

BSATM #11

SPACE STATION ASSEMBLY SEQUENCE

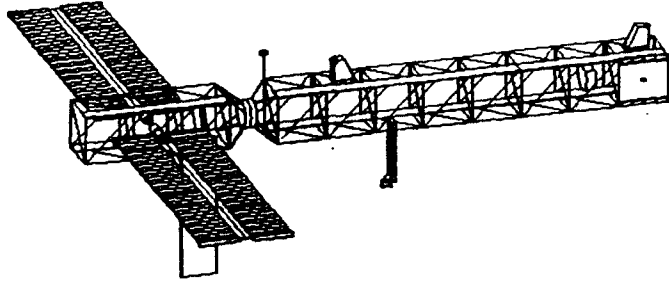
5/4/88

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- | | | |
|----|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | FEL MB-1 | 18.75 PV MODULE, STBD TRUSS, ALPHA JOINT, ERECTOR SET, AVIONICS, TANK FARM, WATER ELECTROLYSIS, RCS MODULES [2], UNPRESS. DOCK. ADAPTER, S-BAND ANTENNA |
| 2 | MB-2 | AFT STBD NODE, STBD TCS W/9 RAD. PANELS, FTS & SHELTER, STINGER/RESISTOJET, TDRSS ANTENNA, TANK FARM, PRESS. DOCKING ADAPTER, CMG's [6], |
| 3 | MB-3 | AFT PORT NODE, MSC PHASE 1, TANK FARM, STBD RADIATOR PANELS, PRESS. DOCKING ADAPTER, FMAD, STANDARD AIRLOCK |
| 4 | EMTC MB-4 | U.S. LAB MODULE |
| 5 | MB-5 | PORT INBD P.V. MODULE, ALPHA JOINT, PORT TRUSS, RCS MODULES[2], PORT RADIATOR, STBD RADIATOR PANELS, TANK FARM, SSEMU VERIF. UNIT |
| 6 | OF-1 | PRESS. LOG MOD, MODULE OUTFITTING |
| 7 | UOF-1 | EXTENDED DURATION ORBITER (EDO), ATTACHED PAYLOADS |
| 8 | MB-6 | SSRMS-2, HB AIRLOCK, ATTACH P/L & EQUIP. |
| 9 | MB-7 | U.S. HAB MODULE |
| 10 | MB-8 | FORWARD NODES, CUPOLAS(2) |
| 11 | PMC MB-9 | CREW[4], LOGISTICS MODULES, SSEMU's[4] |
| 12 | MB-10 | STBD , PORT OUTBOARD PV. MODULES |
| 13 | L-1 | LOGISTICS MODULES, SPDM |
| 14 | MB-11 | JEM MODULE, JEM EXPOSED FACILITY #1, CREW[8] |
| 15 | L-2 | LOGISTICS MODULES, ATTACH P/L & EQUIP. |
| 16 | MB-12 | ESA MODULE |
| 17 | L-3 | LOGISTICS MODULES, MMD PHASE 1 |
| 18 | MB-13 | JEM EXPOSED FACILITY #2, JEM ELM, JEM LOGISTICS & PAYLOADS |
| 19 | L-4 | LOGISTICS MODULES |
| 20 | OF-2 | PRESS. LOG MOD., MODULE OUTFITTING |

