

MIT/IL SOFTWARE ANOMALY REPORT

MIT REPORT NO. **LNY64**
 PROGRAM **LUMINARY**
 PROGRAM REVISION **97**

1.1 ORIGINATOR: C. SCHULENBERG	1.2 ORGANIZATION: MIT/IL	1.3 DATE: 4/28/69	1.4 ORIGINATOR CONTROL NO.
1.5 DESCRIPTION OF ANOMALY: If a restart occurs in P63 between the nominal ignition time and the time of FTP, the LGC will fail to throttle the DPS to maximum thrust and the landing guidance equations will not be put into operation.			
CONTINUED ON PAGE			
1.6 DESCRIPTION OF RUN: Anomaly pointed out in TRW memo, entitled, Questional Items in LUMINARY 97 Listing (A-201, 4/23/69).			
CONTINUED ON PAGE			
- MIT ANALYSIS -			
2.1 CAUSE: Programmer Error.			
CONTINUED ON PAGE			
2.2 RECOGNITION: See Section 1.5.			
CONTINUED ON PAGE			
2.3 MISSION EFFECT: If the recovery procedure is not taken in a timely manner, the landing would have to be aborted via selection of P70 or P71.			
CONTINUED ON PAGE			
2.4 AVOIDANCE PROCEDURE: None			
CONTINUED ON PAGE			
2.5 RECOVERY PROCEDURE: Force DPS to maximum thrust via manual throttle at FTP time. Then key in V24N01E01252E02462E62067E. Then wait a few seconds and reduce manual throttle to 10 percent.			
CONTINUED ON PAGE			
2.6 PROGRAM CORRECTION: Correct restart protection for P63 throttle-up task.			
CONTINUED ON PAGE			
2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc): Fix program or be prepared to use recovery procedure depending on the likelihood of a restart in this time interval.			
CONTINUED ON PAGE			
2.8 RECOMMENDED RE-TESTING: Restart test of P63.			
CONTINUED ON PAGE		2.9 MIT/IL SIGNATURE: <i>James E. Ferriman</i>	2.10 DATE: 5-1-69
3.1 NASA DIRECTION: POPC 233		4.1 CLOSING ACTION TAKEN: FIXED MEMO 91	
CONTINUED ON PAGE		CONTINUED ON PAGE	
3.2 NASAMSC SIGNATURE:	3.3 ORGANIZATION	3.4 DATE:	4.2 SIGNATURE:
3.5 ORGANIZATION:	3.6 DATE:	4.3 ORGANIZATION:	4.4 DATE: