

MIT/IL SOFTWARE ANOMALY REPORT

1.1 ORIGINATOR: D. MILLARD		1.2 ORGANIZATION: MIT/IL		1.3 DATE: 5/13/69		1.4 ORIGINATOR CONTROL NO.		MIT REPORT NO. LNy 68	
1.5 DESCRIPTION OF ANOMALY:								PROGRAM LUMINARY	
In P57, if gyro torquing is attempted (a Proceed on V06N93) while the IMU compensation routines are torquing gyros, a 1210 program alarm will occur.								PROGRAM REVISION 69 and 98	
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1.6 DESCRIPTION OF RUN:									
Digital simulation of P57. A software restart occurred after PROCEED on V06N93.									
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- MIT ANALYSIS -									
2.1 CAUSE:									
IMUFINE routine does not check to see if gyro torquing is in process and IMUSTALL make only one attempt at using IMU, then aborts.									
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2.2 RECOGNITION:									
1210 Alarm and restart after PROCEED on V06N93 in P57.									
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2.3 MISSION EFFECT:									
Unknown.									
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2.4 AVOIDANCE PROCEDURE:									
Clear DRIFTFLG with N07 before PRO to N93, then set it.									
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2.5 RECOVERY PROCEDURE:									
Redo P57.									
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2.6 PROGRAM CORRECTION:									
Recode to insure the 1210 cannot occur.									
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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):									
Fix for next LUMINARY Release (1B).									
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2.8 RECOMMENDED RE-TESTING:									
Retest P57 to demonstrate fix.									
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3.1 NASA DIRECTION:								2.10 DATE: 5/14/69	
								4.1 CLOSING ACTION TAKEN: Fix in LUMINARY 1B <i>Henry W. Chern</i> FIXED REV 106	
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3.2 NASA/MSC SIGNATURE:		3.3 ORGANIZATION		3.4 DATE:		4.2 SIGNATURE:		4.3 ORGANIZATION: 4.4 DATE:	