

MIT/IL SOFTWARE ANOMALY REPORT

O. Larson

1.1 ORIGINATOR: P. VOLANTE		1.2 ORGANIZATION: MIT/IL		1.3 DATE: 8/19/69		1.4 ORIGINATOR CONTROL NO.		MFC REPORT NO. L-1B-01		
1.5 DESCRIPTION OF ANOMALY: Selection of P22 before the CSM has entered Mode 2 Radar Coverage can result in an erroneous 530 Alarm.								PROGRAM LUMINARY PROGRAM REVISION 116		
1.6 DESCRIPTION OF RUN: P22 Digital Simulation, nominal G Mission orbit.								CONTINUED ON PAGE		
- MIT ANALYSIS -										
2.1 CAUSE: The Radar Pre-designation routine does not work.								CONTINUED ON PAGE		
2.2 RECOGNITION: Alarm 530 when the CSM should be coming into coverage.								CONTINUED ON PAGE		
2.3 MISSION EFFECT: None.								CONTINUED ON PAGE		
2.4 AVOIDANCE PROCEDURE: Do not select P22 until CSM is within RR coverage. This time can be supplied from the ground or inferred from the range, range-rate display...								CONTINUED ON PAGE 2		
2.5 RECOVERY PROCEDURE: If alarm 530 is displayed, answer display and reselect P22 when CSM is within RR coverage.								CONTINUED ON PAGE		
2.6 PROGRAM CORRECTION: Fix coding in Pre-designate.								CONTINUED ON PAGE		
2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc): Work-around in LUMINARY 1B; fix in LUMINARY 1C.								CONTINUED ON PAGE		
2.8 RECOMMENDED RE-TESTING: <i>Digi</i>								CONTINUED ON PAGE		
3.1 NASA DIRECTION:				2.9 MIT/IL SIGNATURE: <i>James J. McCoy</i>				2.10 DATE: 22 Aug 69		
				4.1 CLOSING ACTION TAKEN:				CONTINUED ON PAGE		
3.2 NASA/MSC SIGNATURE:		3.3 ORGANIZATION		3.4 DATE:		4.2 SIGNATURE:				

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2.4 Avoidance Procedure, cont'd.

...of R31 (V83). When the range-rate is negative, there is a known range at which the vehicle enters radar coverage, assuming nominal CSM orbit and LM orientation.