., Inc., b.
Kaiser Fleetwings, Inc., c.
Kellett Aircraft Corp., a, c.

Kirk & Blum Mfg. Co., The, a, h, j.
Ladish Co., d, e.
Lamtex Industries Inc., c, j.
*LAVELLE AIRCRAFT CORP., a, h.
Linde Co., Div.-Union Carbide Corp., d thru
g, j.
Liquid Carbonic Div.-General Dynamics Corp.,
d, e, f.
Lofstrand Co., The, a, b, h, j.
Lukens Steel Co., c thru f, j.
Lunn Laminates, Inc., a, b, c.
Lycoming Div., Avco Corp., d, e.
MEG Products, Div.-Mandrel Industries, Inc., a,
b, c, j.
Mak Industries, Inc., a.
Marquardt Corp., The, c, g.
*MARTIN CO., THE, DENVER DIV., c, d, e.
McGregor Mfg. Corp., a, c, f, g, h.
Menasco Mfg. Co., d thru g.
Monrovia Aviation Corp., a, b, c, j.
Nooter Corp., a thru h, j.
Norris-Thermador Corp., e, f.
Northeast Metals Industries, Inc., a, b, c, h.
Opelika Welding Machine & Supply Inc., c thru
g, j.
Pastushin Industries, Inc., a, b, c, j.
Pfaudler Div., Pfaudler Permutit Inc., j.
Phillips & Davies Inc., g.
Portland Copper & Tank Works Inc., d, e, i.
Pressed Steel Tank Co., a, c thru f, j.
Protectoseal Co., The, c, h.
REF Mfg. Corp.
Edw. Renneburg & Sons Co., a thru d, g.
Reynolds Metals Co., Sheffield Missile Plant, c,
e, j.
Rimek, Inc., a, b, c, g, h, i.
Ronan & Kunz, Inc., d thru g.
Roto Finish-Ransohoff, j.
Royal Jet, Div.-Royal Industries, Inc., a, b, c.
Santa Barbara Research Center, d, f.
Skyline Products, Inc., a, h, j.
A. O. Smith Corp., Smith-Erie Div., c, f.
Southwest Research Institute, c, h, i, j.
Spaceatomics Div., The Budd Co., d, e, g.
Stamping Div.-Rockwell Standard Corp., j.
Standard Steel Corp., d thru g, j.
Standard Steel Corp., Cambridge Div., c thru
g, j.
Standard Steel Works, Inc., j.
Stearns-Roger Mfg. Co., The, c thru g, j.
Structural Fibers, Inc., a thru d, g, h, j.
Struthers Wells Corp., c thru g.
Superior Air Products Co., d, e, j.
Tapco Group, Thompson Ramo Wooldridge Inc.,
d, e, g.
Temco Aircraft Corp., b, c.
Thermon Mfg. Co., c, g, h, j.
Thompson Ramo Wooldridge Inc., d, e, g.
Trailmobile Inc., c, j.
Twin Coach Co., Aircraft-Missiles, a, b, c, g.
Uni-Flex Mfg. & Engrg. Inc., d thru g.
United Aircraft Products, Inc., h.
United States Chemical Milling Corp., b, c.
United States Rubber Co., a, c, h, i, j.
United States Steel Corp.
Vilter Mfg. Co., The, f, j.
Waco Aircraft Co., a, b, c, h, j.
Washington Aluminum Co., Inc., e.
Weber Aircraft Corp., a thru f, h.
Wells Industries Corp., c, h, j.
Westholt Mfg. Inc., a, b, c, e, h, j.
Whitlock Mfg. Co., The, d thru g.
Winder Aircraft Corp. of Florida, a, b.
Wolverine Diesel Power Co., a, b.
Wolf Aircraft Products, Inc., a, c, h.
Young Development Div., Hercules Powder Co.,
f.

INTALUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
Alpha Metals, Inc.
American Silver Co., Inc.
Associated Engrg. & Mfg. Corp.
Bios Labs, Inc.
Bram Metallurgical Chemical Co.
Bridgeport Brass Co.
Custom Tool & Mfg. Co.
Delta Chemical Works, Inc.
Fansteel Metallurgical Corp.
Firth Sterling Inc.
George E. Harris & Co., Inc.
Harvey Aluminum
Haynes Stellite Co., Div.-Union Carbide Corp.
Hughes Tool Co., Aircraft Div.
Johnston & Funk Metallurgical Corp.
Kannemetal Inc.
NUMEC-Nuclear Materials & Equipment Corp.
National Research Corp., Metals Div.
F. H. Paul & Stein Brothers, Inc.
Pfaudler Div., Pfaudler Permutit Inc.
Rembar Co., Inc., The
Rodney Metals Inc.
Stauffer Chemical Co.
Thermionic Aeronautical Div.

Union Carbide Metals Co., Div.-Union Carbide
Corp.
United Mineral & Chemical Corp.
Universal-Cyclops Steel Corp.
Var-Lac-Old Chemical Co.
Wah Chang Corp.
Wai Met Alloys Co.
Westinghouse Electric Corp.

TAPE, INSTRUMENTATION

ACF Industries Inc.
Audio Devices, Inc.
*CONSOLIDATED ELECTRODYNAMICS CORP.
General Electric Co., Instrument Dept.
General Plastics Corp.
Liquidometer Corp., The
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co., Missile
Equipment Div.
*MINNESOTA MINING & MFG. CO.
Orr Industries Co., Div.-Ampex Corp.
Radiophone Co. Inc.
*RADIO CORP. OF AMERICA
Reeves Soundcraft Corp.
Telectro Industries Corp.

TAPES

a. Asbestos
b. Coated & Impregnated
c. Electrical Insulation
d. Fabric
e. Friction
f. Heat Resistant
g. Plastic
h. Pressure Sensitive
i. Recording
j. Rubber, Natural & Synthetic
k. Test
Accurate Mfg. Co., c, e, g, j.
Acme Wire Co., b, c.
Acromark Co., The
Actioncraft Products, c, g.
Allied International Corp., h.
Allied Plastics Supply Corp., a thru h, j.
American Cord & Webbing Co., Inc., c, d, f.
American Felt Co., d.
American Latex Products Corp., g, j, k.
American Super-Temperature Wires, Inc., c, f,
g, h.
Anchor Packing Co., The, a thru h, j.
Arbeka Webbing Co., d, g.
Arno Adhesive Tapes, Inc., h.
Arnold Engrg. Co., The, i.
Associated Suppliers Co., d.
Auburn Mfg. Co., The, a, f, g, j.
L. J. Barwood Mfg. Co. Inc., a, g.
Behr-Manning Co., c, f, g, h.
Bemis Bro. Bag Co., b, h.
Bentley, Harris Mfg. Co., b, c.
Birma Mfg. Co., Inc., f.
Bishop Mfg. Corp., c, g, h, j.
Blossom Mfg. Co. Inc., b, g, j.
Bonny Mfg. Corp., g.
Borden Chemical Co., c, g.
Borden Chemical Co., The Resinite Dept., g.
Budd Co., The, b, c, d, f, g, h, k.
California Plastec Inc., h.
Carborundum Co., The, f.
Chemplast, Inc., c, f, g, h.
Commercial Services Co., Inc., g, h.
Connecticut Hard Rubber Co., The, b, c, d, f,
g, h.
Continental Diamond Fibre Corp., f, g, h.
Continental Rubber Works, e, g.
Cordo Chemical Corp., b, d, k.
Crystal-X Corp., g.
C. R. Daniels, Inc., d.
Darcoid Co., Inc., The, a, j.
Dilectrix Corp., g.
Dixon Corp., c, g.
John L. Dore Co., g.
E. I. Du Pont de Nemours & Co. Inc., b, c, d,
f, g.
Duracote Corp., b, d, g, h.
Dyna-Therm Chemical Corp., f.
Franklin Fibre-Lamitex Corp., c, g, h.
Garlock Packing Co., c, j.
Garlock Packing Co., The-Electronic Products,
c, g.
Gatewood Products, Inc., a, b, d, thru h, j.
General Kinetics Inc., k.
General Plastics Corp., b, c, f, h.
Gentape Corp., Div.-General Plastics Corp., b.
B. F. Goodrich Industrial Products Co., c, e, g.
Greene, Tweed & Co., a, b, j.
Guided Missile Div., The Firestone Tire & Rub-
ber Co., g, j.
Halogen Insulator & Seal Corp., g.
Hess, Goldsmith & Co., Inc.
Hitemp Wires Inc., c.
Walter J. Hyatt Co., The, h.
Insulation Mfrs. Corp., a thru h, j.
Joclin Mfg. Co., The, a thru h.
Johns-Manville Sales Corp., a thru h.
Kano Labs.

Kendall Co., The, Polyken Sales Div., c, f, g, h.
Kirkhill Rubber Co., j.
M & Q Plastic Products, g.
Master Tape Printers, The.
McMillen Companies, The, c.
Mechanical Rubber Products Co., j.
Meyercord Co., The, AMC Div., f.
Mica Insulator Div.-Minnesota Mining & Mfg.
Co., c.

*MINNESOTA MINING & MFG. CO. a thru k.
Minnesota Rubber Co., c, j.
Narrow Fabric Co., The, b.
National Electric Coil, Div.-McGraw-Edison Co.,
a thru d.
Natvar Corp., b, c, g.
Naz-Dar Co., h.
New England Tape Co., Div.-United-Carr Fas-
tener Corp., g.
New Jersey Wood Finishing Co., c, f, g.
Norrich Plastics Corp., g.
North Shore Nameplate, Div.-Anodyne, Inc., d,
f, h.
Okonite Co., The, Sub.-Kennecott Cooper Corp.,
c, e, g, j.
Orr Industries Co., Div.-Ampex Corp., i.
Owens-Corning Fiberglas Corp., c, d, f.
Paper Mfrs. Co., i.
Pee Gee Tape & Label Co., Inc., h.
Permacel, b, c, d, f, g, h.
Polymer Corp., The, c, g.
Precision Specialties, Inc., i.
Products Research Co., b.
*RADIO CORP. OF AMERICA, i.
Raybestos-Manhattan, Inc., a thru d, f, g, j.
Reeves Brothers, Inc., d, g.
Reeves Bros. Inc., Vulcan Rubber Div., b, j.
Reeves Soundcraft Corp., i.
Reynolds Metals Co., Plastics Div., g.
Fred T. Roberts & Co., g, j.
Robins Industries Corp., h.
Roovers-Lotsch Corp., g, h.
Russell Mfg. Co., a, f.
Schlegel Mfg. Co., d.
D. A. Schultz Co., c.
W. S. Shamban & Co., g.
Sillcocks-Miller Co., g, h.
Soraban Engrg., Inc., i.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co., c.
Stanpat Co., h.
Suprenant Mfg. Co., c, f, g.
Swedlow Inc., f, g.
Tally Register Corp., k.
Technical Tape Corp., b thru h.
Telectro Industries Corp., i.
Tetrafluor, Inc., g.
Thermodiv-H. K. Porter Co., Inc., a thru f,
h, j.
E. F. Timme & Son Inc., d.
Topflight Corp., h.
Uniform Hood Lace Co., b.
Union Asbestos & Rubber Co., a, b, c, e, f.
United States Rubber Co., a thru e, j.
Vernon Chemical & Mfg. Corp., b, c, d, f, g,
h, k.
Waste King Corp., Technical Products Div., f, i.
Westinghouse Electric Corp., Micarta Div., a
thru d, f, g.
Westline Products Div.-Western Lithograph Co.,
h.
Zippertubing Co., The, a thru d, f, g, j.

TARGET DEVICES

ACF Industries Inc.
*AEROJET-GENERAL CORP.
All American Engrg. Co.
American Optical Co., Instrument Div.
American Potash & Chemical Corp., National
Northern Div.
Andersen Labs., Inc.
Anderson, Greenwood & Co.
Beech Aircraft Corp.
Bendix Aviation Corp.
Burton-Rodgers, Inc.
Calcor Corp.
Clevite Ordnance, Div.-Clevite Corp.
Curtiss-Wright Corp., Santa Barbara Div.
DBM Research Corp.
Dale Products, Inc.
De Havilland Aircraft of Canada Ltd., Special
Products Div.
*DEL MAR ENGRG. LABS.
Emerton, Sub.-Emerson Radio & Phonograph
Corp.
Guided Missile Div., The Firestone Tire & Rub-
ber Co.
Learn, Inc.
Miami Engrg., Div.-Miami Shipbuilding Corp.
Micro Gas Products, Inc.
Motorola, Inc.
Northrop Corp.
Optomechanisms Inc.
Phlco Corp.-Govt. & Industrial Group.
Reeves Bros. Inc., Vulcan Rubber Div.
Republic Aviation Corp., Missile Systems Div.
Skiatron Electronics & Television Corp.

Special Products Dept., Melpar, Inc.
Standard Armament Inc.
Swift Textile Metallizing & Laminating Corp.
Temco Aircraft Corp.
U. S. Industries, Inc.

TEFLON

Abesto Corp.
Aero Bolt & Screw Co., Inc.
Aeroquip Corp., Jackson Div.
Allied Plastics Supply Corp.
Anacoinda Metal Hose Div., The American Brass Co.
Armstrong Cork Co.
Auburn Mfg. Co., The
L. J. Barwood Mfg. Co. Inc.
Beemer Engrg. Corp.
Bonny Mfg. Corp.
Bram Metallurgical Chemical Co.
Chemplast, Inc.
Chicago Gasket Co.
Chicago Rawhide Mfg. Co.
Comco Plastics Inc.
Connecticut Hard Rubber Co., The
Crystal-X Corp.
Dixon Corp.
DriLube Co.
Driver-Harris Co.
E. I. Du Pont de Nemours & Co. Inc.
Electric Hose & Rubber Co.
Eljey Corp.
Emerson Plastics Corp.
Fabricon Corp.
Fluorocarbon Co., The
Franklin Fibre-Lamitex Corp.
Garlock Packing Co.
Garlock Packing Co., The-Electronic Products
General Gasket Inc.
General Plastics Corp.
Greene, Tweed & Co.
Halogen Insulator & Seal Corp.
Haskel Engrg. & Supply Co.
Insulation Mfrs. Corp.
Walter K. Jaros Aircraftrafters
Thomas J. Long, Inc.
J. E. Menaugh Co.
Mica Fabricating Co.
Norrich Plastics Corp.
Norrich Screw Machine Products
Permacel
Raybestos-Manhattan, Inc.
Reeves Bros. Inc., Vulcan Rubber Div.
Resistoflex Corp.
Rogers Corp.
Russell Mfg. Co.
St. Regis Paper Co., Panelyte Div.
Ray A. Scharer & Co.
Seaelectro Corp.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co.
A. T. Stevens Co.
Tetrafluor. Inc.
Topper Mfg. Co., Inc.
Tri-Point Plastics Inc.
Union Asbestos & Rubber Co.
United Supply Co.
Weatherhead Co., The
Western Div., Aeroquip Corp.
Zippertubing Co., The

TELEMETERING EQUIPMENT

a. Antennas
b. Demodulators
c. FM
d. Ground Equipment
e. Monitoring Equipment
f. PCM (Pulse Code Modulation)
g. PDM (Pulse Duration Modulation)
h. Receivers
i. Recorders
j. Systems
k. Transducers
l. Transmitters
ACF Electronics Div., ACF Industries Inc., h, k.
ACF Industries Inc.
ASCOP Div., Electro-Mechanical Research, Inc.,
b thru g, i thru l.
Actuation Research Corp., b.
Advance Industries, Inc., c thru h, j, l.
Aerona Mfg. Corp.-Aerospace Div., d, h, j, l.
Ainslie Corp., a, d.
Aircrom Inc., a.
Aircraft Armaments, Inc., a, d, h, l.
Airpax Electronics Inc., Cambridge Div., e, j.
Airpax Electronics Inc. Seminole Div., e, j.
All Products Co., a.
Alpar Mfg. Corp., a.
Alpine Electronic Components, Inc., l.
Alto Scientific Co., Inc., h.
American Electronics Inc., Teller-Cooper Div. &
Data Systems Div., e, i.
American Machine & Foundry Co., Greenwich
Engrg. Div., a.
American Missile Products Co., Inc., b thru h,
j, l.
Ampex Data Products Co., e, i.

*ANDREW CORP., e.
Antlab Inc., d, i.
Applied Electronics Corp. of N. J., a thru l.
Applied Research Inc., h.
*ARNOUX CORP., a thru l.
Autometric Corp., d.
Avco Corp.-Research & Advanced Development
Div., c, d.
Avien, Inc., f.
Ball Brothers Research Corp., e.
Barker Sales Co., j.
Beckman-Systems Div., d, i, j.
Bendix Aviation Corp., a thru f, h thru l.
Bendix Aviation Corp., Cincinnati Div., b thru l.
Bendix Aviation Corp., Montrose Div., k.
Bendix-Pacific Div., Bendix Aviation Corp., b
thru f, h thru l.
Blonder-Tongue Labs. Inc., Special Products
Div., l.
Boorns, Inc., k.
*BRISTOL CO., THE, h, i, j, l.
Broadview Research Corp.
Brooks Retamer Corp., l.
Budd Lewyt Electronics, Inc., c thru l.
Bulova Research & Development Labs., Inc., d, e.
CBS Laboratories, Div.-Columbia Broadcasting
System, h, i, l.
CG Electronics Corp.
Calcor Corp., a, d.
California Computer Products, Inc., b, f, g.
Cameraflex Div., The, Federal Mfg. & Engrg.
Corp., d, h.
Chance Vought Aircraft, Inc., a, d, e, k, l.
Cleveland Metal Specialties Co., Electronics
Div., l.
Clevite Ordnance, Div.-Clevite Corp., k.
G. L. Collins Corp., k.
Collins Radio Co., a, h, l.
Colorado Research Corp., d, e.
Colvin Labs., Inc., k.
*CONSOLIDATED ELECTRODYNAMICS
CORP., f, g, i, j, k.
Crescent Engrg. & Research Co., d, e, k.
Crosby-Teletronics Corp., c.
Curtiss-Wright Corp., Electronics Div., d.
Curtiss-Wright Corp., Electronics Div., IMI
Branch, j.
Curtiss-Wright Corp., Santa Barbara Div., d, f,
k.
Dalmo Victor Co., Div.-Textron, Inc., a, c, d,
e, h, j.
Data-Control Systems, Inc., c, d, e, g, j, k.
Datex Corp.
Daystrom Inc., Pacific Div., k.
Dejux-Amsco Corp., Electronic Sales Div., k.
Designers for Industry, Inc., d, h.
Diamond Antenna & Microwave Corp., a.
Digital Sensors Inc., k.
Dorne & Margolin, Inc., a.
Dorsett Electronic Labs., Inc., b, c, d, f, g, j, l.
Du Kane Corp., l.
Allen B. Du Mont Labs., Inc., d, h, i, k, l.
Dynatronics, Inc., a, d, e, f, h, i, j, l.
Eastman Kodak Co., c, h, i, k.
Edcliff Instruments, k.
Electro Instruments, Inc., d.
Electro Products Labs., Inc., k.
Electromation Co., Div.-Del Mar Engrg. Labs.,
b thru j, l.
Electronic Engrg. Co. of California, j.
Electro-Pulse, Inc., f, g.
Emertron, Sub.-Emerson Radio & Phonograph
Corp., c thru j, l.
Empire Products Sales Corp., e, i.
Endevco Corp., k.
*EQUIPMENT DIV., RAYTHEON CO., d, f, g,
h, j, l.
Erie Resistor Corp., d, k.
Fenske, Fedrick & Miller Inc., e, i, j.
Ford Instrument Co., Div.-Sperry Rand Corp.,
d, j.
GPL Div.-General Precision, Inc., e, j.
Gates Radio Co., c, l.
General Bronze Electronics Corp., a, b, h, j, l.
General Communication Co., h, l.
General Devices, Inc., b thru g, j, k, l.
General Electric Co., Apparatus Sales Div.
General Electric Co., Ordnance Dept., a.
General Instrument Corp., Defense & Engrg.
Products Group, c thru h, j, k, l.
Genisoc, Inc., Instrument Div., k.
Gillfillan Bros. Inc., a, b, c, f, g, j, l.
Gonset Div.-Young Spring & Wire Corp., h, l.
Gorham Electronics-Div.-Gorham Mfg. Co., k.
Guidance Controls Corp., d, e, j, l.
Guided Missile Div., The Firestone Tire & Rub-
ber Co., a, c, e, j, k, l.
Gulton Industries, Inc., a, e, i, k.
HRB-Singer, Inc., Sub.-Singer Mfg. Co., a.
Hagan Chemicals & Controls Inc., e, i.
Hallamore Electronics Co., Div.-Sieglar Corp., e,
c thru h, j.
Hallcrafters Co., The, h, j.
Hammarlund Mfg. Co., The, c thru f, h, j, l.
Hammett-Mercy-Rex Div., a thru l.

Hathaway Instruments, Inc., i.
A. W. Haydon Co., The
Hazeltine Electronics Div.-Hazeltine Corp., a, c,
e, h, j, l.
Hoover Electronics Co., c, d, f, j.
Houston Fearless Corp., f, g.
Huyck Systems Co., d.
ITT Electronics, Inc., h, l.
ITT Federal Div., International Telephone & Tele-
graph Corp., c thru h, j, l.
Instruments for Industry, Inc., d, h, j.
Integrated Dynamics Div., Globe Industries, Inc.
k.
Interstate Electronics Corp., a, d, e, i, j, l.
Kay Electric Co., e, l.
Lab. For Electronics, Inc., d.
Land-Air Inc., Sub.-California Eastern Aviation
Inc., c, d, e, h, i, j, l.
Leach Corp., h, j.
Lear, Inc., b thru l.
LeI, Inc., d, h, l.
Lenkurt Electric Co., Inc., h, j, l.
*WALLACE O. LEONARD, INC., d, k.
*LEWIS ENGRG. CO., THE, k.
Litton Industries, Inc.
Litton Industries, Maryland Div., a thru f, h, j,
Lockhead Aircraft Corp., Missiles & Space Div.,
a thru l.
Lockheed Electronics Co., Stavid Div., h, k, l.
Lycoming Div., Avco Corp., j.
MEG Products, Div.-Mandrel Industries, Inc.,
thru h, j, l.
Madigan Corp., d, e, j.
Magnasync Corp., e, j.
Marconi Instruments, c.
*MARTIN CO., THE, DENVER DIV., d, e, f, j.
Martin-Decker Corp., i, k.
Mason Electric Corp., f, g, h, l.
Midwestern Instruments, Inc., c, g, i, j.
Mincom Div., Minnesota Mining & Mfg. Co.,
d, i.
Minneapolis-Honeywell, Heiland Div., i.
Minneapolis-Honeywell Regulator Co., Industri-
Systems Div., i, j.
Minneapolis-Honeywell Regulator Co., Industri-
Div., g thru l.
*MINNESOTA MINING & MFG. CO., i.
Moore Associates, Inc., b, d, e, g, j, l.
Motorola, Inc., a, c, f, h, j, l.
Narmco Mfg. Co., a.
National Co., Inc., b thru h, j, l.
Newton Co., The, b.
Northeast Electronics Corp., j.
Northeastern Engrg. Inc., l.
Northrop Corp.
Nutmeg Screw Machine Products Co., l.
Offner Electronics Inc., i.
Pace Engrg. Co., k.
Pacific Mercury Electronics, a, c thru f, j, l.
Packard Bell Computer Corp., j.
M. V. Palmer, Inc., c, h.
Panoramic Radio Products, Inc., d, e.
Ralph M. Parsons Co., The, Electronics Div., l,
d, e, g, j, l.
Philco Corp.-Govt. & Industrial Group, a thru
Portland Copper & Tank Works Inc., d.
Potter Aeronautical Corp., k.
Potter Instrument Co., Inc., d, f, i, j.
Probescope Co., Inc., c, e.
Production Research Corp., Sub-Radio Conden-
ser Co., i, j.
Projects Unlimited, Inc., h, l.
RS Electronics Corp., h, j, l.
Radalab Inc., a, c, d, e.
Radiophone Co. Inc., a, c thru j, l.
Radiation, Inc., a thru d, f thru l.
Radio City Products Co., Inc., h.
Radio Condenser Co., j.
*RADIO CORP. OF AMERICA, a, c thru l.
*RADIO CORP. OF AMERICA, DEFENS
ELECTRONICS PRODUCTS, d, j, l.
Radio Receptor Co., Inc., Sub-General Instru-
ment Corp., c thru h, j, k, l.
Rahm Instruments Div.-American Machine
Metals, k.
Ramo-Woodriddle, Div.-Thompson Ramo Woo-
driddle Inc., b thru j.
Rantec Corp., a, d.
Raven Industries Inc., j, k, l.
Reeves Instrument Corp., d.
Resdel Engrg. Corp., h, l.
Rosemont Engrg. Co., k.
Sangamo Electric Co., i, l.
Scanivalve Co., k.
Seeburg Corp., The, a thru e, g thru j, l.
Servomechanisms, Inc., k.
Sierra Electronic Corp., Div.-Philco Corp., c, c,
e, l.
Southwest Research Institute
Southwestern Industrial Electronics Co., f, h.
Specialty Electronics Development Corp., j.
Spectra Electronics Corp., a, h, l.
Spectralab Instruments, c, l.
Spectrum Instruments, Inc., d.
Standard Controls, Inc., k.

Statham Instruments, Inc. k.
 Stewart-Warner Electronics Div., f, g.
 Stromberg-Carlson Div.-General Dynamics Corp., d, h, i, k, l.
 Sun Electric Corp., Aeronautical Div.
 TRG, Inc., a.
 *TABER INSTRUMENT CORP., k.
 Talley Corp., The
 Tamar Electronics, Inc., a, c, h, l.
 Tapco Group, Thompson Ramo Wooldridge Inc., c, h, j, l.
 Technical Appliance Corp., a.
 Telechrome Mfg. Corp., c thru h, i, j, l.
 Telectro Industries Corp., a, c, e, f, h, i, j, l.
 Telex, Inc., k.
 Texas Instruments Inc., c, f, g, j, l.
 Thompson Ramo Wooldridge Inc., c, h, j, l.
 Transco Products, Inc., a.
 Trans-Sonics, Inc., k.
 Ultradyne, Inc., k.
 U. S. Science Corp., Div.-Topp Industries, Inc., k.
 United States Time Corp., k.
 Universal Toroid Coil Winding, Inc., k.
 Waltham Electronics Corp., e.
 Wang Labs, Inc., f, i, j.
 Western Gear Corp.-Precision Products Div., a.
 Westport Development & Mfg. Co., Inc., k.
 Wiancko Engrg. Co., k.

TEMPERATURE CONTROL SYSTEMS

Airborne Accessories Corp.
 *AIRESEARCH MFG. OF ARIZONA
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
 Alloy Bellows Inc.
 American Instrument Co., Inc.
 American Missile Products Co., Inc.
 American Research Corp.
 Andersen Labs, Inc.
 Armament Div.-Universal Match Corp.
 *ARNOUX CORP.
 *ASSOCIATED TESTING LABS., INC.
 Astra Tech
 Atlas Engrg. Corp.
 Auto-Control Labs. Inc.
 Avien, Inc.
 Barber-Colman Co.
 Bendix Aviation Corp.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Bendix Utica Div., Bendix Aviation Corp.
 Bernco Engrg. Corp.
 *BRISTOL CO., THE
 Budd Lewyt Electronics, Inc.
 Cameraflex Div., The. Federal Mfg. & Engrg. Corp.
 Clark Controller Co., The
 Compudyne Corp.
 Consolidated Controls Corp.
 Datex Corp.
 Daystrom, Inc., Control Systems Div.
 Daystrom Inc., Pacific Div.
 Daystrom Inc., Weston Instruments Div.
 Dynamic Controls Corp.
 Eastern Industries Inc.
 Eclipse Fuel Engrg. Co.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
 Electronic Control Corp.
 Electronic Processes Corp. of California
 Ellis & Watts Products, Inc.
 Fairfield Engrg. Corp.
 Fenwal Inc.
 Flight Refueling, Inc.
 Flight Support, Inc.
 Gardner Laboratory, Inc.
 General Controls Co.
 General Electric Co., Apparatus Sales Div.
 Gulton Industries, Inc.
 B. H. Hadley, Inc.
 Hagan Chemicals & Controls Inc.
 Hallikainen Instruments
 Hamilton Standard, Div.-United Aircraft Corp.
 Harco Labs., Inc.
 Harris Refrigeration Co.
 Hathaway Instruments, Inc.
 Hays Corp., The
 Hughes Tool Co., Aircraft Div.
 IIT Electronics, Inc.
 Illinois Testing Laboratories, Inc.
 Janitrol Aircraft Div.-Midland-Ross Corp.
 Kahn & Co., Inc.
 *KEARFOTT DIV., GENERAL PRECISION, INC.
 Kieley & Mueller, Inc.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co., Inc.
 Lear, Inc.
 Leeds & Northrup Co.
 Leslie Co.
 Liquidometer Corp., The
 Madigan Corp.
 Magnetic Controls Co.
 Magnetic Instrument Co. Inc.
 Magnetic Research Corp.
 *MARTIN CO., THE, DENVER DIV.

Mason-Neilan
 Minneapolis-Honeywell Regulator Co., Boston Div.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
 Missimers Inc.
 National Co., Inc.
 National Electronics
 Networks Electronic Corp.
 Northrop Corp.
 OPW-Jordan
 Ordnance Engrg. Associates, Inc.
 Otis Elevator Co., Defense & Industrial Div.
 Pioneer Industries Div., Almar-York Co. Inc.
 Powers Regulator Co., The
 Projects Unlimited, Inc.
 Pyrometer Instrument Co., Inc.
 Radio Condenser Co.
 Recony Div.-VincO Corp.
 Research, Inc.
 Revere Corp. of America, Sub., Neptune Meter Co.
 Rimak, Inc.
 Robertshaw-Fulton Controls Co., Fulton Siphon Div.
 Santa Barbara Research Center
 Servomechanisms, Inc.
 Sierra-Schroeder Controls, Div.-Idaho Maryland Mines Corp.
 South Wind Div., Stewart Warner Corp.
 Southwest Research Institute
 Spectra Electronics Corp.
 Standard-Thomson Corp., Clifford Mfg. Co. Div.
 Statham Development Corp.
 Stearns-Roger Mfg. Co., The
 Stratos, Div.-Fairchild Engine & Airplane Corp.
 Sun Electric Corp., Aeronautical Div.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Temperature Engrg. Corp.
 Texas Instruments Inc.
 Thermo Electric Co., Inc.
 Thermon Mfg. Co.
 Thompson Ramo Wooldridge Inc.
 Trans-Sonics, Inc.
 Trepac Corp. of America
 United Aircraft Products, Inc.
 United Control Corp.
 United Electric Controls Co.
 United Sensor & Control Corp.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 Vap-Air Aeronautical Products Div., Vapor Heating Corp.
 Varo Mfg. Co., Inc.
 Victory Engrg. Corp.
 Weksler Instruments Corp.
 Wells Industries Corp.
 Westinghouse Electric Corp.
 Wilcolator Co., The
 Yellow Springs Instrument Co., The
 York Div., Borg-Warner Corp.

TEMPERATURE MEASURING EQUIPMENT

Advance Instrument Corp.
 Aero Research Instrument Co. Inc.
 American Instrument Co., Inc.
 Andersen Labs, Inc.
 *ARNOUX CORP.
 Assembly Products, Inc.
 Atlas Engrg. Corp.
 Avien, Inc.
 Beckman & Whitley, Inc., Instrument Div.
 Bendix Aviation Corp.
 Blender-Tongue Labs. Inc., Special Products Div.
 *BRISTOL CO., THE
 Burr-Brown Research Corp.
 Carborundum Co., The
 Clark Controller Co., The
 Conax Corp.
 Consolidated Controls Corp.
 Datex Corp.
 Daven Co., The
 Joe Davidson & Associates
 Daystrom Inc., Weston Instruments Div.
 Dejur-Amsco Corp., Electronic Sales Div.
 Eastman Kodak Co.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
 Electric Autolite Co., The
 Electro Instruments, Inc.
 Electronic Processes Corp. of California
 Engelhart Industries, Inc.
 Epic, Inc.
 Fenwal Inc.
 Fisher Scientific Co.
 Friez Instrument Div., Bendix Aviation Corp.
 General Electric Co., Apparatus Sales Div.
 General Electric Co., Instrument Dept.
 General Instrument Corp., Defense & Engrg. Products Group
 Gray Instrument Co.
 Gulton Industries, Inc.
 Hallikainen Instruments

Harris Refrigeration Co.
 Hays Corp. The
 E. Vernon Hill & Co.
 Illinois Testing Laboratories, Inc.
 Instrument Div., The Budd Co.
 Kahn & Co., Inc.
 Wayne Kerr Corp.
 Kollsman Instrument Corp., Sub-Standard Coil Products Co., Inc.
 Langley Corp.
 Lear, Inc.
 Leeds & Northrup Co.
 *LEWIS ENGRG. CO., THE
 Liquidometer Corp., The
 Lycopring Div., Avco Corp.
 Magnetic Instrument Co. Inc.
 Magnetic Research Corp.
 Marsh Instrument Co., Div.-Colorado Oil & Gas Corp.
 Minco Products, Inc.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div.
 National Electronics
 Networks Electronic Corp.
 Ordnance Engrg. Associates, Inc.
 Pace Engrg. Co.
 Palmer Thermometers, Inc.
 Pyrometer Instrument Co., Inc.
 Radio Condenser Co.
 Research, Inc.
 Revere Corp. of America, Sub., Neptune Meter Co.
 Robertshaw-Fulton Controls Co., Fulton Siphon Div.
 Rochester Mfg. Co. Inc.
 Rosemount Engrg. Co.
 Santa Barbara Research Center
 Serdex, Inc.
 Servomechanisms, Inc.
 Sheffield Corp., The, Sub.-Bendix Aviation Corp.
 Simmonds Aerocessories, Inc.
 E. C. Smith Mfg. Co., Inc.
 Southwest Research Institute
 Spectra Electronics Corp.
 B. K. Sweeney Mfg. Co.
 *TABER INSTRUMENT CORP.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Technique Associates Div., Duncan Electric Co., Inc.
 Telechrome Mfg. Corp.
 Temperature Engrg. Corp.
 Tempil Corp.
 Thermo Electric Co., Inc.
 Thermon Mfg. Co.
 Thompson Ramo Wooldridge Inc.
 Trans-Sonics, Inc.
 Trepac Corp. of America
 United Electric Controls Co.
 United Sensor & Control Corp.
 Victory Engrg. Corp.
 Weksler Instruments Corp.
 Wells Industries Corp.
 Westport Development & Mfg. Co., Inc.
 Yellow Springs Instrument Co., The

TEMPERATURE RESISTANCE BULBS

Aero Research Instrument Co. Inc.
 *ARNOUX CORP.
 Astra Tech
 Barber-Colman Co.
 *BRISTOL CO., THE
 Consolidated Controls Corp.
 Daystrom Inc., Weston Instruments Div.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
 Electronic Processes Corp. of California
 Engelhart Industries, Inc.
 Fenwal Inc.
 Hallikainen Instruments
 Hays Corp., The
 Illinois Testing Laboratories, Inc.
 Leeds & Northrup Co.
 *LEWIS ENGRG. CO., THE
 Minco Products, Inc.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Pyrometer Instrument Co., Inc.
 Rosemount Engrg. Co.
 Thermo Electric Co., Inc.
 Trans-Sonics, Inc.
 United Control Corp.
 Yellow Springs Instrument Co., The

TENSIONS, COIL WINDING

General Kinetics Inc.
 Thermionic Products Co.
TERMINAL BLOCKS
 ADC Inc.
 Accurate Electronics Corp.
 Aerolite Electronics Corp.
 Allied Plastics Supply Corp.
 Amatam Electronic Hardware Co. Inc.

