

MIT/IL SOFTWARE ANOMALY REPORT

MIT REPORT NO. LNJ 72
PROGRAM LUMINARY
PROGRAM DIVISION 97,99

1.1 ORIGINATOR: G.W. CHERRY	1.2 ORGANIZATION: MIT/IL	1.3 DATE: 5/20/69	1.4 ORIGINATOR CONTROL NO.
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1.5 DESCRIPTION OF ANOMALY:
 If the LGC does not receive indication of the antenna's reaching position 2 in the antenna re-positioning routine, this routine displays priority alarm 523. It is intended that the crew be able to terminate R12 and any alarms associated with the LR by keying in V32E to the priority display. Unfortunately, there is another check of the antenna position discrettes in coding which is not terminated by the V32E response to the priority display of 523. This check turns on the program alarm light and stores alarm code 511. 511 is not a prio alarm, but it does turn on the program alarm light every 2 seconds. CONTINUED ON PAGE

1.6 DESCRIPTION OF RUN:

 Landing run on Cape LMS. Reported by Bob Pearson. CONTINUED ON PAGE

- MIT ANALYSIS -

2.1 CAUSE:
 Implementation error. CONTINUED ON PAGE

2.2 RECOGNITION:
 Program alarm light every two seconds after V32E to 523 alarm. CONTINUED ON PAGE

2.3 MISSION EFFECT:
 523 is written over any other alarm code and crew cannot tell what is causing the program alarm light. CONTINUED ON PAGE

2.4 AVOIDANCE PROCEDURE:
Don't try to land without LR in position 2. CONTINUED ON PAGE

2.5 RECOVERY PROCEDURE:
Set FLAGWORD 11 to 40000 by V21N01, ECADR = 00107. This sets LRBYPASS flag and stops all use of LR. CONTINUED ON PAGE

2.6 PROGRAM CORRECTION:
 Set LRBYPASS flag when V32E in response to FLV05N09, R1 = 523. CONTINUED ON PAGE

2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):
 Fix in LUMINARY 1B.
 Program note in LUMINARY 1A. CONTINUED ON PAGE

2.8 RECOMMENDED RE-TESTING:
 Level 6 run with landing and Level 3 with particular coding checked. CONTINUED ON PAGE

2.9 MIT/IL SIGNATURE: <i>G. W. Cherry</i>	2.10 DATE:
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3.1 NASA DIRECTION:

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4.1 CLOSING ACTION TAKEN:
fix by PCR 839 when approved
FIXED memo 91

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3.2 NASA/MSC SIGNATURE:	3.3 ORGANIZATION:	3.4 DATE:	4.2 SIGNATURE:	4.3 ORGANIZATION:	4.4 DATE:
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