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NASA Project Mercury Working Paper No. 192

POSTLAUNCH REPORT

FOR

MERCURY-REDSTONE NO. 3

(MR-3)

FICATION DATE

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

SPACE TASK GROUP

Langley Field, Va.

June 16, 1961

-CONFIDENTIAL



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FIGURE 7.3-2 PILOT VOICE COMMUNICATIONS DURING MR-3 FLIGHT

NUMBER	TIME MIN:SEC	DURATION SECONDS	VOICE
1	00:02.3	3	Ahh, Roger; lift-off and the clock is started
2	00:08.3	2	Yes sir, reading you loud and clear
3	00:25.5	8.5	This is Freedom Seven. The fuel is go, l.2 g, cabin at l4 psi, oxygen is go
4	00:48.5	2.5	Freedom Seven is still go
5	00:58.5	8.5	This is Seven. Fuel is go, l.8 g, 8 psi cabin, and the oxygen is go
6	01:21.5	2.6	Cabin pressure is holding at 5.5. Cabin holding at 5.5
7	01:33	10	Fuel is go, 2.5 g, cabin 5.5, oxygen is go, the main bus 24, and the isolated battery is 29
8	01:50.5	3	Okay, it's a lot smoother now. A lot smoother
9	02:01	9	Seven here. Fuel is go, 4 g, 5.5 cabin, oxygen go, all systems go
10	02:15	1.5	5 g
11	02:22	2.5	Cut-off. Tower jettison green
12	02:27.5	1.5	Disarm
13	02:32.5	2	Capsule separation is green
14	02:35.5	6	Periscope is coming out and the turn-around has started
15	02:50	3	ASCS is okay
16	02:53.5	2.5	Control movements

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NUMBER	TIME MIN:SEC	DURATION SECONDS	VOICE
17	03:04	4.5	Okay, switching to manual pitch
18	03:21	2.5	Pitch is okay
19	03:24	4.5	Switching to manual yaw
20	03:42	5	Yaw is okay. Switching to manual roll
21	03:55.5	2.5	Roll is okay
22	03:59.5	4.5	On the periscope. What a beautiful view
23	04:05.5	9.5	Cloud cover over Florida. 3 to 4 tenths near the eastern coast. Obscured up to Hatteras
24	04:20.5	8.5	I can see Okeechobee. Identify Andros Island Identify the Reefs
25	04:44.5	4	Start retro-sequence. Retro- attitude on green
26	04:56.5	2.5	Control is smooth
27	05:13	3	Retro one, very smooth
28	05:16.5	1.5	Retro two
29	05:23.5	2.5	Retro three
30	05:31	2.5	All three retros are fired
31	05:35	6	Okay. Three retros have fired. Retro-jettison is back to arm.
32	05:45.5	1.5	Negative
33	05:55	3	Switching to fly-by-wire
34	06:11	2.5	Roll is okay

NUMBER	TIME MIN:SEC	DURATION SECONDS	VOICE
35	06:16.5	4.5	Roger; do not have a light
36	06:25	6	I do not have a light. I see the straps falling away. I heard a noise. I will use override
37	06:30.5	3	Override used, the light is green
38	06:36.5	2	Ahh, Roger
39	06:44.5	2	Periscope is retracting
40	06:49	4.5	I'm on FBW. Going to re- entry attitude
41	07:04.5	6	Okay, Buster. Re-entry attitude, switching to ASCS normal
42	07:14	2	ASCS is okay
43	07:25	3	Switching HF for radio check
44	07:39		Ahh, Roger, reading you loud and clear HF, Deke, How me? ¹
45	07:48		Ahh, Reading you loud and clear HF, How me?
46	08:04	3	Okay. This is Freedom Seven
47	08:10	7.5	"G" build-up 3, 6, 9
48	08:21	4	Okay - Okay
49	08:27.5	2	Okay
50	08:36.5	2	Okay
51	08:44	4	This is Seven - Okay

HF was not received.

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NUMBER	TIME MIN:SEC	DURATION SECONDS	VOICE
52	08:51	3	45,000 feet now
53	08:56	1.5	40,000 feet
54	08:58	4	I'm back on ASCS
55	09:05	2	35,000 feet
56	09:14	2	30,000 feet
57	09:20	6	Ahh, Roger, Deke, reading you loud and clear. How me?
58	09:35	1	Ahh, Roger
59	09:39	6	The drogue is green at 21,000. The periscope is out. The drogue is out.
60	09:48	8	Okay at drogue deploy. I've got 70 percent auto - 90 percent manual. Oxygen is still okay
61	10:02	4	And the snorkels (out) at about 15,000 feet
62	10:06	2	Emergency flow rate is on
63	10:08	2	Standing by for main
64	10:15	2	Main on green
65	10:18	2	Main chute is reefed
66	10:22	4	Main chute is green. Main chute is coming unreefed and it looks good
67	10:28	4	Main chute is good. Rate of descent is reading about 35 ft/sec.
68	10:40	2	Hello Cap Com. Freedom Seven How do you read?

NUMBER	TIME MIN:SEC	DURATION SECONDS	VOICE
69	10:55	3	Hello CARDFILE 23, this is Freedom Seven. Do you read?
70	11:03	14	Affirmative Indian Cap Com, let me give you a report. I'm at 7,000 feet, the main chute is good, the landing bag is on green, my peroxide has dumped, my condition is good
71	11:29	2	That is affirmative please relay
72	12:36	3	Hello CARDFILE 23, CARDFILE 23, Freedom Seven. Over.
73	12:49	13	Ahh, this is Seven. Relay back to Cap Com please. My altitude now 4,000 feet, con- dition as before, the main chute is good, the landing bag has deployed, the peroxide has dumped
74	14:03	3	Ahh, CARDFILE 23, Freedom Seven
75	14:09	5	I'm about 1,500 feet now. The main chute still looks good. The rate of descent is indicating 30 ft/sec.
76	14:52	1	Ahh, Roger
77	14:59	3	This is Seven. Go ahead
78	15:05	4	Negative. Just relaying my condition is still good. I'm getting ready for impact
	15:22		(Landing)

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