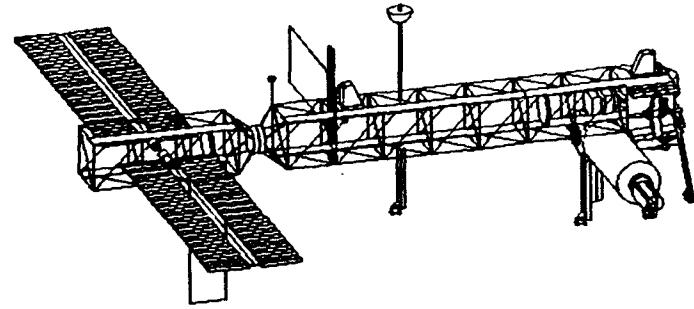
ASSEMBLY COMPLETE

5/4/88

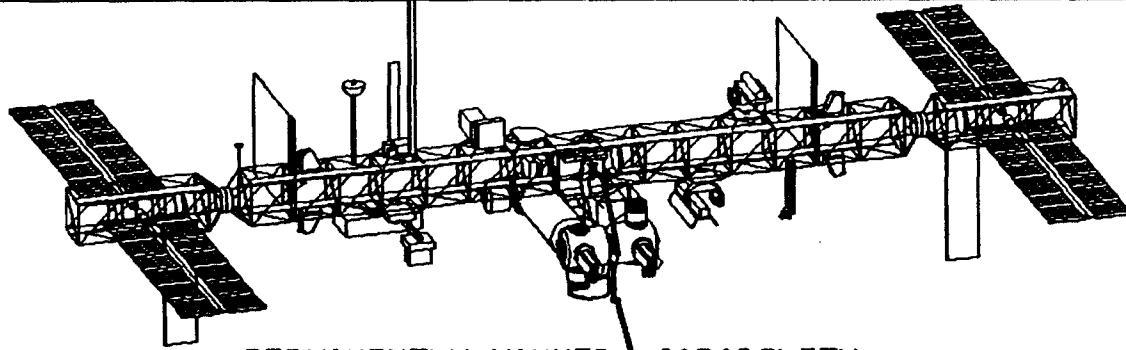
MILESTONE FLIGHTS



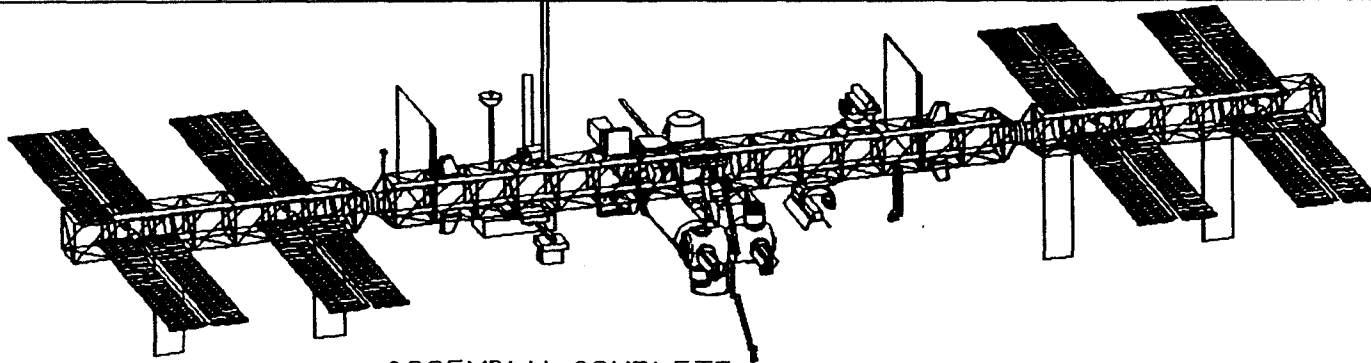
FIRST ELEMENT LAUNCH



MAN TENDED CAPABILITY



PERMANENTLY MANNED CAPABILITY



ASSEMBLY COMPLETE

NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

3-MAY-88 13:25:56

DATABASE: EMTC (OPTION 1) (FLIGHT) MFST 30 MAR 1988

VIEW: 14, 12, 11

Task: HIERARCHY

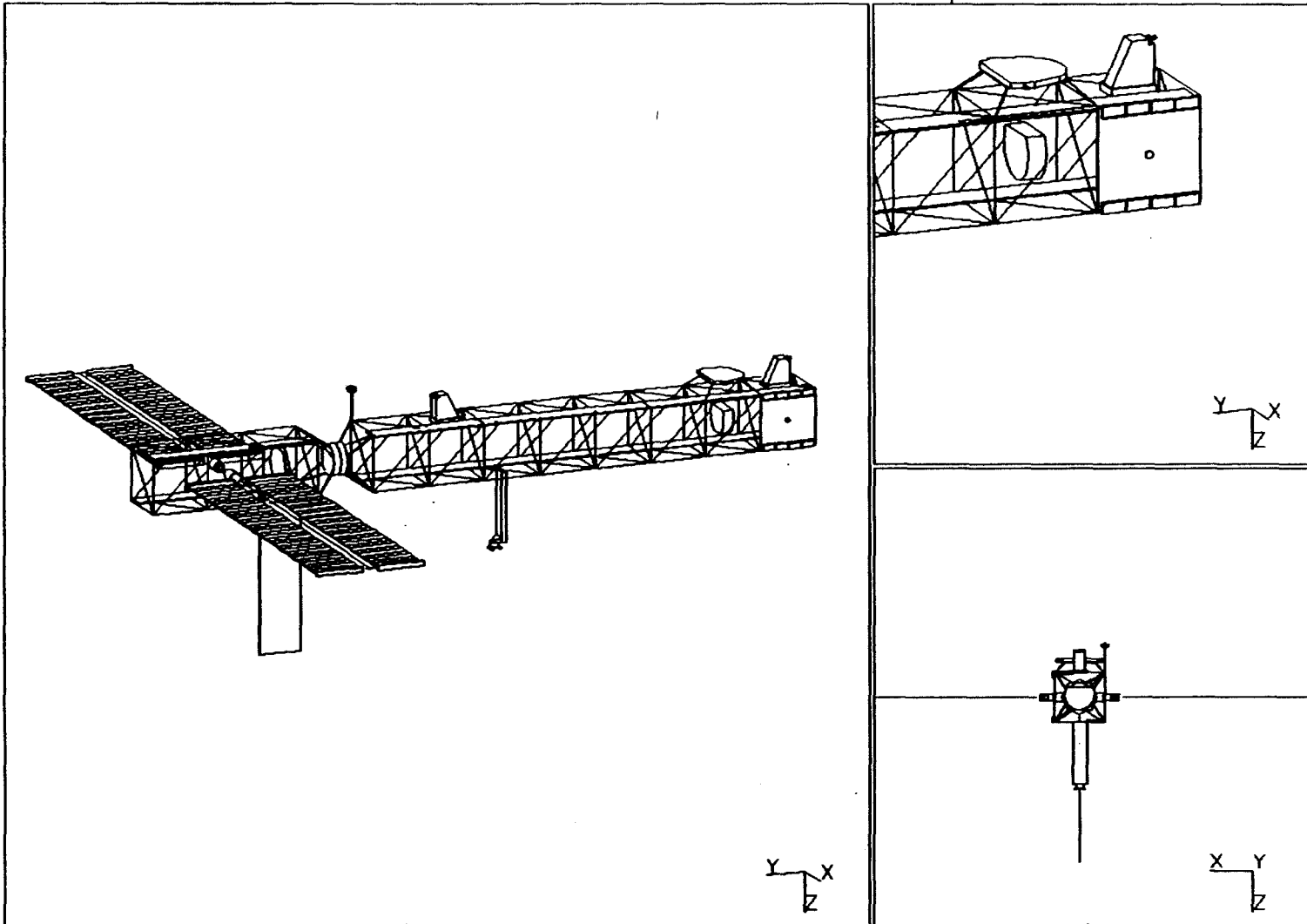