American Aerophysics Corp.
 American Insulator Corp.
 Arnel Electronics, Inc.
 Associated Engineers, Inc.
 Automatic Electric Sales Corp.
 Brook Molding Corp.
 Buchanan Electrical Products Corp.
 Burndy Corp., Omatom Div.
 Cal Connector Co.
 Cambridge Thermionic Corp.
 Comco Plastics Inc.
 Continental Connector Corp.
 Dejur-Amsco Corp., Electronic Sales Div.
 Electrical Insulation Co., Inc.
 Emmco Plastics Fabricators
 Epoxy Products, Inc., Div. Joseph Waldman & Sons
 Exceller Electronics Inc.
 Federal Screw Products Inc.
 Fisher & Crome
 Garde Mfg. Co.
 General Products Corp.
 Globe Electrical Mfg. Co.
 Goe Engrg. Co.
 Walter K. Jaros Aircraftrafters
 Howard B. Jones Div.-Cinch Mfg. Corp.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kings Electronics Co., Inc.
 Kolton Electric Mfg. Co.
 Kulka Electric Corp.
 *LEWIS ENGRG. CO., THE
 Thomas J. Long, Inc.
 Lytle Corp.
 James Millen Mfg. Co. Inc.
 Molded Insulation Co.
 Molding Corp. of America
 Norrich Screw Machine Products
 Norwalk Thermostat Co.
 Olympic Plastics Co., Inc.
 Plastic Age Sales, Inc.
 Revere Corp. of America, Sub., Neptune Meter Co.
 States Co., The
 Telkor, Inc.
 Thermo Electric Co., Inc.
 Thor Ceramics, Inc.
 United States Instrument Corp.

TERMINAL BOARDS

Accurate Electronics Corp.
 Aerolite Electronics Corp.
 Alac, Inc.
 Alden Products Co.
 Allied Plastics Supply Corp.
 Amatom Electronic Hardware Co. Inc.
 American Aerophysics Corp.
 American Insulator Corp.
 Anchor Specialty Mfg. Co. Inc.
 Apahouser Corp. of N. E.
 Arnel Electronics, Inc.
 Associated Engineers, Inc.
 Brook Molding Corp.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
 Buchanan Electrical Products Corp.
 CG Electronics Corp.
 Cal Connector Co.
 California Plastec Inc.
 Cambridge Thermionic Corp.
 Cleveland Metal Specialties Co., Electronics Div.
 Comco Plastics Inc.
 Continental Connector Corp.
 Daven Co., The
 Double E Products Co.
 Electrical Insulation Co., Inc.
 Electronic Circuits
 Emerson Plastics Corp.
 Emmco Plastics Fabricators
 Engineered Plastics, Inc.
 Exceller Electronics Inc.
 Federal Screw Products Inc.
 Fisher & Crome
 Garde Mfg. Co.
 General Products Corp.
 Globe Electrical Mfg. Co.
 Goe Engrg. Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hampden Mfg. Co., Inc.
 Hobson Brothers, Inc.
 Walter K. Jaros Aircraftrafters
 Howard B. Jones Div.-Cinch Mfg. Corp.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kolton Electric Mfg. Co.
 Kulka Electric Corp.
 Thomas J. Long, Inc.
 Lytle Corp.
 Martin Machine Works, Inc.
 James Millen Mfg. Co. Inc.
 Molded Insulation Co.
 Molding Corp. of America
 Norrich Screw Machine Products
 Nylok Corp., The

Olympic Plastics Co., Inc.
 Precision Metal Products Co. Inc.
 Revere Corp. of America, Sub., Neptune Meter Co.
 Spruce Pine Mico Co.
 States Co., The
 Synthane Corp.
 Taylor Fibre Co.
 Tele Coil Co.
 Telkor, Inc.
 Thomas & Betts Co., Inc., The
 Thor Ceramics, Inc.
 Tingstol Co.
 Tri-Point Plastics Inc.
 Twix Mfg. Co., Inc.
 Unified Industries, Inc.
 United States Instrument Corp.
 Vector Electronic Co., Inc.
 Warren Components, Div.-El-Tronics, Inc.

TERMINAL LUG SWAGGERS

AMP Inc.
 Alden Products Co.
 Amatom Electronic Hardware Co. Inc.
 Buchanan Electrical Products Corp
 Burndy Corp., Omatom Div.
 Cambridge Thermionic Corp.
 Double E Products Co.
 Globe Electrical Mfg. Co.
 Goe Engrg. Co.
 Walter K. Jaros Aircraftrafters
 Kulka Electric Corp.
 Precision Metal Products Co. Inc.

TERMINAL STRIPS

Accurate Electronics Corp
 Aerolite Electronics Corp.
 Allied Plastics Supply Corp.
 Amatom Electronic Hardware Co. Inc.
 American Aerophysics Corp.
 American Insulator Corp.
 Apahouser Corp. of N. E.
 Arnel Electronics, Inc.
 Associated Engineers, Inc.
 Birnbach Radio Co., Inc.
 Blonder-Tongue Labs., Inc.
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc.
 Buchanan Electrical Products Corp.
 Cal Connector Co.
 Dejur-Amsco Corp., Electronic Sales Div.
 Duralith Corp.
 Electric Terminal Corp.
 Electrical Insulation Co., Inc.
 Emmco Plastics Corp.
 Emmco Plastics Fabricators
 Erie Resistor Corp.
 Exceller Electronics Inc.
 Federal Screw Products Inc.
 Fisher & Crome
 G-C Electronics Co.
 Garde Mfg. Co.
 General Products Corp.
 Globe Electrical Mfg. Co.
 Goe Engrg. Co.
 Hampden Mfg. Co., Inc.
 Hobson Brothers, Inc.
 Walter K. Jaros Aircraftrafters
 Howard B. Jones Div.-Cinch Mfg. Corp.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp.
 Kings Electronics Co., Inc.
 Kolton Electric Mfg. Co.
 Kulka Electric Corp.
 Thomas J. Long, Inc.
 James Millen Mfg. Co. Inc.
 Molded Insulation Co.
 Norrich Screw Machine Products
 Nylok Corp., The
 Olympic Plastics Co., Inc.
 Precision Metal Products Co. Inc.
 Sangamo Electric Co.
 Standard Pressed Steel Co.
 Stanley-Judd Div.-The Stanley Works
 States Co., The
 Tele Coil Co.
 Telkor, Inc.
 Thomas & Betts Co., Inc., The
 Thor Ceramics, Inc.
 Twix Mfg. Co., Inc.
 United States Instrument Corp.
 Vector Electronic Co., Inc.
 Waterbury Companies, Inc.

TERMINALS

- a. Hermetically Sealed
- b. Miniature & Subminiature
- c. Snap
- d. Solderless
- e. Standoff
- f. Wire & Cable

AMP Inc., d.
 Abbott Screw & Mfg. Co., b, c, d.
 Accurate Electronics Corp., b.
 Alac, Inc., b, d, e.

Alden Products Co., b.
 Alite Div., U. S. Stoneware Co., a, b, e.
 Alpine Electronic Components, Inc.
 Amatom Electronic Hardware Co. Inc., b, d, e, f.
 Arnel Electronics, Inc., e.
 Art-Wire & Stamping Co., a, b.
 Associated Engineers, Inc., f.
 B G Corp., The, a.
 L. J. Barwood Mfg. Co. Inc., d.
 Bead Chain Mfg. Co., The, b.
 Bendix Aviation Corp., f.
 Bergen Wire Rope Co., f.
 Bermite Powder Co., a, b.
 Birnbach Radio Co., Inc., b, e, f.
 Blaco Mfg. Co., d.
 Buchanan Electrical Products Corp., d, f.
 Burndy Corp., Omatom Div., d, f.
 Cal Connector Co., f.
 Cambridge Thermionic Corp., b.
 Ceramaseal, Inc., a, e.
 Chemical Micro Milling Co., b.
 L. C. Constantin & Co., a.
 Continental Connector Corp., b, d, e.
 Dage Electric Co., Inc., a.
 Dante Electric Mfg. Co., d, f.
 Dejur-Amsco Corp., Electronic Sales Div., a thru f.
 Deutsch Co., The, Electronic Components Div., a, b, d.
 Dialight Corp., a, d.
 Du-Co Ceramics Co., e.
 Electric Terminal Corp., d, f.
 Emmco Plastics Fabricators, b.
 Erie Resistor Corp., e.
 Exceller Electronics Inc., b, d.
 Federal Screw Products Inc., d, f.
 Freeman Co., The, f.
 Fusite Corp., a, b, e.
 G-C Electronics Co., d.
 Garde Mfg. Co., a, b, d, e.
 Garlock Packing Co., The-Electronic Products, b, e.
 General Ceramics Div., Indiana General Corp., a, b.
 Globe Electrical Mfg. Co., b.
 Goe Engrg. Co., b.
 Hallett Mfg. Co., f.
 Harrelson Mfg. Co., f.
 George E. Harris & Co., Inc., b.
 Hartwell Aviation Supply Co., f.
 Helder Mfg. Co., Inc., a.
 Hermetic Seal Corp., a, b.
 Hermetic Seal Corp. & Thermal Controls, Inc., a thru e.
 Hobson Brothers, Inc., d.
 Hollingsworth Co., Solderless Terminal Div., d.
 Hunter Tool Co., d.
 Walter K. Jaros Aircraftrafters
 Javex Electronics, d, f.
 Joclin Mfg. Co., The, a, e.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., f.
 Kennedy Aircraft Supply Co., f.
 Keystone Electronics Corp., b, e.
 Kolton Electric Mfg. Co.
 Kulka Electric Corp., b, d.
 Lab-Tronics, Inc., d, f.
 Lercro Electronics, Inc., b, d, e.
 Litton Industries, Inc.
 Malco Mfg. Co., b, c, d, f.
 McCormack Selph Associates, a, b.
 J. E. Menaugh Co., f.
 James Millen Mfg. Co. Inc., b.
 *MINNESOTA MINING & MFG. CO., a, b.
 Mitronics Inc., a, b.
 Molding Corp. of America, a, b, d, e.
 Networks Electronic Corp., a.
 Norrich Screw Machine Products
 Nutmeg Screw Machine Products Co., b.
 Ordnance Research & Development Co., Div., Bermite Powder Co., a, b.
 Precision Metal Products Co. Inc., b, e.
 Research Development Mfg. Inc., b.
 Revere Corp. of America, Sub., Neptune Meter Co., f.
 Milton Ross Metals Co., The, a, b, d, e.
 Sealectro Corp.
 Sealtron Corp., a.
 Seeger-Williams, Inc.
 C. Sjoberg & Son., b, d, f.
 Sphere Co. Inc., The, a, b, d, e.
 Stanley-Judd Div.-The Stanley Works, f.
 Stevens Co. Inc., b.
 Strat-O-Seal Mfg. Co., a.
 Taurus Corp., b, e.
 Thermo Electric Co., Inc., f.
 Thomas & Betts Co., Inc., The, b, d, f.
 Thor Ceramics, Inc., a, b, e.
 Torwico Electronics, Inc., a.
 Unified Industries, Inc., b thru e.
 Unified Shoe Machinery Corp., b, e.
 Vaco Products Co., c, d.
 Vector Electronic Co., Inc., b, d, e.
 Waltham Screw Co., b.
 Warren Components, Div. El-Tronics, Inc., a.

Whitaker Cable Corp., f.
Whitso, Inc., b, e.
Winchester, Electronics, Inc., a thru f.
Zierick Mfg. Corp., c, d, f.

TERMINATIONS

Alite Div., U. S. Stoneware Co.
Bogart Mfg. Corp.
Burndy Corp., Omaton Div.
Ceramaseal, Inc.
Diamond Antenna & Microwave Corp.
Don-Lan Electronics Inc.
Electric Terminal Corp.
Electrical & Physical Instrument Corp.
Empire Products Sales Corp.
FXR, Inc.
General Ceramics Div., Indiana General Corp.
International Electric Industries, Inc.
Kings Electronics Co., Inc.
Lab-Tronics, Inc.
Lieco, Inc.
Malco Mfg. Co.
Manger Electric Co., Inc.
Meridian Metalcraft, Inc.
Microlab
Molding Corp. of America
Narda Microwave Corp., The
Omega Labs., Inc.
Polytechnic Research & Development Co., Inc.
Sperry Microwave Electronics Co., Div.-Sperry
Rand Corp.
Stoddard Aircraft Radio Co., Inc.
Taurus Corp.
Victor R. F. & Microwave Co.
Wacline, Inc.

TEST CHAMBERS, ENVIRONMENTAL

Ace Engrg. & Machine Co., Inc.
*AEROJET-GENERAL CORP.
Aero-Test Equipment Co., Inc.
Aerofest Laboratories, Inc.
Allied International Corp.
American Electronics, Inc.
American Instrument Co., Inc.
American Latex Products Corp.
American Machine & Foundry Co.
American Research Corp.
Anchor Specialty Mfg. Co., Inc.
Associated Testing Labs., Inc.
Atlas Engrg. Corp.
Auto-Control Labs, Inc.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP.
Budd Co., The
Bulova Research & Development Labs., Inc.
Chicago Bridge & Iron Co.
Consolidated Vacuum Corp.
Cryogenators, Inc.
R. E. Darling Co., Inc.
Delta Design Inc.
Gardner Laboratory, Inc.
General Electric Co., Missile & Space Vehicle
Dept., Pa.
General Vacuum Corp.
Hahn & Clay
Hamilton Standard
Harris Refrigeration Co.
Industrial Filter & Pump Mfg. Co.
International Steel Co.
*ITEMCO, INC.
Jamison Cold Storage Door Co.
Labline, Inc.
R. C. Mahon Co., The
Marquardt Corp., The
Mechanics Research Div., American Machine &
Foundry Co.
Missimers Inc.
John Mohr & Sons
Murphy & Miller Inc.
Northeast Metals Industries, Inc.
Pioneer Industries Div., Almar-York Co. Inc.
Pulpation Test Facilities Div.-MB Electronics
Recony Div., Vinco Corp.
Fred T. Roberts & Co.
Rucker Co., The
Scientific Engrg. Labs., Inc.
Shielding, Inc.
Space Corp.
Standard Cabinet Co., Inc.
State Testing Laboratory Inc.
Statham Development Corp.
Statham Instruments, Inc.
F. J. Stokes Corp.
Temperature Engrg. Corp.
Tenney Engrg., Inc.
Thermon Mfg. Co.
United States Testing Co., Inc.
Universal Dynamics Corp.
Vacuum Specialties Co., Inc.
Webber Engrg. Corp.
Western Gear Corp.-Precision Products Div.
Westinghouse Electric Corp.
Whittaker Controls, Div.-Telecomputing Corp.
Wyle-Burgoyne, Inc.
Wyle-Parameters, Inc.

TEST CHAMBERS, FLIGHT SIMULATION

*AEROJET-GENERAL CORP.
Aeroscience, Inc.
Aero-Test Equipment Co., Inc.
Allied International Corp.
American Research Corp.
Atlas Engrg. Corp.
Auto-Control Labs, Inc.
Bendix Aviation Corp.
Chicago Bridge & Iron Co.
Dean Products, Inc.
Hahn & Clay
Hamilton Standard
Harris Refrigeration Co.
Huyck Systems Co.
Ideal-Aerosmith, Div.-Royal Industries, Inc.
International Steel Co.
Marquardt Corp., The
Micro Gee Products, Inc.
Missimers Inc.
John Mohr & Sons
Squiers Gage Co.
Standard Cabinet Co., Inc.
State Testing Laboratory Inc.
Temperature Engrg. Corp.
Western Gear Corp.-Precision Products Div.
Westinghouse Electric Corp.
Wyle-Parameters, Inc.

TEST EQUIPMENT

a. Accelerator
b. Altitude Simulating
c. Aural
d. Aviation
e. Centrifuge
f. Combustion
g. Corona Ionization
h. Dielectric
i. Electrical
j. Electronic
k. Environmental
l. Flight
m. Humidity
n. Hypersonic
o. Ignition
p. Impact
q. Inertial Guidance
r. Microwave
s. Oxygen System
t. Pneumatic
u. Temperature
v. Vibration

*AC SPARK PLUG, THE ELECTRONICS DIV.- GENERAL MOTORS, q.

ACF Electronics Div., ACF Industries Inc., b, j.
ACF Industries Inc., i, j.
Accessory Controls & Equipment Corp., d, t.
Accessory Products Co., Div.-Textron Inc., t.
Adage, Inc., j, q.
Advanced Electronics, Inc., j, v.
Aeroflex Labs. Div., Aeroflex Corp., a, d, i thru
l, p, q, v.
Aeronca Mfg. Corp.-Aerospace Div., d, j.
Aeroscience, Inc., b.
Aero-Test Equipment Co., Inc., a, b, d, e, i thru
p, t, u.
Aero test Laboratories, Inc., d, i thru l, n, t, u.
Air Logistics Corp., j.
Air Products, Inc., s.
Air Reduction Sales Co., Div.-Air Reduction
Co., Inc., s.
Airborne Instruments Lab., Div.-Cutler-Hammer,
Inc., i, r.
Aircorn Inc., r.
*AIRESEARCH MFG. CO., DIV.-THE GAR-
RETT CORP., j.
Airpax Electronics Inc., Cambridge Div., j.
Airpax Electronics Inc. Seminole Div., j.
Airtron, Div.-Litton Industries, r.
Alfred Electronics, j, r.
All American Engrg. Co., d.
Allen Electric & Equipment Co., d, f, i, j, o.
Allied International Corp., d, k, l, t.
Amerac Inc., j, r.
American Electronics, Inc., k.
American Instrument Co., Inc., b, k, m, u.
American Machine & Foundry Co., e, k, p.
American Machine & Foundry Co., Government
Products Group, e, u.
American Research Corp., b, d, g, k, l, m, t, u.
American Research & Mfg. Corp., s, t, v.
Anaheim Electronics Div.-Electronic Engrg. Co.
of Calif., j.
Anchor Specialty Mfg. Co. Inc., a, b, d, e, i
thru m, o, q, s thru v.
Applied Dynamics Corp., r.
Applied Radiation Corp., a.
Arch Gear Works Inc.
Arkay Engrg., Inc., j.
Armament Div.-Universal Match Corp., j, l, o.
Arnolt Corp.
Aro Equipment Corp., The, s.

Aro-Firewel Co. Inc., Sub.-The Aro Equip. Corp.,
k, s.
Associated Research, Inc., g, h, i.
*ASSOCIATED TESTING LABS., INC., a, b, e, e,
f, i, j, k, m, o, p, t, u, v.
Atlas Engrg. Corp., k, u.
Auto-Control Labs, Inc., b, f, k, m, p, t, u.
Autonetics, Div.-North American Aviation, Inc.,
j, q.
Avien, Inc., d.
Avo Ltd., i, j.
Avtron Mfg., Inc., i, j, k.
B & H Instrument Co., Inc., u.
B & K Instruments, Inc., j.
Babcock Radio Engrg., Inc., j.
Baird-Atomic, Inc., j.
Baldwin-Lima-Hamilton Corp., Electronics & In-
strumentation Divs., p.
Barnes Development Co., i, j.
Barry Controls, Inc., p.
Beckman Instruments, Inc., Berkeley Div., j, r.
Belock Instrument Corp., b, k, q.
Bendix Aviation Corp., b, d, j, l, q thru t.
Bendix Aviation Corp., Cincinnati Div., j, q.
Bendix Aviation Corp., Pioneer-Central Div., d, s.
Bendix Aviation Corp., York Div., r.
Bendix Corp., The, Eclipse-Pioneer Div., d, h, j,
l, q.
*BENDIX PRODUCTS DIV., BENDIX AVIATION
CORP., b, d, i thru l, t, u.
Bermite Powder Co., o, p.
Berco Engrg. Corp., d, i, j.
James G. Biddle Co., g, h, i.
A. Biederman, Inc., i, k, m, s, u, v.
Blonder-Tongue Labs, Inc., c, v.
Bogue Electric Mfg. Co., i.
Arthur E. Booth Co., i.
Bowser, Inc., c.
Bowser Inc., Defense Div., d.
Briggs Associates, Inc., g, j.
Bruno-New York Industries Corp., j, r.
Budd Co., The, k, v.
Budd Lewyt Electronics, Inc., j, k, m, r, t, u.
Bulova Research & Development Labs., Inc., k.
Burr-Brown Research Corp., j, u.
Calidyne Co., Inc., The, Sub.-Ling-Altec Elec-
tronics, Inc., v.
Calvert Electronics Inc., h, i, j, o.
Cammeflex Div., The, Federal Mfg. & Engrg.
Corp., k, l, r.
Cardell Mfrs., i.
Central Research Labs., Inc., h.
Chadwick-Helmuth Co., k, v.
Chalco Engrg. Corp., i, j.
Chance Vought Aircraft, Inc., i thru l, q.
Chase Electronics Motor Div., Inc., j.
Chemalloy Electronics Corp., r.
Chicago Bridge & Iron Co., b, k.
Cincinnati Sub Zero Products, b, k, m, u, v.
Clegg Labs., Div.-Clegg, Inc., j, r.
Cleveland Instrument Co., j.
Collins Radio Co., d, r.
Columbia Research & Development Corp., t.
Compudyne Corp., a, b, d, j, l, n, u, v.
Conofflow Corp., b, t.
Consolidated Diesel Electric Corp., i, t.
*CONSOLIDATED ELECTRODYNAMICS
CORP., i thru l, v.
Consolidated Vacuum Corp., b, k.
Control Electronics Co., Inc., j, r.
Convair Instruments, Convair Div.-General Dy-
namics Corp., m.
Cornelius Co., The, Aero Div., t.
Cornell Deep Drawing Co., Div.-Lanes Industries
Corp., t.
Cosa Corp., v.
Courter Products, Div.-Model Engrg. & Mfg.,
Inc., j.
Cubic Corp., j, r.
Curtiss-Wright Corp., Electronics Div., j.
Curtiss-Wright Corp., Princeton Div., n.
Curtiss-Wright Corp., Santa Barbara Div., i, j.
Custom Component Switches Inc., t.
Dalmo Victor Co., Div.-Textron, Inc., r.
R. E. Darling Co., Inc., b, d, h thru k, m, s, u, v.
Daven Co., The, i, j.
Davenport Mfg. Co., i, j.
Davidson Optronics, Inc., q.
Daystrom Inc., Weston Instruments Div., i, j.
Dayton Aircraft Products, Inc., g.
Dean Products, Inc., b, k.
Decker Corp., The, h, m.
De Havilland Aircraft of Canada, Ltd., Special
Products Div., d.
Dejur-Amsco Corp., Electronic Sales Div., d, i.

Delsen Corp., h.
 Delta Design Inc., b, k, u.
 Demornay-Bonardi, r.
 Designers for Industry, Inc., i, j, v.
 Desomatic Products, Inc.-Anders-Drilme, m.
 Development Engrg. Co., Inc., b, k, m, u.
 Diamond Antenna & Microwave Corp., r.
 W. C. Dillon & Co., Inc., d.
 Dit-Mco, Inc., i.
 Dieco, Div.-Djordjevic Engrg. Co., i, j.
 Douglas Microwave Co., Inc., r.
 Driaire, Inc., m.
 Du Kane Corp., i, j.
 Allen B. Du Mont Labs., Inc., d, f, j, l, o, q.
 Dunn Engrg. Associates Inc., j, q.
 Dynatronics, Inc., j.
 Dytronics Co., j.
 Eastern Specialty Co., The, i.
 Eastman Kodak Co., i, j.
 Electro Impulse Lab., Inc., i, j.
 Electro Instruments, Inc., h, j.
 Electro Precision Corp., j.
 Electro Scientific Industries, i, j.
 Electronic Applications, Inc., h, r.
 Electronic Engrg. Co. of California, j.
 Electronic Measurements Corp., j.
 Electron-Radar Products, r.
 Electro-Pulse, Inc., b, j.
 Elgin Micronics, West Coast Div.-Elgin National Watch Co., j.
 Ellison Draft Gage Co., Inc., f, s.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., b, c, d, k, l, p, q, r.
 Empire Products Sales Corp., j, r.
 Endeavor Corp., k, v.
 Epic, Inc., h, i, u, v.
 Erdoc Engrg. Corp., i, j, t.
 Erie Instrument, Div.-Erie Resistor Corp., j.
 Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., i, j, r.
 Farwest Mfg. Div., Inc., i, j.
 J. W. Fecker Div., American Optical Co., a, q.
 Fenwal Inc., u.
 Ferrotran Electronics Co., Inc., j.
 Fischer & Porter Co., u.
 Fla. Aircraft Radio & Marine, j.
 Flight Support, Inc., d, i, j, l, q, s, t.
 Fluid Power Inc., s.
 Ford Instrument Co., Div.-Sperry Rand Corp., q.
 Foto-Video Labs., Inc., i, j.
 Gardner Laboratory, Inc., e, f, k, m, p, u.
 Garwin, Inc., d, i, j.
 Gates Electronic Co., j.
 General Communication Co., j, r.
 General Electric Co., Apparatus Sales Div., i.
 General Electric Co., Missile & Space Vehicle Dept., i, j.
 General Electric Co., Missile & Space Vehicle Dept., Pa., i, r.
 General Instrument Corp., Defense & Engrg. Products Group
 General Kinetics Inc., j.
 General Laboratory Associates, Inc., o.
 General Mills, Inc.
 General Radio Co., j, v.
 General Regulator Corp., t.
 General Scientific Equipment Co., m.
 Genisico, Inc., a, e, k, q, v.
 Claud S. Gordon Co., u.
 Gordon Enterprises, j, l.
 Gray Instrument Co., i.
 Gray Mfg. Co., The, j.
 Grove Valve & Regulator Co., t.
 Guardite Co., Div.-American-Marietta Co., b, k, m, u.
 Guided Missile Div., The Firestone Tire & Rubber Co., l, t.
 Gulton Industries, Inc., k, v.
 Gyrex Corp., The, a, e, k, u.
 B. H. Hadley, Inc., k, m, s thru v.
 Hallamore Electronics Co., Div.-Sieglar Corp., d, i thru l.
 Hallicrafters Co., The, r.
 Hallikainen Instruments, u.
 Hamilton Standard, Div.-United Aircraft Corp., k.
 Hamilton Watch Co., Military Products Div., e, i.
 Hammett-Mercury-Rex Div., d, h, i, j, l, o, r, u.
 George E. Harris & Co., Inc., d.
 Harris Refrigeration Co., k, m, u.
 Haskel Engrg. & Supply Co., s.
 A. W. Haydon Co., The, i.
 Hays Corp., The, f.
 Hazeltine Electronics Div.-Hazeltine Corp., j, r.
 Herlo Corp., s, t.
 Hewlett-Packard Co., j, r.
 Hickok Electrical Instrument Co., The, i, j.
 High Vacuum Equipment Corp., Sub.-Robinson Tech. Products, Inc., b, k.
 Highland Engrg. Co., t.
 E. Vernon Hill & Co., k, m, u, v.
 Carl Hirschmann Co., Inc., p, v.
 Hofman Labs., Inc., s.
 C. G. Hokanson Co., Inc., k.
 Hughes Tool Co., Aircraft Div., i, j, t.
 Humidial Co., m.
 Huyck Systems Co., b, l.
 I-LS Instrument Div., The Meriam Instrument Co., i, j.
 ITE Circuit Breaker Co., Special Products Div., r.
 ITI Electronics, Inc., j.
 ITT Federal Div., International Telephone & Telegraph Corp., j, r.
 Ideal Industries, Inc., i.
 Ideal-Aerosmith, Div.-Royal Industries, Inc., a, b, t.
 Illinois Testing Laboratories, Inc., u.
 Impact-O-Graph Corp., The, p.
 Industrial Acoustics Co., Inc., d.
 Industrial Control Co., l.
 Industrial Engrg. Corp., j, t, u.
 Industrial Equipment Div., Baldwin-Lima-Hamilton Corp., e.
 Industrial Instruments Inc., h, i, j.
 Industrial Test Equipment Co., j.
 Integrated Dynamics Div., Globe Industries, Inc., e, q.
 Intercontinental Dynamics Corp., b, d, i, j, t.
 International Electronic Research Corp., j.
 International Equipment Co., a, e.
 International Ferromot Machinery Co., Inc., i.
 *ITEMCO, INC., b, k, m, u.
 Jack & Heintz, Inc., i.
 Jan Hardware Mfg. Co., Inc., p.
 Janke & Co., Inc., d, t.
 Kahn & Co., Inc., d, i, j, m, t, u, v.
 Kay Electric Co., c, j, r, v.
 *KEARFOTT DIV., GENERAL PRECISION, INC., d, i, j, q, r.
 *KEARFOTT DIV., GENERAL PRECISION, INC., MICROWAVE PRODUCTS, r.
 Keithley Instruments, Inc., j.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., i.
 Wayne Kerr Corp., r, v.
 Kieleys & Mueller, Inc., t.
 Kin Tel Div.-Cohu Electronics, Inc., j.
 Kingston Electronics-Div.-Kingston Industries, Inc., j.
 Knopp Inc., i.
 Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc., b, c, d, i, j, l.
 L. A. B. Corp., p.
 Labline, Inc., e, k, m.
 Lab. for Electronics, Inc., d, j, r.
 Lampkin Labs., Inc., M. R. Div., j.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., v.
 Langley, Corp., t, u.
 Lavoie Labs., Inc., j.
 Leach Corp., k.
 Lear, Inc., d, j, l, o, q, t.
 Lee Electric & Mfg. Co., i.
 Leeds & Northrup Co., f, m, t, u.
 Leemath Inc., q.
 *WALLACE O. LEONARD, INC., b, l, t.
 Levinthal Electronic Products, Inc., j, r.
 *LEWIS ENGRG. CO., THE, u.
 Lieco, Inc., r.
 Ling Electronics Div.-Ling-Altec Electronics, Inc., v.
 Liquidometer Corp., The, j.
 Lockheed Aircraft Corp., Missiles & Space Div., i, j.
 Lockheed Electronics Co., Stavvid Div., r.
 MB Electronics, v.
 M-D Blowers, Inc., t.
 Magnaflux Corp., Sub.-General Mills, Inc., j.
 Magnetic Instrument Co. Inc., j.
 Magtrol, Inc., j.
 Manson Labs., Inc., h, r.
 Marconi Instruments, j.
 Marquardt Corp., The, b, l, n.
 *MARTIN CO., THE, DENVER DIV., b, f, h thru k, m, q, r, t, u, v.
 Martin-Decker Corp., t.
 Massa Div.-Cohu Electronics, Inc., v.
 W. L. Maxson Corp., The, d.
 McGregor Mfg. Corp., e.
 Micro Gee Products, Inc., a, b, d, j, l.
 Northeast Electronics Corp., j.
 Northeastern Engrg. Inc., j, q.
 Northrop Corp., a, d, e, i thru l, n, p, q, v.
 Nortronics, Div.-Northrop Corp., j, l, q.
 Paul Nurches Co., j.
 Omega Labs., Inc., r.
 Opad Electric Co., h.
 Optomechanisms Inc., q, v.
 Orbitran Co., Inc., j.
 Ordance Research & Development Co., Div.-Bermite Powder Co., o, p.
 Otis Elevator Co., Defense & Industrial Div., i, j, q, t.
 Oxygen Equipment & Service Co., s.
 Pace Engrg. Co., d, l.
 Pacific Mercury Electronics, j, l, p.
 Packard-Bell Electronics Corp., d, i, j, r.
 Paco Electronics Co., Inc., i, j, l.
 Palmer Thermometers, Inc., u.
 Panoramic Radio Products, Inc., j, k, p, r, v.
 Pegasus Labs., Inc., p, v.
 Performance Measurements Co., d, j, l.
 Peschel Electronics, Inc., g thru j.
 Philco Corp.-Govt. & Industrial Group, j, r.
 Photon Instrument Co., j.
 Piasecki Aircraft Corp., e, i, j, p, v.
 Pimex, Inc., m.
 Pioneer Industries Div., Almar-York Co. Inc., j.
 Piqua Engrg. Inc., h, i.
 Pitometer Log Corp., j, r.
 Polarad Electronics Corp., j, r.
 Polytechnic Research & Development Co., Inc., r.
 Projects Unlimited, Inc., i, j, u.
 Propulsion Test Facilities Div.-MB Electronics, b, u, v.
 Pyrometer Instrument Co., Inc., u.
 Quan-Tech Labs., Inc., j.
 REF Mfg. Corp., d, i, j, t.
 Radalab Inc., i thru l.
 Radar Design Corp., r.
 Radiaphone Co. Inc., d, l.
 Radiation, Inc., j, k.
 Radio City Products Co. Inc., r.
 *RADIO CORP. OF AMERICA, j.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, d, i, k, l, r, v.
 *RCA, RCA SERVICE CO., GOVT. SERVICE DEPT., SYSTEMS ENGRG. FACILITY, j.
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., j, r.
 Ram Meter Inc., i, j.
 Ramo-Wooldrige, Div.-Thompson Ramo Wooldrige Inc., i, j, r.
 Rantec Corp., r.
 Raymond Engrg. Lab., Inc., a.
 Recony Div.-Vincor Corp., k, m, t, u.
 Reed Instrument Co., j, v.
 Reed Research Inc., j, v.
 Reeves Instrument Corp., q.
 Republic Aviation Corp., Missile Systems Div., i, j, r.
 Rese Engrg., Inc., j.
 Research Controls, t.
 Research, Inc., g, k, u.
 Research Indsl. Lab. of Electronics, j.
 Micrometral Mfg. Co., v.
 Microwave Associates, Inc., r.
 Midwestern Instruments, Inc., i thru l.
 James Millen Mfg. Co., Inc., j.
 Millipore Filter Corp., k.
 Minco Products, Inc., u.
 Minneapolis-Honeywell Regulator Co., Aeronautical Div., d, l, q.
 Minneapolis-Honeywell Regulator Co., Boston Div., a, q.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div., i, j, s, t, u.
 Mira Corp., The, j, s, u, v.
 Missimers Inc., b, f, k, m, u.
 Mitchell Camera Corp., t.
 Motorola, Inc., i, j, r.
 Muirhead Instruments Inc., g, i, j, v.
 Multi-Amp Electronic Corp., i.
 Murphy & Miller Inc., b, k, m, u.
 George L. Nankervis Co., d, i, j, l, t, u.
 Narda Microwave Corp., The, r.
 National Co., Inc., i, j, r.
 National Electronics, i, u.
 National Instrument Laboratories, Inc., s, t.
 National Scientific Labs., Inc., j.
 Navigation Computer Corp., j.
 New England Scientific Instruments Co., i, m.
 New London Instrument Co., Inc., j.
 Nilsson Electrical Lab., Inc., i, j.
 Non-Linear Systems, Inc., j.

Resistoflex Corp., k, t, u, v.
 Fred T. Roberts & Co., k, s, t.
 Rosemount Engrg. Co., u.
 Rucker Co., The, a, e, k, t.
 Ryan Industries, Inc., Dept. M., s.
 St. John X-Ray Laboratory
 Sargent Engrg. Corp., k, p, s thru v.
 Scavivalve Co., t.
 Schaevitz Engrg., a, e, k, p.
 Schaffer Air Industries, Inc., d, i, s, t.
 Scientific Electric Inc., j.
 Scientific Engrg. Co., t.
 Scientific Engrg. Labs., Inc., b, k.
 Scientific-Atlanta, Inc., r.
 Scintilla Div., Bendix Aviation Corp., o.
 Seco Mfg. Co., j.
 Sensitive Research Instrument Corp., i.
 Servicair Co., o.
 Servo Consultants Ltd., i, j.
 Servomechanisms, Inc., b, t.
 Servo-Tek Products Co., j.
 Shallcross Mfg. Co., h.
 Sharples Corp., The, e.
 Sierra Engrg. Co., s.
 Simpson Electric Co., u.
 Skyproducts, t.
 Skyvalve, Inc., t.
 Slaughter Co., Inc., h, i, j.
 Small Motors Inc., i.
 E. C. Smith Mfg. Co., Inc., u.
 Solar Aircraft Co., j.
 Sonex, Inc., j.
 South Wind Div., Stewart Warner Corp., f, k, t.
 Southwest Research Institute, a, p, t, v.
 Southwestern Industrial Electronics Co., j, v.
 Southwestern Valve Corp., t.
 Specialties, Inc., d.
 Specialty Electronics Development Corp., j, r.
 Spectralab Instruments, j, r.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., r.
 Standard Cabinet Co., Inc., b, k, m, t, u.
 State Testing Laboratory Inc., k, u.
 Statham Development Corp., k, u.
 Statham Instruments, Inc., a, k, v.
 *STELLARDYNE LABS., INC., a, b, e, i, j, k, m, p, s thru v.
 Stephens Trusonic Inc., k, v.
 Stewart-Warner Electronics Div., i, j, r.
 Stromberg-Carlson Div.-General Dynamics Corp., j, l, p, r.
 Sun Electric Corp., Aeronautical Div., d, f, i, j, o, s, t, v.
 Sunshine Scientific Instrument, g, i, j.
 B. K. Sweeney Mfg. Co., h, j, u.
 Sylvania Electronic Systems, Div.-Sylvania Electric Products Inc., r.
 Systron Corp., j.
 TRG, Inc., r.
 Taffet Electronics, Inc., b, d, i, j, l, r.
 Tally Register Corp., i, j.
 Technical Electronics Co. Div.-Consolidated Electronic Industries, h.
 Technology Instrument Corp., i, j.
 Technoproducts, Inc., f, p.
 Tektronix, Inc., j.
 Telechrome Mfg. Corp., j, r.
 Telectro Industries Corp., i, j.
 Tel-Instrument Electronics Corp., v.
 Telonic Industries, Inc., j, r.
 Temperature Engrg. Corp., b, k, m, u.
 Tenney Engrg., Inc., b, k, m, u.
 Texas Instruments Inc., j.
 Thermal Research & Eng. Corp., f, t, u.
 Thermo Electric Co., Inc., u.
 Thermon Mfg. Co., i, u.
 Theta Instrument Corp., d, l, q.
 Thomas Electronics, Inc., i, j.
 Tinius Olsen Testing Machine Co., p.
 Topatron, Inc., b, j, r.
 Trans-Sonics, Inc., u.
 Trimount Instrument Co., h.
 Trio Laboratories, Inc., i, j.
 Triplett Electrical Instrument Co., i, j.
 Tucson Instrument Corp., d.
 Twix Mfg. Co., Inc., b, k, p, v.
 Ultra-Violet Products, Inc., s.
 Unholtz-Dickie Corp., k, v.
 Unit Process Assemblies, Inc., j.
 United Electric Controls Co., u.
 United Mfg. Co., Div., The W. L. Maxson Corp., d, i, t.
 U. S. Industries, Inc., j, l, v.
 U. S. Science Corp., Div.-Topp Industries, Inc., d, i, j.

United States Testing Co., Inc., h thru k, m, p, u, v.
 Universal Dynamics Corp., m.
 Valor Instruments, Inc., j.
 Varo Mfg. Co., Inc., i, j.
 Victor R. F. & Microwave Co., r.
 Victory Engrg. Corp., u.
 Video Instruments Co., Inc., v.
 Wallson Associates, Inc., i, j.
 Waltham Electronics Corp., j.
 Wang Labs., Inc.
 Warren Components, Div.-El-Tronics, Inc., m.
 Waveline, Inc., r.
 Webber Engrg. Corp., b, k, m, u.
 Webber Mfg. Co., Inc., b, k, m, u.
 Wells Industries Corp., d, m, t.
 Welltronics Co., j.
 Westberg Mfg. Co., o.
 Westinghouse Electric Corp., d, i, j, k, n, u, v.
 Weston Hydraulics Ltd., Sub.-Borg-Warner Corp., j.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp., i, j.
 Whittaker Controls, Div.-Telecomputing Corp., s thru v.
 Wiancko Engrg. Co., j, t.
 Winder Aircraft Corp. of Florida, i, j.
 Wolverine Diesel Power Co., k.
 Wyle Mfg. Corp., b, k, m, p, u, v.
 Wyle-Burgoynes, Inc., b, k, u.
 Wyle-Parameters, Inc., b, k, m, u.
 Zep Aero, s.

TEST LEADS

Accurate Electronics Corp.
 Aerolite Electronics Corp.
 Amatom Electronic Hardware Co., Inc.
 American Smelting & Refining Co.
 Anchor Specialty Mfg. Co., Inc.
 J. T. Baker Chemical Co.
 Bendix Aviation Corp., Cincinnati Div.
 Bernco Engrg. Corp.
 Birnbach Radio Co., Inc.
 Bruno-New York Industries Corp.
 Bud Radio, Inc.
 Calvert Electronics Inc.
 Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
 Allen B. Du Mont Labs., Inc.
 Eastern Specialty Co., The
 The Empire Electronics Co., Inc.
 G-C Electronics Co.
 International Electric Industries, Inc.
 Javex Electronics
 Keystone Electronics Corp.
 Lab-Tronics, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Paul Nurches Co.
 Paco Electronics Co., Inc.
 Pomona Electronics Co., Inc.
 Precise Development Corp.
 Projects Unlimited, Inc.
 Radio City Products Co. Inc.
 Revere Corp. of America, Sub., Neptune Meter Co.
 Schaffer Air Industries, Inc.
 Skytronics, Inc.
 Specialty Electronics Development Corp.
 Sunshine Scientific Instrument

TEST STANDS, STATIC

Accessory Products Co., Div.-Textron Inc.
 *AEROJET-GENERAL CORP.
 AeroScience, Inc.
 Aero-Test Equipment Co., Inc.
 Aerotest Laboratories, Inc.
 Air Logistics Corp.
 Anchor Specialty Mfg. Co. Inc.
 Arde-Portland, Inc.
 Arnolt Corp.
 Auto-Control Labs, Inc.
 Basic Tool Industries, Inc.
 Beacon Steel Corp.
 *BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.
 Continental-Emasco Co., Div.-The Youngstown Sheet & Tube Co.
 Cromer Mfg. & Engrg., Inc.
 Devco Engrg. Inc.
 Dynametrics Corp.
 Eclipse-Pioneer Div., Bendix Aviation Corp.
 Farwell Metal Fabricating
 Ford Instrument Co., Div.-Sperry Rand Corp.
 General Electric Co., Missile & Space Vehicle Dept., Pa.

Gray Mfg. Co., The
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hamilton Standard
 Haskel Engrg. & Supply Co.
 Herlo Corp.
 Hughes Tool Co., Aircraft Div.
 Industrial Acoustics Co., Inc.
 International Ferromont Machinery Co., Inc.
 Jenco Aircraft Corp., Sub.-Fairchild Engine & Airplane Corp.
 Kahn & Co., Inc.
 Kellett Aircraft Corp.
 Ledeon Inc.
 Machine Products Div., New Haven Trap Rock Co.
 Marquardt Corp., The
 *MARTIN CO., THE, DENVER DIV.
 Mullenbach Div.-Electric Machinery Mfg. Co.
 George L. Nankervis Co.
 Northeast Metals Industries, Inc.
 Northrop Corp.
 Ozone Metal Products Corp.
 P. B. R. Mfg. Co.
 Richard Philip Co.
 Philips & Davies Inc.
 Piasecki Aircraft Corp.
 Projects Unlimited, Inc.
 Recony Div.-Vincor Corp.
 Rucker Co., The
 The Sancier Corp.
 Sargent Engrg. Corp.
 Space Corp.
 Squiers Gage Co.
 Stearns-Roger Mfg. Co., The
 Sun Electric Corp., Aeronautical Div.
 Temco Aircraft Corp.
 Thiokol Chemical Corp., Hunter-Bristol Div.
 Tucson Instrument Corp.
 Twin Coach Co., Aircraft-Missiles
 Vickers, Inc., Mich.
 Wells Industries Corp.
 Westinghouse Electric Corp.
 Winder Aircraft Corp. of Florida
 Wolverine Diesel Power Co.

TEST UNITS, ACCELERATION, MILITARY

All American Engrg. Co.
 American Machine & Foundry Co., Government Products, N. Y.
 Anchor Specialty Mfg. Co. Inc.
 Associated Testing Labs., Inc.
 Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
 *ENGIS EQUIPMENT CO.
 Genisco, Inc.
 Northrop Corp.
 Otis Elevator Co., Defense & Industrial Div.
 Raymond Engrg. Lab., Inc.
 Rimak, Inc.
 Rucker Co., The
 United States Testing Co., Inc.
 Wiancko Engrg. Co.

TESTERS

a. Amplitude Linearity
 b. Automatic Tube
 c. Battery
 d. Cable
 e. Capacitor
 f. Cathode Ray Tube
 g. Circuit
 h. Coat Thickness
 i. Coil
 j. Color Infrared
 k. Continuity
 l. Crystal Testing
 m. Diode
 n. Distortion
 o. Induction
 p. Insulation
 q. Insulation Breakdown
 r. Meter
 s. Microwave
 t. Theodolite
 Aero-Test Equipment Co., Inc., g.
 Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., g, l, m, s.
 Aircrom Inc., s.
 Airpax Electronics Inc., Cambridge Div., r.
 Airpax Electronics Inc., Seminole Div., r.
 Airtron, Div.-Littion Industries, s.
 Allen Electric & Equipment Co., c, r.
 Amerac Inc., s.
 American Electronics, Inc., Nuclear Div., e, l, m.

American Instrument Co., Inc., h.
***ASKANIA-WERKE, U. S. BRANCH OFFICE, t.**
 Associated Research, Inc., d, e, k, p, q, r.
***ASSOCIATED TESTING LABS., INC., g, k.**
 Avo Ltd.
 Baird-Atomic, Inc., m.
 Barnes Development Co., l, m.
 Bendix Aviation Corp., d, k.
 Bendix Aviation Corp., Cincinnati Div., g.
 Bennett-Feragen
 Bernco Engrg. Corp., g, k.
 James G. Biddle Co., d, h, i, k, p, q.
 Bogue Electric Mfg. Co., c.
 Arthur E. Booth Co., r.
 Branson Instruments, Inc., h.
 Briggs Associates, Inc., d, k.
 Bruno-New York Industries Corp., s.
 Bulova Research & Development Labs., Inc., l.
 Calvert Electronics Inc., c thru g, p, q, r.
 Cameralex Div., The, Federal Mfg. & Engrg. Corp., a.
 Chemalloy Electronics Corp., s.
 Cincinnati Sub Zero Products, p.
 Clegg Labs., Div.-Clegg, Inc., b.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., d, q.**
 Consolidated Airborne Systems, Inc., a, e, p.
 Control Electronics Co., Inc., s.
 Cornell-Dubilier Electric Corp., e.
 Crosby-Teletronics Corp., m.
 Curtiss-Wright Corp., Princeton Div., p, q.
 Dale Products, Inc., d, g, k, p, q.
 Daven Co., The, m, n.
 Davenport Mfg. Co., p, q, r.
 Davidson Optronics, Inc., t.
 Daystrom Inc., Weston Instruments Div., b, g, h, k, p, q, r.
 Delsen Corp., p.
 Demornay-Bonardi, s.
 Designers for Industry, Inc., d, h, i, m.
 Development Engrg. Co., Inc., m.
 DiT-Mco, Inc., d, g, k, p.
 Djeco, Div.-Djordjevic Engrg. Co., h.
 Dorne & Margolin, Inc., l.
 Du Kane Corp., g, k.
 Allen B. Du Mont Labs., Inc., f.
 Eastern Specialty Co., The, r.
 Eclipse-Pioneer Div., Bendix Aviation Corp., q.
 Electrical & Physical Instrument Corp., d.
 Electro Instruments, Inc., b thru e, g, i, k, m, p.
 Electro Scientific Industries, e.

Electronic Applications, Inc., s.
 Electronic Brazing Co., p, q.
 Electronic Measurements Corp., e.
 Electro-Seal Corp., q.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., s, t.
 Empire Products Sales Corp., n, s.
***ENGIS EQUIPMENT CO., t.**
 Epic, Inc., d, p.
 Erdco Engrg. Corp., d, e.
 Fleetwood Labs., Inc.
 Flight Support, Inc., g, k.
 Flite-Tronics, Inc., m.
 Food Machinery & Chemical Corp., Ordnance Div., d, g.
 Gardner Laboratory, Inc., h.
 General Communication Co., s.
 General Electric Co., Apparatus Sales Div., h, q.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 General Radio Co., e, p.
 General Scientific Equipment Co., b.
 Gordon Enterprises, t.
 Gray Instrument Co., g, k.
 Gulton Industries, Inc., e.
 W. & L. E. Gurley, t.
 Hammett-Mercury-Rex Div., c, f, l, r, s.
 Hewlett-Packard Co., s.
 Hickok Electrical Instrument Co., The, a, b, c, f, g, m.
 Holtzer-Cabot Div., National Pneumatic Co., Inc., p.
 Hunter Tool Co., g.
 Ideal Industries, Inc., g, p.
 Industrial Instruments Inc., e, p, q.
 Industrial Test Equipment Co., e, i, p.
 Instruments for Industry, Inc., g.
 Jan Hardware Mfg. Co., Inc., e, l, m.
 Janco Corp., p.
 Kahn & Co., Inc., e, k.
 Kay Electric Co., d, n, s.
 Wayne Kerr Corp., e, n.
 Keystone Electronics Corp., k.

Lab. for Electronics, Inc., s.
 Lavoie Labs, Inc., g.
 Lear, Inc., c, g, k, m.
 Leeds & Northrup Co., d.
 Leemath Inc., d.
 Manson Labs., Inc., q, s.
 Marion Instrument Div.-Minneapolis-Honeywell Regulator Co., r.
***MARTIN CO., THE, DENVER DIV., c, d, g, k, m, n, p thru s.**
 Martindale Electric Co., p.
 Micro Gee Products, Inc., a.
 Microwave Associates, Inc., s.
 James Millen Mfg. Co., Inc., i.
 Minneapolis-Honeywell Regulator Co., Missile Equipment Div., b, d, g.
 Modern Design Div.-H. C. Schloer, Inc., g, k.
 Motorola, Inc., g, m, s.
 Multi-Amp Electronic Corp., p, r.
 National Co., Inc., g, k, s.
 Nilsson Electrical Lab., Inc., r.
 Northrop Corp., g, k.
 Opad Electric Co., c, d, k, p, q.
 Optimized Devices, Inc., g, k, m.
 Optomechanisms Inc., t.
 Owen Labs, Inc., m.
 Pacific Automation Products, Inc., d.
 Packard Bell Computer Corp., g.
 Packard-Bell Electronics Corp., s.
 Paco Electronics Co., Inc., c thru g, l, m, n, r.
 Panoramic Radio Products, Inc., n.
 Performance Measurements Co., g, k.
 Peschel Electronics, Inc., d, e, g, k, p, q.
 Philco Corp.-Govt. & Industrial Group, g, s.
 Pioneer Industries Div., Almar-York Co., Inc., f.
 Pigua Engrg. Inc., d.
 Polarad Electronics Corp., s.
 Polytechnic Research & Development Co., Inc., s.
 Precision Apparatus Co., Inc., a, b, c, e, f, l, n, r.
 Projects Unlimited, Inc., d, g, k, q.
 Radar Design Corp., s.
 Radiation, Inc., n.
 Rantec Corp., s.
 Rese Engrg., Inc., g.
 Research Indsl. Lab. of Electronics, b, f, h, k, m.
 Rimak, Inc., a, e, f, g, i, l thru o, r, s.
 Santa Barbara Research Center, j.
 Schaffer Air Industries, Inc., c, d, g.
 Scientific-Atlanta, Inc., s.
 Scopes Co., Inc., The, l, m.
 Seco Mfg. Co., b.
 Servo-Tek Products Co., r.
 Shallcross Mfg. Co., p.
 Simpson Electric Co., c, e, g.
 Slaughter Co., Inc., d, g, k, p, q.
 Solar Aircraft Co., g.
 Sonotone Corp., c.
 Southwest Research Institute, t.
 Southwestern Industrial Electronics Co., e.
 Special Products Dept., Melpar, Inc., d.
 Specialty Electronics Development Corp., d, k.
 Spectralab Instruments, q, s.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., b, s.
 States Co., The, q, r.
 Herman H. Sticht Co., Inc., d, g, k, p.
 Strand Engrg. Co., g, k.
 Stromberg-Carlson Div.-General Dynamics Corp., d, g, s.
 H. W. Sullivan Ltd., e, o.
 Sun Electric Corp., Aeronautical Div., c, d, f, g, i, p, q, r.
 Sunshine Scientific Instrument, d, h, i, r.
 B. K. Sweeney Mfg. Co., e, p.
 TRG, Inc., s.
 Technical Electronics Co. Div.-Consolidated Electronic Industries, d, e, g, o, q.
 Technology Instrument Corp., e, k.
 Texas Instruments Inc., e, g, m.
 Theta Instrument Corp., a.
 Thomas Electronics, Inc., f.
 Transistor Electronics Corp., m.
 Triplett Electrical Instrument Co., b, f, g.
 Ultra-Violet Products, Inc., g.
 Unit Process Assemblies, Inc., h.
 U. S. Science Corp., Div.-Topp Industries, Inc., a, e, k.
 United States Testing Co., Inc., e.
 Valor Instruments, Inc., m.
 Wallson Associates, Inc., m.
 Western Union Telegraph Co., The, n.
 Westinghouse Electric Corp., m.
 Wickes Engrg. & Construction Co., d, q.

THERMAL CONDITIONING EQUIPMENT
 American Instrument Co., Inc.

American Machine & Foundry Co., Government Products, N. Y.
***ASSOCIATED TESTING LABS., INC.**
 Barber-Colman Co.
 Blue M Electric Co.
 Budd Lewyt Electronics, Inc.
 Hallicrafters Co., The
 Hermetic Seal Corp. & Thermal Controls, Inc.
 International Electronic Research Corp.
***ITEMCO, INC.**
 Janitrol Aircraft Div.-Midland-Ross Corp.
 Manning & Lewis Eng. Co.
 Franklin P. Miller & Son, Inc.
 Missimers Inc.
 Modine Mfg. Co.
 Northrop Corp.
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
 Recony Div.-Vincor Corp.
 Research, Inc.
 Solar Aircraft Co.
 Southwest Research Institute
 Statham Development Corp.
 Temperature Engrg. Corp.
 Thermal Dynamic Products Div.-Waltham Precision Instrument Co.
 United Control Corp.
 Wenzlau Engrg. Co.

THERMAL CONDUCTIVITY CELLS
 Engelhard Industries, Inc.
 International Electronic Research Corp.
 Joseph Kaye & Co.
 Leeds & Northrup Co.
 Mira Corp., The
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
 Recony Div.-Vincor Corp.
 Southwest Research Institute

THERMOCOUPLES
***AC SPARK PLUG, THE ELECTRONICS DIV.-GENERAL MOTORS**
 Advanced Electronics, Inc.
 Aero Research Instrument Co. Inc.
 American Instrument Co., Inc.
 American Thermo Electric Co.
***ARNOUX CORP.**
 Astra Tech
 B G Corp., The
 Barker Sales Co.
 Bernco Engrg. Corp.
 J. Bishop & Co., Platinum Works
 Bram Metallurgical Chemical Co.
***BRISTOL CO., THE**
 Calvert Electronics Inc.
 Carborundum Co., The
 Central Electronics Mfrs., Div.-Nuclear Corp. of America
 Conax Corp.
 Consolidated Controls Corp.
 Continental Sensing, Inc.
 Daven Co., The
 Daystrom Inc., Weston Instruments Div.
 Dejur-Amsco Corp., Electronic Sales Div.
 Du-Co Ceramics Co.
 Engelhard Industries, Inc.
 Fenwal Inc.
 General Controls Co.
 General Electric Co., Apparatus Sales Div.
 General Electric Co., Instrument Dept.
 Claud S. Gordon Co.
 Gray Instrument Co.
 Harco Labs., Inc.
 Illinois Testing Laboratories, Inc.
 Instrulab, Inc.
 Kerns Mfg. Corp.
 Leeds & Northrup Co.
***LEWIS ENGRG. CO., THE**
 Lycoming Div., Avco Corp.
 Magnetic Instrument Co., Inc.
***MARTIN CO., THE, DENVER DIV.**
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Ordnance Engrg. Associates, Inc.
 Pemco Inc.
 Philco Corp.-Govt. & Industrial Group
 Pyrometer Instrument Co., Inc.
***RADIO CORP. OF AMERICA**
 Research, Inc.
 Revere Corp. of America, Sub., Neptune Meter Co.
 Sensitive Research Instrument Corp.
 Simpson Electric Co.
 E. C. Smith Mfg. Co., Inc.
 Southwest Research Institute

Teleflex Inc.
Temperature Engrg. Corp.
Thermo Electric Co., Inc.
Trinity Equipment Corp.
United Sensor & Control Corp.

THERMOELECTRIC

- a. Devices
- b. Materials

Advanced Electronics, Inc., a.
Aero Research Instrument Co. Inc., a.
American Thermo Electric Co., a.
***ARNOUX CORP., a.**
Bendix Aviation Corp., a.
J. Bishop & Co., Platinum Works, b.
Blonder-Tongue Labs. Inc., Special Products Div., a, b.
Budd Lewyt Electronics, Inc., a.
CBS Laboratories, Div.-Columbia Broadcasting System, a.
Carborundum Co., The, b.
Curtiss-Wright Corp., Princeton Div., a.
Daven Co., The, a.
De Havilland Aircraft of Canada, Ltd., Special Products Div., a.
Delco Radio Div.-General Motors Corp., a, b.
Fenwal Inc., a.
Filtron Co., Inc., a.
General Controls Co.
General Electric Co., Missile & Space Vehicle Dept., Pa., a.
General Instrument Corp., Defense & Engrg. Products Group, a.
Harco Labs., Inc., a, b.
Joseph Kaye & Co., a, b.
Lear, Inc., a, b.
***LEWIS ENGRG. CO., THE, a, b.**
Lockheed Aircraft Corp., Missiles & Space Div., a.
***MARTIN CO., THE, DENVER DIV., a.**
Mica Insulator Div.-Minnesota Mining & Mfg. Co., b.
***MINNESOTA MINING & MFG. CO., a, b.**
***MINNESOTA MINING & MFG. CO.-CHEMICAL DIV., b.**
Monsanto Chemical Co., a, b.
NUMEC-Nuclear Materials & Equipment Corp., b.
National Beryllia Corp., b.
Northrop Corp., a.
Norton Co., New Products Dept., b.
Olin Mathieson Chemical Corp., N. Y., a.
Ordnance Engrg. Associates, Inc.
Patterson Moos Research, Div.-Leesona Corp., a, b.
Pasco Products Div.-Borg-Warner Corp., a.
***RADIO CORP. OF AMERICA, a.**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, a, b.**
Servomechanisms, Inc., a, b.
E. C. Smith Mfg. Co., Inc., a, b.
Solar Mfg. Corp., a.
Southwest Research Institute
Thermal Dynamics Products Div.-Waltham Precision Instrument Co., a, b.
Thermo Electric Co., Inc., a, b.
Thermon Mfg. Co., b.
Transitron Electronic Corp., a, b.
H. W. Tuttle & Co., a.
United Mineral & Chemical Corp., a, b.
Westinghouse Electric Corp., a.

THERMOMETERS, RESISTANCE

Aero Research Instrument Co., Inc.
***ARNOUX CORP.**
Astra Tech
***BRISTOL CO., THE**
Daystrom Inc., Weston Instruments Div.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Fenwal Electronics, Inc.
Fisher Scientific Co.
Fisher Scientific Co., Maryland
General Controls Co.
General Electric Co., Apparatus Sales Div.
Gray Instrument Co.
Hallikainen Instruments
Illinois Testing Laboratories, Inc.
***LEWIS ENGRG. CO., THE**
Lycoming Div., Avco Corp.
Minco Products, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Mira Corp., The
Pyrometer Instrument Co., Inc.
Rochester Mfg. Co. Inc.

Rochester Mfg. Co., Inc. of Calif.
Rosemount Engrg. Co.
Simpson Electric Co.
E. C. Smith Mfg. Co., Inc.
Thermo Electric Co., Inc.
Trans-Sonics, Inc.
Yellow Springs Instrument Co., The

THERMOPILES

Aero Research Instrument Co. Inc.
James G. Biddle Co.
***ENGIS EQUIPMENT CO.**
Harco Labs., Inc.
Lycoming Div., Avco Corp.
***MARTIN CO., THE, DENVER DIV.**
***MINNESOTA MINING & MFG. CO.**
Ordnance Engrg. Associates, Inc.
Pyrometer Instrument Co., Inc.
Thermo Electric Co., Inc.

THERMOSTATS

***AIRESEARCH MFG. OF ARIZONA**
Alloy Bellows Inc.
Barber-Colman Co.
Components Corp.
Dynamic Controls Corp.
Thomas A. Edison Ind. Instrument Div.-McGraw Edison Co.
Engelhard Industries, Inc.
Fenwal Inc.
Filtron Co., Inc.
G-V Controls Inc.
General Controls Co.
General Electric Co., Apparatus Sales Div.
Hart Mfg. Co., The
Hathaway Instruments, Inc.
Hermetic Seal Corp. & Thermal Controls, Inc.
Kingston Electronics-Div.-Kingston Industries Inc.
Norwalk Thermostat Co.
Powers Regulator Co., The
Pyrometer Instrument Co., Inc.
Robertshaw-Fulton Controls Co., Fulton Sylphon Div.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stevens Mfg. Co. Inc.
Texas Instruments Inc.
George Ulman Co.
United Control Corp.
Valverde Labs.
Vap-Air Aeronautical Products Div., Vapor Heating Corp.

THICKNESS EQUIPMENT

Aeroflex Labs. Div., Aeroflex Corp.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
American Instrument Co., Inc.
Bendix Aviation Corp.
Branson Instruments, Inc.
Daystrom Inc., Weston Instruments Div.
J. W. Dice Co.
Djeco, Div.-Djordjevic Engrg. Co.
Gardner Laboratory, Inc.
General Electric Co., Apparatus Sales Div.
Lea Mfg. Co., The
Magnaflux Corp., Sub.-General Mills, Inc.
Southwest Research Institute
Unit Process Assemblies, Inc.

THORIUM

American Potash & Chemical Corp.
American Potash & Chemical Corp., National Northern Div.
Associated Engrg. & Mfg. Corp.
Cerium Metals & Alloys Div.-Ronson Metals Corp.
City Chemical Corp.
Delta Chemical Works, Inc.
W. R. Grace & Co., Davison Chem Div., Nuclear Reactor Mat. Plant
Metal Hydrides Inc.
NUMEC-Nuclear Materials & Equipment Corp.
United Mineral & Chemical Corp.
Var-Lac-Old Chemical Co.
Westinghouse Electric Corp.

THRUST CHAMBERS

ACF Industries Inc.
***AEROJET-GENERAL CORP.**
Aeroscience, Inc.
Allied Research & Engrg., Div.-Allied Record Mfg. Co.
Allison Div., General Motors Corp.
B. H. Aircraft Co., Inc.
Basic Tool Industries, Inc.
Bermite Powder Co.

Brunswick Balke Collender Co., The, Defense Products Div.
Cosmic Instruments Inc.
Gabriel Co., Rocket Power-Talco
General Electric Co., Rocket Engine Section
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Janke & Co. Inc.
Kaiser Fleetwings, Inc.
Lithium Corp. of America Inc., The Fulton-Irgon Div.
Marquardt Corp., The
McGregor Mfg. Corp.
George L. Nankervis Co.
Norris-Thermador Corp.
Ordnance Engrg. Associates, Inc.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Portland Copper & Tank Works Inc.
Pratt & Whitney Aircraft Div., United Aircraft Corp.
Rimak, Inc.
Space Corp.
Spaceatomics Div., The Budd Co.
Vac-Hyd Processing Corp.
Westhoff Mfg. Inc.

THRUST MEASURING INSTRUMENTS

Aero Research Instrument Co. Inc.
Aeroscience, Inc.
American Instrument Co., Inc.
Baldwin-Lima-Hamilton Corp., Electronics & Instrumentation Divs.
Beacon Steel Corp.
Bermite Powder Co.
A. Biederman, Inc.
Bytrex Corp.
Consolidated Controls Corp.
Falcon Machine & Tool Co.
Gilmore Industries, Inc.
Hagan Chemicals & Controls Inc.
Highland Engrg. Co.
Instrument Div., The Budd Co.
Integrated Dynamics Div., Globe Industries, Inc.
Janke & Co. Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Lear, Inc.
Mitchell Camera Corp.
Ordnance Engrg. Associates, Inc.
Ordnance Research & Development Co., Div.-Bermite Powder Co.
Schaevitz Engrg.
Servomechanisms, Inc.
Space Corp.
Wiancko Engrg. Co.

TIMERS

- a. Automatic Cycle
- b. Automatic Reset
- c. Automatic Sequence
- d. Clock Radio
- e. Counting
- f. Cycle
- g. Electronic
- h. Hour Counting
- i. Impulse
- j. Inertia
- k. Interval
- l. Motor Operated
- m. Multicontact
- n. Percentage
- o. Sequence
- p. Special
- q. Thermal
- r. Welding, Electronic

***ABRAMS INSTRUMENT CORP., a, b.**
Accessory Controls & Equipment Corp., I.
Aero Instruments Co., h, k.
Agastat Timing Instruments-Elastic Stop Nut Corp. of America, a, b, c, f, i, m.
Allegany Instrument Co., Inc., g.
American Electronics Inc., Teller-Cooper Div. & Data Systems Div., I, m.
American Missile Products Co., Inc., g.
Amglo Corp., a, b, c, e, k, l, m, o, p.
Automatic Timing & Controls, Inc., a, b, c, e, f, g, i thru p, r.
Autotron, Inc., g.
Baird-Atomic, Inc., b.
E. Bauches S. A., Freeport Engrg. Co., c, f, g, h, p.
Beattie-Coleman, Inc., m, p.
Beckman Instruments, Inc., Berkeley Div., a, b, e, f, g, k.
Beckman-Systems Div., g.
Beckman & Whitley, Inc., Missile Products Div.

Belock Instrument Corp., a, c, g, i, o, p.
 Bendix Aviation Corp., j.
 Bendix Aviation Corp., Cincinnati Div., g, p.
 Bendix-Pacific Div., Bendix Aviation Corp., c, f, k, l, o.
 Bendix Utica Div., Bendix Aviation Corp., a, b, g, o.
 Bergen Labs., Inc., p.
 Bermite Powder Co., k.
 Bernco Engrg. Corp., a, b, c, f, l, m, p.
 Branson Corp., a, b, c, e, f, g, i, k, m, o, p, q.
 *BRISTOL CO., THE, a, b.
 Bristol Motors Div.-Vocaline Co. of America, Inc., a, c, h, k thru p.
 Bulova Research & Development Labs. Inc., a, b, c, g, i, k, l, o, p.
 Cameraflex Div., The Federal Mfg. & Engrg. Corp.
 Carleton Aviation Co., Inc., a, o.
 Chalco Engrg. Corp., c, g, m, o.
 Clark Controller Co., The, g.
 Cleveite Ordnance, Div.-Clevite Corp., g, m.
 Cramer Controls Corp., a, b, c, f, h, i, k thru p.
 Daystrom Inc., Pacific Div., a, b, c, g, l.
 Daystrom Inc., Weston Instruments Div., h.
 Delco Radio Div.-General Motors Corp., g, o, p.
 Deltron Inc., g.
 Designers for Industry, Inc., a, c, f, k, l, m, o, p.
 Destron Co., a, b, c, g, i, m, o, p.
 Henry G. Dietz Co., Inc., c, g, o, p.
 Digital Sensors Inc., c, k, o.
 Dimco-Gray Co., k, l.
 M. Ducommun Co.
 R. C. Dudek & Co., k, l, p.
 Dynamic Controls Corp., p.
 Dynatronics, Inc., g.
 Eagle Signal Co., a, b, c, e, f, g, i, k thru p.
 Eastman Kodak Co., k, p.
 Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., a, b, q.
 Eisler Engrg. Co., Inc., r.
 Electro Instruments, Inc., a, b, c, e, thru i, k, n, o, p.
 Electro-Mechanical Specialties Co., Inc., a, b, c, g, k, m, p.
 Electronic Control Corp., g.
 Electronic Engrg. Co. of California, g, p.
 Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, b, c, f, g, i thru l, o, p.
 Emertson, Sub-Emerson Radio & Phonograph Corp., a, b, c, g, i, q.
 Erie Resistor Corp., b, e, g, i, o.
 Eureka Williams Corp., q.
 Ewald Instruments, r.
 Exact Engrg. & Mfg. Inc., a, b, c, f, h, o.
 Farmer Electric Products Co., Inc., a, b, g.
 Fenske, Fedrick & Miller Inc., a, b, p.
 Flight Research, Inc., g.
 Food Machinery & Chemical Corp., Ordnance Div., g.
 Ford Instrument Co., Div.-Sperry Rand Corp., f, g.
 G-V Controls Inc., b, g, q.
 General Controls Co., a, b, c, e, thru i, k, l, m, o, p, q.
 General Devices, Inc., a, b, c, e, g, i, l, m.
 General Electric Co., Apparatus Sales Div., a, f, k, l.
 General Electric Co., Missile & Space Vehicle Dept., Pa.
 Gilfillan Bros. Inc., k, p.
 Gordon Enterprises, a, b, c, e, f, k, l, m, o, p.
 Greenleaf Mfg. Div., The Mandrel Ind. Inc., k.
 Guided Missile Div., The Firestone Tire & Rubber Co., g, p, q.
 B. H. Hadley, Inc., a, b, c, p.
 Hagan Chemicals & Controls Inc., a, g, o.
 Hagen Mfg. Co., a, b, c, e, f, i, k thru o.
 Hallcrafters Co., The, p.
 Hamilton Watch Co., Industrial Div.
 Hamilton Watch Co., Military Products Div., a, b, c, h thru m.
 Hammett-Mercury-Rex Div., d, l, r.
 A. W. Haydon Co., The, a, b, c, e, thru i, k, l, m, o, p.
 Heinemann Electric Co., b.
 Hewlett-Packard Co., g.
 I-L-S Instrument Div., The Meriam Instrument Co., a, b, e, f, g, i, k.
 Iconix Inc., a, b, c, e, f, g, i, k.
 Industrial Electronic Engineers, Inc., h, p.
 Industrial Timer Corp., a, b, c, f, h, k thru q.
 Ingraham Co., The, d, e, f, h, k, l, p.
 Integrated Dynamics Div., Globe Industries, Inc., a, b, c, e, j, k, l, q.

Interstate Electronics Corp., g, o.
 Janco Corp., i.
 Jordan Electronics, Div.-Victoreen Instrument Co., a, b, c, f, g, k, m, o, p.
 Kellogg Switchboard & Supply Co., Communications Div.-IT&T Corp., a, b, c, e, g, i, k, m, o, p.
 H. Koch & Sons, g, l, o, p.
 Labline, Inc.
 Lear, Inc., b, c, f, g, i thru m, o.
 Leland Airborne Products, Div.-American Machine & Foundry Co., h.
 Livingston Electronic Corp., q, r.
 Lockheed Aircraft Corp., Missiles & Space Div., c, o, p.
 Lundy Mfg. Corp., a, b, c, o, p.
 Lux Clock Mfg. Co., Inc., k, l, m, o, p.
 Lytle Corp., i, l, p.
 MEG Products, Div.-Mandrel Industries, Inc., g, o.
 P. R. Mallory & Co. Inc., a, b, c, f, g, i, k, l, m, o.
 Marion Instrument Div.-Minneapolis-Honeywell Regulator Co., h.
 *MARTIN CO., THE, DENVER DIV., c, i, k.
 Mead Specialties Co., Inc., a, c, l, o.
 National Cylinder Gas, Div.-Chemtron Corp., r.
 Naz-Dar Co., k.
 Northeastern Engrg. Inc., g, k.
 Northrop Corp., g, p.
 Norwalk Thermostat Co., q.
 Nuclear Development Corp. of America, h, k.
 Nuclear-Chicago Corp., b, f, k.
 Ordnance Research & Development Co., Div.-Bermite Powder Co., k.
 Pacific Mercury Electronics, c, i, p.
 Packard Bell Computer Corp., a, b, c, e, g.
 Parabam, Inc., c, h, l, m, o, p.
 Ralph M. Parsons Co., The, Electronics Div., g, p.
 Patterson Moos Research, Div.-Leesona Corp., a, b, g, i, j, k, o, p.
 Performance Measurements Co., g.
 Radiation Instrument Development Lab., Inc., a, g.
 *RADIO CORP. OF AMERICA, g.
 Raymond Engrg. Lab., Inc., j, p.
 Research Indsl. Lab. of Electronics, a, b, c, g, o.
 Sage-Craft, Inc., a, b, g, l, o.
 Sangamo Electric Co., k, l.
 Sciaky Brothers, Inc., a, b, c, e, f, g, r.
 SERVOMECHANISMS, INC., j.
 Sheffield Corp., The, Sub.-Bendix Aviation Corp., c.
 Southwest Research Institute, e, h, i, p.
 Southwestern Industrial Electronics Co., a, b, c, k, l, m, o, p.
 Spectrol Electronics Corp.
 Standard Electric Time Co., The, g, k, l, p.
 Herman H. Sticht Co., Inc., g, h, k.
 Stromberg-Carlson Div.-General Dynamics Corp., g, k.
 Sun Electric Corp., Aeronautical Div., p.
 Sunshine Scientific Instrument, g, k, p.
 Systron Corp., a, b, e, f, g, i, k.
 TRG, Inc., e.
 Telechrome Mfg. Corp., a, c, g, i, k, l, m, o, p.
 Telkor, Inc., f, g, k, l, o.
 Tempo Instrument Inc., a, b, c, e, f, g, i, k, o, p.
 Texas Instruments Inc., g, k, o.
 Tork Time Controls, Inc., k.
 Tracerlab Inc., b, e, p.
 Trepac Corp. of America, g, o, p.
 George Ulanet Co., q.
 United Control Corp.
 U. S. Science Corp., Div.-Topp Industries, Inc., a, b, c, g, k, o.
 Varo Mfg. Co., Inc., a, b, c, e, f, g, i, k, l, n, o, p.
 Vickers Inc., Electric Products Div., r.
 Vickers, Inc., Mich., p.
 Vocaline Co. of America Inc., a, b, c, f, h, k thru p.
 Voi-Shan Electronics, c, g, k, o.
 Walkirt Co., g, o.
 Wang Labs., Inc., m, o.
 Waugh Engrg. Co., g.
 Wells Industries Corp., a, b, e, p.
 Weltronic Co., c, e, g, o, r.
 Wickes Engrg. & Construction Co., g, h, k, p.
 G. C. Wilson & Co., a, b, c, g, k, o, p, r.

TIN & ALLOYS

Accurate Specialties Co. Inc.
 Alloys Unlimited Inc.
 Alpha Metals, Inc.
 American Brake Shoe Co.
 American Silver Co., Inc.

American Smelting & Refining Co.
 Belmont Smelting & Refining Works, Inc.
 Delta Chemical Works, Inc.
 Division Lead Co.
 Eutectic Welding Alloys Corp.
 Morris P. Kirk & Son, Inc.
 Metal & Thermit Corp.
 Semi-Elements, Inc.
 United Mineral & Chemical Corp.
 United States Steel Corp.
 Var-Lac-Oid Chemical Co.

TINNING, HOT DIPPED

Penn-Michigan Mfg. Corp.

TITANIUM

Airdrome Parts Co.
 American Silver Co., Inc.
 Bios Labs., Inc.
 Bram Metallurgical Chemical Co.
 Bridgeport Brass Co.
 Budd Co., The
 Calcor Corp.
 Chicago Bridge & Iron Co.
 Chicago Development Corp.
 Crucible Steel Co. of America
 Custom Tool & Mfg. Co.
 E. I. Du Pont De Nemours & Co. Inc.
 Engelhard Industries, Inc.
 Fanstel Metallurgical Corp.
 Hamilton Watch Co.-Industrial Div.
 Harvey Aluminum
 Johnston & Funk Metallurgical Corp.
 P. R. Mallory & Co. Inc.
 Mallory-Sharon Metals Corp.
 Metal Hydrides Inc.
 NUMEC-Nuclear Materials & Equipment Corp.
 Pfaudler Div., Pfaudler Permutit Inc.
 Republic Steel Corp.
 Rodney Metals Inc.
 Secon Metals Corp.
 Southwest Research Institute
 Standard Pressed Steel Co.
 Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.
 Steel Improvement & Forge, The
 Thompson Ramo Wooldridge Inc.
 Titanium Metals Corp. of America
 Union Carbide Metals Co., Div.-Union Carbide Corp.
 United Mineral & Chemical Corp.
 Universal-Cyclops Steel Corp.
 Vanadium Corp. of America
 Var-Lac-Oid Chemical Co.
 Wai Met Alloys Co.
 Wallingford Steel Co.
 Wyman-Gordon Co.

TOOLS, ALIGNMENT

Capital City Mfg. Co., Inc.
 Dulock, Inc.
 Ed-Berl Products, Inc.
 *ENGIS EQUIPMENT CO.
 G-C Electronics Co.
 Hunter Tool Co.
 Jonco Aircraft Corp., Sub.-Fairchild Engine & Airplane Corp.
 Keystone Electronics Corp.
 *MARTIN CO., THE, DENVER DIV.
 Pennsylvania Tool & Mfg. Co., The
 Richard Philip Co.
 C. M. Smillie & Co.
 Squiers Gage Co.
 Temco Aircraft Corp.
 Twix Mfg. Co., Inc.
 Warren-Knight Co.
 Western Tool & Mfg. Co., Inc.

TOOLS, HAND OR MECHANICAL

Acromark Co., The
 Air Speed Tool Co.
 Aircraft Tools, Inc.
 Airtool Mfg. Co., The
 H. D. Allen Mfg.
 Billings & Spencer Co., The
 The Black & Decker Mfg. Co., The
 Brown & Sharpe Mfg. Co.
 Buckeye Tools Corp.
 Calcor Corp.
 Capewell Mfg. Co.
 Chicago Rawhide Mfg. Co.
 Detroit Stamping Co.
 Dulock, Inc.
 Duro Specialty Co., Inc.
 Eyelet Tool Co. Inc.
 Forsberg Mfg., Co., The

G-C Electronics Co.
 B. F. Goodrich Aviation Products
 Greene, Tweed & Co.
 Hammett-Mercury-Rex Div.
 Handicraft Tools, Inc., Div.-X-Acto, Inc.
 Hell-Coil Corp.
 Hi-Shear Rivet Tool Co.
 Hunter Tool Co.
 Ideal Industries, Inc.
 Industrial Tools Mfg. Corp., Sub.-Pendleton
 Tool Industries, Inc.
 International Electronic Research Corp.
 B. Jadov Inc.
 Jo-Line Tools, Inc.
 Kelsey-Hayes Co.
 Kelsey-Hayes Co., Utica Drop Forge & Tool Div.
 Lantz Mfg. Co., Inc.
 *MARTIN CO., THE, DENVER DIV.
 Mathias Klein & Sons, Inc.
 Milbar Corp.
 Miller Falls Co.
 Moody Machine Products Co., Inc.
 Niagara Machine & Tool Works
 Onsrud Machine Works, Inc.
 Owatonna Tool Co. Precision Hydraulic Div.
 Pennsylvania Tool & Mfg. Co., The
 Proto Tool Co.
 Skyproducts
 C. M. Smillie & Co.
 Snap-On-Tools Corp.
 Squiers Gage Co.
 L. S. Starrett Co., The
 Superior Pneumatic & Mfg., Inc.
 B. K. Sweeney Mfg. Co.
 Taft-Peirce Mfg. Co., The
 Temco Aircraft Corp.
 Thor Power Tool Co.
 U. S. Industries, Inc.
 Vaco Products Co.
 Vascoloy-Ramjet Corp.
 Vlchek Tool Co.
 Waldes Kohinor, Inc.
 Wesrep Corp.
 Western Tool & Mfg. Co., Inc.

TOOLS

- a. Pneumatic Assembly
- b. Resistance Soldering
- c. Thermal Soldering
- d. Ultrasonic Soldering
- e. Wire Tapping

Aeronautical Machinists Inc., a.
 Aircraft Tools, Inc., a.
 Albertson & Co., Inc., a.
 H. D. Allen Mfg.
 Bendix Aviation Corp., a.
 Black & Decker Mfg. Co., The, a.
 Bowen-McLaughlin-York, Inc.
 Buchanan Electrical Products Corp.
 Buckeye Tools Corp., a.
 Burklyn Co., a.
 Circo Equipment Co., d.
 Circo Ultrasonic Corp., d.
 Cleco Air Tools, Div.-Reed Roller Bit Co., a.
 Detroit Stamping Co., a.
 Deutsch Co., The, Electronic Components Div., a.
 Eyelet Tool Co. Inc., a.
 Forsberg Mfg., Co., The
 Gardner-Denver Co., a.
 B. F. Goodrich Aviation Products, a.
 High Speed Hammer Co., Inc., The, a.
 Hi-Shear Rivet Tool Co., a.
 Ideal Industries, Inc., b.
 International Electronic Research Corp., c.
 *MARTIN CO., THE, DENVER DIV., a, b, c, e.
 Mc Kenna Labs., d.
 Modern Design Div.-H. C. Schloer, Inc., a.
 M. M. Newman Corp., c.
 Onsrud Cutter Mfg. Co., Inc.
 Pennsylvania Tool & Mfg. Co., The
 Skyproducts, a.
 C. M. Smillie & Co., a.
 Squiers Gage Co.
 Superior Pneumatic & Mfg., Inc., a.
 Temco Aircraft Corp., a.
 Thor Power Tool Co., a.
 U. S. Industries, Inc., a.
 United Supply Co., a.
 P. Wall Mfg. Co., c.
 Wassco Electric Products Corp., b.
 Wesrep Corp.

TOROIDS

ACDC Electronics, Inc.
 Acme Electric Corp.
 Airpax Electronics Inc., Cambridge Div.

Airpax Electronics Inc., Seminole Div.
 American Research & Mfg. Corp.
 Arnold Engrg. Co., The
 Atlas Engrg. Co., Inc.
 Ballastran, Div.-Telex, Inc.
 Barker & Williamson Inc.
 CGS Labs., Inc.
 Chicago Standard Transformer Corp.
 Coil Co. of America
 Control Circuits Inc.
 Control Electronics Co., Inc.
 De Havilland Aircraft of Canada, Ltd., Special
 Products Div.
 Double E Products Co.
 Dynacor, Inc.
 Eastern Rotorcraft Corp.
 Electro-Winders Co. Inc.
 Engrg. Specialties
 Erie Resistor Corp.
 Fairfield Engrg. Corp.
 Filtron Co., Inc.
 Forbes & Wagner, Inc.
 Freed Transformer Co., Inc.
 Fugle-Miller Labs. Inc.
 Guidance Controls Corp.
 Gulfton Industries, Inc.
 Donald C. Harder Co.
 Intercontinental Electronics Corp.
 Johnson Electronics Inc.
 Kwikset Powered Metal Products
 Lab for Electronics, Inc.
 Lycoming Div., Avco Corp.
 *MAGNAVOX CO., THE
 Magneto, Inc.
 Mid-West Coil & Transformer Co.
 Motorola, Inc.
 National Co., Inc.
 National Moldite Co.
 Philco Corp.-Govt. & Industrial Group
 Polyphase Instrument Co.
 Precision, Inc.
 Qutronic Transformer Corp.
 *RADIO CORP. OF AMERICA
 Radio Development & Research Corp.
 Railway Communications, Inc.
 Redman Electronics Corp.
 Rytrol Co., Inc.
 Sangamo Electric Co.
 Servo-Tek Products Co.
 Southwestern Industrial Electronics Co.
 Specialties, Inc.
 Standard Electronics Div.-Reeves Instrument
 Corp.
 Sunair Electronics, Inc.
 Telex, Inc.
 Torwico Electronics, Inc.
 Transformer Design, Inc. of Milwaukee
 Transformers, Inc.
 Tresco, Inc.
 Triad Transformer Corp.
 U. S. Science Corp., Div.-Topp Industries, Inc.
 Universal Toroid Coil Winding, Inc.
 Valor Instruments, Inc.
 Varo Mfg. Co., Inc.
 Virginia Electronics Co., Inc.
 A. W. Welch Mfg. Co., Inc.
 Westinghouse Electric Corp.
 Wheeler Electronic Corp., Sub.-Sperry Rand
 Corp.

TOWERS

- a. Antenna
- b. Missile

ACF Industries Inc., a.
 All Products Co., a.
 Allied International Corp., a.
 Allison Steel Mfg. Co., a, b.
 Alpar Mfg. Corp., a.
 American Machine & Foundry Co., b.
 American Machine & Foundry Co., Greenwich
 Engrg. Div., a, b.
 Antlab Inc., a, b.
 Beacon Steel Corp., a, b.
 Beaver-Advance Corp., a.
 Belmar Wheel & Machine Co., Inc., a.
 Bethlehem Steel Co., a.
 Birdair Structures, Inc., a.
 Blaw-Knox Equipment, Div.-Blaw-Knox Co., a, b.
 Calcor Corp., a, b.
 Chance Vought Aircraft, Inc., a, b.
 Chicago Bridge & Iron Co., b.
 Continental-Emsco Co., Div.-The Youngstown
 Sheet & Tube Co., a, b.
 Craig Systems, Inc., a.
 Crane Co., Special Products Div., a.

Dresser-Ideco Co., Div.-Dresser Industries, Inc.,
 a, b.
 E-Z Way Towers, Inc., a.
 Eastern Rotorcraft Corp.
 Emertron, Sub.-Emerson Radio & Phonograph
 Corp., a, b.
 General Bronze Electronics Corp., a.
 HRB-Singer, Inc., Sub.-Singer Mfg. Co., a.
 Lehigh Structural Steel Co., a, b.
 Lofstrand Co., The, a, b.
 MEG Products, Div.-Mandrel Industries, Inc., a.
 *MARTIN CO., THE, DENVER DIV., b.
 Microflect Co., Inc., a.
 Northeast Metals Industries, Inc., a.
 Opelika Welding, Machine & Supply Inc., a, b.
 Pacific Automation Products, Inc., a, b.
 Portland Copper & Tank Works Inc., a, b.
 *RADIO CORP. OF AMERICA, a, b.
 Robot Industries Inc., a.
 Rohm Mfg. Co., a.
 Sancor Corp., a, b.
 Seiscor, Div.-Seismograph Service Corp., a.
 Stainless Inc., a, b.
 Technical Appliance Corp., a.
 Thomas Mold & Die Co., a.
 Tower Construction Co., a.
 Tucson Instrument Corp., a.
 Twin Coach Co., Aircraft-Missiles, a, b.
 U. S. Pipe & Foundry Co., Steel & Tubes Div., a.
 United States Steel Corp., a, b.
 Waco Aircraft Co., a.
 Wells Industries Corp., a, b.
 Western Coil & Electrical Co., a.
 Wind Turbine Co., a.

TRACERS, SIGNAL

TRG, Inc.

TRACKING SYSTEMS

ACF Industries Inc.
 Admiral Corp.
 American Machine & Foundry Co., Government
 Products, N. Y.
 American Machine & Foundry Co., Greenwich
 Engr. Div.
 *ASKANIA-WERKE, U. S. BRANCH OFFICE
 Bendix Aviation Corp.
 Bermite Powder Co.
 Collins Radio Co.
 Cubic Corp.
 Davidson Optronics, Inc.
 De Havilland Aircraft of Canada, Ltd., Special
 Products Div.
 Allen B. Du Mont Labs., Inc.
 Eastman Kodak Co.
 Emertron, Sub.-Emerson Radio & Phonograph
 Corp.
 *EQUIPMENT DIV., RAYTHEON CO.
 J. W. Fecker Div., American Optical Co.
 Gates Radio Co.
 General Devices, Inc.
 General Electric Co., Heavy Military Electronics
 Dept.
 General Electric Co., Ordnance Dept.
 General Instrument Corp., Defense & Engrg.
 Products Group
 Gordon Enterprises
 Guided Missile Div., The Firestone Tire & Rub-
 ber Co.
 Hallicrafters Co., The
 Hoover Electronics Co.
 Huyck Systems Co.
 ITE Circuit Breaker Co., Special Products Div.
 Kollmorgen Optical Corp.
 Kollsman Instrument Corp., Sub.-Standard Coil
 Products Co. Inc.
 Land-Air Inc., Sub.-California Eastern Aviation,
 Inc.
 Librascope Div., General Precision, Inc.
 Litton Industries, Maryland Div.
 Lockheed Aircraft Corp., Missile & Space Div.
 Lockheed Electronics Co., Stavid Div.
 Northrop Corp.
 Optomechanisms Inc.
 Ordnance Research & Development Co., Div.-
 Bermite Powder Co.
 Packard Bell Computer Corp.
 Perkin-Elmer Corp.
 Philco Corp.-Govt. & Industrial Group
 Radiation, Inc.
 Radio Condenser Co.
 *RADIO CORP. OF AMERICA
 *RADIO CORP. OF AMERICA, DEFENSE
 ELECTRONICS PRODUCTS
 Radio Receptor Co., Inc., Sub.-General Instru-
 ment Corp.

Southwest Research Institute
Spectra Electronics Corp.
Sun Electric Corp., Aeronautical Div.
TRG, Inc.
Westinghouse Electric Corp.

TRANSCIVERS, PORTABLE

Acton Laboratories Inc.
Aeronautical Electronics, Inc.
Allied International Corp.
Budd Lewyt Electronics, Inc.
Collins Radio Co.
Communications Research Co.
Dalmo Victor Co., Div.-Textron, Inc.
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.
Electro-Voice, Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
Fla. Aircraft Radio & Marine
General Instrument Corp., Defense & Engrg. Products Group
Globe Electronics, Div.-Textron Electronics, Inc.
Guided Missile Div., The Firestone Tire & Rubber Co.
ITT Federal Div., International Telephone & Telegraph Corp.
Interstate Electronics Corp.
E. F. Johnson Co.
Land-Air Inc., Sub.-California Eastern Aviation, Inc.
Lear, Inc.
Lel, Inc.
***MAGNAVOX CO., The**
P. R. Mallory & Co. Inc.
Mason Electric Corp.
Motorola, Inc.
National Co., Inc.
Philco Corp.-Govt. & Industrial Group
Production Research Corp., Sub.-Radio Condenser Co.
Projects Unlimited, Inc.
Radalab Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Seiscor, Div.-Seismograph Service Corp.
Simmonds Aerocessories, Inc.
Spectra Electronics Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Tamar Electronics, Inc.
Virginia Electronics Co., Inc.
Westinghouse Electric Corp.

TRANSCIVERS, UHF

Admiral Corp.
Aeronautical Electronics, Inc.
Allied International Corp.
Bendix Aviation Corp.
Budd Lewyt Electronics, Inc.
Budelman Electronics Corp.
Collins Radio Co.
Curtiss-Wright Corp., Santa Barbara Div.
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
General Instrument Corp., Defense & Engrg. Products Group
Guided Missile Div., The Firestone Tire & Rubber Co.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
Land-Air Inc., Sub.-California Eastern Aviation, Inc.
Lear, Inc.
Lel, Inc.
Lockheed Electronics Co., Stavdiv Div.
***MAGNAVOX CO., THE**
Mason Electric Corp.
Motorola, Inc.
National Co., Inc.
Packard-Bell Electronics Corp.
Philco Corp.-Govt. & Industrial Group
RS Electronics Corp.
Radalab Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.

Simmonds Aerocessories, Inc.
Southwest Research Institute
Spectra Electronics Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Tamar Electronics, Inc.
Telechrome Mfg. Corp.
Tower Construction Co.
Westinghouse Electric Corp.

TRANSCIVERS, VHF

Aeronautical Electronics, Inc.
Allied International Corp.
American Electronics, Inc.
Bendix Aviation Corp.
Bendix Aviation Corp., Cincinnati Div.
Budd Lewyt Electronics, Inc.
Budelman Electronics Corp.
Chance Vought Aircraft, Inc.
Collins Radio Co.
Communications Research Co.
Designers for Industry, Inc.
Allen B. Du Mont Labs., Inc.
Dynatronics, Inc.
Emertron, Sub.-Emerson Radio & Phonograph Corp.
Fla. Aircraft Radio & Marine
Gates Radio Co.
General Instrument Corp., Defense & Engrg. Products Group
Globe Electronics, Div.-Textron Electronics, Inc.
Guided Missile Div., The Firestone Tire & Rubber Co.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
Lear, Inc.
Lel, Inc.
Lockheed Electronics Co., Stavdiv Div.
P. R. Mallory & Co. Inc.
Mason Electric Corp.
Motorola, Inc.
Munston Electronic Mfg. Corp.
National Co., Inc.
Philco Corp.-Govt. & Industrial Group
Radalab Inc.
***RADIO CORP. OF AMERICA**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS**
Radio Receptor Co., Inc., Sub.-General Instrument Corp.
Seiscor, Div.-Seismograph Service Corp.
Simmonds Aerocessories, Inc.
Southwest Research Institute
Spectra Electronics Corp.
Standard Electronics Div.-Reeves Instrument Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Sun Electric Corp., Aeronautical Div.
Tamar Electronics, Inc.
Tower Construction Co.
U. S. Science Corp., Div.-Topp Industries, Inc.
Westinghouse Electric Corp.

TRANSDUCERS

a. Accelerometer
b. Flow
c. Industrial
d. Measurement
e. Position
f. Pressure
g. Sonar
h. Strain
i. Temperature
j. Vibration
ASCOP Div., Electro-Mechanical Research, Inc., f.
Acoustica Associates, Inc., b, d.
Aeroprojects Inc., c.
Aeroscience, Inc., b, d, f, h, j.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, f, i.**
American Machine & Foundry Co., Government Products, N. Y., c, d, f, g.
***ARNOUX CORP., i.**
Astra Tech, i.
Atlantic Research Corp., a thru j.
Automatic Timing & Controls, Inc., b thru f.
Automation Products, Inc., c, d.
Avien, Inc., b.
B & F Instruments, Inc., a.
B & K Instruments, Inc., a.
Baldwin-Lima-Hamilton Corp., Electronics & Instrumentation Divs., e, f, h.
Barber-Colman Co., i.

Beckman & Whitley, Inc., Instrument Div., i.
Beech Aircraft Corp., f.
Bell & Gossett Co., e.
Belock Instrument Corp., a, f.
Bendix Aviation Corp., a thru g, i, j.
Bendix Aviation Corp.-Montrose Div., e, f.
Bendix-Pacific Div., Bendix Aviation Corp., d, g.
A. Biederman, Inc., a, b, f, i.
Bogue Electric Mfg. Co., d, g.
Bourns, Inc., a, e, f.
Branson Instruments, Inc.
***BRISTOL CO., THE, b, f.**
Brush Instruments, Div.-Clevite Corp., d, e.
Budd Co., The, c, d, f, h.
Bulova Research & Development Labs., Inc., f.
Bytrec Corp., h.
Clark Electronic Laboratories, a thru f, h, j.
Clevite Ordnance, Div.-Clevite Corp., d, f, g.
G. L. Collins Corp., e, h.
Colvin Labs, Inc., c, f.
Computer Instruments Corp., a, c, f, j.
Consolidated Controls Corp., b, f, i.
***CONSOLIDATED ELECTRODYNAMICS CORP., a, d, f, h, j.**
Control Data Corp., a, d, e.
Convaiv Instruments, Convaiv Div.-General Dynamics Corp., i.
Cox Instruments Div., George L. Nankervis Co., b.
Crescent Engrg. & Research Co., b thru f, h, i.
Curtiss-Wright Corp., Princeton Div., g.
Daystrom Inc., Pacific Div., a thru g.
Daystrom Inc., Transcoil Div., a, e.
Daytronic Corp., d, e, h.
Decker Corp., The, c, d, f, j.
Dejaur-Amsco Corp., Electronic Sales Div., d.
***DEL MAR ENGRG. LABS., b.**
Henry G. Dietz Co., Inc., f.
Digital Sensors Inc., d, e, f.
Dynisco, Inc., b, c, f, h.
Eastman Kodak Co.
Edliff Instruments, a, d, e, f.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., f, i.
Edco Corp., g.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a.
Emertron, Sub.-Emerson Radio & Phonograph Corp., d, f, g.
Endevco Corp., a, f, j.
Enelhard Industries, Inc., i.
***EQUIPMENT DIV., RAYTHEON CO., g.**
Era Engrg. Inc., a.
Erie Resistor Corp., g.
Fairchild Controls Corp., a, f.
Fairchild Controls Corp., Components Div., a, b, e, f.
Fenwal Electronics, Inc., b, i.
Fenwal Inc., i.
Fischer & Porter Co., b, f, i.
General Electric Co., Apparatus Sales Div., b, i.
General Electric Co., Heavy Military Electronics Dept., g.
General Instrument Corp., Defense & Engrg. Products Group, c, f, g, i.
Genisco, Inc., a, f, j.
Genisco, Inc., Instrument Div., a.
Glasco Instrument Co., f.
Gray Mfg. Co., The, a.
Guided Missile Div., The Firestone Tire & Rubber Co., a, f.
Gulton Industries, Inc., a, b, f, g, i, j.
Hagan Chemicals & Controls Inc., e, f.
Hamlin, Inc., a.
George E. Harris & Co., Inc., a, e, f.
Haskel Engrg. & Supply Co., f.
Illinois Testing Laboratories, Inc., i.
Instrument Div., The Budd Co., c, d, h, i.
Integrated Dynamics Div., Globe Industries, Inc., a, e.
Kahn & Co., Inc., c, i.
***KEARFOTT DIV., GENERAL PRECISION, INC., a.**
Keystone Carbon Co., i.
Kistler Instrument Corp., a, c, f, j.
Kollman Instrument Corp., Sub.-Standard Coil Products Co. Inc., e, f.
L & R Mfg. Co., c.
Land-Air Inc., Sub.-California Eastern Aviation, Inc., j.
Lear, Inc., a thru j.
Leeds & Northrup Co., i.
***WALLACE O. LEONARD, INC., a, b, d, e, f, j.**
***LEWIS ENGRG. CO., THE, i.**
Liquidometer Corp., The, d, e.

Litton Industries, Inc., a.
 Lockheed Aircraft Corp., Missiles & Space Div., a, d, e, f, h, i, j.
 MB Electronics, g, j.
 Maico Electronics, Inc., g.
 *MARTIN CO., THE, DENVER DIV., a, b, d, e, f, h, i, j.
 Mason-Neilan, f.
 Massa Div.-Cohu Electronics, Inc., a, f, g, j.
 Micro Gee Products, Inc., d.
 Minatron Corp., d, e.
 Mitchell Camera Corp., f, i.
 Motorola, Inc., g.
 George L. Nankervis Co., b.
 Narda Ultrasonics Corp., The, g.
 National Ultrasonic Corp.
 Nilsen Mfg. Co., d.
 Norden Div., United Aircraft Corp., b, e, i.
 Northrop Corp., a.
 Pace Engrg. Co., a thru d, f.
 Pacific Scientific Co., a.
 Patterson Moos Research, Div.-Leesona Corp., f.
 Performance Measurements Co., b, c, d, f, h, i.
 Photon Research Products, f.
 Piasecki Aircraft Corp., h.
 Pickering & Co., Inc., e.
 Polyphase Instrument Co., h.
 Potter Aeronautical Corp., b.
 Radio Condenser Co., i.
 *RADIO CORP. OF AMERICA, g.
 Radio Development & Research Corp., d, g.
 Rahm Instruments Div.-American Machine & Metals, a thru d, f, g.
 Research Controls, b, f.
 Research, Inc., a, e.
 Revere Corp. of America, Sub., Neptune Meter Co., b, f, i.
 Rosemount Engrg. Co., a, f, i.
 Sangamo Electric Co., g.
 Scanivalve Co., f.
 Schaevitz Engrg., a thru f.
 Servomechanisms, Inc., d, f, i.
 Servonic Instruments, Inc., e, f.
 Servo-Tek Products Co.
 Sheffield Corp., The, Sub.-Bendix Aviation Corp., d.
 Solar Mfg. Corp., a, c, g, j.
 Sonotone Corp., j.
 Southwest Research Institute, a thru f, h, i, j.
 Southwestern Industrial Electronics Co., j.
 Special Products Dept., Melpar, Inc., a, f, i.
 Spectrol Electronics Corp., e.
 Standard Controls, Inc., b, f.
 Statham Development Corp., a, f, i.
 Statham Instruments, Inc., a thru f, h, j.
 Stephens Trusonic, f.
 Stromberg-Carlson Div.-General Dynamics Corp., g.
 Sun Electric Corp., Aeronautical Div., j.
 B. K. Sweeney Mfg. Co., d, e, i.
 TRG, Inc., g.
 *TABER INSTRUMENT CORP., f, i.
 Technology Instrument Corp., a, d, e, f.
 Telecome Mfg. Corp., b thru f, h, i.
 Telex, Inc.
 Texas Instruments Inc., g.
 Trans-Sonics, Inc., b, d, f, h, i.
 Ultradyne, Inc., f.
 Unholtz-Dickie Corp., g, j.
 United Control Corp., e, f, i.
 U. S. Science Corp., Div.-Topp Industries, Inc., a, e, f, i.
 U. S. Sonics Corp., a, c thru g.
 United States Time Corp., a.
 Universal Dynamics Corp., f.
 Universal Toroid Coil Winding, Inc., d.
 Valpey Crystal Corp., f.
 Victory Engrg. Corp., i.
 Vinson Mfg. Co., Inc., b thru f.
 Waugh Engrg. Co., b.
 Wells Industries Corp., c, d, e, i.
 Westinghouse Electric Corp., g.
 Westport Development & Mfg. Co., Inc., f, i.
 Wiancko Engrg. Co., a, f.

Janitrol Aircraft Div.-Midland-Ross Corp. Lear, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Raven Industries Inc.
 Standard Steel Corp., Cambridge Div.
TRANSFORMER WINDINGS
 ACDC Electronics, Inc.
 Acme Electric Corp.
 Advanced Electronics, Inc.
 Allen Electric & Equipment Co.
 Arnold Magnetics Corp.
 Coil Co. of America
 Communication Accessories Co.
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Electronic Transformer Co., Inc.
 Electro-Winders Co., Inc.
 Ferrotran Electronics Co., Inc.
 Forest Electric Co., the
 Fugle-Miller Labs. Inc.
 Lear, Inc.
 Leece-Neville Co., The
 Merit Coil & Transformer Corp.
 Mid-West Coil & Transformer Co.
 National Coil Co.
 Palo Alto Engrg. Co.
 Permoflux Products Co.
 Polyphase Instrument Co.
 Rimak, Inc.
 J. R. Robbins Co.
 Standard Electronics Div.-Reeves Instrument Corp.
 Stewart-Warner Electronics Div.
 Telechrome Mfg. Corp.
 Topper Mfg. Co., Inc.
 Torwico Electronics, Inc.
 Transformer Specialty Co.
 Transformers, Inc.
 Triad Transformer Corp.
 U. E. Electronics Corp.
 Virginia Electronics Co., Inc.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp.
TRANSFORMERS
 a. Audio
 b. Fly Back
 c. Foil Wound
 d. General
 e. High Voltage Power Supply
 f. Instrument
 g. Miniature
 h. Output
 i. Power
 j. Precision Voltage Dividing
 k. Pulse
 l. Rf & if
 m. Ultrasonic
 ACDC Electronics, Inc., a, d thru l.
 ACF Industries Inc., a, d, g, h.
 ADC Inc., a thru k, m.
 AMP Inc., e, k.
 A. P. W. Co., g, h.
 Ace Coil & Electronics Co., k, l.
 Acme Electric Corp., d, e, g, i, k.
 Airpac Electronics Inc., Cambridge Div., a, f thru i, k.
 Aladdin Electronics, Div.-Aladdin Industries Inc., g, k, l.
 Allen Electric & Equipment Co., d, i.
 American Machine & Foundry Co., Government Products Group, c.
 American Rectifier Corp., d, e, i.
 R. B. Annis Co., f.
 Applied Radiation Corp., e, k.
 Arnold Magnetics Corp., a, d thru i.
 *ARNOUX CORP.
 Associated Engineers, Inc., d, j.
 Atlas Engrg. Co. Inc., a, c thru k, m.
 Ballastran, Div.-Telex, Inc., a, c, d, e, g, h, i, k.
 Barker & Williamson Inc., a, g, l.
 Barry Electronics Corp., i.
 Barwood Electronics Inc., a, d, f thru i.
 Bendix Aviation Corp., f, g.
 Berkshire Transformer Corp., a, d thru j, l.
 Boque Electric Mfg. Co., d, e, g, h, i.
 CG Electronics Corp., g, k.
 CGS Labs., Inc., l.
 Cable Electric Products Inc., d, h, i.
 Caledonia Electronics & Transformer Corp., a, e, g thru k.
 Cambridge Thermionic Corp., a, l.
 Carol Electronics Corp., a, d, f, i.

Central Transformer Co., a, c thru i, m.
 Chicago Electronic Engrg. Co., Inc., a, d, f, g, i, j.
 Chicago Standard Transformer Corp., a, b, d, f thru i, k.
 Circo Equipment Co., m.
 Circo Ultrasonic Corp., m.
 Coil Co. of America, a, c thru m.
 G. L. Collins Corp., j.
 *COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO., a, d thru m.
 Communication Accessories Co., a, c, d, e, g thru k.
 Crest Transformer Corp., a, d thru i.
 Custom Magnetics Inc., a, d, e, h, i.
 Cycle Transformer Corp., a, d thru k, m.
 Daystrom Inc., Weston Instruments Div., f, j.
 De Havilland Aircraft of Canada, Ltd., Special Products Div., g, i.
 Del Electronics Corp., e, g, h, i.
 Delco Radio Div.-General Motors Corp., f, g.
 De Witt Development Co., i.
 Dinion Coil Co., Inc., a, d thru i, k.
 Djaco, Div.-Djordjevic Engrg. Co., a, d thru k.
 Double E Products Co., a thru m.
 ESC Corp., k.
 Eagle Electric Mfg. Co. Inc., d.
 Edgerton, Germeshausen & Grier, Inc., e, k.
 Eisler Engrg. Co., Inc., e, i.
 Electro Engrg. Works, a, d, e, g, i.
 Electronic Coils, Inc., j.
 Electronic Transformer Co., Inc., a, c, d thru k, m.
 Electroslids Corp., g, i.
 Electro-Winders Co. Inc., d, f, g, k, l.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., a, e, j thru m.
 Epco Products Inc., a, d, f thru i, k, m.
 Erie Resistor Corp., g, k.
 FXR, Inc., k.
 Ferrotran Electronics Co., Inc., a, g, h, i.
 Filtron Co., Inc., k.
 Fisher Engrg., Inc., d, e, g thru m.
 Forbes & Wagner, Inc., b, k, l.
 Ford Instrument Co., Div.-Sperry Rand Corp., f, h, i, j.
 Forest Electric Co., The, a, d, h, i.
 Freed Transformer Co., Inc., a, d thru k, m.
 Fugle-Miller Labs. Inc., f, g, l, m.
 Gates Electronic Co., i.
 General Coil Products Corp., l, m.
 General Controls Co., f, i.
 General Electric Co., Apparatus Sales Div., d, e, f, i, k.
 Paul E. Gerst & Co., c, d.
 Gudeman Co., The, k.
 Hamilton Watch Co.-Industrial Div., g, k.
 Hammett-Mercury-Rex Div., d, e, i.
 Donald C. Harder Co., a, d, e, g, h, i, k, l.
 George E. Harris & Co., Inc., d, f thru i, l.
 Hazeltine Electronics Div.-Hazeltine Corp.
 Hewlett-Packard Co., f.
 A. F. Holden Co., The, d.
 Huyck Systems Co.
 IMC Magnetics Corp., k.
 Industrial Transformer Corp., d thru i, k.
 Instrudron Corp., e.
 Intercontinental Electronics Corp., d, g, i, k.
 *INTERELECTRONICS CORP., a, d thru i, m.
 Jack & Heintz, Inc., f, i.
 James Electronics Inc., a, f, g, j.
 Johnson Electronics Inc., g, k, l.
 Knopp Inc., f.
 Kolton Electric Mfg. Co., i.
 Lab. for Electronics, Inc., a, b, d thru i, k, l, m.
 Land-Air Inc., Sub.-California Eastern Aviation, Inc., e, i, j.
 Landis & Gyr, Inc., f.
 Langevin Div., The W. L. Maxson Corp., a, g thru j.
 Lear, Inc., a, d, f, g, i, j, l.
 Lee Electric & Mfg. Co., e.
 Leece-Neville Co., The, i.
 Line Material Industries-McGraw-Edison Co., i.
 Litton Industries, Inc.
 Lockheed Electronics Co., Stavid Div., a, e, h, i, k.
 Lumen, Inc., a, d, f, m.
 Magnetic Circuit Elements, Inc., a, d thru k.
 Merit Coil & Transformer Corp., a thru e, g, h, i, k, l.
 Microdot Inc., f thru i, k.
 Microfran Co., Inc., a, d, f, thru k, m.

TRANSFER EQUIPMENT
 American Machine & Foundry Co.
 American Machine & Foundry Co., Greenwich Engrg. Div.
 Byron Jackson Pumps, Inc.
 Cryogenic Engrg. Co.
 Flight Refueling, Inc.
 George Gorton Machine Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.

