

In Accordance with E. O. 12958

NOV 26 1997

on \_\_\_\_\_

MSN  
1014

PERFORMANCE SUMMARY

INSTRUMENTATION & COMMAND

1. FAIRING SEPARATION MONITOR STEPPED TO THE "OFF" VOLTAGE LEVEL AT T+94 AND THEN STEPPED BACK TO THE PROPER "MATED" LEVEL AT T+170.
2. THE LINK II STATUS BACKUP COMMUTATOR FAILED ON ORBIT 45.

PANORAMIC INSTRUMENT OPERATION

CYCLE RATE DEVIATIONS

<u>MASTER</u>	<u>SLAVE</u>
+ 0.8% to -1.2%	+ 0.1% to -2.7%

CONSUMPTION (FRAMES)

	<u>MASTER</u>	<u>SLAVE</u>
1. AVAILABLE AT LAUNCH	5858	5859
2. RECOVERED - 1 MISSION	2932	2853
3. RECOVERED - 2 MISSION	2950	2889
4. TOTAL RECOVERED	5882	5742
	100% + 24 *	98%

\* FRAMES AVAILABLE AT LAUNCH IS BASED ON NOMINAL SUPPLY LENGTH, THE +24 FRAMES INDICATE THE SUPPLY WAS MORE THAN THE NOMINAL 16,000 FEET.

PERFORMANCE EVALUATION TO DATE

RESULTS LESS "SHARP" THAN MISSIONS 1010 THRU 1013: FINE DETAIL DEGRADED, COMMON TO BOTH INSTRUMENTS THROUGHOUT FLIGHT.



**PERFORMANCE SUMMARY**STELLAR/INDEX OPERATION

"A" MISSION                      NORMAL

"B" MISSION                      ERRATIC METERING AFTER ORBIT 116.  
ONE METERING MALFUNCTION WAS OBSERVED.  
ON ORBIT 127. ENGINEERING OPERATION

CLOCK PERFORMANCE

1. TIME CORRELATION FOR THE ENTIRE MISSION WAS GOOD

PRESSURE MAKE-UP SYSTEM

1. OPERATION WAS NORMAL
2. SUPPLY CONSUMPTION WAS HIGHER THAN EXPECTED. DATA INDICATES THE POSSIBILITY OF A LEAK USING APPROXIMATELY 60-70 PSIA PER DAY OF OPERATION. THE EFFECT OF THIS ANOMALY WAS LESS APPARENT DURING THE LAST 2 DAYS OF THE - 2 MISSION.
3. INTERNAL PRESSURE WAS NOT MONITORED.

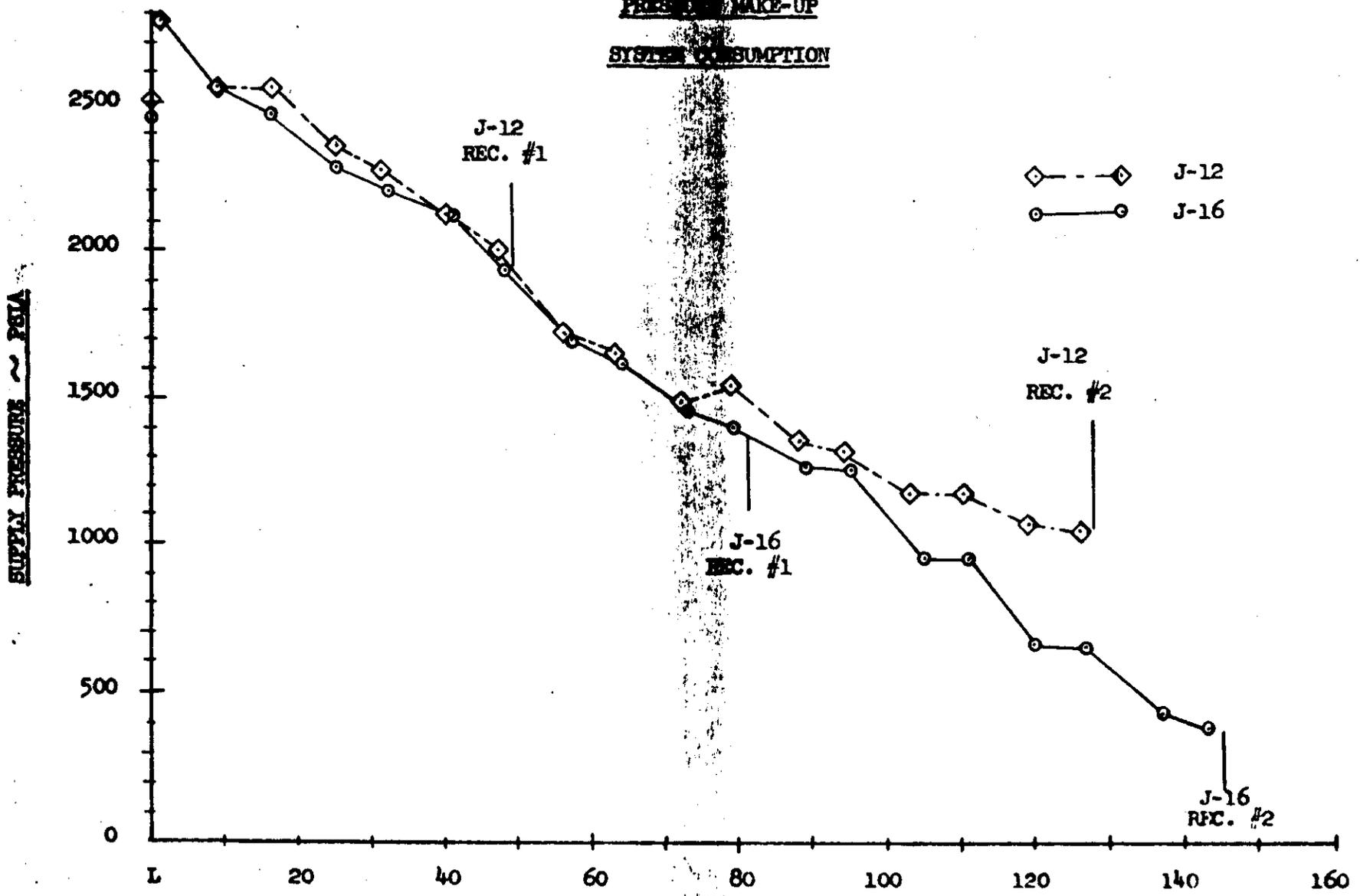
RECOVERY SYSTEM.

1. FUNCTIONS WERE NORMAL FOR BOTH RECOVERIES.
2. MINIMAL DAMAGE FROM RE-ENTRY

**SECRET**

16

FRESH MAKE-UP  
SYSTEM CONSUMPTION



SUPPLY PRESSURE ~ PSIA

SECRET

**SECRET**



TEMPERATURE ENVIRONMENT

RECOVERY SYSTEM

	<u>ORBIT</u>	<u>INST. #1</u>	<u>INST. #2</u>	<u>A CASSETTE</u>	<u>THRUST CONE</u>
-1 MISSION	9	65	64	38	56
	16	64	60	31	51
	25	67	64	32	53
	32	61	58	25	48
	42	64	61	29	49
	48	59	57	25	47
	57	61	57	30	49
	64	57	53	26	44
	73	59	55	28	47
	79	56	52	26	44
-2 MISSION	89	51	50	-	52
	95	51	46	-	55
	105	51	50	-	55
	111	49	45	-	54
	121	50	46	-	53
	127	49	44	-	53
	137	50	46	-	54
	143	48	44	-	53

