□ COLOSSUS 2C  □ LUMINARY 1B
□ COLOSSUS 2D  □ LUMINARY 1C
□ COLOSSUS 2E  □ LUMINARY 1D
□ COLOSSUS 2F  □ LUMINARY 1E

□ MIT Approved PCN  □ NASA Approved PCR  □ NASA Approved PCN
□ NASA Approved Software Anomaly  □ MIT Approved Software Anomaly

A. Coding

  ○ Begin coding immediately

  ACTION: ____________________________

Program Supervisor's Approval: ____________________________

  ○ 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: ____________________________
Date: __________

Anomaly # L-10-03
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. Furthermore, 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.

**MIT ANALYSIS**

2.1 **CAUSE:**

Coding error. The routine LRPOS2 is called by a TC, but it returns via SWRETURN.

2.2 **RECOGNITION:**

None.

2.3 **MISSION EFFECT:**

Probably none, since there are no plans to use V59.

2.4 **AVOIDANCE PROCEDURE:**

Do not use V59 other than during powered descent in P63.

2.5 **RECOVERY PROCEDURE:**

If in P00, reselect P00, or V69E.

2.6 **PROGRAM CORRECTION:**

Call routine LRPOS2 via BANKCALL.

2.7 **RECOMMENDED DISPOSITION (Fix, Work-around, etc):**

Fix for LUMINARY ID.

2.8 **RECOMMENDED RE-TESTING:**

Basic trace of V59 logic in a digital simulation.

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**NASA DIRECTION:**

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**NASAMSC SIGNATURE:**

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**CLOSING ACTION TAKEN:**