

MIT/IL PROGRAM CHANGE ROUTING SLIP

D. EYLES

PCR/~~PCN~~ # 285

ANOMALY # _____

- COLOSSUS 2C
- COLOSSUS 2D
- COLOSSUS 3
- COLOSSUS _____
- LUMINARY 1B
- LUMINARY 1C
- LUMINARY _____

- MIT Approved PCN
- NASA Approved PCR
- NASA Approved Software Anomaly
- NASA Approved PCN
- MIT Approved Software Anomaly

A. Coding

- Begin coding immediately

Don Eyles

ACTION: _____

Program Supervisor's Approval: Margaret Hamel

- 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

F. DECAIN
J. KLAWSNIK

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 R. Larson King

Date 10/15/67

APOLLO SPACECRAFT SOFTWARE CONFIGURATION CONTROL BOARD
PROGRAM CHANGE REQUEST

NUMBER (Completed by FSB)

285

1.0 COMPLETED BY ORIGINATOR

1.1 ORIGINATOR H. W. Tindall, Jr. J. R. Garman	DATE 9/30/69	1.2 ORGANIZATION MPAD FSB	APPROVAL <i>H. W. Tindall, Jr.</i>	DATE Sept 30, 69
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1.3 EFFECTIVITY Apollo 13 - LUMINARY IC	1.4 TITLE OF CHANGE Remove check of auto throttle discrete
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1.5 REASON(S) FOR CHANGE (1) To permit manual throttle in P63/64; specifically to add capability for manual pulse down to save ΔV , and (2) the throttle discrete is a single-point failure capable of terminating all LGC descent guidance.

1.6 DESCRIPTION OF CHANGE Remove P67 and all descent program checks of the auto-throttle discrete. Even in the event of auto-throttle failure the crew would use P63, 64, or 66 with manual throttle control.

2.0 SOFTWARE CONTROL BOARD OR FLIGHT SOFTWARE BRANCH
DECISION FOR VISIBILITY IMPACT ESTIMATE BY MIT

2.1 <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	2.2 REMARKS:
2.3 SOFTWARE CONTROL BOARD OR FLIGHT SOFTWARE BRANCH SIGN OFF	
DATE	

3.0 MIT VISIBILITY IMPACT EVALUATION:

3.1 SCHEDULE IMPACT	3.2 IMPACT OF PROVIDING DETAILED EVALUATION
3.3 STORAGE IMPACT	3.4 REMARKS: <i>G. Cernan remarked that the crew would like a noun to display that percent commanded by the LGC. The other two registers of that noun will be: R2-alt rate, R3-alt unless a more reasonable candidate is proposed.</i>
3.5 MIT COORDINATOR	
DATE	

4.0 SOFTWARE CONTROL BOARD ACTION

4.1 <input checked="" type="checkbox"/> IMPLEMENT AND PROVIDE DETAILED CHANGE EVAL. <input type="checkbox"/> PROVIDE DETAILED CHANGE EVALUATION <input type="checkbox"/> DIS-APPROVED	4.2 REMARKS:
4.3 SOFTWARE CONTROL BOARD SIGN OFF <i>SCB on 10/9/69</i>	
DATE	

5.0 MIT DETAILED PROGRAM CHANGE EVALUATION

5.1 MIT COORDINATOR	5.2 MIT EVALUATION
DATE	

6.0 SOFTWARE CONTROL BOARD DECISION ON MIT
DETAILED PROGRAM CHANGE EVALUATION

6.1 <input type="checkbox"/> START OR CONTINUE IMPLEMENTATION <input type="checkbox"/> DISAPPROVED OR STOP IMPLEMENTATION	6.2 REMARKS:
6.3 SOFTWARE CONTROL BOARD SIGN OFF	
DATE	