System: 59-MB1-FLT1-833088

UNITS = SI

DISPLAY:none, none, none

Bin: 1-MAIN

Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

3-MAY-88 13:09:06

DATABASE: EMTC (OPTION 1)

(FLIGHT) MFST 30 MAR 1988

VIEW: 14, 12, 11

Task: HIERARCHY

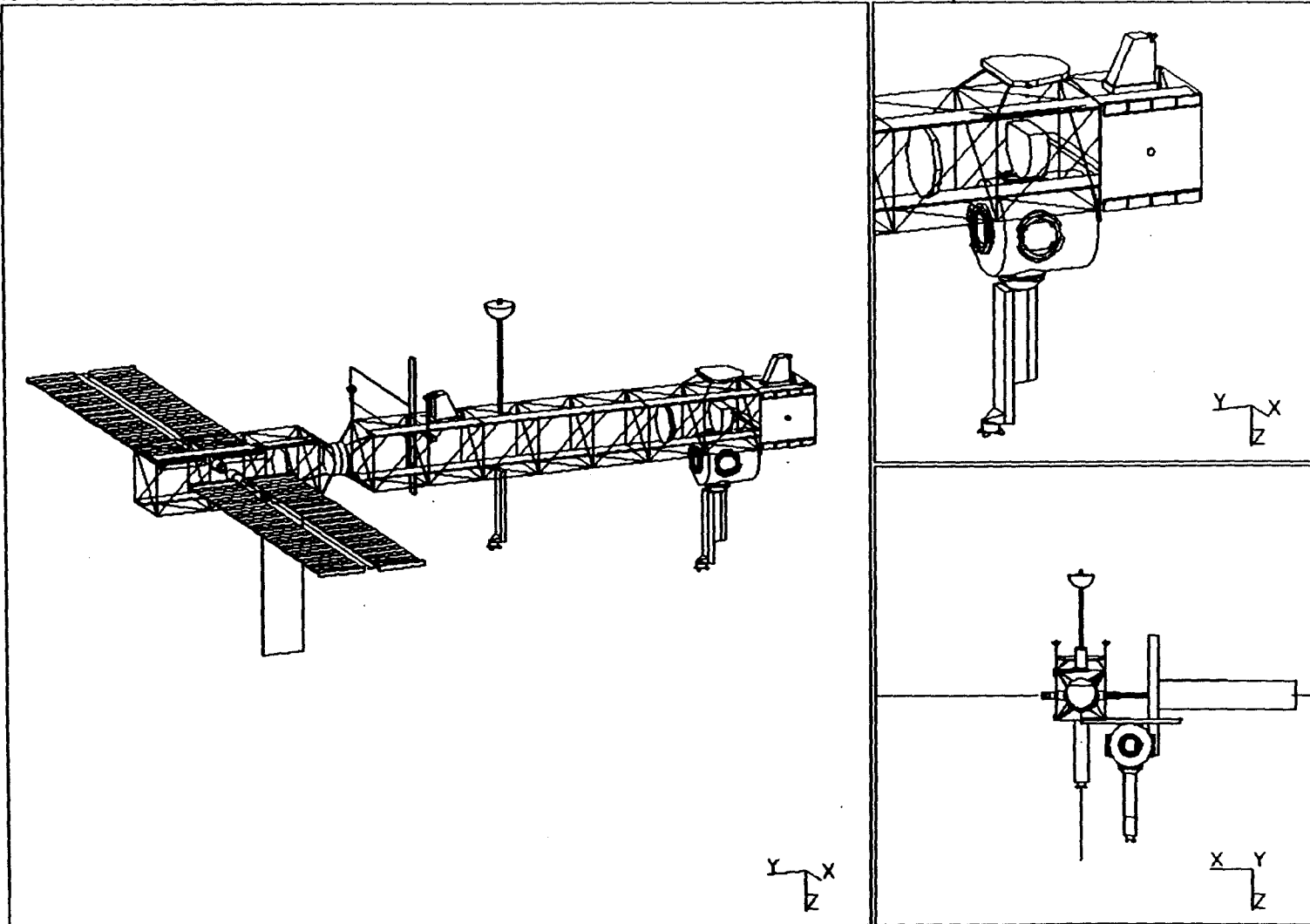
System: 46-MB2-FLT2-033088

UNITS = SI

DISPLAY:none, none, none

Bin: 1-MAIN

Component: No stored COMPONENT.



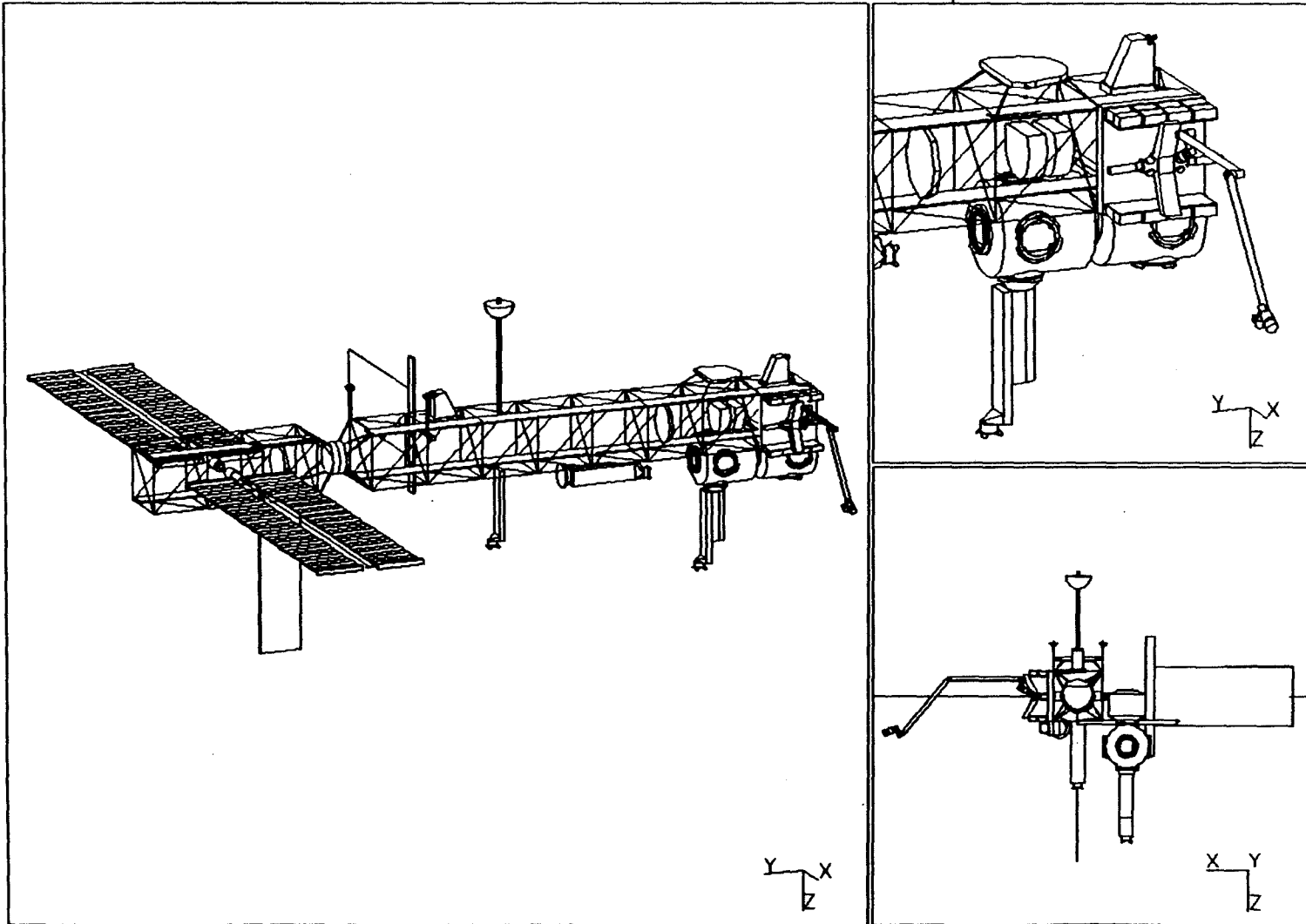
NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

3-MAY-88 09:01:20

DATABASE: EMTC (OPTION 1) (FLIGHT) MFST 30 MAR 1988
VIEW: 14, 12, 11
Task: HIERARCHY
System: 45-MB3-FLT3-033088

UNITS = SI
DISPLAY: none, none, none
Bin: 1-MAIN
Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

27-APR-88 16:15:56

DATABASE: EMTC (OPTION 1) MB-4 (FLIGHT 4/ MTC) MFST 30 MAR 1988

VIEW: 14, 12, 11

Task: HIERARCHY

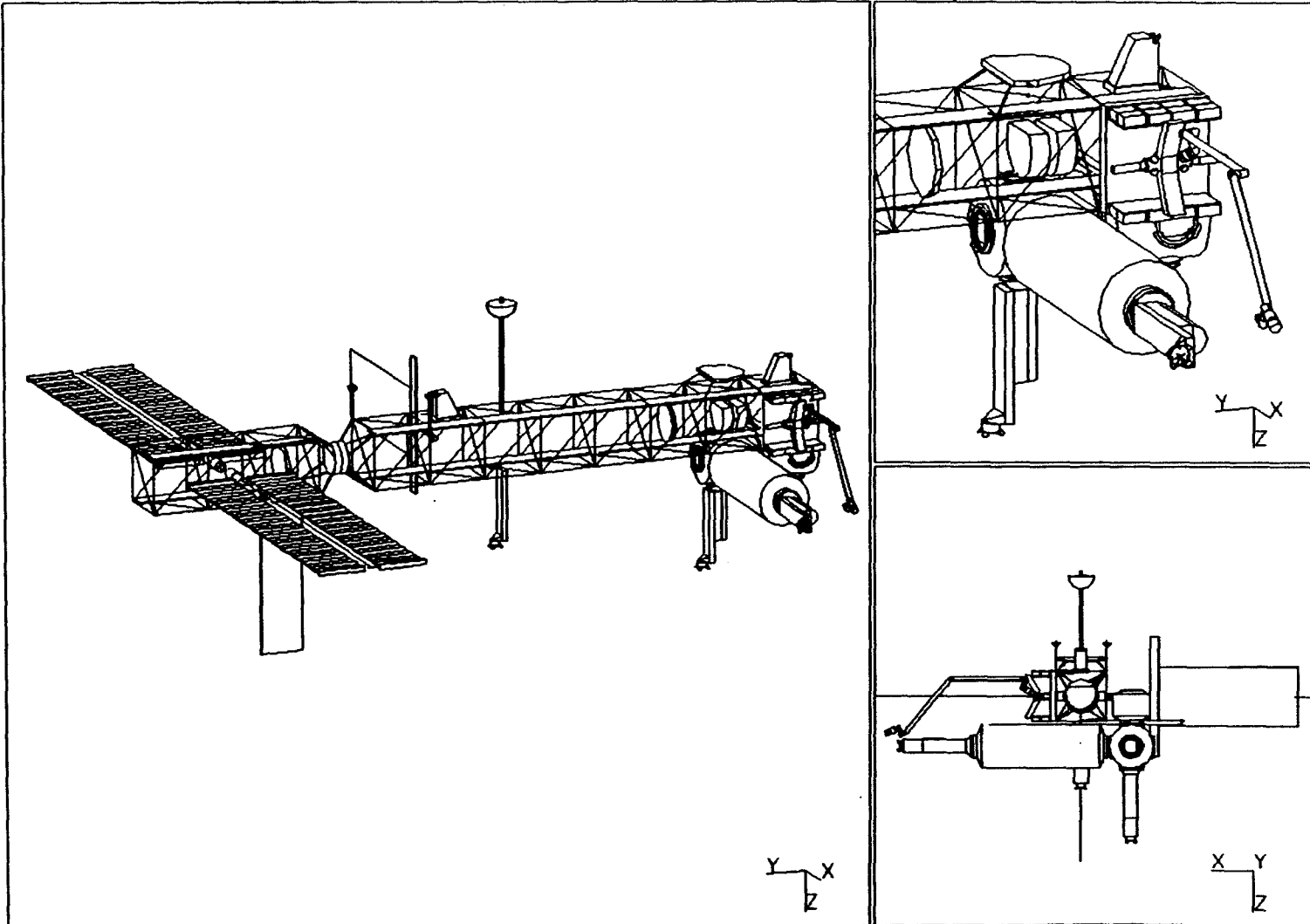
System: 41-MB4-MTC-FLT4-033088

UNITS = SI

DISPLAY:none, none, none

Bin: 1-MAIN

Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

4-MAY-88 21:51:41

DATABASE: EMTC (OPTION 1) MB-5 (FLIGHT 5) MFST 30 MAR 1988

VIEW: 42, 43, 44

Task: HIERARCHY

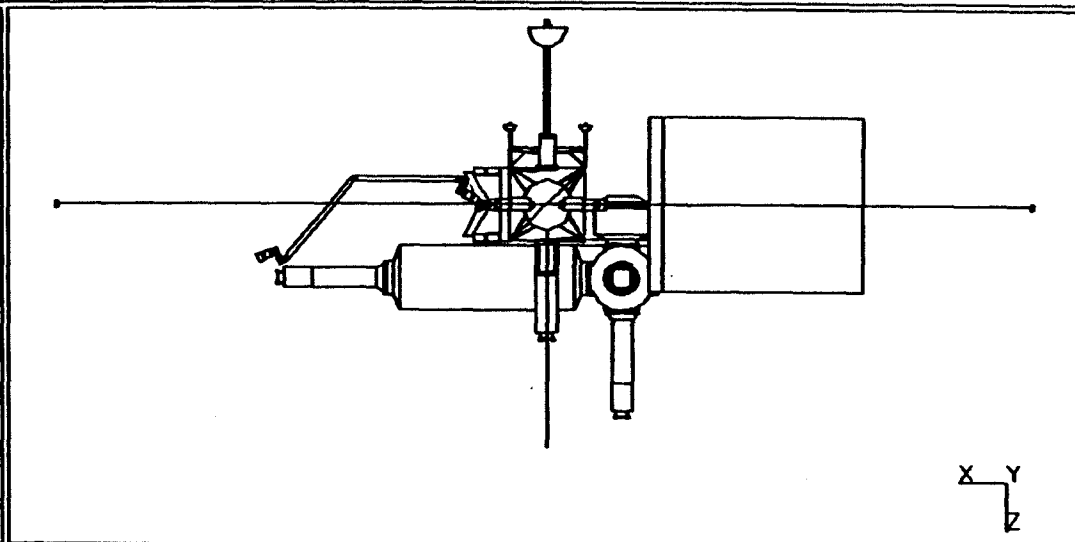
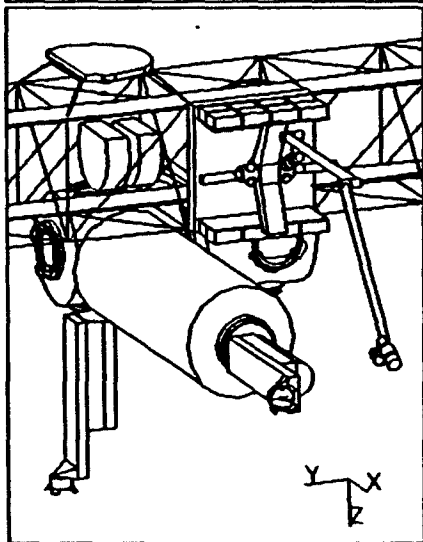
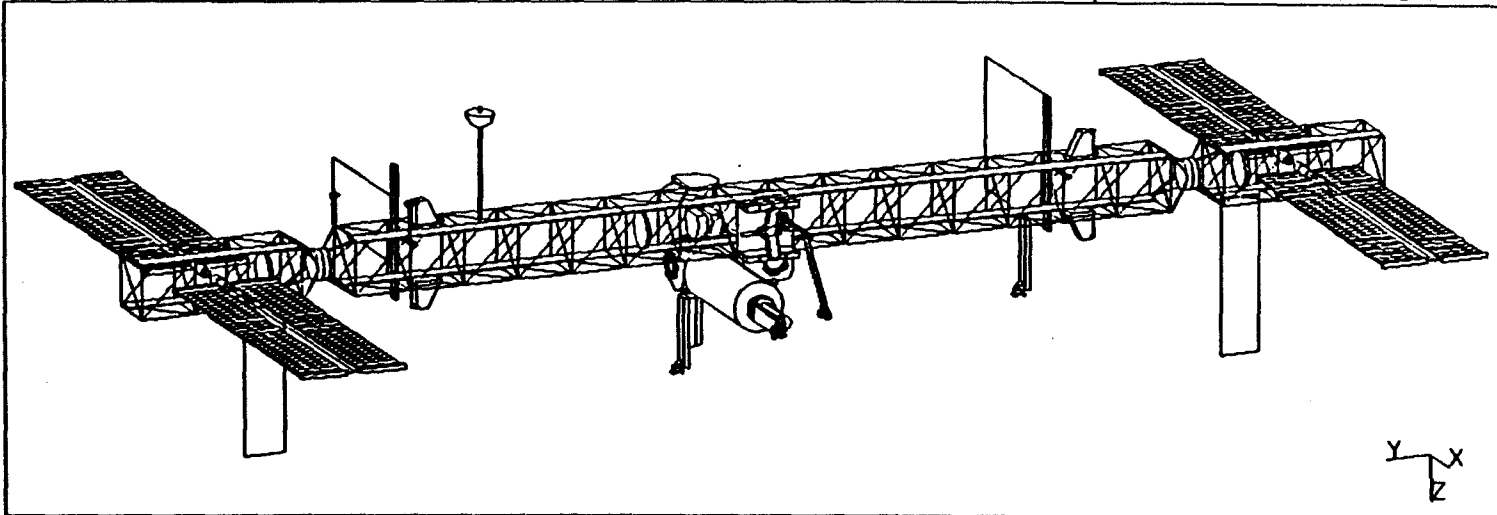
System: 62-MB5-FLT5-033088

UNITS = SI

DISPLAY:none, none, none

Bin: 1-MAIN

Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

27-MAY-88 12:50:43

DATABASE: EMTC (OPTION 1) OF-1 (FLIGHT 6) MFST 30 MAR 1988

VIEW: 42, 43, 44

Task: HIERARCHY

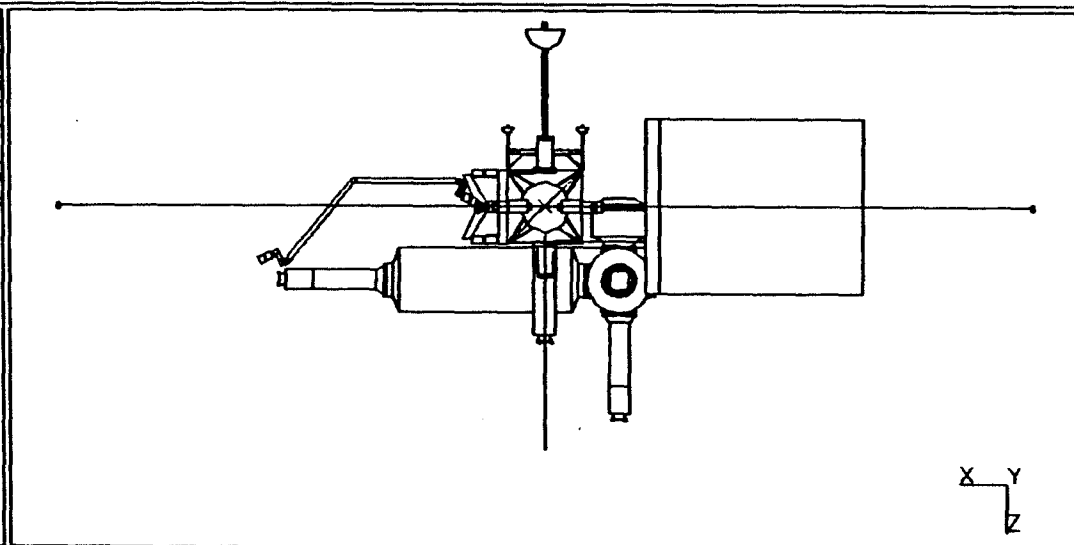
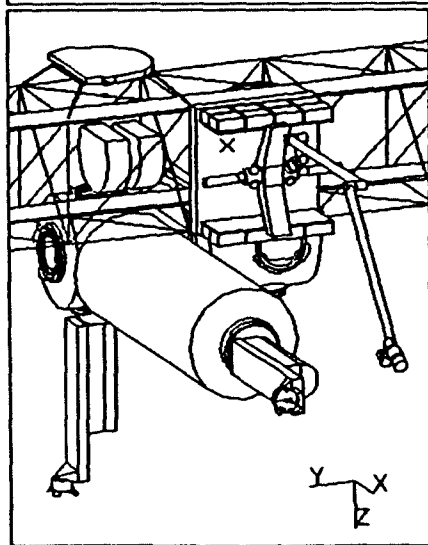
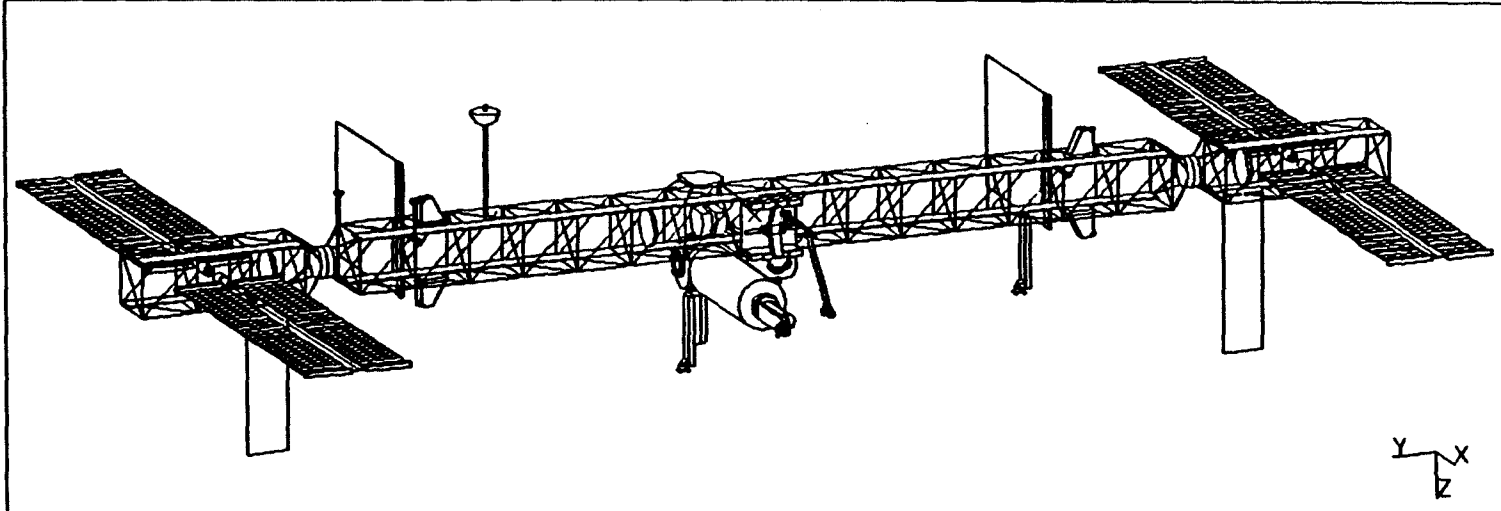
System: 68-OF1-FLT6-033088 (modifie

UNITS = SI

DISPLAY:none, none, none

Bin: 1-MAIN

Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

31-MAY-88 14:31:48

DATABASE:

