

MIT/IL PROGRAM CHANGE ROUTING SLIP

~~PCR/PCN~~ # _____
ANOMALY # L-10-03

- | | |
|--------------------------------------|---|
| <input type="checkbox"/> COLOSSUS 2C | <input type="checkbox"/> LUMINARY 1B |
| <input type="checkbox"/> COLOSSUS 2D | <input type="checkbox"/> LUMINARY 1C |
| <input type="checkbox"/> COLOSSUS 2E | <input checked="" type="checkbox"/> LUMINARY 1D |
| <input type="checkbox"/> COLOSSUS 2F | <input type="checkbox"/> LUMINARY 1E |

- | | | |
|---|--|---|
| <input type="checkbox"/> MIT Approved PCN | <input type="checkbox"/> NASA Approved PCR | <input type="checkbox"/> NASA Approved Software Anomaly |
| | <input type="checkbox"/> NASA Approved PCN | <input checked="" type="checkbox"/> MIT Approved Software Anomaly |

A. Coding

Begin coding immediately

ACTION: Bruce McCoy

Program Supervisor's Approval: Margaret Hamilton

Do not code until new GSOP material has been approved by the MIT Mission Design Review Board (MDRB) and distributed.

B. GSOP Preparation

Prepare GSOP revisions for MDRB consideration

ACTION: _____

Technical Committee Meeting not required.

Technical Committee Meeting(s) held on _____
Attendees: _____

C. KSC Testing and Checkout

Review for possible impact on KSC testing and checkout

ACTION: _____

D. Other Programs Affected

Review for corresponding changes in _____

ACTION: _____

Special Instructions

Project Manager Russell H. Larson

Date 12-4-69

MIT/IL SOFTWARE ANOMALY REPORT

MSC REPORT NO.
L-1C-03
 PROGRAM
LUMINARY
 PROGRAM REVISION
130 & 131

1.1 ORIGINATOR: R. Covelli	1.2 ORGANIZATION: MIT	1.3 DATE: Dec. 1 '69	1.4 ORIGINATOR CONTROL NO.	
1.5 DESCRIPTION OF ANOMALY: If a V59E is used to reposition the Landing Radar antenna to position two at any time other than powered descent in P63, the return from the repositioning routine will be incorrect. As a result, V61 will also be executed, which will cause DAP attitude errors to be displayed on the FDAI. Futhermore, if the repositioning is not successful, the 523 alarm will not be given. Also, all subsequent radar operations using the RADSTALL routine as a buffer will return with the status of the previous radar operation. This will remain in effect until a V37 or a restart occurs.				CONTINUED ON PAGE
- MIT ANALYSIS -				
1.6 DESCRIPTION OF RUN: Inspection of coding				
CONTINUED ON PAGE				
2.1 CAUSE: Coding error. The routine LRPOS2 is called by a TC, but it returns via SWRETURN.				
CONTINUED ON PAGE				
2.2 RECOGNITION: None.				
CONTINUED ON PAGE				
2.3 MISSION EFFECT: Probably none, since there are no plans to use V59.				
CONTINUED ON PAGE				
2.4 AVOIDANCE PROCEDURE: Do not use V59 other than during powered descent in P63.				
CONTINUED ON PAGE				
2.5 RECOVERY PROCEDURE: If in P00, reselect P00, or V69E.				
CONTINUED ON PAGE				
2.6 PROGRAM CORRECTION: Call routine LRPOS2 via BANKCALL.				
CONTINUED ON PAGE				
2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc): Fix for LUMINARY 1D.				
CONTINUED ON PAGE				
2.8 RECOMMENDED RE-TESTING: Basic trace of V59 logic in a digital simulation.				
CONTINUED ON PAGE				
3.1 NASA DIRECTION:			2.9 MIT/IL SIGNATURE: <i>Russell H. Larson</i>	
CONTINUED ON PAGE			2.10 DATE: 12-24	
3.2 NASA/MSC SIGNATURE:			4.1 CLOSING ACTION TAKEN:	
CONTINUED ON PAGE			CONTINUED ON PAGE	
3.3 ORGANIZATION	3.4 DATE:	4.2 SIGNATURE:	4.3 ORGANIZATION:	4.4 DATE: