

2124Z 05 SEP 61

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**PRIORITY**

140000 8368

PRIORITY

TO : DIRECTOR  
 FROM : [REDACTED]  
 ACTION: OPS (1-2-3-4-5)  
 INFO : S/C (6)  
 JEM  
 TOR: 0015Z 06 SEP 1961

TO PRITY [REDACTED] INFO [REDACTED] CITE [REDACTED]  
 PASS TO PIC  
 REF: A. MISSION 9023  
 B. [REDACTED]

Declassified and Released by the NRO  
 In Accordance with E. O. 12958  
 on NOV 26 1997

1. INJECTION ANGLE OF REF MISSION WAS PLUS 7 DEGREES WHICH RESULTED IN PERIGEE OCCURRING AT 82 DEGREES N AND ALTITUDE OF PERIGEE APPROXIMATELY 89 NM. ORBITAL PARAMETERS NOT FULLY KNOWN UNTIL AFTER PASS 8. ACTUAL V/H CURVE HAD SLOPE THAT CUTS NOMINAL RAMP CURVES AT 60 DEGREE ANGLE. ONLY TIME IMC AND ENDING RATE CORRECT WAS WITHIN FEW DEGREES OF LAT WHERE ACTUAL RAMPS CROSSED OVER NOMINAL RAMPS. VEHICLE WAS LAUNCHED WITH CAMERA ON RAMP 4 AND NOT CHANGED UNTIL AFTER PASS 15 BECAUSE TRACKING DATA WAS SO INCONSISTANT A CHANGE WAS NOT JUSTIFIED. (ALSO INITIAL COMMAND CONTROL WAS MARGINAL). WHEN ORBIT PARAMETERS FULLY ESTABLISHED CAMERA PUT ON STEP 7 (FASTEST CYCLING RATE AVAILABLE). THIS DID NOT IMPROVE SLOPE OF V/H RAMPS BUT DID SHIFT CROSS OVER POINT FROM APPROX 30 DEGREES N TO 45 DEGREES N.

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2/6-70

2. FOLLOWING DATA IS GIVEN FOR PARA 1 OF REF B. WILL BE NECESSARY TO HAVE RAMP CURVES (SEE PARA 4 BELOW) TO LOCATE AREA OF RAMP WHERE OPERATION OCCURED.

RAMP 4 - PASSES 1 THRU 15

RAMP 10 - PASS 17 (OFF MODE)

RAMP 7 - PASSES 18 THRU END OF PAYLOAD

	RAMP 4		RAMP 7	
	BEGIN	END	BEGIN	END
CYCLE PERIOD (SEC)	4.20	2.82	3.74	2.49
SCAN VELOCITY (IN/SEC)	35.9	53.4	40.3	60.5
IMC VELOCITY (IN/SEC)	0.48	0.72	0.54	0.81

AT CENTER FORMAT

3. ANSWER TO PARA 2 REF B IS YES.

4. V/H RAMP CURVES FOR EACH C<sup>000</sup> HAVE BEEN DIFFERENT. RAMP CURVES WILL BE INCLUDED IN CAMERA DATA BOOK WHICH NORMALLY ARRIVES PIC WITHIN WEEK AFTER MISSION.

5. ANSWER TO PARA 4 REF B IS NO.

END OF MSG

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