VIEW: 52, 53, 54

Task: HIERARCHY

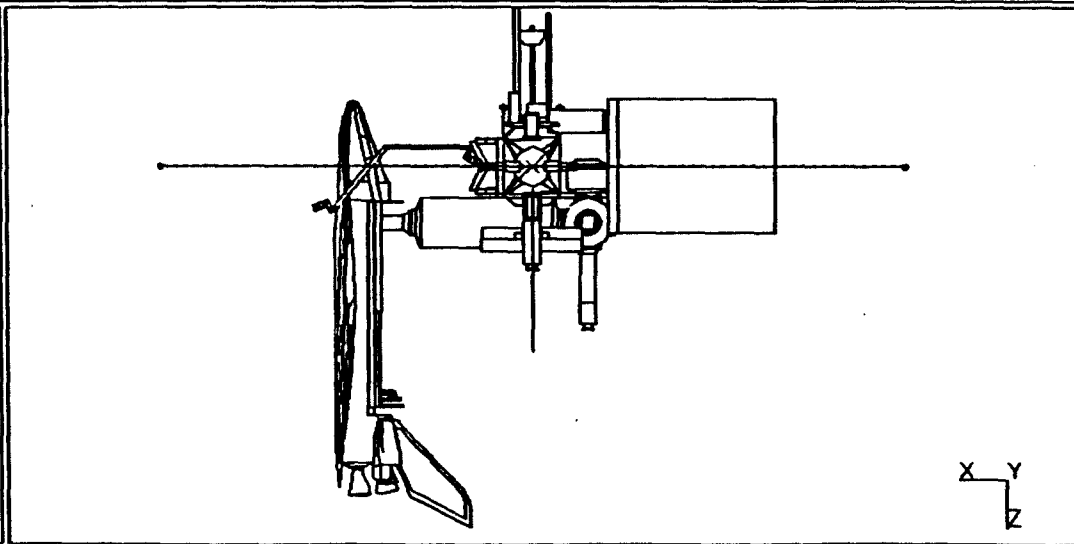
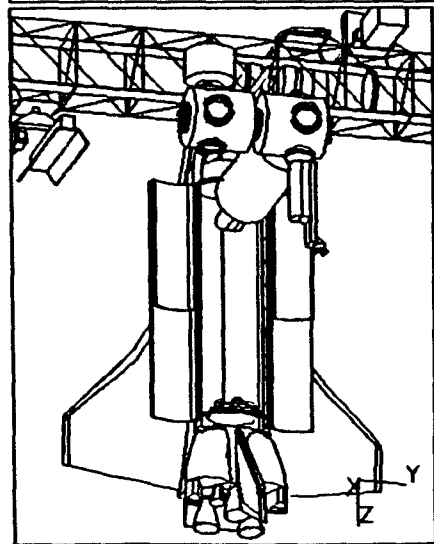
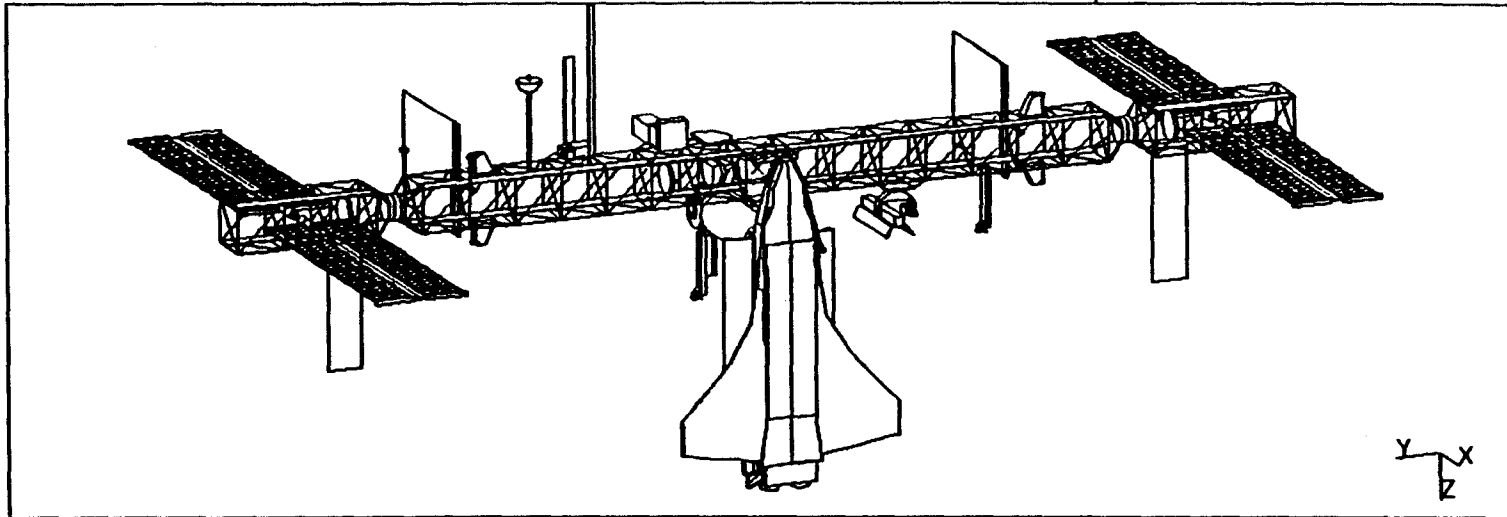
System: S1-UOF1-FLT7-058488 (modifi

UNITS = SI

DISPLAY: none, none, none

Bin: 1-MAIN

Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

25-MAY-88 22:02:40

DATABASE: MB-9 (FLIGHT 11/ PMC) MFST 04 MAY 1988

VIEW: 5, 6, 7

Task: HIERARCHY

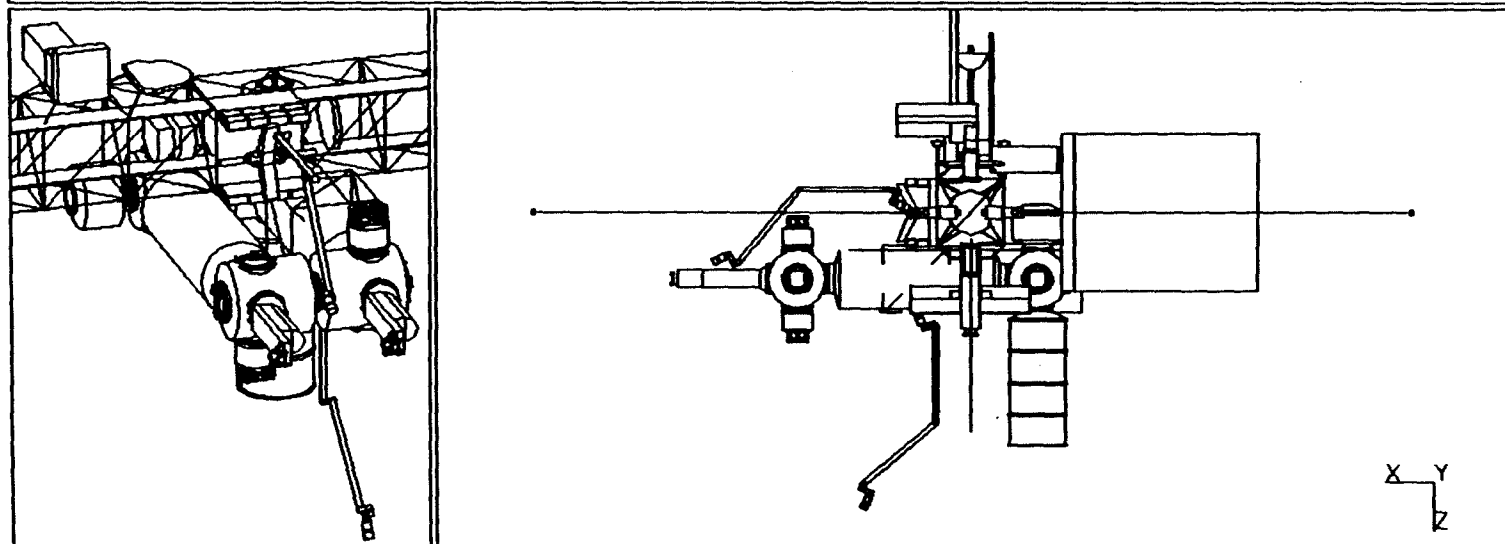
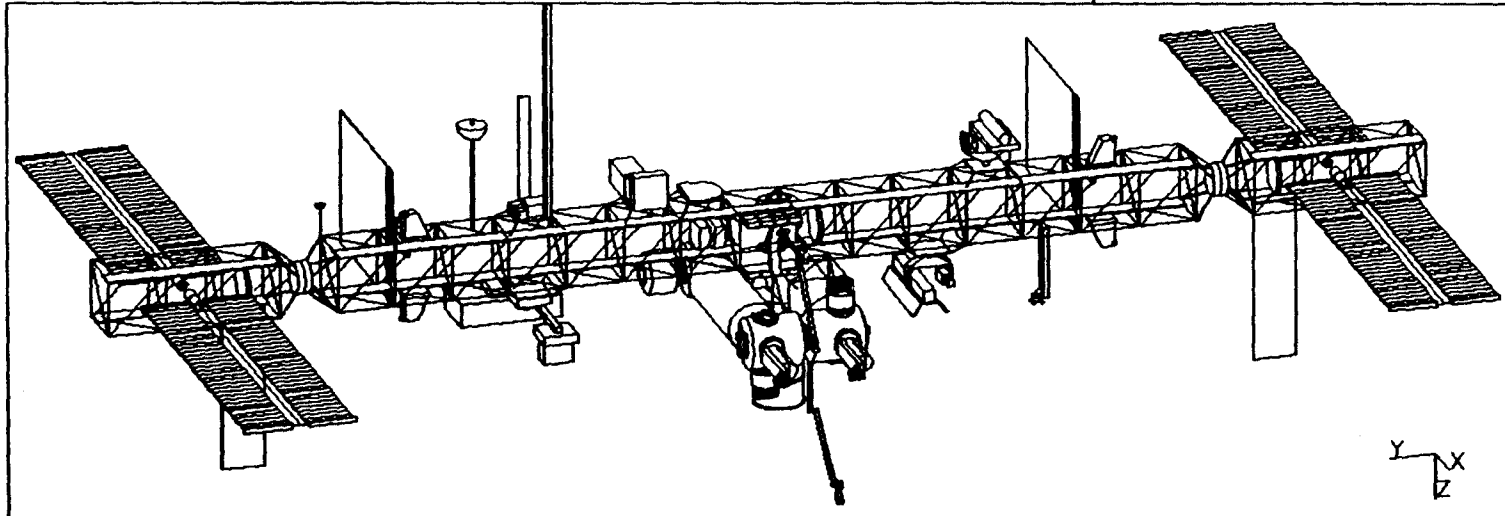
System: 2-PMC-FLT11-050488

