

MIT/IL PROGRAM CHANGE ROUTING SLIP

PCR/PCN # _____
ANOMALY # CO-115

COLOSSUS 1A

LUMINARY.1

COLOSSUS 2

LUMINARY 1A

COLOSSUS 2A

LUMINARY _____

COLOSSUS 2C

7
8

MIT Approved PCN

NASA Approved PCR

NASA Approved Software Anomaly

NASA Approved PCN

MIT Approved Software Anomaly

A. Coding

Begin coding immediately

ACTION: _____

Program Supervisor: Al Engel

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: Al Engel, Peter C. Hill

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 Stephen K. Hill
Date 5/30/69

MIT/IL SOFTWARE ANOMALY REPORT

MSC REPORT NO.
COM 15

1.1 ORIGINATOR: A. ENGEL	1.2 ORGANIZATION: MIT/IL	1.3 DATE: 5/28/69	1.4 ORIGINATOR CONTROL NO.	PROGRAM: COLOSSUS 2A	
1.5 DESCRIPTION OF ANOMALY: Storing of gimbal angles at liftoff for initialization of attitude errors in P11 is not properly restart protected (period of anomaly is maximum TLIFTOFF + 2 seconds).				PROGRAM REVISION REV 55	
CONTINUED ON PAGE					
1.6 DESCRIPTION OF RUN: Special Level 4 restart test SATFLY2R.					
CONTINUED ON PAGE					
- MIT ANALYSIS -					
2.1 CAUSE: Coding error in restart tables; MATRXJOB is restarted with incorrect EBANK setting.					
CONTINUED ON PAGE					
2.2 RECOGNITION: Saturated FDAI needles until start of polynomial calculations (saturated error signals					
CONTINUED ON PAGE 2.					
2.3 MISSION EFFECT: Saturated FDAI needles until start of polynomial calculations.					
CONTINUED ON PAGE					
2.4 AVOIDANCE PROCEDURE: Restrict takeover until after start of polynomial calculations (already a restriction for other hardware considerations).					
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2.5 RECOVERY PROCEDURE: None					
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2.6 PROGRAM CORRECTION: Provide proper EBANK declaration for restart of MATRXJOB.					
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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc): Fix for COLOSSUS 2C, program note for earlier revisions.					
CONTINUED ON PAGE					
2.8 RECOMMENDED RE-TESTING: Special Level 4 restart test, SATFLY2R.					
CONTINUED ON PAGE					
2.9 MIT/IL SIGNATURE: <i>[Signature]</i>			2.10 DATE: 5/28/69		
3.1 NASA DIRECTION:			4.1 CLOSING ACTION TAKEN:		
CONTINUED ON PAGE			CONTINUED ON PAGE		
3.2 NASA/MSC SIGNATURE:	3.3 ORGANIZATION:	3.4 DATE:	4.2 SIGNATURE:	4.3 ORGANIZATION:	4.4 DATE:

MIT/IL SOFTWARE ANOMALY REPORT

1.1 ORIGINATOR:

A. ENGEL

1.2 ORGANIZATION:

MIT/IL

1.3 DATE:

5/28/69

1.4 ORIGINATOR
CONTRACT NO.

BASE REPORT NO.

COM 15

PROGRAM

COLOSSUS 2A

PROGRAM REVISION:

REV 55

2.2 Recognition, cont'd.

to SATURN autopilot if launch Vehicle Guidance Switch is switched to CMC prior to start of polynomial calculations)