Mid-West Coil & Transformer Co., a, c thru k.
 James Millen Mfg. Co. Inc., l.
 J. W. Miller Co., e, g, l.
 Sanford Miller Co., i.
 Milro Controls Co., Inc., g, j.
 Modelectric Products Corp., g, k.
 National Coil Co., a, d, f thru j, l, m.
 National Co., Inc., k, l.
 Networks Electronic Corp., h, i.
 New England Transformer Co., Inc., a, c, d, g, h, i, k.
 New York Coil Co., Inc., a, d thru l.
 New York Transformer Co. Inc., a, d thru k, m.
 Notherfel Winding Labs. Inc., e, f, h thru m.
 Nytronic, Inc., Essex Electronics Div., a, g, h, k, l.
 Ortho Filter Corp., a, f thru k.
 Pacific Magnetic Corp., a, d, f thru k.
 Palo Alto Engr. Co., a, d thru k.
 Pearson Electronics, Inc., e, f, k.
 Penn-East Engr. Corp., a, g, h, i.
 Permoflux Products Co., a, d, e, g, h, i.
 Peschel Electronics, Inc., e.
 Polyphase Instrument Co., a, c, f thru l.
 Precise Development Corp., l.
 Pulse Engr. Inc., g, k.
 Qutronic Transformer Corp., a, c, d, f thru j.
 RS Electronics Corp., e, k, l.
 Radio Industries, Inc., l.
 Ramo-Wooldrige, Div.-Thompson Ramo Wooldrige Inc., d, g, j.
 Redman Electronics Corp., k, l, m.
 Rytiron Co., Inc., d, g, i thru l.
 Sangamo Electric Co., a, e thru k, m.
 Sciaky Brothers, Inc., e, i, k.
 Scientific Electric Inc., e, i.
 Servomechanisms, Inc., a, e, g thru j.
 Servo-Tek Products Co., f, g.
 Sonotone Corp., g.
 Southwestern Industrial Electronics Co., d thru l.
 Specialties, Inc., k.
 Spellman High Voltage Co., e.
 Standard Electronics Div.-Reeves Instrument Corp., a, d thru m.
 Standard Winding Co., Inc., l.
 Sterling Transformer Corp., a, d thru k, m.
 Stewart-Warner Electronics Div., k, l.
 Sunair Electronics, Inc., l.
 Sunshine Scientific Instrument, f.
 Superior Electric Co., The, d, i.
 Technical Apparatus Builders, d, e, h, i.
 Technitrol Engr. Co., k.
 Tele Coil Co., b, g, l.
 Telechrome Mfg. Corp., d, h, i, l.
 Telectro Industries Corp., a, d, f, h, i, k.
 Telex, Inc., a, d, e, g, h, k.
 Thermador Electrical Mfg. Co., a, d thru k, m.
 Topper Mfg. Co., Inc., d, f, g, h.
 Torwico Electronics, Inc., a, f thru j.
 Transformer Design, Inc. of Milwaukee, a, c thru k, m.
 Transformer Specialty Co., d, i.
 Transformers, Inc., a, c thru k, m.
 Trenton Transformer Corp., d, e, f, h, i.
 Tresco, Inc., a, c, d, f thru i, k.
 Triad Transformer Corp., a thru k.
 U. E. Electronics Corp., a, d, e, g, h, i, l, m.
 U. S. Science Corp., Div.-Topp Industries, Inc., d, g, j.
 Universal Toroid Coil Winding, Inc., g.
 Universal Transistor Products Corp., e, g, i.
 Valor Instruments, Inc., a, g, k, l.
 Vanguard Electronics Co., l.
 Varo Mfg. Co., Inc., a thru l.
 Vernistat Div., The Perkin-Elmer Corp., j.
 Virginia Electronics Co., Inc., a, c thru l, l.
 Wahlgren Magnetics, Div.-Marshall Industries, a, e, g thru k, m.
 Wesrep Corp., e, f, i, l.
 Westinghouse Electric Corp., a, d thru i, k, l.
 Wheeler Electronic Corp., Sub.-Sperry Rand Corp., a, d, g, h, i, k.

TRANSISTORS

- a. Germanium
- b. Germanium, Power
- c. Photo
- d. Silicon
- e. Silicon, Power
- f. Switching

g. Tetrode

Amperex Electronic Corp., a thru f.
 Associated Engineers, Inc.
 Bendix Aviation Corp., a, b, f.
 Bendix Aviation Corp.-Semiconductor Products, Red Bank Div., a, b, f.
 Bogue Electric Mfg. Co., d, e.
 Britton Electronics Corp., d, f.
 CBS Electronics, Div.-Columbia Broadcasting System, Inc., a, b, f.
 Calvert Electronics Inc., a, d.
 Cleviste Transistor Products, Div.-Clevite Corp., a, b, f.
 Cornell-Dubilier Electric Corp., a.
 Crystallonics Inc., d.
 Delco Radio Div.-General Motors Corp., a, b, d, e, f.
 *DEL MAR ENGRG. LABS.
 Djeco, Div.-Djordjevic Engrg. Co.
 Fairchild Semiconductor Corp., d, e, f.
 General Electric Co. Ltd. of England, a, b, d thru g.
 General Transistor Corp., a, c, d, f.
 Hammett-Mercuro-Rex Div., a, b, d, e, f.
 George E. Harris & Co., Inc., d, e.
 Hoffman Electronics Corp., Semiconductor Div., d, e, f.
 Hughes Semiconductor Div.-Hughes Aircraft Co., a, b, d, e, f.
 Wayne Kerr Corp.
 Lear, Inc., a, d, e, f.
 Minneapolis-Honeywell Regulator Co., Semiconductor Products Div., a, b, d thru g.
 Motorola, Inc., a, b, d thru g.
 Philco Corp.-Govt. & Industrial Group, a thru f.
 Philco Corp., Lansdale Div., a, b, d, f.
 *RADIO CORP. OF AMERICA, a thru g.
 *RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, a, b.
 Radio Development & Research Corp., a, d.
 Rauland Corp., The, a, f.
 *SEMICONDUCTOR DIV., RAYTHEON CO., a, b, d, e, f.
 Silicon Transistor Corp., d, e.
 Sperry Semiconductor Div., Sperry Rand Corp., d, f.
 Sprague Electric Co., a, d, f.
 Sylvania Electric Products Inc., Sylvania Electronic Tubes Div., a, b, d, e, f.
 Sylvania Semiconductor Div., Sylvania Electric Products Inc., a, b, f.
 TRG, Inc., d, e.
 Technical Apparatus Builders, d.
 Texas Instruments Inc., a thru g.
 Transiron Electronic Corp., a, d thru g.
 Trans-Sil Corp., e.
 Tung-Sol Electric, Inc., a, b, f.
 Westinghouse Electric Corp., b thru f.

TRANSMISSION LINE, WIRE & CABLE

Aluminum Co. of America
 American Super-Temperature Wires, Inc.
 *ANDREW CORP.
 William Brand, Rex Div.-American Enka Corp.
 Cable Electric Products Inc.
 Dayton Aircraft Products, Inc.
 Jefferson Electronic Products
 Kaiser Aluminum & Chemical Sales, Inc.
 Leviton Mfg. Co., Inc.
 MEG Products, Div.-Mandrel Industries, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Phelps Dodge Copper Products Corp.
 Prodelin Inc.
 *RADIO CORP. OF AMERICA
 Reynolds Metals Co.
 Rome Cable Div.-Alcoa
 Southwire Co.
 Surprenant Mfg. Co.
 Tamar Electronics, Inc.
 Telcon, Inc.
 Vector Mfg. Co.
 Victor Electric Wire & Cable Corp.

TRANSMISSION LINES, MICROWAVE

Airtron, Div.-Littion
 *ANDREW CORP.
 Bogart Mfg. Corp.
 Collins Radio Co.
 Diamond Antenna & Microwave Corp.
 Douglas Microwave Co., Inc.
 Emerson, Sub.-Emerson Radio & Phonograph Corp.
 General Bronze Electronics Corp.
 Gilfillan Bros. Inc.
 Gorham Electronics-Div.-Gorham Mfg. Co.

Kaiser Aluminum & Chemical Sales, Inc.
 Lieco, Inc.
 *MARTIN CO., THE, DENVER DIV.
 Meridian Metalcraft, Inc.
 Microwave Associates, Inc.
 Omega Labs, Inc.
 Phelps Dodge Copper Products Corp.
 Philco Corp.-Govt. & Industrial Group
 Prodelin Inc.
 Radar Design Corp.
 *RADIO CORP. OF AMERICA
 Sanders Associates, Inc.
 TRG, Inc.
 Technicraft, Div.-Electronic Specialty Co.
 Transco Products, Inc.
 Victor R. F. & Microwave Co.
 Waveline, Inc.

TRANSMITTERS

Adler Electronics, Inc.
 Aeronautical Electronics, Inc.
 Allied International Corp.
 Amerac Inc.
 American Missile Products Co., Inc.
 Babcock Radio Engrg., Inc.
 Blonder-Tongue Labs. Inc., Special Products Div.
 Budd Lewyt Electronics, Inc.
 Budelman Electronics Corp.
 Burton-Rodgers, Inc.
 CG Electronics Corp.
 Collins Radio Co.
 Communications Research Co.
 Continental Electronics Mfg. Co., Sub.-Ling-Altec Electronics Inc.
 Crosby-Teletronics Corp.
 Daven Co., The
 Designers for Industry, Inc.
 Dorsett Electronic Labs., Inc.
 Du Kane Corp.
 Allen B. Du Mont Labs, Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 *EQUIPMENT DIV., RAYTHEON CO.
 Fla. Aircraft Radio & Marine
 Gates Radio Co.
 General Devices, Inc.
 General Instrument Corp., Defense & Engrg. Products Group
 Globe Electronics, Div.-Textron Electronics, Inc.
 Gonset Div.-Young Spring & Wire Corp.
 Gorham Electronics-Div.-Gorham Mfg. Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hallicrafters Co., The
 Hazeltine Electronics Div.-Hazeltine Corp.
 ITI Electronics, Inc.
 ITT Federal Div., International Telephone & Telegraph Corp.
 Interstate Electronics Corp.
 Kahn Research Labs., Inc.
 Lear, Inc.
 Lenkurt Electric Co., Inc.
 Levinthal Electronic Products, Inc.
 Litton Industries, Maryland Div.
 *MAGNAVOX CO., THE
 Manson Labs, Inc.
 Mason Electric Corp.
 W. L. Maxson Corp., The
 James Millen Mfg. Co. Inc.
 Motorola, Inc.
 Munston Electronic Mfg. Corp.
 National Co., Inc.
 Nevada Air Products Co.
 Northrop Corp.
 Philco Corp.-Govt. & Industrial Group
 Production Research Corp., Sub.-Radio Condenser Co.
 Radiation, Inc.
 Radio City Products Co., Inc.
 *RADIO CORP. OF AMERICA
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Seeburg Corp., The
 Seiscor, Div.-Seismograph Service Corp.
 Skiatron Electronics & Television Corp.
 Specialties, Inc.
 Spectra Electronics Corp.
 Sperry Gyroscope Co., Div.-Sperry Rand Corp.
 Standard Electronics Div.-Reeves Instrument Corp.
 Stewart-Warner Electronics Div.
 Stromberg-Carlson Div.-General Dynamics Corp.
 Sun Electric Corp., Aeronautical Div.
 Technical Materiel Corp., The
 Telechrome Mfg. Corp.
 Telectro Industries Corp.
 Texas Instruments Inc.

Virginia Electronics Co., Inc.
Westinghouse Electric Corp.
Wheeler Electronic Corp., Sub-Sperry
Rand Corp.
Winder Aircraft Corp. of Florida

**TRANSMITTERS, PORTABLE & MOBILE
RADIOTELEPHONE**

Adler Electronics, Inc.
Aeronautical Electronics, Inc.
Allied International Corp.
Blonder-Tongue Labs. Inc., Special
Products Div.
Budd Lewyt Electronics, Inc.
Burton-Roogers, Inc.
Collins Radio Co.
Communications Co.
Communications Research Co.
Daven Co., The
Designers for Industry, Inc.
Emerton Sub-Emerson Radio & Phonog-
raph Corp.
Fla. Aircraft Radio & Marine
General Instrument Corp., Defense &
Engrg. Products Group
Globe Electronics, Div.-Textron
Electronics, Inc.
Gonser Div.-Young Spring & Wire Corp.
Guided Missile Div., The Firestone Tire
& Rubber Co.
Kahn Research Labs., Inc.
Lear, Inc.
Lenkurt Electric Co., Inc.
Mason Electric Corp.
Motorola, Inc.
Munston Electronic Mfg. Corp.
National Co., Inc.
Philco Corp.-Govt. & Industrial Group
Projects Unlimited, Inc.
***RADIO CORP. OF AMERICA**
Radio Receptor Co., Inc., Sub-General
Instrument Corp.
Radio Specialty Mfg. Co.
Soectra Electronics Corp.
Standard Electronics Div.-Reeves
Instrument Corp.
State Testing Laboratory Inc.
Stewart-Warner Electronics Div.
Stromberg-Carlson Div.-General
Dynamics Corp.
Sun Electric Corp., Aeronautical Div.
Virginia Electronics Co., Inc.

TRANSPONDERS

ACF industries Inc.
Advance industries, Inc.
Avion, Inc.
Budd Lewyt Electronics, Inc.
Collins Radio Co.
Cupic Corp.
Emerton Sub-Emerson Radio &
Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
General Instrument Corp., Defense &
Engrg. Products Group
Guided Missile Div., The Firestone Tire
& Rubber Co.
George E. Harris & Co., Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Hoover Electronics Co.
***HORKEY-MOORE ASSOCIATES, SUB-
HOUSTON FEARLESS CORP.**
ITT Federal Div., International Telephone
& Telegraph Corp.
Lear, Inc.
***MAGNAVOX CO., THE**
W. L. Maxson Corp., The
Motorola, Inc.
Packard-Bell Electronics Corp.
Ralph M. Parsons Co., The, Electronics
Div.
Production Research Corp., Sub-Radio
Condenser Co.
RS Electronics Corp.
Radio Receptor Co., Inc., Sub-General
Instrument Corp.
Sanders Associates, Inc.
Sperry Gyroscope Co., Div.-Sperry Rand
Corp.
Stewart-Warner Electronics Div.
Sun Electric Corp., Aeronautical Div.
Tamar Electronics, Inc.
Telchrome Mfg. Corp.
Texas Instruments Inc.
Wells Industries Corp.

TRANSPORT UNITS

Basic Tool Industries, Inc.
***BENDIX PRODUCTS DIV., BENDIX
AVIATION CORP.**

Caterpillar Tractor Co., Defense Products
Dept.
Craig Systems, Inc.
Crane Carrier Corp.
Douglas Aircraft Co., Inc.
Food Machinery & Chemical Corp.,
Ordnance Div.
Freuhauf Trailer Co., Military Equipment
Div.
Gremco, Inc.
International Steel Co.
Lyncoach & Truck Co. Inc.
***MARTIN CO., THE, DENVER DIV.**
Potter Instrument Co., Inc.
Pryor Mfg. Co.
Telectro Industries Corp.
Trailmobile Inc.
Weaver Mfg. Co., Div.-Dura Corp.
Wells Industries Corp.
Wolverine Diesel Power Co.

TRIM TABS

Breeze Corporations, Inc.
Fairchild Aircraft & Missiles Div.,
Fairchild Engine & Airplane Corp.
Lear, Inc.
Monrovia Aviation Corp.
Weber Aircraft Corp.

TRIPODS

Brooks & Perkins, Inc.
Cable Electric Products Inc.
Davidson Optronics, Inc.
Electronic Applications, Inc.
Mitchell Camera Corp.
Optomechanisms Inc.
South River Metal Products Co., Inc.
Warren-Knight Co.

TUBE

a. Cooling Units
b. Pin Straighteners
c. Pullers
d. Seal Leads
e. Shields
f. Sockets
Alden Products Co., f.
American Brass Co., The f.
Associated Engrg. & Mfg. Corp., d.
Augar Brothers, Inc., a, f.
Beimar Wheel & Machine Co., Inc., e.
Bendix Aviation Corp., a.
Birchler Corp., The, a, e.
Budd Lewyt Electronics, Inc., a.
CBS Electronics, Div.-Columbia
Broadcasting System, Inc., b, c.
Eastern Industries Inc., a.
Hugh H. Eby Co., e.
Electro Corp., e, f.
Electronic Parts Mfg. Co., Inc., d.
Garlock Packing Co., The-Electronic
Products f.
General Electric Co., Lamp Metals &
Components Dept., d.
International Electronic Research Corp.,
a, e, f.
Jettron Products Inc., f.
E. F. Johnson Co., f.
C. B. Kauff & Sons, Inc., e.
Kensico Tube Co., Div.-Robinson Technical
Products, Inc.
Kling Metal Spinning & Stamping Co., e.
Livingston Electronic Corp., e, f.
Metal Textile Corp. Div.-General Cable
Corp., a.
James Millen Mfg. Co. Inc., e, f.
Moine Mfg. Co., a.
Mycalex Corp. of America f.
Precision Apparatus Co., Inc., b.
***RADIO CORP. OF AMERICA, f.**
Radio Frequency Co., Inc., f.
Remier Co., f.
Milton Ross Metals Co., The, b, f.
Standard-Thomson Corp., Clifford Mfg.
Co. Div., a.
Star Expansion Industries Corp., b.
United Aircraft Products, Inc., a.
Vector Electronic Co., Inc., b, e, f.
Vilter Mfg. Co., The, a.
Wells Industries Corp., a.
Westinghouse Electric Corp., d.
York Div., Borg-Warner Corp., a.
Zippertubing Co., The, a, e.

TUBE PARTS

Airdrome Parts Co.
Arite Div., J. S. Stoneware Co.
American Brass Co., The
Art Wire & Stamping Co.

Associated Engrg. & Mfg. Corp.
Autoscrew Co., Inc.
B. H. Aircraft Co., Inc.
Coors Porcelain Co.
Corning Glass Works
Eitel-McCullough, Inc.
Electronic Parts Mfg. Co., Inc.
Fansteel Metallurgical Corp.
Gar Products Corp.
General Electric Co., Lamp Metals &
Components Dept.
Janitrol Aircraft Div.-Midland-Ross Corp.
Kemer Co., Div.-Union Carbide Corp.
King Labs., Inc.
Lancaster Glass Corp.
Norrin Plastics Corp.
Norrin Screw Machine Products
Pennsylvania Tool & Mfg. Co., The
***RADIO CORP. OF AMERICA**
Sylvania Electric Products Inc., Sylvania
Electronic Tubes Div.
Thor Ceramics, Inc.
Wall Commonoy Corp., Stainless Process-
ing Div.
Warren Components Div.-El-Tronics, Inc.
Westinghouse Electric Corp.

TUBES

a. ATR
b. Backward Wave
c. Ballast
d. Battery Charger
e. Bolometer
f. Cathode, Multiple Gun
g. Cathode Ray
h. Cathode Ray, Instrument Use
i. Ceramic
j. Cold Cathode
k. Computer, Storage
l. Counter Beam
m. Electrometer
n. Electron Multiplier
o. Gamma Ray, Nuclear
p. Geiger Counter, Nuclear
q. Geiger Mueller
r. Glow or Discharge
s. Ignifron
t. Infrared
u. Ionization
v. Klvstron
w. Magnetron
x. Miniature
y. Noise Source
z. Phototubes
a-1 Phototubes, Multiplier
b-1 Pirani
c-1 Power Amplifier
d-1 Projection
e-1 Receiving
f-1 Rectifying
g-1 Scintillation
h-1 Scintillation, Nuclear
i-1 Sparkgap
j-1 Strobe
k-1 Subminiature
l-1 Switching
m-1 Thyatron
n-1 TR
o-1 Transducer
p-1 Transmitting
q-1 Transmitting-Receiving
r-1 Traveling Wave
s-1 Ultra-Violet
t-1 Vacuum
u-1 Voltage Reference or Regulating
v-1 X-Ray

***AEROJET-GENERAL CORP., t.**
Aerovox Light Corp., i, r, f, i-1, j-1, s-1,
t-1, u-1
American Electronics Inc., o.
American Electronic, Inc., g, n, k, m, v, e-1,
f-1, j-1, u-1
American Lava Corp., i.
American Speedlight Corp., j-1.
Amvco Corp., i, r, j-1, s-1.
Amperex Electronic Corp., i, j, n thru q,
s, v thru z, a-1, c-1, e-1, f-1, h-1, k-1,
l-1, m-1, p-1, u-1, v-1.
American Co., Inc., z.
Applied Research Corp., v.
Associated Engineers, Inc., t-1.
B. H. Aircraft Co., Inc.
Baird-Atomic, Inc., e, i, k, p, r, h-1,
k-1, l-1, v-1.
Barker Sales Co., h, i, m.
Barry Electronics Corp., g, h, s, v, w,
x, z, c-1, f-1, k-1, m-1, p-1, q-1, t-1.
Bendix Aviation Corp., b, i, r, v thru
y, c-1, e-1, f-1, i-1, m-1, u-1.

Bendix Aviation Corp., Red Bank Div., a, b, i, j, k, o, q, r, v, x, y, z, c-1, e-1, f-1, i-1, k-1, l-1, m-1, q-1, r-1, t-1, u-1
 Blonder-Tongue Labs. Inc., Special Products Div., g, t, z
 Braun-Knecht-Heimann Co., Industrial Div., q
 Burroughs Corp., l
 Burroughs Corp., Electronic Tube Div., l, r, y
 C&S Electronics, Div.-Columbia Broadcasting System, Inc., g, i, x, z, c-1, e-1, f-1, l-1, p-1, q-1, t-1, u-1
 CBS Laboratories, Div.-Columbia Broadcasting System, f, g, h, n, t, w, z, a-1
 Calvert Electronics Inc., a thru d, f thru i, n thru s, v thru z, a-1, b-1, c-1, e-1 thru n-1, q-1, r-1, t-1, v-1
 Carborundum Co., Refractories Div., i
 Central Electronic Mfrs., Div.-Nuclear Corp. of America, q, y, b-1, c-1, f-1, l-1, n-1, p-1, t-1, u-1
 Chatham Electronics Div.-Tung-Sol Electric Inc., c, i, j, r, x, z, c-1, e-1, f-1, k-1, l-1, m-1, p-1, q-1, t-1, u-1
 Chicago Miniature Lamp Works, r
 Consolidated Vacuum Corp., b-1, t-1
 Continental Electric Co., d, t, z, b-1, f-1, j-1, m-1, p-1, t-1
 Diamond Power Specialty Corp., j
 Dieco, Div.-Djordjevic Engrg. Co., d, f-1, u-1
 Du-Co Ceramics Co., i
 Allen B Du Mont Labs., Inc., a, f, g, h, n, t, a-1
 Edgerton, Germeshausen & Grier, Inc., g, h, i, r, i-1, j-1, m-1, u-1
 Thomas A. Edison Ind. Instrument Div.-M. Graw-Eolson Co., s-1
 Edwards High Vacuum Ltd., b-1
 Eare-McClough Inc., i, v, c-1, f-1, p-1, r-1
 Electronic Tube Corp., f, g, h
 Electron-Radar Products, z
 Electrons, Inc., f-1, m-1
 Emertron, Sub-Emerson Radio & Phonograph Corp., t, v, w, c-1, h-1, l-1, o-1, r-1
 Engelhard Industries Inc., s-1
 Eureka Williams Corp., g, h
 Field Emission Corp., i-1, u-1, v-1
 General Electric Co., Cathode Ray Tube Dept., g
 General Electric Co. Ltd. of England, a, b, g thru k, m, q, v, w, y, c-1, e-1, f-1, m-1, n-1, p-1, q-1, r-1, t-1, u-1
 General Electric Co., X-Ray Dept., v-1
 General Electro-dynamics Corp., g, h, k, t, a-1
 General Radio Co., j-1
 Halcyon Electronics Co., j
 Hammett-Mercury-Rex Div., b, d, f, g, h, i, m, n, s, v, w, c-1, f-1, l-1, m-1, o-1, p-1, q-1, t-1, v-1
 High Vacuum Equipment Corp., Sub-Robinson Tech. Products, Inc., u
 Huggins Labs., Inc., b, r-1
 Hughes Semiconductor Div.-Hughes Aircraft Co., k-1
 IIT Components Div., International Telephone & Telegraph Corp., b, f, g, i, k, n, t, v, w, y, z, c-1, d-1, f-1, l-1, m-1, p-1, r-1, t-1
 Image Instruments, Inc., k
 Infrared Industries, Inc., t, z
 Intercontinental Electronics Corp., f, g, k
 International Electronics Corp., b, h, i, j, l thru x, z, a-1, c-1, e-1, thru h-1, k-1 thru r-1, t-1, u-1
 Isolantire Mfg. Corp., i
 Kip Electronics Corp., c, j, k-1, m-1, t-1
 M. Kirchberger & Co., Inc., i
 Kutis Labs, Inc., i, f-1, m-1
 Lewis & Kauffman, b, c-1, f-1, p-1, t-1
 Littor Industries, Inc., a, b, g, v, w, y, n-1, q-1, r-1
 Mackay Research Labs., g, h, n, r, t, w, z, a-1, t-1
 McMillan Companies The, t, d-1
 Microwave Associates, Inc., a, e, r, w, y, i-1, n-1, p-1, q-1
 *MICROWAVE & POWER TUBE DIV., RAYTHEON CO., a, b, v, w, n-1, r-1
 National Beryllia Corp., i
 National Ceramic Co., i
 National Co., Inc., n
 National Electronics Inc., d, s, m-1
 National Union Electric Corp., g, r, x, u-1
 Northrop Corp., j, r

Nuclear Development Lab., o, p, q
 Nuclear Measurements Corp., o, p, q, g-1, h-1
 Nuclear-Chicago Corp., o, p, q, u, g-1, h-1
 Ohmart Corp., The, o, p, q, g-1, h-1
 Philco Corp.-Govt. & Industrial Group, f, g, t, x, e-1, k-1, l-1
 Philco Corp., Lansdale Div., g, h, i, t, x, y, c-1 thru f-1, k-1, l-1, s-1, t-1, u-1
 Philips Electronic Instruments, q, v-1
 Polarad Electronics Corp., b, i, v
 Radiation Research Corp., j, u-1
 *RADIO CORP. OF AMERICA, a thru d, f thru l, n thru z, a-1, c-1 thru h-1, k-1 thru u-1
 *RAYTHEON CO. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, a, f thru i, k, m, n, t, w, x, z, a-1, c-1, e-1, f-1, k-1, m-1, o-1 thru r-1, t-1
 Raulson Corp., The, g
 *RAYTHEON CO., INDUSTRIAL COMPONENTS DIV., f thru m, p thru s, x, c-1, e-1, f-1, i-1, k-1, m-1, p-1, q-1, t-1, u-1
 *RECEIVING TUBE DIV., RAYTHEON CO., x, c-1, e-1, f-1, q-1, t-1
 Research, Inc., s
 Resitron Labs., Inc., g thru j, o, t, u, f-1, i-1, l-1, p-1, t-1, v-1
 Milton Roy Co., m
 Santa Barbara Research Center, t
 Semi-Elements, Inc., t, g-1, h-1
 Siatron Electronics & Television Corp., g
 Sonotone Corp., x, e-1, k-1, t-1
 Sperry Electronic Tube Div., Sperry Rand Corp., v, c-1, r-1
 Sperry Gyroscope Co., Div.-Sperry Rand Corp., v, r-1
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., e
 State Labs, Inc., c-1, e-1, f-1, k-1, m-1, p-1, q-1, t-1
 Sewart Engrg. Co., b
 F. W. Stokes Corp., u
 Stromberg-Carlson, San Diego, General Dynamics Corp., f, g, j, k
 Superior Electric Co., The, u-1
 Superior Sreatite & Ceramic Corp., i
 Sylvania Electronic Products Inc., Special Tube Operations, a, b, i, l, r, u, v, w, b-1, n-1, r-1
 Sylvania Electric Products Inc., Sylvania Electronic Tubes Div., f thru j
 Technical Apparatus Builders, d, g, t, v, w, x, e-1, k-1, p-1
 Therman American Fused Quartz Co., Inc., i
 Thermoson Inc., x, y, f-1, t-1, u-1
 Thomas Electronics, Inc., g
 Tracerlab Inc., p, q
 Tung-Sol Electric, Inc., g, i, r, x, z, c-1, e-1, f-1, k-1 thru n-1, t-1, u-1
 Ultra-Violet Products, Inc., j, x, s-1
 V & H Radio & Electronics, a thru z, a-1 thru v-1
 Vacuum Tube Products, Div.-Hughes Aircraft Co., f, g, h, j, k, r, u, b-1, c-1, f-1, l-1, m-1, t-1
 Veeco Vacuum Corp., u
 Voi-Shan Electronics, b, v, r-1
 Welis Industries Corp., t, z, a-1
 Westinghouse Electric Corp., g, h, k, l, p, r, s, t, v, w, a-1, c-1 thru h-1, m-1, q-1 thru t-1, v-1
 Westing Products Div.-Western Lithograph Co., t
 N. Wood Counter Lab., q, g-1

TUBING

a. Aluminum
 b. Asbestos
 c. Brass or Copper
 d. Capillary
 e. Ceramic
 f. Fibre
 g. Finned
 h. Flexible Metal
 i. Fused Quartz
 j. Glass Fibre Insulation
 k. Glass, Precision
 l. Metal & Alloy
 m. Metal Hose, Flexible
 n. Mica
 o. Molybdenum
 p. Monel
 q. Nickel
 r. Paper
 s. Phenolic
 t. Plastic

u. Precious Metal
 v. Seamless
 w. Silver
 x. Steel
 y. Steel, Stainless
 z. Tantalum
 a-1 Titanium
 b-1 Tungsten
 c-1 Varnished Cambric Insulation
 d-1 Varnished or Lacquered
 e-1 Waveguide
 f-1 Woven or Knitted Wire
 Abesto Corp., b, s, t, c-1, d-1
 Aero Leather Products Co., i
 *AERCOJET-GENERAL CORP., x
 Aircor Inc., e-1
 Airtron, Div.-Littion Industries, e-1
 Alrite Div., U. S. Stoneware Co., e
 All Boro Metal Products Co., Inc., y
 Allied Plastics Supply Corp., b, f, h, i, m, n, r, s, t, c-1, d-1
 Allied Research & Engrg., Div.-Allied Record Mfg. Co., q, e-1
 Alpha Metals, Inc., l
 Alpha Wire Corp., a, i, t, d-1
 Aluminum Co. of America, a, g, l, v, w, e-1
 American Agile Corp., t
 American Brass Co., The, c, h, l, m, v
 American Instrument Co., Inc., p, q, v, x, y
 American Latex Products Corp., t
 American Lava Corp., e
 American Nickel Alloy Mfg. Corp., l, p, q
 American Super-Temperature Wires, Inc., i, t
 American Tubing Co., Inc., a, c, l, o, p, q, u, v, x, y, z, a-1
 Ampco Metal, Inc., c, l, v
 Anaconda Metal Hose Div., The American Brass Co., d, h, m, t, e-1
 Ancor Metal Co., Inc., l
 Ancor Plastics Co., Inc., t
 Arrowhead Products, Div.-Federal-Mogul Bower Bearings, Inc., e, f, h, j thru m, s, t, y, e-1, f-1
 Asheville-Schoonmaker Mica Co., n
 Associated Engrg. & Mfg. Corp., i, o, z, b-1
 Auburn Mfg. Co., The, b, f, r, s, t, c-1
 Avica Corp., h, m
 Avon Tube Div.-Higbie Mfg. Co., x
 B. & C. Insulation Products, Inc., j, c-1
 Semon Baghe & Co., k
 Benox Filter Div., Bendix Aviation Corp., y, f-1
 Bentley Harris Mfg. Co., j, d-1
 Bethlehem Steel Co., l, v, x, y
 J. Bishop & Co., Platinum Works, d, l, o, p, q, u, v, x, y, z, a-1, f-1
 Blaco Mfg. Co., h, t
 Blossom Mfg. Co. Inc., t, c-1
 Bonn Aluminum & Brass Corp., a
 Bonny Mfg. Corp., t
 Borden Chemical Co., t
 Borden Chemical Co., The Resinite Dept., t, d-1
 Bram Metallurgical Chemical Co., a, c, i, j, n thru q, u, v, w, y, z, a-1, b-1
 William Brand, Rex Div.-American Enke Corp., i, t, c-1, d-1
 Braun-Knecht-Heimann Co., Industrial Div., k
 Breeze Corporations, Inc., g, h, m, f-1
 Bridgeport Brass Co., a, c, d, g, l, o, p, q, u, v, y, z, a-1
 Milton H. Brooks & Son Engraving & Mfg. Co., Inc., j, s, t
 Buco Co., The, f, t
 Cadillac Plastic & Chemical Co., s, t
 Carborundum Co., The, e
 Carborundum Co., Latrobe Plant, Refractories Div., e
 Carborundum Co. Refractories Div., e, f
 Carpenter Steel Co., The, l, q, y, a-1
 Carpenter Steel Co., The, Alloy Tube Div., g, y
 Central Div.-Globe-Union, Inc., e
 Chase Brass & Copper Co., Inc., c, g, l, t, v, y, e-1
 Chemplas, Inc., t
 Climax Molybdenum Co. of Michigan, o, b-1
 Cobra Metal Hose Div. Dk Mfg. Co., h, l, m, p, q, a-1
 Comco Plastics Inc., f, s, t
 Continental Diamond Fibre Corp., f, n, s, t

Continental-EmSCO Co., Div.-The Youngs-
town Sheet & Tube Co., t, v, x.
Co-operative Industries, Inc., h, m.
Coors Porcelain Co., e.
Corning Glass Works, e, k.
Crucible Steel Co. of America, l, p, v,
x, y, a-l.
Crystal-X Corp., s, t.
Curtiss-Wright Corp., Metals Processing
Div., a, g, l, p, v, x, a-l, e-l.
Damascus Tube Co., g, l, y, z, a-l b-l.
Dana Corp., v.
Darcoid Co. Inc., The, b, t.
Dell Optics Co., Ltd., i, k.
Demornay-Bonardi, e-l.
Deringer Metallurgical Corp., u, w.
Diamondite Products Mfg. Co., e.
Division Lead Co., l.
Dixon Corp., t.
Dow Chemical Co., The, a, l.
Du-Co Ceramics Co., e.
Dunbar-Kapelle Inc.-Aircraft Components
Div., h, m, y.
Dura Plastics of N. Y., Inc., t.
Eastern Smelting & Refining Corp., u, w.
Electric Steel Foundry Co., l, p, q, x,
y, a-l.
Electrical Insulation Co., Inc., e, r, s.
Electrical Refractories Co., The, e.
Electronic Parts Mfg. Co., Inc., c, o,
q, x, y.
Eljay Corp., f, s, t.
Ellwood Ivins Steel Tube Works Inc.,
l, v, y, e-l.
Emerson Plastics Corp., t.
Enfab Inc., j.
Engelhard Industries, Inc., a, c, e-l.
Fansteel Metallurgical Corp., l, o, u,
v, z, b-l.
Federal Metal Hose Corp., h, m.
Fibercraft, Inc., s, t.
Fischer & Porter Co., d, k.
Fisher & Crome, s, t.
Flexible Tubing Corp., j, t.
Flexonics Corp., h, l, m, y.
Fluorocarbon Co., The, t.
Formica Corp., s, t.
Form-It Products, Inc., r.
Franklin Fibre-Lamitex Corp., f, i, r, s, t.
Garlock Packing Co., The-Electronic
Products, t.
General American Transportation Corp.,
t.
B. F. Goodrich Aviation Products, t.
B. F. Goodrich Industrial Products Co.,
t.
Griscom-Russell Co., The, g.
Hallett Mfg. Co., h, m.
Halogens Insulator & Seal Corp., t.
Hammett-Mercury-Rex Div., t, e-l.
Handy & Harman, u, w.
Harvey Aluminum, a, g, l, o, x, z, a-l,
b-l.
Haskel Engrg. & Supply Co., m.
Haynes Stellite Co., Div.-Union Carbide
Corp., l, z.
Heil Process Equipment Corp., t.
Hitemp Wires Inc., t.
Homalite Corp., The, t.
Huntington Alloy Products Div.-The In-
ternational Nickel Co., Inc., l, p, q.
C. G. Hussey & Co., Div.-Copper Range
Co., c.
Walter J. Hyatt Co., The, t.
Illumintron Engrg. Co., s, t.
Imperial Brass Mfg. Co., The, t, v.
Insulation Mfrs. Corp., b, f, i, n, r, s,
t, c-l, d-l.
Isolanite Mfg. Corp., e.
Johnson Metal Hose, Inc., h, m.
Jonesville Paper Tube Corp., r.
Kaiser Aluminum & Chemical Sales, Inc.,
a.
M. Kirchberger & Co., Inc., e.
Kirkhill Rubber Co., t.
Lamtex Industries Inc., f, j, t, v, e-l.
Lapham Hickey Steel Corp., x, y.
La Pointe Industries Inc., a.
Lapp Insulator Co., Inc., Radio Special-
ties Div., e.
Leach & Garner Co., Indsl. Div., c, l,
u, v, w, e-l.
Le Fiell Mfg. Co., a, c, l, o, v, x, y.
Lewis & Saunders, Inc., g.
Lico, Inc., e-l.
Thomas J. Long, Inc., f, s, t.
Lunn Laminates, Inc., t.
Luzerne Rubber Co., t.
M & O Plastic Products, d, t.
Mackenzie Walton Corp., c, d, g, v, f-l.
McMillan Companies, The, j.