UNITS = SI

DISPLAY: none, none, none

Bin: 1-MAIN

Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

25-MAY-88 20:52:01

DATABASE: OF-2 (FLIGHT 20) ASSEMBLY COMPLETE MFST 04 MAY 1988

VIEW: 28, 29, 31, 30

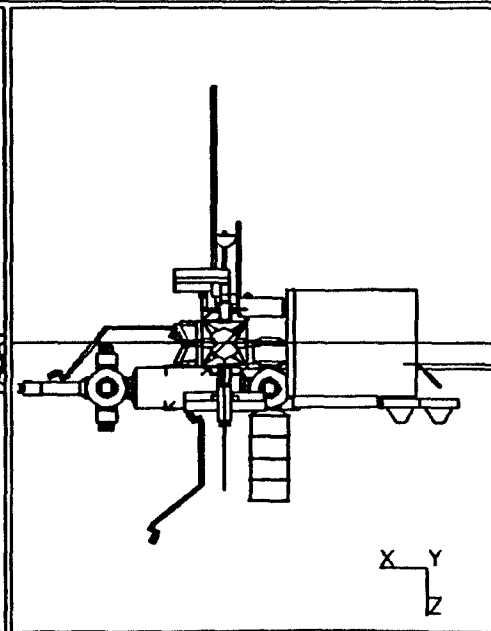
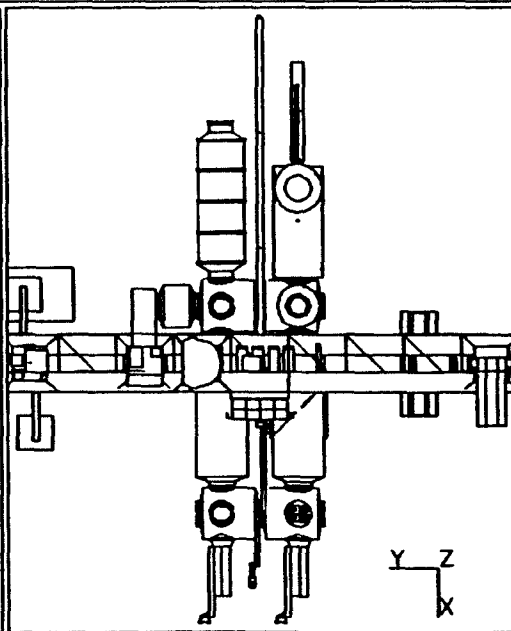
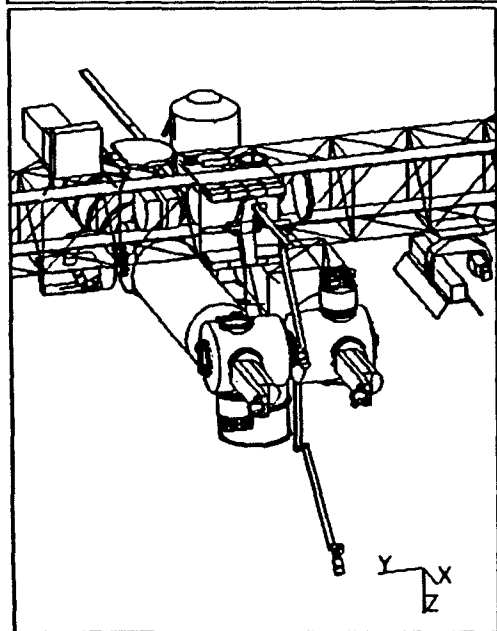
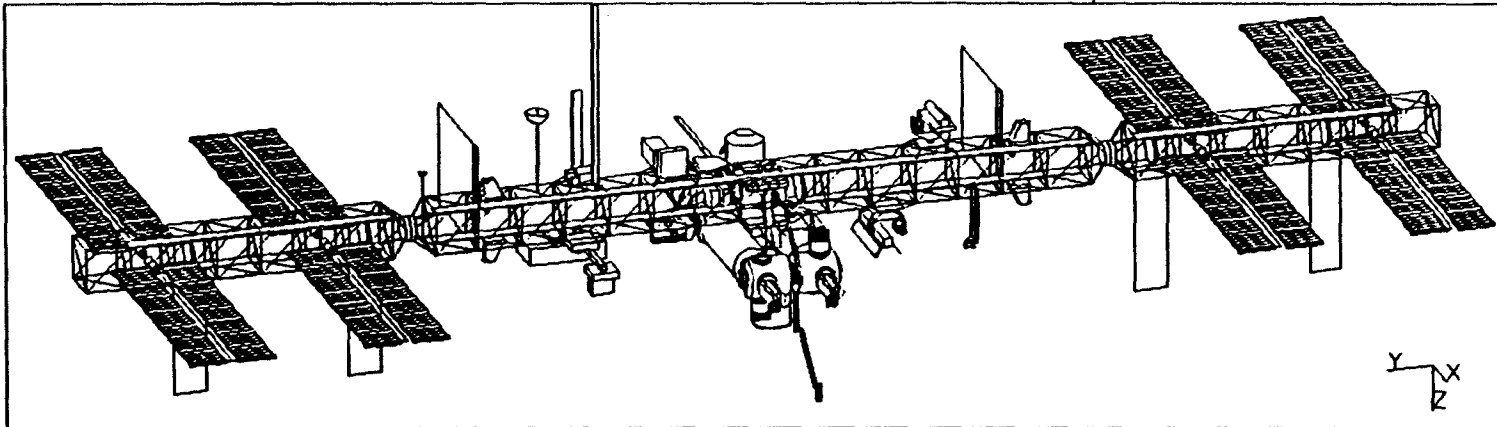
UNITS = SI
DISPLAY: none, none, none, none

