APOLLO SPACECRAFT SOFTWARE CONFIGURATION CONTROL BOARD PROGRAM CHANGE REQUEST

NUMBER (Completed by PSB)

1.0 COMPLETED BY ORIGINATOR

1.1 ORIGINATOR	DATE	1.2 ORGANIZATION	APPROVAL	DATE
J. H. Alphin	9/29/70	MPAD		

1.3 EFFECTIVITY: Apollo 15

1.4 TITLE OF CHANGE: Landing Radar Reasonability Test

1.5 REASON(S) FOR CHANGE:
The landing radar reasonability test can lock out valid altitude updating, especially if the lunar terrain model is inhibited (V68) during the approach phase.

1.6 DESCRIPTION OF CHANGE:
See attached page.

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

☐ APPROVED ☐ DISAPPROVED

2.1 SOFTWARE CONTROL BOARD OR FLIGHT SOFTWARE BRANCH SIGN OFF:

DATE:

2.2 REMARKS:

3.0 MIT VISIBILITY IMPACT EVALUATION:

3.1 CREW/DSKY IMPACT:

3.2 IMPACT OF PROVIDING DETAILED EVALUATION:

3.3 USAGE IMPACT:

3.4 REMARKS:

3.5 COORDINATOR:

DATE:

4.0 SOFTWARE CONTROL BOARD ACTION

☐ IMPLEMENT AND PROVIDE DETAILED CHANGE EVAL. ☐ PROVIDE DETAILED CHANGE EVALUATION ☐ DISAPPROVED

4.1 SOFTWARE CONTROL BOARD SIGN OFF:

DATE:

4.2 REMARKS:

5.0 MIT DETAILED PROGRAM CHANGE EVALUATION

5.1 COORDINATOR:

DATE:

5.2 MIT EVALUATION:

6.0 SOFTWARE CONTROL BOARD DECISION ON MIT DETAILED PROGRAM CHANGE EVALUATION

☐ START OR CONTINUE IMPLEMENTATION ☐ DISAPPROVED OR STOP IMPLEMENTATION

6.1 SOFTWARE CONTROL BOARD SIGN OFF:

DATE:

6.2 REMARKS:

Form 288 (Jul 68)

APOLLO SPACECRAFT SOFTWARE CONFIGURATION CONTROL BOARD
DATA AMPLIFICATION SHEET

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SYSTEM CHANGE REQUEST NO.	PREPARED BY	DATE	ORGANIZATION
	J. H. Alphin	9/29/70	MPAD

AMPLIFICATION SECTION: (Refer to Block Number and Title on Program Change Request form.)

1.6 DESCRIPTION OF CHANGE

Increase the slope and eliminate the constant term in the landing radar reasonability test so that less chance for lock out will occur. The recommended slope is 0.3 instead of the present 0.125. This number would reject updates which cause guidance interface problems, but would accept values that would not cause interface problems. The current slope excludes many cases that are acceptable from a guidance standpoint. In addition, this reasonability test will protect for cross lobe look up to lower altitudes.

COMMENTS:

Current