Metal Forming Corp., Div.-Vanadium-
Alloys Steel Co., l, p, q, y, z, a-l.
Mica Fabricating Co., e, f, n, s, t, c-l.
Mica Insulator Div.-Minnesota Mining &
Mfg. Co., n, s, t, f.
Mirrowave Associates, Inc., e-l.
*MICROWAVE & POWER TUBE DIV.,
RAYTHEON CO., e.
*MINNESOTA MINING & MFG. CO.,
e, h, n, r, t, c-l, d-l.
NUMEC-Nuclear Materials & Equipment
Corp., e.
National Beryllia Corp., e.
National Ceramic Co., e.
National Copper & Smelting Co., c.
National Tube Div.-United States Steel
Corp., l, q, t, v, x, y.
National Vulcanized Fibre Co., f, j, s, t.
Natvar Corp., j, t, c-l.
New England Electrical Works, Inc., d.
New England Tape Co., Div.-United Carr
Fastener Corp., t.
New Jersey Wood Finishing Co., t.
Norrich Plastics Corp., a, c, e, f, i, r,
s, t, v, x, y, d-l.
Norrich Screw Machine Products, a, f,
j, r, s, t.
Norton Co., New Products Dept., e.
Ohio Seamless Tube Div.-Copperweld
Steel Co., v, x.
Olin Mathieson Chemical Corp., Metals
Div., a.
Olin Mathieson Chemical Corp., N. Y.,
a, c, u.
Owens-Corning Fiberglas Corp., f, i, t,
c-l, d-l.
Pacific Tube Co., l, v, x.
Paramount Paper Tube Corp., b, f, r,
d-l.
Penn Fibre & Specialty Co., Inc., f, s, t.
Phepels Dodge Copper Products Corp.,
c, l, v, e-l.
Plastic Age Sales, Inc., i, t.
Polymer Corp., The, t.
Precision Tube Co., Inc., a, c, l, p, q,
v, x, y.
Pressed Steel Tank Co., o, p, q, v, x, z,
a-l, b-l.
Raybestos-Manhattan, Inc., b, s, t.
Refractories Div., The Carborundum Co.,
e.
Ren Plastics, Inc., t.
Republic Steel Corp., l, t, v, x, y, a-l.
Resinite Corp. Div.-Precision Paper Tube
Co., b, n, s.
Resistoflex Corp., b, h, m, t, f-l.
Revere Copper & Brass Inc., a, c, g, l,
v, x, y.
Reynolds Metals Co., a, e-l.
Fred T. Roberts & Co., t.
Rohn Mfg. Co., x.
Rome Cable Div.-Alcoa, a, x.
Milton Ross Metals Co., The, j, s, t.
Joseph T. Ryerson & Son, Inc., a, l, t,
v, x, y.
St. Regis Paper Co., Panelyte Div., r,
s, t.
Sandvik Steel, Inc., x, y.
Sanford Plastics Corp., t.
Saylor Electric Products Corp., b, f,
t, v.
Ray A. Scherer & Co., t.
Scovill Mfg. Co., c, p, v.
Seaman Products, Div.-Seaman Paper Co.,
f, l.
Servicair Co., h.
Service Steel Div., l, v, x, y.
W. S. Shamban & Co., j.
Shenango Furnace Co., The, Centrifugally
Cast Products Div., c, l, p, q.
Sheridan-Gray, Inc., i.
Sillocks-Miller Co., t.
South River Metal Products Co., Inc.,
a, x.
Southern Plastics Co., t.
Sterling Glass Corp., k.
A. T. Stevens Co., b, f, j, s, t.
Stevens Products, Inc., f, j, s, t.
Stone Paper Tube Co., Div.-Stone Straw
Corp., r, s, t.
Superior Steatite & Ceramic Corp., e.
Superior Tube Co., d, l, p, q, v, x, y,
z, a-l, e-l.
Suprenant Mfg. Co., t, f-l.
Swan Rubber Co., t.
Synthane Corp., b, f, j, s, t.
Taylor Fibre Co., s, t.
Technicraft, Div.-Electronic Specialty Co.,
h, m, v, e-l.
Tetrafluor, Inc., t.

Texas Instruments Inc., l, u, w, z, a-l,
e-l.
Thermal American Fused Quartz Co.,
Inc., i.
Thermax Wire Corp., f-l.
Thermoid Aeronautical Div., o, z, b-l.
Thorn Div.-H. K. Porter Co., Inc., t.
Thor Ceramics, Inc., a, e, s, t.
Timken Roller Bearing Co., The, v, x, y.
Tingstol Co., f, s, t.
Titanium Metals Corp. of America, a-l.
Titellex, Inc., h, m, p, v, y.
Trent Tube Co., p, q, v, y, a-l, e-l.
Tube Distributors Co. Inc., d, o, p, q,
v, x, y, a-l.
Tube Methods Inc., v, y.
Tube Reducing Corp., l, o, p, v, x, y,
z, a-l.
Tubesales, a, d, l, p, q, v, x, y, z, a-l,
b-l, e-l.
Uniform Tubes, Inc., a, c, d, l, p, q,
u thru y.
Union Asbestos & Rubber Co., b, f, j.
U. S. Pipe & Foundry Co., Steel & Tubes
Div., l, v, x, y.
U. S. Steel Supply Div., United States
Steel Corp., l, v, x, y.
United States Steel Corp., v, x, y.
United Wire & Supply Corp., a, c, d,
g, q, v.
Universal Unlimited, Inc., t.
Utility Brass & Copper Corp., a, c, h,
m, e-l.
Vanadium-Alloys Steel Co., l, p, q, x, y.
Vanton Pump & Equipment Corp., t.
Varflex Corp., t, c-l, d-l.
Var-Lac-Oid Chemical Co., z, a-l, b-l.
Wah Chang Corp., l, v, z.
Wall Tube & Metal Products Co., p, q,
v, y.
Wallingford Steel Co., y.
Western Pneumatic Tube Co., l, p, q,
u, y, z, a-l.
Westinghouse Electric Corp., e, i, j, t.
Westinghouse Electric Corp., Micarta
Div., f, i, n, r, s, t, c-l, d-l.
Wilmington Fibre Specialty Co., f, s.
Yardley Plastics Co., t.
Young Development Div., Hercules
Powder Co., f, i, t.
Zippertubing Co., The, a, b, c, f, h, i,
m, t, f-l.
Zirconium Corp. of America, e.

TUBULAR FABRICATIONS & ASSEMBLIES

Advanced Products Co., The
*AERO-GENERAL CORP.
Aeroquip Corp., Jackson Div.
Ainslie Corp.
Allite Div., U. S. Stoneware Co.
Allied Plastics Supply Corp.
Allison Steel Mfg. Co.
Alloy Products Corp.
American Tube Bending Co., Inc.
American Tubing Co., Inc.
American Welding & Mfg. Co., The
Arnolt Corp.
Arrowhead Products, Div.-Federal-Mogul-
Bower Bearings, Inc.
Avon Tube Div.-Higbie Mfg. Co.
B. H. Aircraft Co., Inc.
Beaton & Corbin Mfg. Co., The
Beech Aircraft Corp.
Belmar Wheel & Machine Co., Inc.
Bendix Filter Div., Bendix Aviation Corp.
Benson Mfg. Co.
Bethlehem Steel Co.
J. Bishop & Co., Platinum Works
E. W. Bliss Co.
Brooks & Perkins, Inc.
Cobra Metal Hose Div. DK Mfg. Co.
Colonial Aircraft Corp.
Continental-EmSCO Co., Div.-The Youngs-
town Sheet & Tube Co.
Corning Glass Works
Craig Systems, Inc.
Crane Co., Special Products Div.
Crystal-X Corp.
Custom Products Corp.
Electrical Insulation Co., Inc.
Electrical & Mechanical Design Co.
Electronic Parts Mfg. Co., Inc.
Ellwood Ivins Steel Tube Works Inc.
Elzee Metal Products Co., Inc.
Fairchild Aircraft & Missiles Div., Fair-
child Engine & Airplane Corp.
Farwell Metal Fabricating
Fibercraft, Inc.
Flexonics Corp.

General Findings & Supply Co., Industrial Div.
 Gorham Electronics-Div.-Gorham Mfg. Co.
 Hanlon & Wilson Co., The
 Haskel Engrg. & Supply Co.
 Janitrol Aircraft Div.-Midland-Ross Corp.
 Kellett Aircraft Corp.
 Kennedy Aircraft Supply Co.
 Lamtex Industries Inc.
***LAVELLE AIRCRAFT CORP.**
 Le Fiell Mfg. Co.
 Lewis & Saunders, Inc.
 Lofstrand Co., The
 Thomas J. Long, Inc.
 MB Electronics
 Mackenzie Walton Corp.
 Marmon Div., Aeroquip Corp.
 Marquardt Corp., The
 McCathron Boiler Works Co., Inc.
 Menasco Mfg. Co.
 Metal Fabricators Corp.
 Metal Forming Corp., Div.-Vanadium-Alloys Steel Co.
 Norrich Plastics Corp.
 Norrich Screw Machine Products
 Northeast Metals Industries, Inc.
 Northrop Corp.
 Opelika Welding, Machine & Supply Inc.
 Parts Engrg. Co., Inc.
 Pastushin Industries, Inc.
 Penn-Michigan Mfg. Corp.
 Richard Philip Co.
 Piasecki Aircraft Corp.
 Portland Copper & Tank Works Inc.
 Precision Tube Co., Inc.
 Pressed Steel Tank Co.
 REF Mfg. Corp.
 Redco Corp.
 Edw. Renneburg & Sons Co.
 Resistoflex Corp.
 Reynolds Metal Co., Sheffield Missile Plant
 Rimak, Inc.
 J. R. Robbins Co.
 Roto Finish-Rensohoff
 Sancor Corp.
 Skyline Products, Inc.
 Superior Industrial Machine Co.
 Temco Aircraft Corp.
 Thermionic Aeronautical Div.
 Tube Reducing Corp.
 Twin Coach Co., Aircraft-Missiles
 Uniform Tubes Inc.
 United Aircraft Products Inc.
 United States Chemical Milling Corp.
 Veet Industries
 Virginia Electronics Co., Inc.
 Waco Aircraft Co.
 Wall Colmonoy Corp., Stainless Processing Div.
 Weber Aircraft Corp.
 Wells Industries Corp.
 Western Div., Aeroquip Corp.
 Wolverine Diesel Power Co.
 Woolf Aircraft Products, Inc.
 Young Development Div., Hercules Powder Co.

TUNERS

- a. AM
- b. Antenna
- c. Automatic
- d. FM
- e. FM & AM
- f. Klystron
- g. Microwave
- h. Permeability

Aircrom Inc., f, g.
 Airtrol, Div.-Littion Industries, g.
 Allied International Corp., a, b, c.
 Amerac Inc., f, g.

American Machine & Foundry Co., Government Products, N. Y., b.
 Bendix Aviation Corp., Cincinnati Div., a, d, e.
 Blonder-Tongue Labs., Inc., e.
 Blonder-Tongue Labs. Inc., Spectral Products Div., a, d, e.
 S. G. Brown, a, d.
 Budd Lewyt Electronics, Inc., g.
 Cameralex Div., The, Federal Mfg. & Engrg. Corp., d.
 Chance Vought Aircraft, Inc., b.
 Collins Radio Co., a thru e, h.
 Crosby-Teletronics Corp., d, e.
 Delco Radio Div.-General Motors Corp., a, c, d, e.
***DEL MAR ENGRG. LABS., d.**
 Demornay-Bonardi, g.

Designers for Industry, Inc., a, d, e, g.
 Diamond Antenna & Microwave Corp., f, g.
 Don-Lan Electronics Inc., b, g.
 Douglas Microwave Co., Inc., g.
 Electronic Applications, Inc., d, f, g.
 Emertron, Sub.-Emerson Radio & Phonograph Corp., a, d thru g.
 Empire Products Sales Corp., f, g.
 FXR, Inc., g.
 Ferrotron Electronics Co., Inc., h.
 General Bronze Electronics Corp., b, g.
 General Instrument Corp., Defense & Engrg. Products Group, g.
 John Gombos Co., Inc., g.
 Gonset Div.-Young Spring & Wire Corp., a, e, h.
 Gorham Electronics-Div.-Gorham Mfg. Co., g.
 Hammarlund Mfg. Co., The, a.
 Hewlett-Packard Co., g.
 J-V-M Microwave Co., g.
 La Pointe Industries Inc., g.
 Lear, Inc., b.
 Lieco, Inc., g.
 Loral Electronics Corp., a, c, e, f, g.
 P. R. Mallory & Co. Inc., e, h.
 W. L. Maxson Corp., The, f, g.
 Meridian Metalcraft, Inc., g.
 Microwave Associates, Inc., g.
 J. W. Miller Co., a, d.
 Motorola, Inc., a, c thru g.
 Narda Microwave Corp., The, g.
 National Co., Inc., a thru h.
 Nevada Air Products Co., b.
 Paco Electronics Co., Inc., a, d, e.
 Philco Corp.-Govt. & Industrial Group, a thru d, g.
 Polarad Electronics Corp., f, g.
 Polytechnic Research & Development Co., Inc., g.
 Portland Copper & Tank Works Inc., b, f, g.
 Radar Design Corp., g.
 Radio Condenser Co., a thru e, g, h.
***RADIO CORP. OF AMERICA, a thru h.**
***RADIO CORP. OF AMERICA, DEFENSE ELECTRONICS PRODUCTS, a, c, d, e, g.**
 Radio Receptor Co., Inc., Sub.-General Instrument Corp., g.
 Rantec Corp., g.
 H. H. Scott, Inc., d, e.
 Sperry Electronic Tube Div., Sperry Rand Corp., f.
 Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., g.
 Standard Winding Co., Inc., b.
 Stewart-Warner Electronics Div., a thru d, g.
 Stromberg-Carlson Div.-General Dynamics Corp., a, d thru g.
 TRG, Inc., g.
 Tamar Electronics, Inc., g.
 Technical Materiel Corp., The, b.
 Technicraft, Div.-Electronic Specialty Co., g.
 United Shoe Machinery Corp., g.
 U. S. Gear Corp., f, g.
 Victor R. F. & Microwave Co., g.
 Virginia Electronics Co., Inc., a, b, c.
 Waveline, Inc., g.

TUNGSTEN

Associated Engrg. & Mfg. Corp.
 Bergen Carbide Co.
 Bergen Wire Rope Co.
 Bram Metallurgical Chemical Co.
 Climax Molybdenum Co. of Michigan
 Custom Tool & Mfg. Co.
 Delta Chemical Works, Inc.
 Electronic Parts Mfg. Co., Inc.
 Elmet Div.-North American Philips Co., Inc.
 Fansteel Metallurgical Corp.
 Fifth Sterling Inc.
 General Electric Co., Lamp Metals & Components Dept.
 General Electric Co., Rocket Engine Section
 Gibson Electric Co.
 Harvey Aluminum
 Hughes Tool Co., Aircraft Div.
 Johnston & Funk Metallurgical Corp.
 NUMEC-Nuclear Materials & Equipment Corp.
 Rembar Co., Inc., The
 Stauffer Chemical Co.
 Steel Improvement & Forge, The
 Sylvania Electric Products Inc., Chemical & Metallurgical Div.

Thermionic Aeronautical Div.
 Union Carbide Metals Co., Div.-Union Carbide Corp.
 United Mineral & Chemical Corp.
 Var-Lac-Old Chemical Co.
 Wah Chang Corp.
 Wai Met Alloys Co.
 Westinghouse Electric Corp.

TUNING DEVICES

Bendix Aviation Corp., Cincinnati Div.
 CGS Labs., Inc.
 Collins Radio Co.
 Croname Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Empire Products Sales Corp.
 Gates Radio Co.
 Gorham Electronics-Div.-Gorham Mfg. Co.
 Hammarlund Mfg. Co., The
 Houston Fearless Corp.
 Lear, Inc.
 P. R. Mallory & Co. Inc.
 James Millen Mfg. Co. Inc.
 Motorola, Inc.
 National Co., Inc.
 Philco Corp.-Govt. & Industrial Group
 Radio Condenser Co.
***RADIO CORP. OF AMERICA**
 Spiroid Div., Illinois Tool Works
 U. S. Gear Corp.
 Victor R. F. & Microwave Co.
 Western Gear Corp.-Precision Products Div.

TUNING DEVICES, RECEIVER MECHANICAL

Collins Radio Co.
 Eastern Industries Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 General Bronze Electronics Corp.
 General Instrument Corp., Defense & Engrg. Products Group
 Gorham Electronics-Div.-Gorham Mfg. Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hammarlund Mfg. Co., The
 Houston Fearless Corp.
 Lear, Inc.
 P. R. Mallory & Co. Inc.
 W. L. Maxson Corp., The
 James Millen Mfg. Co. Inc.
 National Co., Inc.
 Radio Condenser Co.
***RADIO CORP. OF AMERICA**
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Spiroid Div., Illinois Tool Works
 Stewart-Warner Electronics Div.
 Teleflex Inc.
 Western Gear Corp.-Precision Products Div.

TUNING DEVICES, TRANSMITTER

MECHANICAL
 Collins Radio Co.
 Eastern Industries Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
 Gates Radio Co.
 General Bronze Electronics Corp.
 General Instrument Corp., Defense & Engrg. Products Group
 Gorham Electronics-Div.-Gorham Mfg. Co.
 Guided Missile Div., The Firestone Tire & Rubber Co.
 Hammarlund Mfg. Co., The
 Houston Fearless Corp.
 P. R. Mallory & Co. Inc.
 W. L. Maxson Corp., The
 James Millen Mfg. Co. Inc.
 National Co., Inc.
 Radio Condenser Co.
***RADIO CORP. OF AMERICA**
 Radio Receptor Co., Inc., Sub.-General Instrument Corp.
 Spiroid Div., Illinois Tool Works
 Stewart-Warner Electronics Div.
 Teleflex Inc.
 Western Gear Corp.-Precision Products Div.

TURBINE ASSEMBLIES

***AIRESEARCH MFG. CO. OF ARIZONA**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Allison Div., General Motors Corp.
 American Welding & Mfg. Co., The
 Bell Aircraft Corp., Niagara Frontier Div.

Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Christie Machine Works
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Falcon Machine & Tool Co.
 Fenn Mfg. Co., The
 General Electric Co., Rocket Engine Section
 Herlo Corp.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Jarvis Corp.
 Kelsey-Hayes Co.
 Kelsey-Hayes Co., Utica Drop Forge & Tool Div.
 Kerns Mfg. Corp.
 Lycoming Div., Avco Corp.
 Marquardt Corp., The
 McGregor Mfg. Corp.
 Napier Engines Inc.
 Parts Engrg. Co., Inc.
 Solar Aircraft Co.
***STALKER CORP., THE**
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 Western Gear Corp.-Precision Products Div.
 Whiton Machine Co., The
 York Div., Borg-Warner Corp.

TURBINE SHAFTS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Allison Div., General Motors Corp.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bethlehem Steel Co.
 A. M. Byers Co.
 Christie Machine Works
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Fenn Mfg. Co., The
 Herlo Corp.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Kelsey-Hayes Co.
 Lycoming Div., Avco Corp.
 Marquardt Corp., The
 McGregor Mfg. Corp.
 Napier Engines Inc.
 National Forge Co.
 Schellens-True Corp.
 Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.

Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 Tube-Turns Div., Chemetron Corp.
 Whiton Machine Co., The
 York Div., Borg-Warner Corp.

TURBINE WHEELS

Aircraft Accessory Turbine Dept.-General Electric Co.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Allison Div., General Motors Corp.
 American Brake Shoe Co.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 Bethlehem Steel Co.
 Christie Machine Works
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 George Gorton Machine Co.
 Hamilton Standard, Div.-United Aircraft Corp.
 Havnes Stellite Co., Div.-Union Carbide Corp.
 Herlo Corp.
 Industrial Equipment Div., Baldwin Lima Hamilton Corp.
 Jarvis Corp.
 Kelsey-Hayes Co.
 Kelsey-Hayes Co., Utica Drop Forge & Tool Div.
 Kerns Mfg. Corp.
 Lycoming Div., Avco Corp.
 Marquardt Corp., The
 McGregor Mfg. Corp.
 Napier Engines Inc.
 Parker-Hartford Corp., The
 Schellens-True Corp.
 Solar Aircraft Co.
 Stalker Corp., The
 Standard Steel Works, Div.-Baldwin-Lima-Hamilton Corp.

Steel Products Engrg. Co., Div.-Kelsey-Hayes Co.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Therm, Inc.
 Thompson Ramo Wooldridge Inc.
 Westinghouse Electric Corp.
 Whiton Machine Co., The
 York Div., Borg-Warner Corp.

TURBINES, AIR

Aircraft Accessory Turbine Dept.-General Electric Co.
***AIRESEARCH MFG. OF ARIZONA**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Allison Div., General Motors Corp.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bendix Utica Div., Bendix Aviation Corp.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Coppus Engrg. Corp.
 De Havilland Aircraft of Canada, Ltd., Special Products Div.
 Jarvis Corp.
 Kelsey-Hayes Co.
 Marquardt Corp., The
 McGregor Mfg. Corp.
 Stratos, Div.-Fairchild Engine & Airplane Corp.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 Worthington Corp.

TURBO FANS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Allison Div., General Motors Corp.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bendix Utica Div., Bendix Aviation Corp.
 Clark Bros. Co., Div.-Dresser Operations, Inc.
 Continental Aviation & Engrg. Corp.
 Dean & Benson Research, Div.-Benson Mfg. Co.
 Jarvis Corp.
 Kelsey-Hayes Co.
 Pratt & Whitney Aircraft Div., United Aircraft Corp.
 Spencer Turbine Co.
***STALKER CORP., THE**
 Worthington Corp.

TURBO JET ENGINES

***AIRESEARCH MFG. OF ARIZONA**
 Allison Div., General Motors Corp.
 Continental Aviation & Engrg. Corp.
 Falcon Machine & Tool Co.
 Kelsey-Hayes Co., Utica Drop Forge & Tool Div.
 Lycoming Div., Avco Corp.
 Pratt & Whitney Aircraft Div., United Aircraft Corp.

TURBO PUMPS

Aircraft Accessory Turbine Dept.-General Electric Co.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
 Allison Div., General Motors Corp.
 Bell Aircraft Corp., Niagara Frontier Div.
 Bendix Aviation Corp.
 Bendix Utica Div., Bendix Aviation Corp.
 J. C. Carter Co., The
 Christie Machine Works
 Herlo Corp.
 Jarvis Corp.
 Kelsey-Hayes Co.
 Lycoming Div., Avco Corp.
 McGregor Mfg. Corp.
 Pratt & Whitney Aircraft Div., United Aircraft Corp.
 Rocketdyne Div.-North American Aviation Inc.
 Tapco Group, Thompson Ramo Wooldridge Inc.
 Thompson Ramo Wooldridge Inc.
 Worthington Corp.

TURNABLES, SOUND EQUIPMENT

Beacon Steel Corp.
 Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
 Collins Radio Co.
 Pickering & Co., Inc.
***RADIO CORP. OF AMERICA**
 Wakefield Engrg. Co.

TURRETS, CAMERA

Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
 Gordon Enterprises
 Librascope Div., General Precision, Inc.
 Optomechanisms Inc.
 Philco Corp.-Govt. & Industrial Group
***RADIO CORP. OF AMERICA**
 Wollensak Optical Co.

ULTRASONIC EQUIPMENT

Acoustica Associates, Inc.
 Aeroprojects Inc.
 Alcar Instruments, Inc.
 Automation Industries, Inc.
 Bearing Inspection, Inc.
 Bendix Aviation Corp.
 Bendix Aviation Corp., Pioneer-Central Div.
 Blackstone Corp.
 Branson Instruments, Inc.
 Cameraflex Div., The, Federal Mfg. & Engrg. Corp.
 Circo Equipment Co.
 Circo Ultrasonic Corp.
 Clevite Ordnance, Div.-Clevite Corp.
***COMMERCIAL APPARATUS & SYSTEMS DIV., RAYTHEON CO.**
 Curtiss-Wright Corp., Metals Processing Div.
 Curtiss-Wright Corp., Princeton Div.
 Curtiss-Wright Corp., Santa Barbara Div.
 Dallons Semiconductors, Div.-Dallons Labs.
 Delavan Mfg. Co.
 Designers for Industry, Inc.
 Detrex Chemical Industries, Inc.
 Emertron, Sub.-Emerson Radio & Phonograph Corp.
***EQUIPMENT DIV., RAYTHEON CO.**
 General Instrument Corp., Defense & Engrg. Products Group
 General Kinetics Inc.
 Gulton Industries, Inc.
 Instrument Div., The Budd Co.
 International Electronics Corp.
 Kay Electric Co.
 L & R Mfg. Co.
 Magnaflux Corp., Sub.-General Mills, Inc.
 Massa Div.-Cohu Electronics, Inc.
 McKenna Labs.
 Muirhead Instruments Inc.
 Narda Ultrasonics Corp., The
 National Ultrasonic Corp.
 Pioneer Industries Div., Almar-York Co. Inc.

***RADIO CORP. OF AMERICA**
 Radio Frequency Co., Inc.
 Roto Finish-Ranshoff
 Scientific Electric Inc.
 Sheffield Corp., The, Sub.-Bendix Aviation Corp.
 Solar Mfg. Corp.
 Southwest Research Institute
 Sperry Products Co., Div.-Howe Sound Co.
 Standard Electronics Div.-Reeves Instrument Corp.
 Sunshine Scientific Instrument Superior Electric Co., The
 Turco Products, Inc.
 Ultrasonic Engineering Co.
 Westinghouse Electric Corp.
 Wye Industries

URANIUM

American Potash & Chemical Corp., National Northern Div.
 Century Electronics & Instruments, Inc.
 City Chemical Corp.
 Delta Chemical Works, Inc.
 Engelhard Industries, Inc.
 W. R. Grace & Co. Davison Chem. Div., Nuclear Reactor Mat. Plant
NUMEC-Nuclear Materials & Equipment Corp.
 Sylvania-Corning Nuclear Corp.
 United Mineral & Chemicals Corp.
 Vanadium Corp. of America
 Var-Lac-Oid Chemical Co.

VACUUM ALUMINIZERS

Allied International Corp.
***CONSOLIDATED ELECTRODYNAMICS CORP.**
 Consolidated Vacuum Corp.
 Cosmic Instruments Inc.
 Counter Products, Div.-Model Engrg & Mfg. Inc.
 Edwards High Vacuum Ltd.

General Vacuum Corp.
High Vacuum Equipment Corp., Sub-
Robinson Tech. Products, Inc.
Kinney Vacuum Div., The New York Air
Brake Co.
Metaplast Co., Inc.
Scientific Engrg. Labs., Inc.
F. J. Stokes Corp.
Swedlow Inc.
Swift Textile Metalizing & Laminating
Corp.
Temperature Engrg. Corp.
Vacuum Specialties Co., Inc.
Veeco Vacuum Corp.

VACUUM SYSTEMS & CONTROLS

Accessory Products Co., Div.-Textron Inc.
Aerotec Industries Inc., Aircraft Equip-
ment Div.

*ASSOCIATED TESTING LABS., INC.

Aviation Instrument Mfg. Corp.
Beach-Russ Co.
Bendix Aviation Corp.
Bruning Co., The
A. W. Cash Valve Mfg. Corp.
Chicago Bridge & Iron Co.
Components Corp.
Conoflow Corp.

*CONSOLIDATED ELECTRODYNAMICS CORP.

Consolidated Vacuum Corp.
Cosmic Instruments Inc.
Cryogenic Engrg. Co.
Delta Design Inc.
Edwards High Vacuum Ltd.
Ellison Draft Gage Co., Inc.
Garwin, Inc.
General Vacuum Corp.
Guardite Co., Div.-American-Marietta
Co.

Haskel Engrg. & Supply Co.
High Vacuum Equipment Corp., Sub-
Robinson Tech. Products, Inc.
Walter J. Hyatt Co., The
*ITEMCO, INC.

Janitrol Aircraft Div.-Midland-Ross Corp.
Kahn & Co., Inc.
Kerns Mfg. Corp.
Kinney Vacuum Div., The New York Air
Brake Co.
Lamson Corp., The
Minneapolis-Honeywell Regulator Co.,
Missile Equipment Div.
John Mohr & Sons
Oxygen Equipment & Service Co.
Pneu-Hydro Valve Corp.

*RADIO CORP. OF AMERICA

Ramo-Woodriddle, Div.-Thompson Ramo
Woodriddle Inc.
Red Point Corp.
Rimak, Inc.
Scientific Engrg. Labs., Inc.
Spencer Turbine Co.
Standard Steel Corp., Cambridge Div.
F. J. Stokes Corp.
Tactair Valve Div.-Aircraft Products Co.
Temperature Engrg. Corp.
United Electric Controls Co.
Vacuum Specialties Co., Inc.
Veeco Vacuum Corp.
W. M. Welch Scientific Div., W. M.
Welch Mfg. Co.
Wells Industries Corp.

VACUUM UNITS

Accessory Products Co., Div.-Textron Inc.
Aro Equipment Corp., The
Atlas Engrg. Corp.
Beach-Russ Co.
Clark Bros. Co., Div.-Dresser Operations,
Inc.

*CONSOLIDATED ELECTRODYNAMICS CORP.

Consolidated Vacuum Corp.
Cosmic Instruments Inc.
Edwards High Vacuum Ltd.
Garwin, Inc.
High Vacuum Equipment Corp., Sub-
Robinson Tech. Products, Inc.
Invincible Vacuum Cleaner Mfg. Co.
Kerns Mfg. Corp.
Kinney Vacuum Div., The New York Air
Brake Co.
Lamson Corp., The
Arthur S. La Pine & Co.
Leiman Brothers, Inc.
Litton Engrg. Labs.
Oxygen Equipment & Service Co.
*RADIO CORP. OF AMERICA

Red Point Corp.
Resitron Labs., Inc.
Scientific Engrg. Labs., Inc.
Standard Steel Corp., Cambridge Div.
F. J. Stokes Corp.
Temperature Engrg. Corp.
Vacuum Research Co.
Vacuum Specialties Co., Inc.
W. M. Welch Scientific Div., W. M.
Welch Mfg. Co.

VALVE GUIDES

Accessory Products Co., Div.-Textron Inc.
American Brake Shoe Co.
Ampco Metal, Inc.
George W. Dahl Co., Inc.
General Controls Co.
Kieley & Mueller, Inc.
*MARTIN CO., THE, DENVER DIV.
Thompson Ramo Woodriddle Inc.

VALVE OPERATOR

Accessory Products Co., Div.-Textron Inc.
Allenair Corp.
Anderson, Greenwood & Co.
*ANNIN CO., THE
Barber-Colman Co.
*BEAVER PRECISION PRODUCTS INC.
Conoflow Corp.
George W. Dahl Co., Inc.
Darling Valve & Mfg. Co.
Digital Sensors Inc.
Fisher Governor Co.
General Controls Co.
B. H. Hadley, Inc.
Hammel-Dahl Div.-General Controls Co.
Hydra-Power Corp.
Jamesbury Corp.
Kieley & Mueller, Inc.
Ledeen Inc.
Leslie Co.

*MARTIN CO., THE, DENVER DIV.

Mason-Neilan
Minneapolis-Honeywell Regulator Co.,
Missile Equipment Div.
Research Controls
Robbins Aviation, Inc.
Robertshaw-Fulton Controls Co., Fulton
Sylphon Div.
Sargent Engrg. Corp.
Sierra-Schroeder Controls, Div.-Idaho
Maryland Mines Corp.
Sirvalco Systems Corp.
Skinner Electric Valve Div., The Skinner
Chuck Co.
Talley Corp., The
Vacuum Research Co.
Weston Hydraulics Ltd., Sub.-Borg-
Warner Corp.

VALVE OPERATOR, ELECTRIC

Accessory Products Co., Div.-Textron Inc.
Actuation Research Corp.
Allenair Corp.

*ANNIN CO., THE

Atkomatic Valve Co., Inc.
Automatic Switch Co.
Barber-Colman Co.
Belfab Corp., The
Conoflow Corp.
Darling Valve & Mfg. Co.
Digital Sensors Inc.
Fisher Governor Co.
General Controls Co.
Guided Missile Div., The Firestone Tire &
Rubber Co.
Hammel-Dahl Div.-General Controls Co.
Hays Corp., The
Hydra-Power Corp.
Jamesbury Corp.
Kieley & Mueller, Inc.
Kingston Electronics-Div.-Kingston Indus-
tries Inc.
Lear, Inc.
Marotta Valve Corp.

*MARTIN CO., THE, DENVER DIV.

Mason-Neilan
Minneapolis-Honeywell Regulator Co.,
Missile Equipment Div.
Petch Mfg. Co.
Research Controls
Robbins Aviation, Inc.
Robertshaw-Fulton Controls Co., Fulton
Sylphon Div.
Rockwood Sprinkler Co., Div.-The Game-
well Co.
Sargent Engrg. Corp.
Sierra-Schroeder Controls, Div.-Idaho
Maryland Mines Corp.

Skinner Electric Valve Div., The Skinner
Chuck Co.
Talley Corp., The
United Control Corp.
Valcor Engrg. Corp.
Veeco Vacuum Corp.
Weston Hydraulics Ltd., Sub.-Borg-Warner
Corp.

VALVE OPERATOR, HYDRAULIC

Accessory Products Co., Div.-Textron Inc.
Acme Industrial Co.
Actuation Research Corp.
*ANNIN CO., THE
Belfab Corp., The
Bendix Aviation Corp.
George W. Dahl Co., Inc.
Darling Valve & Mfg. Co.
Digital Sensors Inc.
Foster Wheeler Corp.
General Controls Co.
General Regulator Corp.
Guided Missile Div., The Firestone Tire &
Rubber Co.
B. H. Hadley, Inc.
Hammel-Dahl Div.-General Controls Co.
Haskel Engrg. & Supply Co.
Hydra-Power Corp.
Hydromatics, Inc.
Integral Corp.
Jamesbury Corp.
Kieley & Mueller, Inc.
Kohler Co.
Lear, Inc.
Ledeen Inc.
*MARTIN CO., THE, DENVER DIV.
Mason-Neilan
Minneapolis-Honeywell Regulator Co.,
Missile Equipment Div.
Oil-Dyne, Inc.
Peacock Engrg. & Mfg. Co.
Pegasus Labs., Inc.
Petch Mfg. Co.
Research Controls
Robbins Aviation, Inc.
Robertshaw-Fulton Controls Co., Fulton
Sylphon Div.
Rockwood Sprinkler Co., Div.-The Game-
well Co.
Ronson Hydraulic Units Corp.
Rucker Co., The
Sargent Engrg. Corp.
Sierra-Schroeder Controls, Div.-Idaho
Maryland Mines Corp.
Sirvalco Systems Corp.
A. O. Smith Corp., Smith-Erie Div.
Unit'flow Valve Corp.
United Aircraft Products, Inc.
Vickers Inc.
Vickers, Inc., Mich.
Weston Hydraulics Ltd., Sub.-Borg-Warner
Corp.
Whittaker Controls, Div.-Telecomputing
Corp.