Task: HIERARCHY

Bin: 1-MAIN

System: 40-OF2-FLT20-050488

Component: No stored COMPONENT



NASA/SDRC IDEAS**2 SSP 1.1

System Assembly

31-MAY-88 14:15:21

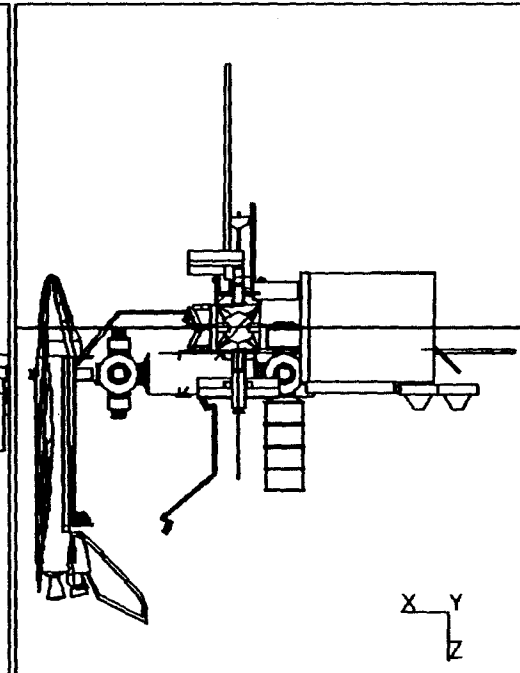
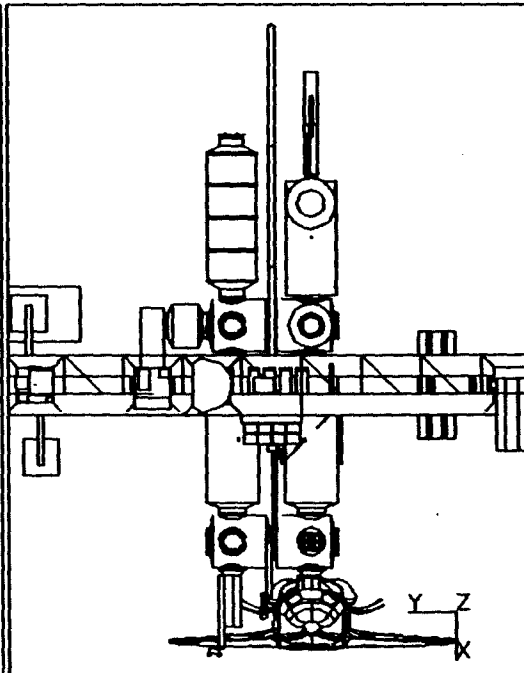
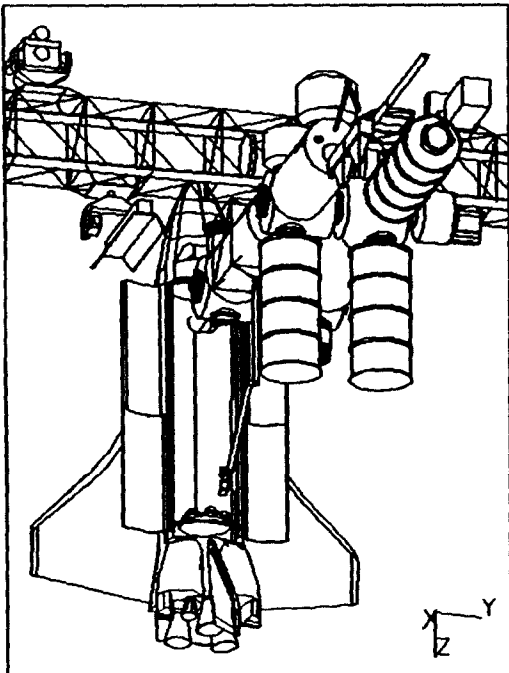
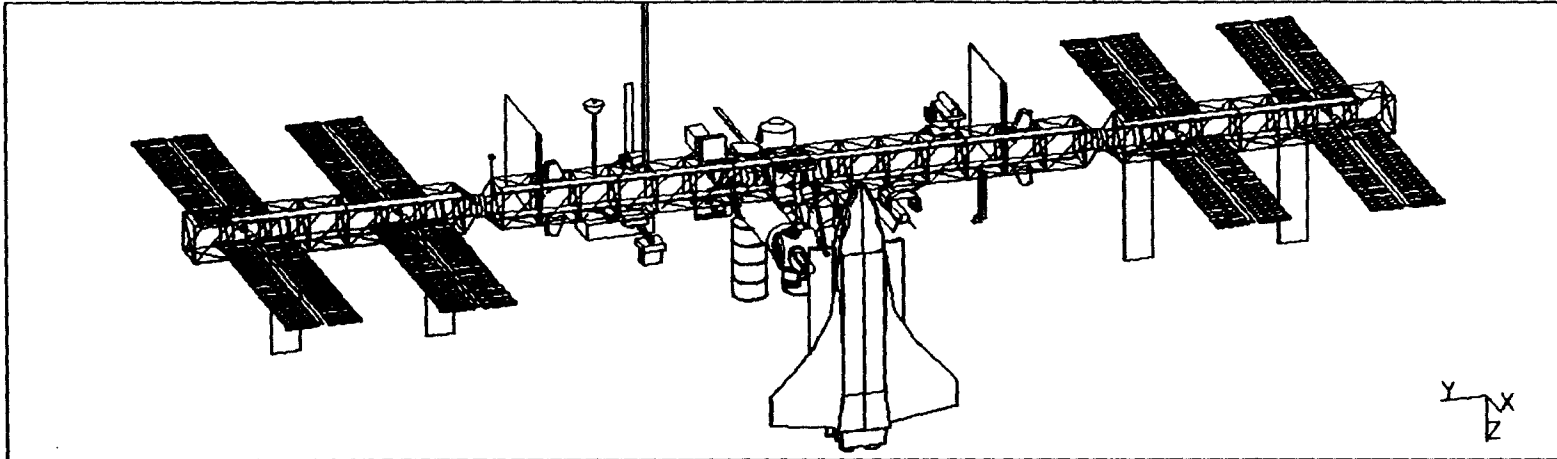
DATABASE: OF-2 (FLIGHT 20) ASSEMBLY COMPLETE MFST 04 MAY 1988

VIEW: 33, 34, 36, 35

Task: HIERARCHY

System: 34-OF2-FLT20-050488-ORB (no

UNITS = SI
DISPLAY: none, none, none, none
Bin: 1-MAIN
Component: No stored COMPONENT



SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-1

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
P.V. POWER MODULE (18.75 KW)	11474	
ALPHA JOINT	1320	
TRUSS/UTILITIES	5108	
OUTBOARD RADIATOR BAYS - 3 @ 421 = 1263		
INBOARD RADIATOR BAYS - 5 @ 733 = 3665		
MAIN BUS SWITCH ASSEM = 180		
RCS MODULES (2 @ 566)	982	150
TANK FARM	2710	517
WATER ELECTROLYSIS SYSTEM	1550	
ANTENNAS	180	
UNPRESSURIZED DOCKING ADAPTER	1100	
AVIONICS PALLET	1135	
ERECTOR SET	<u>2300</u>	
(2000 LBS BECOMES XPORTER)		
	<u>27859</u>	<u>667</u>
TOTAL TO STATION	28526	
FSE/ATTACH FITTINGS	<u>7131</u>	
SUBTOTAL	35657	
EVA RESERVE	2873	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 220 NMI	40530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-2

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
AFT STBD NODE	10000	
CMG'S (6)	3470	
KU-BAND ANTENNA & STRUCTURE	1107	
STINGER/RESISTOJET	300	
STBD RADIATOR (9 PANELS) & HR&T	2471	
TANK FARM #2	2710	790
DOCKING ADAPTER	3300	
FTS & SHELTER	<u>1983</u>	<u> </u>
	<u>25341</u>	790
TOTAL TO STATION	26131	
FSE/ATTACH FITTINGS	<u>6533</u>	
SUBTOTAL	32664	
MSC/FTS CONTROL STATION	80	
EVA RESERVE	2873	
DOCKING MODULE	1500	
MANAGERS' RESERVE	2000	
MARGIN	<u>413</u>	
STS PERFORMANCE @ 220 NMI	39530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-3

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
AFT PORT NODE	9400	
MSC PHASE 1	3050	
TANK FARM	2710	790
DOCKING ADAPTER	3300	
STANDARD AIRLOCK	4430	
FMAD PALLET	3719	
STBD RADIATOR (9 PANELS)	<u>558</u>	
	27167	790
TOTAL TO STATION	27957	
FSE/ATTACH FITTINGS	<u>6989</u>	
SUBTOTAL	34946	
MSC/FTS CONTROL STATION	80	
DOCKING MODULE	1500	
EVA RESERVE	2873	
MANAGERS' RESERVE	2000	
MARGIN	<u>1131</u>	
STS PERFORMANCE @ 220 NMI	39530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-4

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
U.S. LAB MODULE		33387
PRIMARY EQUIPMENT	29003	
- STRUCTURE, STANDOFFS, STANDOFF DISTRIBUTED SYSTEMS, END CONES, VACUUM SYSTEM, ACCELEROMETER SYSTEM	22406	
- RACK #6 - THC/TCS AVIONICS AIR	1002	
#7 - ECLS (ARS)	960	
#8 - ECLS (ARS/ACS)	638	
#9 - DMS/COMM	1050	
#28 - THC/TCS AVIONICS AIR	1002	
#33 - CUST. TCS/PMNS WASTE MGMT.	935	
#39 - ELEMENT CONTROL WORKSTATION	1010	
DISCRETIONARY EQUIPMENT (4 RACKS)	4384	
MODULE TO TRUSS ATTACHMENT		<u>490</u>
TOTAL TO STATION		33877
ATTACH FITTINGS (2 @ 1100)		<u>2200</u>
SUBTOTAL		36077
MSC/FTS CONTROL STATION		80
DOCKING MODULE		1500
EVA RESERVE		2873
MANAGERS' RESERVE		2000
MARGIN		<u>0</u>
STS PERFORMANCE @ 190 NMI		42530

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-5

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
P.V. POWER MODULE	11474	
PORT TRUSS	4831	
ALPHA JOINT	1320	
RCS MODULES (2 @ 566)	982	150
TANK FARM	2710	790
PORT RADIATOR & HR&T	3931	
SSEMU (VERIFICATION UNIT)	631	
STBD RADIATOR PANELS	<u>1116</u>	<u> </u>
	<u>26995</u>	940
TOTAL TO STATION	27935	
FSE/ATTACH FITTINGS	<u>6983</u>	
SUBTOTAL	34918	
MSC/FTS CONTROL STATION	80	
DOCKING MODULE	1500	
EVA RESERVE	2873	
MANAGERS' RESERVE	2000	
MARGIN	<u>1159</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

OF-1

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
SPECIAL OUTFITTING LOG MODULE	8338	
LAB MODULE OUTFITTING (18 RACKS)	<u>25539</u>	
TOTAL TO STATION	33877	
ATTACH FITTINGS (2 @ 1100)	<u>2200</u>	
SUBTOTAL	36077	
MSC/FTS CONTROL STATION	80	
DOCKING MODULE	1500	
EVA RESERVE	2873	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

UOF-1

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
ATTACHED PAYLOAD ACCOMMODATION & EQUIPMENT (2 FIXED, 1 POINTING)	12138	
ATTACHED PAYLOADS	<u>10226</u>	
TOTAL TO STATION	22364	
ATTACH FITTINGS/FSE	<u>5591</u>	
SUBTOTAL	27955	
MSC/FTS CONTROL STATION	80	
DOCKING MODULE	1500	
EDO CAPABILITY	8122	
EVA RESERVE	2873	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-6

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
HYPERBARIC AIRLOCK	6140	
SSRMS-2	2820	
ATTACHED PAYLOADS ACCOMMODATION EQUIP. (1 FIXED, 1 POINTING)	8866	
ATTACH PAYLOADS	<u>11384</u>	
TOTAL TO STATION	29210	
FSE/ATTACH FITTINGS	<u>6867</u>	
SUBTOTAL	38076	
MSC/FTS CONTROL STATION	80	
DOCKING MODULE	1500	
EVA RESERVE	2873	
MANAGERS RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-7

<u>DESCRIPTION</u>		<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
U.S. HAB MODULE	42972	<u>33873</u>	
OFFLOAD	10095		
TOTAL TO STATION		33873	
ATTACH FITTINGS (2 @ 1100)		<u>2200</u>	
SUBTOTAL		36077	
MSC/FTS CONTROL STATION		80	
DOCKING MODULE		1500	
EVA RESERVE		2873	
MANAGERS RESERVE		2000	
MARGIN		<u>0</u>	
STS PERFORMANCE @ 190 NMI		42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-8

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
FORWARD NODES CONNECTED TOGETHER		
STARBOARD	9542	
PORT	9042	
CUPOLAS (2 @ 1600)	3200	
EVA SUPPORT EQUIPMENT	800	
MODULE OUTFITTING	<u>1434</u>	
TOTAL TO STATION	26130	
FSE/ATTACH FITTINGS	<u>3559</u>	
SUBTOTAL	27577	
MSC/FTS CONTROL STATION	0	
IVA FTS CONTROL STATION	80	
DOCKING MODULE	1500	
EVA RESERVE	2873	
OV-102	8500	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-9

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
LOGISTICS PRESSURIZED MODULE	11452	
LOGISTICS UNPRESSURIZED MODULE	3300	
LOGISTICS FLUIDS MODULE	3746	
LOGISTICS RESUPPLY		12225
SSEMUS (4)	2524	
MODULE OUTFITTING	<u>1583</u>	<u> </u>
	<u>22605</u>	12225
TOTAL TO STATION	34830	
ATTACH FITTINGS (3 @ 1100)	<u>3300</u>	
SUBTOTAL	38130	
DOCKING MODULE	1500	
*CREW (2)	900	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-10

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
OUTBOARD P.V. MODULES (2) INCLUDES 4 BAYS TRUSS EACH SIDE	24192	
SSEMU	<u>500</u>	
TOTAL TO STATION	24692	
FSE	1400	
ATTACH FITTINGS (2 @ 1100)	<u>2200</u>	
SUBTOTAL	29292	
DOCKING MODULE	1500	
CREW (2)	900	
OV-102	8500	
MANAGERS RESERVE	2000	
MARGIN	<u>338</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

L-1

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
LOGISTICS PRESSURIZED MODULE	11452	
LOGISTICS UNPRESSURIZED MODULE	3300	
LOGISTICS FLUIDS MODULE	3746	
LOGISTICS RESUPPLY		6747
EVA TURN AROUND EQUIPMENT		500
SPDM	2100	
MODULE OUTFITTING	<u>6985</u>	<u> </u>
	<u>27583</u>	<u>7247</u>
TOTAL TO STATION	34830	
ATTACH FITTINGS (3 @ 1100)	<u>3300</u>	
SUBTOTAL	38130	
DOCKING MODULE	1500	
CREW (2)	900	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-11

<u>DESCRIPTION</u>		<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
JEM MODULE	45868	31200	
OFFLOAD	14668		
JEM EXPOSED FACILITY #1		<u>4730</u>	
TOTAL TO STATION		35930	
ATTACH FITTINGS (2 @ 1100)		<u>2200</u>	
SUBTOTAL		38130	
DOCKING MODULE		1500	
CREW (2)		900	
MANAGERS' RESERVE		2000	
MARGIN		<u>0</u>	
STS PERFORMANCE @ 190 NMI		42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

L-2

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
LOGISTICS PRESSURIZED MODULE	11452	
LOGISTICS UNPRESSURIZED MODULE	3300	
LOGISTICS RESUPPLY		9732
LOGISTICS (PAYLOADS)		2266
EVA TURN AROUND EQUIPMENT		500
ATTACH PAYLOADS & FSE	<u>8680</u>	<u> </u>
	<u>23432</u>	<u>12498</u>
TOTAL TO STATION	35930	
ATTACH FITTINGS (2 @ 1100)	<u>2200</u>	
SUBTOTAL	38130	
DOCKING MODULE	1500	
CREW (2)	900	
MANAGERS RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-12

<u>DESCRIPTION</u>		<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
ESA MODULE	51373	<u>37030</u>	
OFFLOAD	14343		
TOTAL TO STATION		37030	
ATTACH FITTINGS (1 @ 1100)		<u>1100</u>	
SUBTOTAL		38130	
DOCKING MODULE		1500	
CREW (2)		900	
MANAGERS' RESERVE		2000	
MARGIN		<u>0</u>	
STS PERFORMANCE @ 190 NMI		42530	

1300 LBS STS WATER LEFT ON ORBIT IN ECLSS WATER TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

L-3

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
LOGISTICS PRESSURIZED MODULE	11452	
LOGISTICS UNPRESSURIZED MODULE	3300	
LOGISTICS FLUIDS MODULE	3746	
LOGISTICS RESUPPLY		9732
EVA TURN AROUND EQUIPMENT		500
MMD PHASE 1	1400	
MODULE OUTFITTING	<u>4700</u>	<u> </u>
	<u>24598</u>	10232
TOTAL TO STATION	34830	
ATTACH FITTINGS (3 @ 1100)	<u>3300</u>	
SUBTOTAL	38130	
DOCKING MODULE	1500	
CREW (2)	900	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

MB-13

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
JEM EXPOSED FACILITY #2	3282	
& ATTACH PAYLOAD & FSE	8283	
JEM ELM	12295	
& LOGISTICS PAYLOAD	10270	
MODULE OUTFITTING	<u>1800</u>	
TOTAL TO STATION	35930	
ATTACH FITTINGS (2 @ 1100)	<u>2200</u>	
SUBTOTAL	38130	
DOCKING MODULE	1500	
CREW (2)	900	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

L-4

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
LOGISTICS PRESSURIZED MODULE	11452	
LOGISTICS UNPRESSURIZED MODULE	3300	
LOGISTICS FLUIDS MODULE	3746	
LOGISTICS RESUPPLY		9732
EVA TURN AROUND EQUIPMENT		500
MODULE OUTFITTING	<u>6100</u>	<u> </u>
	<u>24598</u>	<u>10232</u>
TOTAL TO STATION	34830	
ATTACH FITTINGS (3 @ 1100)	<u>3300</u>	
SUBTOTAL	38130	
DOCKING MODULE	1500	
CREW (2)	900	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS

SPACE STATION ASSEMBLY SEQUENCE (W/EDO)

03-MAY-88

OF-2

<u>DESCRIPTION</u>	<u>MASS(LBS)</u>	<u>CONSUMABLE</u>
LOGISTICS PRESSURIZED MODULE	11452	
MODULE OUTFITTING	<u>17078</u>	
TOTAL TO STATION	28530	
ATTACH FITTINGS (1 @ 1100)	<u>1100</u>	
SUBTOTAL	29630	
DOCKING MODULE	1500	
CREW (2)	900	
OV-102	8500	
MANAGERS' RESERVE	2000	
MARGIN	<u>0</u>	
STS PERFORMANCE @ 190 NMI	42530	

1300 LBS STS WATER LEFT ON ORBIT IN ELECTROLYSIS SYSTEM TANKS