VALVES

- a. Accumulator Charging
- b. Acid
- c. Acid Resistant
- d. Air
- e. Anti-Gravity
- f. Automatic Shutoff
- g. Automatic Shutoff, Hydraulic
- h. Bleeder
- i. By-Pass
- j. Check & Check Relief
- k. Check-Hydraulic, Gas
- l. Control
- m. Cryogenic
- n. Diaphragm
- o. Dump
- p. Electronic Solenoid
- q. Engine Inlet
- r. Exhaust
- s. Float
- t. Globe
- u. Helium
- v. High Pressure Gas
- w. Hydraulic System
- x. Hydrogen
- y. Motor Operated
- z. Needle
- a-1. Plug
- b-1. Pneumatic
- c-1. Power Control
- d-1. Pressure Regulating
- e-1. Propellant
- f-1. Relief & By-Pass
- g-1. Restrictor
- h-1. Rocket Fuel

i-l. Rotary
 j-l. Sequence
 k-l. Servo

 l-l. Shuttle
 m-l. Shuttle Solenoid
 n-l. Solenoid
 o-l. Strainer
 p-l. Suction Regulating
 q-l. Surge
 r-l. Thermostatic
 s-l. Throttling
 t-l. Transfer
 u-l. Vacuum Selector & Check
 v-l. Vapor Tight
 w-l. Venturi Opening

 ACF Industries Inc., c, d, i, n, v, y, z,
 a-l, b-l, d-l, f-l, i-l, n-l, r-l, s-l, t-l,
 v-l, w-l.
 Accessory Controls & Equipment Corp.,
 d, r, v, b-l, d-l.
 Accessory Products Co., Div.-Textron Inc.,
 a, d, f, l thru p, r thru v, y, z, a-l
 thru j-l, l-l thru q-l, s-l, t-l, u-l, w-l.
 Actuation Research Corp., a, f, g, m, n,
 u thru y, a-l, b-l, d-l, g-l, h-l, m-l,
 Adel Precision Products of Calif., Div.-
 General Metals Corp., d, f, g, i thru l,
 o, v, w, y, b-l, c-l, f-l, i-l, j-l, l-l,
 n-l.
 Aero Supply Mfg. Inc., c, d, f thru j, l
 thru p, s, u, y, x, y, c-l, d-l, f-l, h-l,
 i-l, k-l thru q-l, s-l, t-l.
 *AEROJET-GENERAL CORP., b, c, d, l, m,
 e-l, h-l.
 Aerotec Industries Inc., Aircraft Equipment
 Div., d thru p, s, u thru y, b-l, c-l, d-l,
 f-l, h-l, l-l, m-l, n-l, t-l, u-l, w-l.
 Agricultural Aviation Engineering Co.
 Inc., i, l, o, y, i-l, o-l, t-l, w-l.
 Air Reduction Sales Co., Inc.-Air Reduction
 Co. Inc., m, u, y, d-l.
 Airborne Research & Development Corp.,
 f, i, j, m, r, u, v, d-l, f-l, q-l, u-l.
 Aircraft Accessory Turbine Dept.-General
 Electric Co., l, d-l, k-l.
 Airdrome Parts Co., w-l.
 *AIRESEARCH MFG. OF ARIZONA, a, d
 thru y, a-l thru w-l.
 *AIRESEARCH MFG. CO., DIV.-THE GAR-
 RETT CORP., d, f, j, l thru p, u, v, x,
 y, z, a-l, b-l, d-l, k-l, n-l, p-l, q-l,
 s-l.
 Alco Valve Co., s, w, c-l, d-l, n-l.
 Allen Aircraft Products, Inc., f, i, j, k,
 m, n, o, s, w, z, a-l, b-l, d-l, f-l, p-l,
 q-l, u-l.
 Allenair Corp., d, f, h, j, l, n, b-l, l-l,
 m-l, n-l.
 Allied Control Co., Inc., n-l.
 Allied International Corp., j, k, s, v, b-l,
 d-l, f-l, g-l.
 Allis-Chalmers
 Allison Div., General Motors Corp., w,
 k-l.
 Alloy Steel Products Co., c, i, m, t, u,
 v, x, y, z, h-l.
 Altair, Inc., j, p, v, b-l, d-l, g-l, l-l.
 American Agile Corp., c, t.
 American Brake Shoe Co.
 American Brake Shoe Co., Kellogg Div.,
 q-l.
 American Instrument Co., Inc., f thru o,
 u thru x, z, b-l, d-l, f-l, n-l.
 American Power Jet Co., d-l, f-l.
 American Standard Products, Inc.
 Ampco Metal, Inc., c, a-l.
 Anderson, Greenwood & Co., a thru d,
 h thru k, m, o, t thru y, a-l, b-l, e-l,
 f-l, h-l, s-l, t-l, v-l, w-l.
 *ANNIN CO., THE, f, g, i, j, l, t, v, w,
 y, b-l, s-l.
 Arkin Industries, Inc., d, f thru q, s, w,
 z, a-l thru d-l, f-l, g-l, i-l, j-l, l-l,
 m-l, n-l, p-l, q-l, s-l.
 Armament Div.-Universal Match Corp., l,
 v, e-l.
 Arnav Aircraft Associates, Inc., h, j, k,
 w, z, g-l, h-l, u-l.
 Aro Equipment Corp., The, j, m, p-l.
 Aro-Firewall Co. Inc., Sub.-The Aro Equip.
 Corp., e, j, m, o, v, d-l, f-l.
 Raymond Aitchley, Inc., k-l.
 Atkomatic Valve Co., Inc., b, c, d, f, g,
 o, p, t thru x, e-l, f-l, h-l, n-l, s-l, v-l.
 Automatic Switch Co., b, c, d, f, g, i, l,
 n, p, r, t, u, v, x, z, b-l, c-l, n-l, q-l.
 Automatic Timing & Controls, Inc., l, d-l.
 Auto-Valve Inc., h, i, j, o, z, b-l, q-l, o-l.
 Barber-Colman Co., d, f, h, i, j, l, y,
 b-l, i-l, j-l, s-l.
 Barksdale Valves, d, l, w, b-l, n-l.
 Bastian-Blessing Co., The, d, h, i, j, l, m,
 n, t, u, v, x, z, d-l, f-l, p-l, u-l.
 Beckman & Whitley, Inc., Missile Products
 Div., e-l.
 Belfab Corp., The, a thru y, b-l, c-l, d-l,
 f-l, g-l, h-l, k-l, q-l, s-l, u-l, v-l, w-l.
 Bellows-Valvaair Divs., d, n, p, b-l, d-l,
 n-l.
 Benbow Mfg. Corp., d, f, g, i thru l, u,
 v, w, b-l, d-l, f-l, g-l, n-l.
 Bendix Aviation Corp., l, p, w, b-l, c-l,
 h-l, k-l, n-l.
 *BENDIX AVIATION CORP., HAMILTON
 DIV., w, k-l.
 Bendix Aviation Corp., Pioneer-Central
 Div., j, m, f-l.
 *BENDIX PRODUCTS DIV., BENDIX AVIA-
 TION CORP., n-l.
 Bendix-Pacific Div., Bendix Aviation Corp.,
 g, h, i, l, p, w, y, b-l, d-l, f-l, g-l,
 j-l thru n-l, t-l.
 Bendix Ufca Div., Bendix Aviation Corp.,
 d, f thru l, n, o, p, v, b-l, c-l, d-l,
 f-l, j-l, k-l, n-l, p-l, s-l.
 Benson Mfg. Co., j, m, e-l, h-l.
 Bobrick Aero Missile Products, c, d, f, j,
 k, m, r, v, w, b-l, d-l, f-l, g-l, h-l, l-l,
 n-l.
 Bowser Inc., Defense Div., j, w, x.
 Bruning Co., The, d, i, k, w, b-l, f-l, f-l
 Burklyn Co., i, k.
 Cadillac Gage Co., l, w, b-l, k-l.
 Caltron Products Co., n-l.
 Captive Seal Corp., a, d, f thru l, o, p,
 u thru y, b-l thru h-l, j-l, l-l, m-l, n-l,
 p-l thru w-l.
 Carleton Aviation Co., Inc., a thru d, f,
 g, i, l, m, n, u thru x, b-l, d-l, e-l, f-l,
 h-l, p-l.

 J. C. Carter Co., The, f, i, j, l, o, s, y,
 d-l thru h-l, s-l, t-l, w-l.
 A. W. Cash Valve Mfg. Corp., i, n, w,
 d-l, f-l, r-l.
 Chance Vought Aircraft, Inc., w, k-l.
 Chase Brass & Copper Co., Inc., j, t, z.
 Chiksan Co., Sub.-Food Machinery &
 Chemical Corp., c, m, y, y, a-l.
 Clark Controller Co., The, d, l, n, r, n-l.
 Clover Industries, Inc., a-l, n-l.
 Commercial Shearing & Stamping Co.,
 j, l, w, d-l, f-l.
 Components Corp., b, c, d, g, i, l, m,
 o, u thru y, b-l, c-l, e-l, h-l, i-l, n-l,
 v-l.
 Conax Corp., n, o, v, x, e-l, v-l.
 Conoflow Corp., c, d, f, l, n, t, v, b-l,
 c-l, d-l, s-l.
 Consolidated Controls Corp., d, f, g, i
 thru m, o, q, w, y, b-l, c-l, d-l, f-l,
 h-l, k-l, l-l, n-l, p-l, q-l, r-l.
 Consolidated Diesel Electric Corp., j, t.
 Consolidated Vacuum Corp., l, t, z, b-l,
 d-l, e-l, h-l, t-l, u-l.
 Coppus Engrg. Corp., f, g.
 Cornelius Co., The, Aero Div., d, e, j, k,
 n, o, r, v, b-l, d-l, f-l, g-l.
 Cornell Deep Drawing Co. Div.-Lanes
 Industries Corp., d, f, g, i, k, l, u thru x,
 z, a-l, b-l, d-l, f-l, j-l, n-l, s-l.
 Crane Co., b, c, d, i, j, m, n, t, u, v,
 y, z, d-l, e-l, f-l, h-l.
 Crane Co., Industrial Products Group, b,
 c, d, i, j, m, n, t, v, y, z, a-l, d-l, f-l,
 h-l, s-l.
 Cryogenic Engrg. Co., m.
 George W. Dahl Co., Inc.
 Daimo Victor Co., Div.-Textron, Inc., w,
 k-l.
 Darling Valve & Mfg. Co., b, c, d, i, j,
 k, u, y, v, w-l.
 Joe Davidson & Associates, d, i, j, l, p,
 v, w, y, z, f-l, j-l, w-l.
 Dean & Benson Research, Div.-Benson Mfg.
 Co., m, e-l, h-l.
 De Havilland Aircraft of Canada, Ltd.,
 Special Products Div., p, v, b-l, g-l,
 i-l, n-l.
 Denison Engrg. Div., American Brake Shoe
 Co., g, h, j, k, l, p, w, y, d-l, f-l, i-l,
 k-l, n-l, q-l.
 Detroit Stamping Co.
 Dezurik Corp., b, c, d, f, g, i, l, u, w, y,
 a-l, b-l, e-l, h-l, s-l, t-l, v-l.
 Dill Mfg. Co., The, a, d.
 Dukess Co., Inc., w.
 Dumont Engrg. Co., k.
 Dynamic Controls Corp., d, l, m, o, p,
 v, w, b-l, d-l, f-l, n-l, t-l, v-l.
 Eastern Industries Inc., k-l.
 Eckel Valve Co., a, f thru d, h, i, l, m, o,
 p, u thru x, b-l, f-l, h-l, n-l, v-l, w.
 Eclipse Fuel Engrg. Co., l, n, y, d-l, n-l.
 Edgington Metal Specialty Co., d-l.
 Edwards High Vacuum Ltd., l, n, p, z,
 b-l, d-l, u-l.
 Electrol Inc., a, g, i, j, o, p, w, z, b-l,
 d-l, f-l, i-l, j-l, l-l, m-l, n-l.
 Era Engrg. Inc., g.
 Essex Mfg. Co., Inc., j, m, l-l.
 Fae Instrument Corp., p.
 Fairbanks Co., The, d, j, t, z, s-l.
 Fansteel Metallurgical Corp., b.
 Fischer & Porter Co., c, d, l, n, y, b-l,
 d-l.
 Fisher Governor Co., f, l, m, s, y, b-l,
 d-l.
 Flight Refueling Inc., b, f, g, j thru m,
 o thru s, u thru x, a-l, b-l, d-l, e-l,
 f-l, n-l, q-l.
 Fluid Regulators Corp., a, h, j, w, d-l,
 f-l, g-l, h-l, j-l, n-l.
 Frebank Co., m, u, v, w, b-l, j-l, n-l.
 Frick Co., s, t, v, f-l, n-l.
 Futurecraft Corp., b, c, d, f thru n, p,
 t thru z, b-l thru f-l, h-l, i-l, j-l, l-l,
 m-l, n-l, p-l, q-l, s-l.
 Galland-Henning Mfg. Co., Nopak Div.,
 d, l, w, z, b-l, i-l, n-l.
 Garwin, Inc., d, i, j, z, f-l, p-l, u-l.
 General Controls Co., c, d, f, i thru l,
 n, p, r thru y, a-l thru e-l, h-l, i-l,
 n-l, o-l, r-l, s-l, t-l.
 General Kinetics Inc., a thru p, s thru z,
 a-l thru w-l.
 Giffilan Bros. Inc., d, h thru l, p, w, b-l,
 d-l, j-l, k-l, n-l.
 J. D. Gould Co., n-l.
 Great Lakes Mfg. Corp., d, h thru k, p,
 w, b-l, d-l, f-l, g-l, n-l, u-l.
 Grinnell Co., c, d, n, o, t, u, x, c-l, s-l.
 Grove Valve & Regulator Co.
 Guided Missile Div., The Firestone Tire &
 Rubber Co., b, d, f, q, b-l, e-l, h-l,
 i-l, k-l.
 B. H. Hadley, Inc., a thru p, r thru z,
 b-l thru n-l, p-l thru t-l, y-l.
 Hamilton Standard, Div.-United Aircraft
 Corp., f, i, j, l, o, b-l, d-l, f-l.
 Hammel-Dahl Div.-General Controls Co.,
 c, d, l, n, s thru v, z, a-l, b-l, d-l,
 f-l, h-l, n-l, s-l.
 Hammett-Mercury-Rex Div., a, t, n-l.
 Harman Equipment Co., j.
 George E. Harris & Co., Inc., j, m, p,
 w, x, b-l, d-l, h-l.
 Haskel Engrg. & Supply Co., a thru l, n,
 p, s, u thru x, z, a-l thru d-l, f-l, g-l,
 k-l thru n-l, q-l, t-l, u-l, v-l.
 Hays Mfg. Co., n, n-l, o-l.
 Herlo Corp., h thru l, n thru s, w, z, a-l
 thru f-l, h-l, l-l thru o-l, r-l, u-l.
 High Vacuum Equipment Corp., Sub.-
 Robinson Tech. Products, Inc., d-l, u-l.
 Highland Engrg. Co., n, f-l.
 Hills-McCanna Co., c, d, f, g, n, y, s-l.
 Hoefner Corp., b, c, d, f, g, i thru o,
 u thru x, b-l, d-l, e-l, f-l, h-l, k-l, l-l,
 o-l, r-l, s-l, t-l.
 Hofman Labs., Inc., m.
 Hoke Inc., c, d, f, j, k, l, n, t thru x, z,
 a-l, b-l, d-l, n-l, s-l, v-l.
 Hughes Tool Co. Aircraft Div., d, j, l, r,
 u, v, w, y, b-l, d-l, e-l, j-l, k-l, n-l.
 Huyck Systems Co., g, i, j, k, o, p, w, y,
 b-l, d-l, f-l thru i-l, k-l thru n-l, t-l,
 w-l.

 Walter J. Hyatt Co., The, a thru d, f thru p
 thru s, z, a-l, b-l, d-l thru n-l, t-l,
 u-l, v-l.
 Hydra-Power Corp., g thru m, o, p, v, w,
 y, b-l, c-l, d-l, f-l thru n-l, t-l.
 Hydraulic Press Mfg. Co., The, Div.-
 Koehring Co., g thru j, p, w, c-l, d-l,
 f-l, j-l, k-l, l-l, n-l, q-l.
 Hydraulic Research & Mfg. Co., f, g, i
 thru l, o, p, w, a-l, c-l, d-l, f-l, j-l,
 k-l, n-l, t-l.
 Hydromatics, Inc., f, g, l, m, o, u thru
 y, b-l, e-l, h-l, i-l, s-l.
 Ideal-Aerosmith, Div.-Royal Industries,
 Inc., b, c, d, l, z, k-l.
 Imperial Brass Mfg. Co., The, c, z, a-l.
 Inferno Mfg. Corp., j, z, v-l.
 Integral Corp., a, b, f, g, h, j, k, m, t,
 w, z, u-l, b-l, f-l, g-l, n-l.
 International Dynamics Corp., b-l,
 d-l.
 Interstate Electronics Corp., f, g, l, m,

p, u, x, d-l, f-l, k-l, m-l, n-l, r-l.
Interstate Engrg. Corp., d, f thru j, l, m,
q, s, u, w thru z, b-l, c-l, d-l, f-l,
g-l, i-l, n-l, t-l.
James, Pond & Clark, Inc., a, b, d, h
thru k, m, s, u thru x, a-l, b-l, f-l,
g-l, l-l.
Jamesbury Corp., b, d, f, i, m, u thru
y, e-l, h-l, s-l, v-l.
Janitrol Aircraft Div.-Midland-Ross Corp.,
d, f thru p, v, w, b-l, d-l, f-l, l-l,
m-l, n-l, r-l, t-l, u-l.
Jeffrey Mfg. Co., The, i-l.
*KEARFOTT DIV., GENERAL PRECISION,
INC., l, k-l.
Kemp Aero Products, a thru p, u thru x,
z, b-l, c-l, d-l, f-l, g-l, h-l, j-l thru
n-l, p-l thru t-l.
Kerns Mfg. Corp.
Kidco Inc., i, j, w, f-l, j-l thru n-l.
Kidde Aero-Space Div., Walter Kidde &
Co., Inc., d, i, v, b-l, d-l, f-l, g-l, k-l,
n-l.
Kiele & Mueller, Inc., a thru d, f thru
i, l thru o, r thru z, b-l thru f-l, i-l,
o-l, p-l, s-l, t-l, w-l.
Kingston Electronics Div.-Kingston In-
dustries Inc., y.
Kinney Vacuum Div., The New York Air
Brake Co.
Koehler Aircraft Products Co., Inc., f,
g, i thru s, u thru y, b-l, d-l thru
h-l, n-l, o-l, q-l, s-l, t-l, u-l.
Kohler Co., c, d, f thru l, n, o, r, s, t,
y, w, z, a-l, b-l, d-l, f-l, g-l, h-l, u-l.
Koozant-Wagner Electric Co., Inc., a thru
f, i, l, m, p, u, v, w, a-l, b-l, c-l,
e-l, m-l, n-l.
Ladish Co., b, c, j, n, t, y, z, a-l, o-l,
u-l.
Langley Corp., i, w, b-l.
Lapp Insulator Co., Inc., Radio Special-
ties Div., b, c.
Lear, Inc., a thru l, n thru s, v, w, y,
b-l, c-l, e-l thru n-l, p-l, q-l, s-l
thru v-l.
Ledeen, Inc., v, b-l, l-l.
*WALLACE O. LEONARD, INC., a, b, d,
f thru r, u thru x, b-l, thru h-l, k-l,
n-l, q-l, s-l, w-l.
Leslie Co., c, d, f, g, i, m, n, u, v, w,
b-l, c-l, d-l, p-l, r-l, s-l, t-l.
Lithium Corp. of America Inc., The
Fulton-Ircon Div., o, v, b-l, e-l, h-l.
Lockheed Aircraft Corp., Missiles &
Space Div., m, o, u.
Lundy Mfg. Corp., d, f, n, y.
Luzerne Rubber Co., b, c, i, s, a-l.
M. C. Mfg. Co., i, j, l, m, p, u thru
x, b-l, d-l, f-l, g-l, i-l, j-l, l-l, n-l,
t-l.
Marman Div., Aeroquip Corp., j.
Marotta Valve Corp., a thru d, f thru
m, o, p, u thru x, a-l, b-l, d-l, thru
h-l, j-l, l-l, m-l, n-l, p-l, v-l.
Marsh Instrument Co., Div.-Colorado Oil
& Gas Corp., d, n, s, t, w, z, d-l,
n-l, o-l, r-l.
Mason-Neilan, l, m, n, s, t, y, z, a-l,
b-l, d-l, f-l, s-l.
Mead Specialties Co., Inc., d, h, l, o,
b-l, d-l, l-l, n-l.
Mechanical Air Controls, Inc., d, p, b-l.
Menasco Mfg. Co., b, c, d, f, i, l thru
p, r, t, u, v, x, y, b-l, c-l, e-l, h-l,
m-l, n-l, s-l, u-l.
Midwestern Instruments, Inc., p, k-l.
Minneapolis-Honeywell Regulator Co.,
Missile Equipment Div.
Mitchell Camera Corp.
National Cylinder Gas, Div.-Chemetron
Corp., u, y, x, d-l.
National Welding Equipment Co., u, x.
National Water Lift Co., Div.-Cleveland
Pneumatic Industries Inc., l, m, o, p,
w, c-l thru f-l, h-l thru k-l, n-l, s-l,
t-l.
New York Air Brake Co., The, Water-
town Div., w.
Newark Wire Cloth Co., o-l.
Northrop Corp., l, p, c-l, k-l.
Ow-Jordan, b, c, d, f, i, j, l, n, b-l,
d-l, f-l, p-l, r-l, s-l, v-l.
Olson Empire Inc., i, r, s, t, z, d-l,
f-l, n-l, o-l.
Oil-Dyne, Inc., w.
Oil-Rite Corp., h, n-l.
On Mark Couplings, Inc., a thru d, f,
g, i, k, m, u thru y, b-l, e-l thru i,
l-l, t-l.
Oxygen Equipment & Service Co., n, u,

v, x, z, p-l, u-l.
Ozone Metal Products Corp., a, g thru
l, o, p, w, z, b-l, c-l, d-l, f-l, g-l, i-l
thru n-l.
PSP Engrg. Co., Div.-IMC Magnetics
Corp., N. Y., d, l, p, b-l, n-l.
Parker Hydraulics Div., Parker-Hannifin
Corp., a, j, l, w, f-l.
Parker-Hannifin Corp., g, l, v, w, y,
b-l, d-l, f-l, g-l, j-l, k-l, n-l.
Peacock Engrg. & Mfg. Co., d, h thru m,
v, w, b-l, d-l, e-l, f-l, j-l, l-l.
Pegasus Labs., Inc., p, d-l, k-l, n-l.
Pesco Products Div.-Borg-Warner Corp.,
k-l.
Richard Philip Co.
Pneu-Hydro Valve Corp., a thru s, u
thru z, a-l, thru j-l, l-l thru w-l.
Wm. Powell Co., The, c, d, i, j, l, m,
t, y, z, a-l, e-l, f-l, s-l.
Powers Regulator Co., The, n, t, b-l,
d-l, r-l.
Precision Equipment Co., Inc., j, k, m,
u thru x, z, a-l, b-l, d-k, f-l, h-l, s-l,
t-l, w-l.
Propellex Chemical Div., Chromalloy
Corp., e-l.
Puritan Aerospace Div.-Puritan Com-
pressed Gas Corp., b-l.
R-P&C Valve Div., American Chain &
Cable Co., Inc., t, a-l.
Randall Engrg. Corp., c, d, j, k, m, n,
u thru x, b-l, d-l, f-l, n-l.
Reaction Motors Div., Thiokol Chem.
Corp., i, m, r, d-l, f-l, w-l.
Republic Mfg. Co., a, c, d, f thru l,
n, o, p, t thru z, a-l, b-l, d-l, f-l
thru j-l, l-l, n-l, o-l, s-l, u-l, v-l.
Research Controls, b, c, d, i, l thru o,
u, v, x, y, z, b-l, d-l, h-l, s-l.
Resistoflex Corp., c.
Revere Corp. of America, Sub., Neptune
Meter Co., s.
Rivett Lathe & Grinder Inc., l, w, b-l,
d-l, f-l, n-l.
J. R. Robbins Corp., g, h, i, l, o, p, w,
b-l, c-l, d-l, g-l, j-l, l-l, m-l, n-l,
q-l, t-l.
Robbins Aviation, Inc., c, d, t, u, w thru
z, a-l, b-l, s-l.
Robertshaw-Fulton Controls Co., A & I
Div., d, i, j, u, v, w, y, b-l, d-l, f-l, n-l.
Robertshaw-Fulton Controls Co., Fulton
Sylphon Div., l, n, s, t, v, w, y, z,
b-l, d-l, f-l, n-l, r-l, s-l, u-l, v-l.
Rocketdyne Div.-North American Avia-
tion, Inc. x.
Rockwood Sprinkler Co., Div.-The Game-
well Co., d, f, g, m, y, h-l, o-l.
Ronson Hydraulic Units Corp., a, c, d,
g thru m, o, p, r, u thru z, a-l thru
g-l, i-l thru n-l, q-l, t-l.
Rotex Punch Co., Inc., d, h, l, n-l.
Milton Roy Co., i, f-l.
Ruland Mfg. Co., Inc., a, z, b-l.
Ryan Industries, Inc., Dept. M., m.
S-P Mfg. Corp., The, b-l.
Sanders Associates, Inc., w, k-l.
Santa Barbara Research Center, k, m,
v, x, b-l, d-l, v-l.
Sargent Engrg. Corp., d, g, i thru p,
u thru z, a-l thru d-l, f-l, g-l, i-l
thru n-l, s-l, t-l, v-l, w-l.
Schnafer Air Industries, Inc., a.
Schutte & Koerting Co., f, h, i, j, r,
s, t, y, d-l, f-l, o-l.
Scott Aviation Corp., d, f, v, d-l, i-l.
Scovill Mfg. Co., d.
Sierra Engrg. Co., j, k, f-l, h-l.
Sierra-Schroeder Controls, Div.-Idaho
Marivand Mines Corp., a, f thru m,
o, p, u, v, w, y, z, a-l thru g-l, i-l,
j-l, l-l, m-l, n-l, r-l thru u-l.
Simmons Aerossories, Inc., a thru d,
f, g, l, m, n, s thru z, a-l thru k-l,
q-l, t-l, u-l, v-l.
Sinclair-Collins Valve Co., Div.-IBEC, c,
d, k, i, n, b-l, s-l.
Sirvalco Systems Corp., b, c, d, f thru
l, l, m, o, p, q, u thru y, b-l, d-l,
e-l, h-l, i-l, n-l, p-l, s-l.
Skinner Electric Valve Div., The Skinner
Chuck Co.
Skyvalve, Inc., b, c, d, g, i, j, l, m, v,
w, x, b-l, d-l, f-l, h-l, k-l, n-l, v-l.
A. O. Smith Corp., Smith-Erie Div., w,
d-l, f-l.
Solar Aircraft Co., a, h, i, l, f-l.
South Wind Div., Stewart Warner Corp.,

i, m, w, d-l, f-l.
Southwestern Valve Corp., b, c, d, j,
k, m, f thru y, a-l, b-l, d-l, e-l, f-l, h-l,
j-l, l-l, n-l, s-l, t-l, w-l.
Standard Steel Corp., Cambridge Div.,
m, t, v, x, e-l, t-l.
F. J. Stokes Corp., u-l.
A. U. Stone & Co., Inc., a, c, d, e, l,
thru m, u thru x, b-l, d-l thru h-l, o-l,
s-l.
Stratos Div.-Fairchild Engine & Airplane
Corp., d, f, i, j, m, x, b-l, d-l, f-l.
Sun Electric Corp., Aeronautical Div.,
h, j, k, f-l.
Sweetland Engrg. Co., d, w, b-l.
Tactair Valve Div.-Aircraft Products Co.,
d, i, k, l, p, v, w, b-l, d-l, g-l, j-l,
n-l.
Talley Corp., The, d, f, h, i, k, l, m, o,
p, u, v, x, y, b-l, c-l, n-l.
Tappo Group, Thompson Ramo Wool-
dridge Inc., i, j, p, w, y, b-l, f-l.
Taylor-Winfield Corp., d, n-l.
Technical Development Co., a-l.
Thompson Ramo Wooldridge Inc., i,
j, p, q, r, w, y, b-l, f-l.
Tranco Products, Inc., y, b-l, n-l.
Uniflow Valve Corp., b thru i, l thru o,
r, t thru z, b-l, d-l, e-l, h-l, s-l, t-l,
v-l.
United Aircraft Products, Inc., c, d, f thru
o, v, w, z, b-l, c-l, d-l, f-l thru r-l,
t-l, u-l, v-l.
United Control Corp., i, b-l.
United States Chemical Milling Corp., n,
s, i-l, k-l, n-l, o-l, q-l.
Vacuum Research Co.
Valcor Engrg. Corp., b, c, d, f thru i, k,
m, n, p, u thru x, z, a-l, b-l, h-l, l-l,
m-l, n-l, t-l, v-l, w-l.
Vanton Pump & Equipment Corp., b, c.
Vap-Air Aeronautical Products Div., Vapor
Heating Corp., d, b-l, d-l.
Veeco Vacuum Corp., p, b-l, n-l, s-l, v-l.
Versa Products Co., Inc., d, l, n, b-l, j-l,
l-l, n-l.
Vickers Inc., a, g, i thru l, p, w, y, c-l,
d-l, f-l, j-l, k-l, n-l, t-l.
Vickers Inc., Div.-Sperry Rand, a, g thru
m, p, w, c-l, d-l, f-l, i-l, k-l, n-l.
Vickers, Inc., Mich., a, f thru o, w, z, a-l,
c-l, d-l, f-l, h-l, j-l thru n-l, s-l, t-l.
Vinson Mfg. Co., Inc., a thru e, g thru p,
u thru y, a-l thru d-l, f-l, g-l, i-l thru
n-l, q-l, s-l thru v-l.
Waterman Hydraulics Corp., f, g, i thru
m, p, w, x, g-l, h-l, n-l, q-l, s-l.
*WEATHERHEAD CO., THE, d, f thru n,
p, q, s, t, v, w, y, z, b-l thru f-l, h-l,
k-l, n-l, o-l, p-l.
Weba, Inc., d, g thru j, f-l, g-l, q-l.
Western Sky Industries, k, m, u thru x,
d-l.
Westline Products Div.-Western Lithograph
Co., d.
Weston Hydraulics Ltd., Sub.-Borg-Warner
Corp., b, c, d, f thru p, u thru x,
a-l thru h-l, j-l thru n-l, q-l, t-l.
Whitton Machine Co., The, b-l, m-l.
Whittaker Controls, Div.-Telecomputing
Corp., b, c, d, f, g, i thru s, u, v, w,
y, z, a-l, b-l, d-l, f-l thru i-l, k-l thru
n-l, q-l, t-l.
Worthington Corp., d, l, n, v, w, y, b-l,
c-l, d-l, p-l, s-l.

VAPORIZERS, LIQUID OXYGEN

Air Products, Inc.
Air Reduction Sales Co., Div.-Air Reduc-
tion Co., Inc.
Cryogenerators, Inc.
Hofman Labs., Inc.
Linde Co. Div.-Union Carbide Corp.
Ronan & Kunz, Inc.
Ronan & Kunz, Inc., Cryogenic Div.
Rvar Industries, Inc. Dept. M.
Southwest Research Institute
Stanoard Steel Corp., Cambridge Div.
Superior Air Products Co.

VARNISH

Acme Wire Co.
Avondale Co., The
Better Finishes & Coatings Inc.
Border Chemical Co.
Columbia Technical Corp.
Dow Corning Corp.
E. I. Du Pont De Nemours & Co. Inc.
Emerson & Cuming, Inc.

Felton-Sibley & Co., Inc.
 Furane Plastics, Inc.
 Horsey, Robson & Co. Inc.
 Insulation Mfrs. Corp.
 Kish Industries, Inc.
 Krylon, Inc.
 Maas & Waldstein Co.
 Midland Industrial Finishes Co.
***MINNESOTA MINING & MFG. CO.**
 Naz-Dar Co.
 Penetone Co., The
 Raffi & Swanson, Inc.
 Raybestos-Manhattan, Inc.
 Sauerstein Cements Co.
 Schenectady Varnish Co., Inc.
 Silicones Div.-Union Carbide Corp.
 Special Products Dept., Melpar, Inc.
 Standard-Toch Chemicals, Inc.
 Vita-Var Corp.
 Westinghouse Electric Corp., Micarta Div

VESSELS

Aerocal Div., Aeronca Mfg. Corp.
 Alloy Products Corp.
 American Instrument Co., Inc.
 Ampco Metal, Inc.
 Arde-Portland, Inc.
 Bethlehem Steel Co.
 Brooks & Perkins, Inc.
 Brunswick Balke Collender Co., The, De-
 lense Products Div.
 California Stamping & Mfg. Co.
 Cornell Deep Drawing Co., Div.-Lanes
 Industries Corp.
 Farwell Metal Fabricating
 Foster Wheeler Corp.
 General American Transportation Corp.
 Graver Tank & Mfg. Co., Div.-Union Tank
 Car Co.
 Hahn & Clay
 Hofman Labs., Inc.
 Ingersoll Kalamazoo Div., Borg-Warner
 Corp.
 Kahn & Co., Inc.
 Kaiser Fleetwings, Inc.
 Kennametal Inc.
 Lycoming Div., Avco Corp.
 Menasco Mfg. Co.
 National Forge Co.
 National Tube Div.-United States Steel
 Corp.
 Nooter Corp.
 Norris-Thermador Corp.
 Portland Copper & Tank Works Inc.
 Pressed Steel Tank Co.
 Ryan Industries, Inc., Dept. M.
 Southwest Research Institute
 Standard Steel Corp., Cambridge Div.
 Trailmobile Inc.
 Uni-Flex Mfg. & Engrg. Inc.
 U. S. Pipe & Foundry Co., Steel & Tubes
 Div.
 Vilter Mfg. Co., The
 Weber Aircraft Corp.
 Wells Industries Corp.
 Young Development Div., Hercules
 Powder Co.

VIBRATION ABSORBERS

American Brass Co., The
 American Felt Co.
 American Latex Products Corp.
***AMERICAN STEEL FOUNDRIES,
 HAMMOND DIV.**
 Anaconda Metal Hose Div., The American
 Brass Co.
 Wallace Barnes Div. Associated Spring
 Corp.
 Barry Controls Inc.
 Bushings, Inc.
 Cobra Metal Hose Div. DK Mfg. Co.
 Continental Felt Co.
 Cordo Chemical Corp.
 D K Mfg. Co.
 Dayton Rubber Co., The
 Emertron, Sub.-Emerson Radio & Phono-
 graph Corp.
 Enfab Inc.
 Felters Co., The
 Firestone Indsl. Products Co., Div.-
 Firestone Tire & Rubber Co.
 Flock Process Co. Inc.
 General Tire & Rubber Co., The
 Industrial Products Div.
 B. F. Goodrich Industrial Products Co.
 George E. Harris & Co., Inc.
 Houdaille Industries, Inc., Buffalo
 Hydraulics Div.
 Hydra-Power Corp.
 K. W. Johnson & Co., Inc.

Johnson Metal Hose, Inc.
 Kemp Aero Products
 Kidde Aero-Space Div., Walter Kidde &
 Co., Inc.
 Lord Mfg. Co.
 MB Electronics
 Northrop Corp.
 Owens-Corning Fiberglas Corp.
 Propulsion Test Facilities Div.-MB
 Electronics
 Roberts Toledo Rubber Co., The
 Robinson Technical Products, Inc.
 Rose Mfg. Co.
 Rubbercraft Corp. of California
 Simmonds Aerocessories, Inc.
 Southwest Research Institute
 A. T. Stevens Co.
 Sun Electric Corp., Aeronautical Div.
 Taylor Devices, Inc.
 United States Rubber Co.
 Vibration Isolation Products

VIBRATION CONTROLS

Barry Controls Inc.
 Bushings, Inc.
 Dow-Elco, Inc.
 Emertron, Sub.-Emerson Radio & Phono-
 graph Corp.
 Enfab Inc.
 Firestone Indsl. Products Co., Div.-
 Firestone Tire & Rubber Co.
 Houdaille Industries, Inc., Buffalo
 Hydraulics Div.
 Hydra-Power Corp.
 K. W. Johnson & Co., Inc.
 Kahn & Co., Inc.
 Ling Electronics Div.-Ling-Altec
 Electronics, Inc.
 Lord Mfg. Co.
 MB Electronics
 Modern Design Div.-H. C. Schloer, Inc.
 Northrop Corp.
 Pegasus Labs., Inc.
 Robinson Technical Products, Inc.
 Southwest Research Institute
 Sun Electric Corp., Aeronautical Div.
 Unholtz-Dickie Corp.

VIBRATORS, INSTRUMENT PANEL

Emertron, Sub.-Emerson Radio & Phono-
 graph Corp.
 MB Electronics
 Telkor, Inc.

VIBRATORS, MULTIVIBRATORS

Compudyne Corp.
 Cornell-Dubilier Electric Corp.
 Delco Radio Div.-General Motors Corp.
 Emertron, Sub.-Emerson Radio & Phono-
 graph Corp.
 Land-Air Inc., Sub.-California Eastern
 Aviation, Inc.
 MB Electronics
 Northrop Corp.
 Stewart-Warner Electronics Div.

VIBRATORS, ULTRASONIC

Aeroprojects Inc.
 Bendix Aviation Corp.
 Emertron, Sub.-Emerson Radio & Phono-
 graph Corp.
 General Eyletric Co., Heavy Military
 Electronics Dept.
 MB Electronics
 Massa Div.-Cohu Electronics, Inc.
 National Ultrasonic Corp.
 Southwest Research Institute
 Westinghouse Electric Corp.

VICES

Brown & Sharpe Mfg. Co.
 Cincinnati Milling Machine Co., The
 Emmer Mfg. Co.
 Fenr Mfg. Co. The
 Miller Falls Co.
 Richards-Wilcox Mfg. Co.
 Swayne Robinson & Co.
 Vinco Corp.

VISCOMETERS

American Instrument Co., Inc.
 Automation Products, Inc.
 Bendix Aviator Corp., Cincinnati Div.
 J. W. Fecker Div., American Optical Co.
 Fischer & Porter Co.
 Fisher Scientific Co.
 Gardner Laboratory, Inc.
 General Electric Co., Apparatus Sales
 Div.

Hallikainen Instruments
 Southwest Research Institute
 United States Testing Co., Inc.

VOLTAGE SUPPLIES, DECADE

Calvert Electronics Inc.
 Datascan Inc.
 Daven Co., The
 Davenport Mfg. Co.
 Djeco, Div.-Djordjevic Engrg. Co.
 Electro Instruments, Inc.
 John Fluke Mfg. Co., Inc.
 Hammett-Mercury-Rex Div.
 Hewlett-Packard Co.
 Modern Design Div.-H. C. Schloer, Inc.
***RADIO CORP. OF AMERICA**
 Radio Development & Research Corp.
 Southwestern Industrial Electronics Co.
 Superior Electric Co., The
 Tel-Instrument Electronics Corp.
 Varo Mfg. Co., Inc.

VOLTMETERS

Adage, Inc.
 Airpax Electronics Inc., Cambridge Div.
 Airpax Electronics Inc., Seminole Div.
 American Machine & Foundry Co.,
 Government Products Group
 Assembly Products, Inc.
 B & H Instrument Co., Inc.
 Beckman Instruments, Inc., Berkeley Div.
 Beckman-Systems Div.
 Bendix Aviation Corp., Cincinnati Div.
 Boonton Electronics Corp.
***BRISTOL CO., THE**
 Bruno-New York Industries Corp.
 Burr-Brown Research Corp.
 Burton-Rogers Co., Sales Div.-Hoyt
 Electrical Instruments
 Calvert Electronics Inc.
 Carol Electronics Corp.
 Columbia Electric Mfg. Co.
***CONSOLIDATED ELECTRODYNAMICS
 CORP.**
 Cubic Corp.
 Daven Co., The
 Daystrom Inc., Weston Instruments Div.
 Decker Corp., The
 DeJur-Amsco Corp., Electronic Sales Div.
 Electric Design & Mfg. Co.
 Electro Instruments, Inc.
 Electronic Applications, Inc.
 Empire Products Sales Corp.
 Epic, Inc.
 Esterline-Angus Co., The
 Flow Corp.
 John Fluke Mfg. Co., Inc.
 Franklin Electronics Inc.
 General Electric Co., Apparatus Sales
 Div.
 Hammett-Mercury-Rex Div.
 Helipot Div.-Beckman Instruments, Inc.
 Hewlett-Packard Co.
 Hickok Electrical Instrument Co., The
 Hoyt Electrical Instrument Works, Inc.,
 Burton Rogers Co.
 Ideal Precision Meter Co., Inc.
 Industrial Devices, Inc.
 Interstate Electronics Corp.
 Jennings Radio Mfg. Corp.
 Kay Electric Co.
 Keithley Instruments, Inc.
 Wayne Kerr Corp.
 Kin Tel Div.-Cohu Electronics, Inc.
 Marconi Instruments
 Marion Instrument Div.-Minneapolis-
 Honeywell Regulator Co.
 Meters Inc.
 Metronix, Inc., Sub.-Assembly Products,
 Inc.
 Motorola, Inc.
 National Electronics
 New England Scientific Instruments Co.
 Non-Linear Systems Inc.
 Pace Electrical Instruments Co., Inc.
 Pace Electronics Co., Inc.
 Q. V. S. Inc.

***RADIO CORP. OF AMERICA**
***RCA, RCA SERVICE CO. GOVT SERV-
 ICE DEPT., SYSTEMS ENGRG. FACILITY**
 Rawson Electronics Instrument Co.
 Sangamo Electric Co.
 Sensitive Research Instrument Corp.
 Servo-Ter Products Co.
 Sierra Electronic Corp., Div.-Philco
 Corp.
 Simpson Electric Co.
 Southwestern Industrial Electronics Co.
 Specialty Electronics Development Corp.

Sun Electric Corp., Aeronautical Div.
Sunshine Scientific Instrument
Systrom Corp.
Technology Instrument Corp.
Trio Laboratories, Inc.
Triplett Electrical Instrument Co.
Wacline, Inc.
W. M. Welch Scientific Div., W. M.
Welch Mfg. Co.
Westinghouse Electric Corp.

WARNING UNITS, FUEL PRESSURE

ACF Industries Inc.
Aero Instrument Co.
Aerotec Industries Inc., Aircraft Equip-
ment Div.
Bendix Aviation Corp.-Montrose Div.
A. Biederman, Inc.
CG Electronics Corp.
California Plasteck Inc.
Consolidated Controls Corp.
Crescent Engrg. & Research Co.
Custom Component Switches, Inc.
Daystrom Inc., Pacific Div.
Thomas A. Edison Ind. Instrument Div.-
Mc Graw-Edison Co.
George E. Harris & Co., Inc.
Leach Corp.
***MARTIN CO., THE, DENVER DIV.**
Melatron Corp.
Radar Relay, Inc.
Simmonds Aerocessories, Inc.
Southwest Research Institute
Westport Development & Mfg. Co., Inc.

WARNING UNITS, TEMPERATURE

Avien, Inc.
B & H Instrument Co., Inc.
A. Biederman, Inc.
CG Electronics Corp.
California Plasteck Inc.
Conax Corp.
Consolidated Controls Corp.
Daystrom Inc., Pacific Div.
Thomas A. Edison Ind. Instrument Div.-
Mc Graw-Edison Co.
Fenwal Inc.
Illinois Testing Laboratories, Inc.
Kidde Aero-Space Div., Walter Kidde &
Co., Inc.
Lab. for Electronics, Inc.
Leach Corp.
***MARTIN CO., THE, DENVER DIV.**
Norwalk Thermostat Co.
Santa Barbara Research Center
Simmonds Aerocessories, Inc.
Southwest Research Institute
Special Products Dept., Melpar, Inc.
Spectra Electronics Corp.
Torwico Electronics, Inc.
Trepac Corp. of America
Unified Control Corp.
Wells Industries Corp.
Westport Development & Mfg. Co., Inc.

WASHERS

a. Brass
b. Ceramic
c. Felt
d. Fibre
e. Insulating
f. Lock
g. Metal
h. Mica
i. Plastic
j. Rubber
Abalon Precision Mfg. Corp., a, g.
Abesto Corp., c, d, e.
Accurate Specialties Co., Inc., g.
Acorn Bearing Co., a.
Aero Gasket Corp., a, c, e, g, i.
Aero Spares, Inc., a, f, g.
Aerotron Supply Co., a, f, g.
Airhardware, Inc., a, d, f, g.
All Specs Corp., a, f, g.
Allied Plastics Supply Corp., a, b, d
thru j.
Allmetal Screw Products Co., Inc., f,
g.
Alloys Unlimited Inc., g.
Aluminum Co. of America, f, g.
Alvo Nut & Bolt Co., Inc., a, f, g.
Amatom Electronic Hardware Co., Inc.,
a, d, e, i.
American Agile Corp., j.
American Brass Co., The, a, e, g.
American Felt Co., c, d, e, j.
American Insulator Corp., i.
American Latex Products Corp., e, i.

American Lava Corp., b.
American Standard Products, Inc., a, g.
Amplex Div.-Chrysler Corp., g.
Anchor Metal Co., Inc., g.
Anchor Packing Co., The, c, j.
Anti-Corrosive Metal Products Co., Inc.,
e, f, g, i.
Asheville-Schoonmaker Mica Co., h.
Atlas Screw & Specialty Co., f, g.
Auburn Mfg. Co., The, a thru e, g thru
j.
Autoscrew Co., Inc., a, d, f, g, j.
Aviation Textile Associates a thru j.
Wallace Barnes Div. Associated Spring
Corp., g.
L. J. Barwood Mfg. Co., Inc., a, c, d, e,
g thru j.
Beemer Engrg. Co., g.
Bellows Co., The, f.
Belmar Wheel & Machine Co., Inc., a,
d, e, g.
Belmont Smelting & Refining Works, Inc.,
g.
Bentley, Harris Mfg. Co., e.
Best Aircraft Corp., a, f, g.
Bethlehem Steel Co., g.
Birnbach Radio Co., Inc., e, f, g, i.
Bonny Mfg. Corp., e, i.
California Stamping & Mfg. Co., a, d,
g.
Carborundum Co., The, b, e.
Carborundum Co., Latrobe Plant, Re-
fractories Div., b.
Centrolab Div.-Globe-Union, Inc., b.
Chase Brass & Copper Co., Inc., a.
Chemplast, Inc., e, i, j.
Chicago Rawhide Mfg. Co., j.
Colonial Rubber Co., j.
Comco Plastics Inc., d, e, i.
Connecticut Hard Rubber Co., The, i.
Continental Diamond Fibre Corp., d, e,
h, i.
Continental Felt Co., c.
Continental Rubber Works, j.
Continental Screw Co., a, g.
Coors Porcelain Co., b.
Corning Glass Works, b.
Crystal-X Corp., i.
Darcoid Co., Inc., The, i, j.
R. E. Darling Co., Inc., e, j.
Dell Optics Co., Ltd.
Detroit Stamping Co., a, d, f, g.
Diamonite Products Mfg. Co., b.
Division Lead Co., g.
Dixon Corp., e, i.
John L. Dore Co., e, i.
Du-Co Cemamics Co., b, e.
R. C. Dudek & Co., f.
Dura Plastics of N. Y., Inc., i.
Duramic Products, Inc., b, e.
Eaton Mfg. Co., f.
Eaton Mfg. Co., Reliance Div., b, f, g.
Electrical Refractories Co., The, b.
Eljay Corp., d, e, i.
Emeloid Co., Inc., The, i.
Emerson Plastics Corp., b, d, e, h, i.
Enfab Inc., e.
Excelsior Leather Washer Mfg. Co., Inc.,
c, d, i, j.
Federal Screw Products Inc., a, d, f, g, j.
Ferroxcube Corp. of America, b.
Fisher & Crome, d, e, i.
Fluorocarbon Co., The, i.
Franklin Fibre-Lamitex Corp., d, e, i.
Frechtown Porcelain Co., b.
G-C Electronics Co., d.
Garlock Packing Co., c, d, e, i, j.
George K. Garrett Co., Inc., a, f, g.
Gasket Mfg. Co., Inc., a, c, d, e, g
thru j.

General Electric Co., Lamp Metals &
Components Dept., g, i.
General Gasket Inc., a, c, d, e, g, i, j.
Gladding, McBean & Co., b.
B. F. Goodrich Industrial Products Co.,
i, j.
Goshen Rubber Co., Inc., j.
Grayhill, Inc., e, i.
Greene, Tweed & Co., j.
Gries Reproducer Corp., e, i.
Guarantee Specialty Mfg. Co., a, g.
Gulton Industries, Inc., b.
Halogen Insulator & Seal Corp., i.
H. M. Harper Co., a, f, g.
Holub Industries, Inc., g.
E. F. Houghton & Co., j.
Insulation Mfrs. Corp., d, e, h, i.
Isolanrite Mfg. Corp., b, e.
Keystone Bolt & Nut Corp., a, f, g.
Keystone Electronics Corp., e.

M. Kirchberger & Co., Inc., b, e.
Kling Metal Spinning & Stamping Co.,
a, g, h.
Lamtex Industries Inc., e, i.
Link-Belt Co., f.
Thomas J. Long, Inc., d, i.
Mechanical Felt & Textiles Co., c.
Mechanical Rubber Products Co., d, j.
Mercury Air Parts Co., Inc., a thru j.
Mica Fabricating Co., b, d, e, h, i, j.
Mica Insulator Div.-Minnesota Mining &
Mfg. Co., e, h.
***MINNESOTA MINING & MFG. CO.,**
b, h.
Minnesota Rubber Co., j.
J. I. Morris Co., a, f, g.
Mycalex Corp. of America, e.
National Beryllia Corp., b, e.
National Ceramic Co., b.
National Vulcanized Fibre Co., d, e, i, j.
New England Spring Mfg. Co., Inc., a, f.
Norrich Plastics Corp., a, d, e, g, i, j.
Norrich Screw Machine Products, a, b,
d, e, g, i, j.
Ohlson Empire Inc., a, f, g.
Olin Mathieson Chemical Corp., N. Y.,
a.
Penn Fibre & Specialty Co., Inc., a, c,
d, e, g thru j.
Philadelphia Steel & Wire Corp., f.
Richard Philip Co., a.
Polymer Corp., The, e, i.
Quaker City Felt Co., c.
Raybestos-Manhattan, Inc., e, i, j.
Reeves Bros. Inc., Vulcan Rubber Div., j.
Fred T. Roberts & Co., j.
Roberts Toledo Rubber Co., The, j.
Rogers Corp., d, e, i, j.
Milton Ross Metals Co., The, i.
Rubbercraft Corp. of California, e, j.
Russell Mfg. Co., i.
SKF Industries, Inc., f.
St. Regis Paper Co., Panelyte Div., e, i.
Sanford Plastics Corp., i.
Ray A. Scharer & Co., i, j.
W. S. Shamban & Co., c, d, i.
Shenango Furnace Co., The, Centrifugally
Cast Products Div., a.
Shur-Lok Corp., f, g.
Sillcocks-Miller Co., i.
Sinclair Mfg. Co., a, d, g, i.
Southern Plastics Co., i.
Sparta Mfg. Co., Div.-U. S. Ceramic
Tile Co., e, i.
Spaulding Fibre Co., Inc., d, e, i.
Springfield Brass Co., Inc., a.
Spruce Pine Mica Co., e.
Star Porcelain Co., The, b.
Star Stainless Screw Co., f, g.
Stevens Co., Inc., a, g.
Superior Industrial Machine Co., g.
Superior Steatite & Ceramic Corp., b, e.
Synthane Corp., e.
T. O. D. Mfg. Co., Inc., a, g.
Taylor Fibre Co., d, e, i.
Technical Ply-Woods Sales, d.
Tetrafluor, Inc., i.
Thompson-Brewer & Co. Div.-American
Machine & Foundry Co., a, f, g.
Thomson, Judson L., a, g.
Thor Ceramics, Inc., b, g, i.
Twix Mfg. Co., Inc., a, g, h.
United Shoe Machinery Corp., a.
U. S. Plastic Molding Corp., j.
United States Rubber Co., i.
Universal Unlimited, Inc., i.
Vector Electronic Co., Inc., e.
Victor Mfg. & Gasket Co., a, c, d, g, i.
Victor Tool & Mfg., Inc., a, c, d, e, g, i.
Virginia Plak Co., i.
Waterbury Companies, Inc., i.
Western Felt Works & Acadia Synthetic
Products Div., c, j.
Westinghouse Electric Corp., Micarta
Div., i.
Whitehead Stamping Co., a, d, g.
Wilmington Fibre Specialty Co., d, e.
Wrought Washer Mfg. Co., a, d thru j.
Zirconium Corp. of America, b.

WATER INJECTION EQUIPMENT

Allison Div., General Motors Corp.
Barnstead Still & Sterilizer Co.
Bendix Aviation Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIA-
TION CORP.**
Bendix Utica Div., Bendix Aviation Corp.
J. C. Carter Co., The
Curtiss-Wright Corp., Santa Barbara Div.
Delavan Mfg. Co.
Holley Carburetor Co.

Hydra-Power Corp.
Lear, Inc.
***MARTIN CO., THE, DENVER DIV.**
Meletron Corp.
Pratt & Whitney Aircraft Div., United
Aircraft Corp.
Pryor Mfg. Co.
Southwest Research Institute
Tapco Group, Thompson Ramo
Wooldridge Inc.
Thompson Ramo Wooldridge Inc.
Tranco Products, Inc.

WAVE TRAPS

Cameraflex Div., The, Federal Mfg. &
Engng. Corp.
Emhart Mfg. Co., Maxim Div.
General Bronze Electronics Corp.
Hammett-Mercury-Rex Div.
Kentucky Metal Products Co.
James Millen Mfg. Co. Inc.
J. W. Miller Co.
***RADIO CORP. OF AMERICA**
TRG, Inc.

WAVEGUIDE PRESSURE-DEHYDRATOR SYSTEMS

Aircorn Inc.
Airtron, Div.-Litton Industries
Arrowhead Products, Div.-Federal-Mogul-
Bower Bearings, Inc.
Budd Lewyt Electronics, Inc.
Cornelius Co., The, Aero Div.
Dalmo Victor Co., Div.-Textron, Inc.
Driaire, Inc.
General Bronze Electronics Corp.
Great Lakes Mfg. Corp.
Hammett-Mercury-Rex Div.
Kahn & Co., Inc.
Pittsburgh Electrodryer Div.-McGraw-
Edison Co.
J. F. Pritchard & Co. of California
***RADIO CORP. OF AMERICA**
Robbins Aviation, Inc.
TRG, Inc.
Trinity Equipment Corp.
Universal Dynamics Corp.
Wells Industries Corp.

WAVEGUIDES, FLEXIBLE

Airtron, Div.-Litton Industries
Anaconda Metal Hose Div., The
American Brass Co.

*ANDREW CORP.

Arrowhead Products, Div.-Federal-Mogul-
Bower Bearings, Inc.
Bogart Mfg. Corp.
Brach Mfg. Corp.
Co-Operative Industries, Inc.
Dahlstrom Metallic Door Co.
Joe Davidson & Associates
John L. Dore Co.
Emertron, Sub.-Emerson Radio & Phono-
graph Corp.

*ENGIS EQUIPMENT CO.

General Bronze Electronics Corp.
Gorham Electronics-Div.-Gorham Mfg.
Co.

Hammett-Mercury-Rex Div.
George E. Harris & Co., Inc.

Lieco, Inc.

Litton Industries, Inc.

Litton Industries, Maryland Div.

Marman Div., Aeroquip Corp.

Microwave Associates, Inc.

*RADIO CORP. OF AMERICA

Southwest Research Institute
TRG, Inc.
Technicraft Div.-Electronic Specialty Co.
Telerad Mfg. Corp.
Universal Mfg. Co., Inc.

WAVEGUIDES, RIGID

ACF Industries Inc.
Advanced Engineering Div., D. S. Ken-
nedy & Co.
Ainslie Corp.
Airtron, Div.-Litton Industries
Allied Research & Engng., Div.-Allied
Record Mfg. Co.
***ANDREW CORP.**
Arrowhead Products, Div.-Federal-
Mogul-Bower Bearings, Inc.
Bendix Aviation Corp.
Bogart Mfg. Corp.
Brach Mfg. Corp.
Central Electronic Mfrs., Div.-Nuclear
Corp. of America
Chomalloy Electronics Corp.

Dahlstrom Metallic Door Co.
Dalmo Victor Co., Div.-Textron, Inc.
Joe Davidson & Associates
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Don-Lan Electronics Inc.
Douglas Microwave Co., Inc.
Emertron, Sub.-Emerson Radio & Phono-
graph Corp.

*ENGIS EQUIPMENT CO.

Gabriel Co., The, Gabriel Electronics
Div.
General Aniline & Film Corp., Anso Div.
General Bronze Electronics Corp.
General Electric Co., Ordnance Dept.
Giffillan Bros., Inc.
John Gombos Co., Inc.
Goodyear Aircraft Corp.
Gorham Electronics-Div.-Gorham Mfg.
Co.

Hammett-Mercury-Rex Div.
George E. Harris & Co., Inc.

Henry & Miller Industries, Inc.

Indsl. Prod.-Danbury Knudsen Div.-

Amphenol-Borg Electronics Corp.

J-V-M Microwave Co.

*KEARFOTT DIV., GENERAL PRECISION, INC.

D. S. Kennedy & Co.

Kerns Mfg. Corp.

Leach & Garner Co., Indsl. Div.

Lieco, Inc.

Litton Industries, Inc.

Litton Industries, Maryland Div.

Marman Div., Aeroquip Corp.

Meridian Metalcraft, Inc.

Metal Fabricators Corp.

Microwave Associates, Inc.

Narda Microwave Corp., The

Narmco Mfg. Co.

Northrop Corp.

Omega Labs., Inc.

Pelphs Dodge Copper Products Corp.

Philco Corp.-Govt. & Industrial Group

Richard Philip Co.

Piasecki Aircraft Corp.

*RADIO CORP. OF AMERICA

Ramo-Wooldridge, Div.-Thompson Ramo

Wooldridge Inc.

Scientific-Atlanta, Inc.

Skyline Electric & Mfg. Co.

Southwest Research Institute

Specialty Electronics Development Corp.

TRG, Inc.

Technicraft, Div.-Electronic Specialty Co.

Telerad Mfg. Corp.

Texas Instruments Inc.

United Aircraft Products, Inc.

Universal Mfg. Co., Inc.

Utility Brass & Copper Corp.

Waveline, Inc.

WAX

American Oil & Supply Co.
George Basch Co., The
Biwax Corp.
Borden Chemical Co.
Delta Chemical Works, Inc.
Engelhard Industries, Inc.
Esso Standard, Div.-Humble Oil & Re-
fining Co.
Finnell System, Inc.
Hastings Plastics, Inc.
International Wax Refining Co.
Kano Labs.
Merix Chemical Co.

*MINNESOTA MINING & MFG. CO.- CHEMICAL DIV.

Mitchell Rand Mfg. Corp.

Penetone Co., The

Southwest Research Institute

Stevenson Bro. & Co.

Trio Chemical Works, Inc.

Zophar Mills Inc.

WELDERS, SPOT

Aeroprojects Inc.
Air Reduction Sales Co., Div.-Air Re-
duction Co., Inc.
Allen Electric & Equipment Co.
American Welding & Mfg. Co., The
California Stamping & Mfg. Co.
***COMMERCIAL APPARATUS & SYSTEMS
DIV., RAYTHEON CO.**
Eisler Engrg. Co., Inc.
Ewald Instruments
Federal Electronic Products Inc.
Henry & Miller Industries, Inc.
Hughes Tool Co., Aircraft Div.
Linde Co., Div.-Union Carbide Corp.

Litton Engrg. Labs.
Metal & Thermit Corp.
National Cylinder Gas, Div.-Chemetron
Corp.
Peer, Inc.
Pioneer Industries Div., Almar-York Co.
Inc.
Research, Inc.
Scjaky Brothers, Inc.
Scientific Electric Inc.
Taylor-Winfield Corp.
Trindl Products, Ltd.
Vacuum Tube Products, Div.-Hughes Air-
craft Co.
Vickers Inc., Electric Products Div.
Weldmatic Div., Unitek Corp.

WIND TUNNELS

Aeroscience, Inc.
Beacon Steel Corp.
Bethlehem Steel Co.
Chicago Bridge & Iron Co.
Dynametrics Corp.
General American Transportation Corp.
Industrial Equipment Div., Baldwin Lima
Hamilton Corp.
Lockheed Aircraft Corp., Missiles &
Space Div.
R. C. Mahon Co., The
Nooter Corp.
Norriberg Mfg. Co.
Northrop Corp.
Opelika Welding, Machine & Supply Inc.
Pacific Coast Engrg. Co.
Edw. Renneburg & Sons Co.
Standard-Thomson Corp., Clifford Mfg.
Co. Div.
Task Corp.
Roland Teiner Co., Inc.
U. S. Science Corp., Div.-Topp In-
dustries, Inc.
Western Gear Corp.-Precision Products
Div.
Westinghouse Electric Corp.

WINDINGS, TRANSFORMER

Advanced Electronics, Inc.
Allen Electric & Equipment Co.
De Havilland Aircraft of Canada, Ltd.,
Special Products Div.
Electronic Transformer Co., Inc.
Industron Corp.
Lear, Inc.
Leece-Neville Co., The
Mid-West Coil & Transformer Co.
National Coil Co.
Polyphase Instrument Co.
Rimac, Inc.
Sangamo Electric Co.
Southwestern Industrial Electronics Co.
Stratfield Co., The

WINDOWS, WAVEGUIDE

American Beryllium Co.
Central Electronic Mfrs., Div.-Nuclear
Corp. of America
Ceramaeal, Inc.
Demornay-Bonardi
Douglas Microwave Co., Inc.
Hammett-Mercury-Rex Div.
***KEARFOTT DIV., GENERAL PRECISION,
INC.**
Microwave Associates, Inc.
National Beryllia Corp.
Parker Seal Co., Div.-Parker-Hannifin
Corp.
Portland Copper & Tank Works Inc.
Sage Labs., Inc.
Sylvania Electric Products Inc., Special
Tube Operations
Tapco Group, Thompson Ramo Wool-
dridge Inc.
Technicraft, Div.-Electronic Specialty Co.
Tranco Products, Inc.

WIRE

- a. Aluminum
- b. Annunciator
- c. Antenna
- d. Asbestos Insulated
- e. Beryllium Copper
- f. Ceramic Insulated
- g. Cut & Stripped
- h. Enameled
- i. Filament
- j. Fine Wire Specialties
- k. Forms
- l. Glass Insulated
- m. Gold Plated
- n. Guy

o. Harnesses
 p. High Voltage
 q. Hook-Up
 r. Litz
 s. Magnet
 t. Marking Service
 u. Mesh
 v. Metal Plated
 w. Metal Shielded
 x. Monel
 y. Nickel Clad Copper
 z. Phosphor Bronze
 a-l. Plastic Insulated
 b-l. Platinum
 c-l. Recording
 d-l. Reels
 e-l. Resistance & Filament
 f-l. Shielded
 g-l. Silicon Bronze
 h-l. Silver Plated
 i-l. Stainless Steel
 j-l. Strippers, Mechanical
 k-l. Tantalum
 l-l. Teflon Insulated
 m-l. Thermocouple
 n-l. Zirconium
 ACF Industries Inc. o.
 Accurate Specialties Co., Inc., a, j, k, v, y, h-l.
 Acme Wire Co., h, j, l, s.
 Acromark Co., The, t.
 Aero Research Instrument Co., Inc., f, w, m-l.
 Aero Spares, Inc., i-l.
 *AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., o, p, q, w, a-l, f-l, l-l.
 Alden Products Co., o.
 All Boro Metal Products Co., Inc., i-l.
 Alloys Unlimited, Inc., a, h, j, m, v, b-l, h-l, j-l.
 Alpha Metals, Inc., j, k.
 Alpha Wire Corp., c, g, h, l, o, p, q, s, w, z, a-l, f-l, h-l, l-l.
 Aluminum Co. of America, a.
 American Brass Co., The, e, p, z, g-l, l-l.
 American Brazing Alloys Corp., a, z, g-l, i-l.
 American Electric Cable Co., c, g, o, p, q, a-l, e-l, f-l.
 American Leonic Mfg. Co., a, e, g, j, l, m, n, q, r, s, v thru z, b-l, e-l, g-l, h-l, i-l, j-l thru n-l.
 American Super-Temperature Wires, Inc., d, h, l, p thru s, w, a-l, f-l, l-l.
 Ampco Metal, Inc., e, x, z, g-l.
 Ampex Electronic Corp., m-l.
 Anaconda Wire & Cable Co., a thru f, h, l, l, p, q, s, w, y, z, a-l, b-l, f-l, g-l, h-l, l-l.
 Anchor Metal Co., Inc., a, j.
 Ansonia Wire & Cable Co., The, a, b, c, g, l, p, q, w, a-l, f-l.
 Armco Steel Corp., i-l.
 Art Wire & Stamping Co., i, k.
 Associated Engrg. & Mfg. Corp., i, j, y, k-l.
 Associated Spring Corp., Ohio Div., k.
 Semon Bache & Co., l.
 Barker Sales Co., h, r, s, a-l.
 Wallace Barnes Div. Associated Spring Corp., j, k.
 Belden Mfg. Co., h, l, p thru s, l-l.
 Bendix Filter Div., Bendix Aviation Corp., i, u.
 Berkshire Electric Cable Co., c, g, j, l, o, p, q, u, a-l, f-l, m-l.
 Bestcraft Products Co., Inc., u.
 Bethlehem Steel Co., j, n.
 Birnback Radio Co., Inc., a, c, d, g, thru j, l, n thru q, s, z, a-l, f-l, g-l, l-l.
 J. Bishop & Co., Platinum Works, i, m, u, v, x, y, b-l, e-l, m-l.
 Bjorksten Research Labs. for Industry, Inc., a, f, l, a-l.
 Boston Insulated Wire & Cable Co., p, f, h-l, l-l.
 Bram Metallurgical Chemical Co., e, j, m, r, u, y, x, z, b-l, e-l, h-l, i-l, k-l, m-l, n-l.
 William Brand Rex Div.-American Enka Corp., c, i, o, p, q, t, a-l, l-l.
 Breeze Corporations Inc., o, u.
 Briggsport Brass Co., a, x, y, z, g-l, k-l, n-l.
 Bristol Brass Corp., The, g-l.
 Buffalo Wire Works Co., Inc., u.
 Cable Electric Products Inc., b, d, g, o, q, a-l.
 Calcon Mfg. Co., Inc., c, g, j, n thru q, w.

Cambridge Wire Cloth Co., The, j, k, u.
 Carborundum Co., The, n-l.
 Carol Cable Div.
 Carpenter Steel Co., The, j, i-l.
 Chase Brass & Copper Co., Inc., a, z, g-l, i-l.
 Chemplast, Inc., l-l.
 Chester Cable Corp., Sub.-Miami Copper Co., b, j, l, p, q, w, a-l, f-l, l-l.
 Sigmund Cohn Corp., a, h, i, j, m, v, b-l, m-l.
 Collyer Insulated Wire Co., d, p, a-l.
 Colonial Alloys Co., a, i, x.
 Continental Sensing, Inc., m-l.
 Continental Wire Sales Corp., d, l, p, q, w, a-l, f-l, l-l.
 Copperweld Steel Co., Wire & Cable Div., n.
 Cord Products Co., o.
 Cornish Wire Co. Inc., b, l, o, q, a-l, f-l.
 Crucible Steel Co. of America, s, x, i-l.
 Dalweld Co. Inc., a, z, g-l, l-l.
 R. E. Darling Co., Inc., o, w, f-l, l-l.
 Dayton Aircraft Products, Inc., c.
 Deringer Metallurgical Corp., b-l, h-l.
 Wilbur B. Driver Co., e, h, i, l, x, e-l, h-l, i-l.
 Driver-Harris Co., h, i, j, x, e-l, i-l, l-l, m-l.
 Duramark, Inc., t.
 Eagle Electric Mfg. Co., Inc., b, g, q, a-l, d-l.
 Eagle Signal Co., o.
 Eastern Smelting & Refining Corp., b-l.
 Eaton Mfg. Co., Reliance Div., a, v, x, z, g-l, i-l.
 Electric Autolite Co., The, h, p, q, s, a-l, l-l.
 Electric Autolite Co., The, Wire & Cable Div., a, h, j, l, o, p, q, s, a-l, f-l, l-l.
 Electric Cords & Supply Corp., g, o, t, j-l.
 Electronic Applications, Inc., f-l, j-l.
 Electronic Computer Co., Inc., f.
 Electronic Parts Mfg. Co., Inc., a, i, j, k, x, y.
 Elmet Div.-North American Philips Co., Inc., h, i, j, m, s.
 Empire Electronics Co., Inc., o.
 Engelhard Industries, Inc., h, j, m, b-l, m-l.
 Essex Wire Corp., a, d, h, l, o, p, q, s, w, a-l, f-l.
 Essex Wire Corp., Magnet Wire Div., h, l, s.
 Fansteel Metallurgical Corp., e-l, k-l.
 Farwest Mfg. Div., Inc., o, t.
 Fisher Scientific Co., Maryland, a, b-l.
 Fort Wayne Metals, Inc., j, x, c-l, i-l.
 Foursome Mfg. Co., Inc., k.
 General Cable Corp., a thru e, h, j, l, n thru s, u, y, w, a-l, f-l, l-l, m-l.
 General Electric Co., Lamp Metals & Components Dept., f, i, m, v, m-l.
 General Electric Co., Wire & Cable Dept., d, h, l, p, q, s, w, a-l, f-l, l-l.
 General Findings & Supply Co., Industrial Div., k, m, h-l.
 General Insulated Wire Works, Div.-General Cable, c, d, g, h, o, q, w, a-l.
 General Laboratory Associates, Inc., o.
 Duncan Mfg. Co., Inc., t.
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Brinkmanship and What Follows

In the present state of our foreign affairs forecasting is a hazardous occupation. Some eventualities, however, do seem obvious to anyone who reads or listens.

Unless there is a radical shift in the tempers and attitudes of Soviet leaders or some extraordinary maneuvers on the part of ours which will reduce the tension—these things we may look for:

A big increase in the constant alert status of SAC's missile-carrying B-52 force.

An increased tempo in production of *Atlas*, *Titan*, *Minuteman* and *Polaris*, with a greater authorization of overtime.

An increase in the number of *Polaris* submarines and the new hydrofoils.

A speedup of the ballistic air-to-ground *Skybolt* program.

Reinstatement of the Mach-3 B-70 which, as the successor to the B-52, would carry the *Skybolt*.

More emphasis on mobility—which means more emphasis on the *Minuteman* and the *Polaris*.

Far greater production of short-range tactical missiles, most of them atomic-tipped, for use by the Army.

A cautious production emphasis on the Air Force's *Samos* and *Midas*, the reconnaissance and early warning satellites.

The latest Russian satellite has been referred to as little more than a larger version of the American *Discoverer* and proves, it is said, only two things. One we knew before—that the Russians have a big booster which works on schedule. The

other is that they may be close to solving the re-entry problem for humans. Maybe that is all—but let's wait and see.

The 4½-ton monster may, however, serve to jar the National Aeronautics and Space Administration out of its orderly technological progress schedule into a speedup of the Astronaut program.

All of these eventualities will mean more money for the nation's military and space program—money measured in millions if not billions. The FY 1961 budget already includes some \$9.5 billion for the overall missile/-space program.

At the insistence of Congress, if not of the Administration, this sum could easily reach \$11 billion or more before adjournment this year.

Certainly a good case will be made for increasing our production of the mobile missiles, whether carried by freight car, submarine or airplane. And it will be difficult to deny the Army's pleas for more tactical missiles in view of the obvious gap which exists between the ground forces of the East and those of the West.

It is difficult to believe that—in the face of the Soviet threat—the Administration will find it possible to resist the pressure from the people and the Congress for an increased military defense program and space program. For if the two were likely to become important issues in the coming presidential campaign—now they are certain to be.

You can't practice brinkmanship on the one hand and plump for disarmament on the other. They just aren't compatible.

Clarke Newlon

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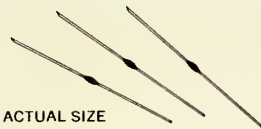
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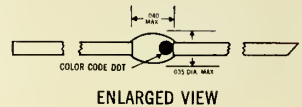
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IN898	50	100	.025 (10V) .5 (40V)	5 (10V) 20 (40V)	100K	0.3
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IN900	100	50	.025 (10V) .1 (80V)	5 (10V) 20 (80V)	100K	0.3
IN901	100	100	.025 (10V) .5 (80V)	5 (10V) 20 (80V)	100K	0.3
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