APOLLO SPACECRAFT SOFTWARE CONFIGURATION CONTROL BOARD
PROGRAM CHANGE REQUEST

1.0 COMPLETED BY ORIGINATOR

Eyles/Adler/Cherry 8-15-69 MIT

1.3 EFFECTIVITY

LUMINARY 2 Variable-Guidance Period

1.5 REASON FOR REQUEST

To allow faster display rates during P47, during the trim periods of P40, P41, and P42, and during the final landing programs P65, P66, and P67. To allow faster reaction to astronaut inputs during P66.

1.6 DESCRIPTION OF CHANGE

Modify servicer to permit a variable guidance period. Period would be shorter in the cases mentioned above; longer in case execution time difficulties are ever encountered in programs now running on a 2 second period.

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

2.1

☐ APPROVED

☐ DISAPPROVED

2.2 REVERSED

3.0 MIT VISIBILITY IMPACT EVALUATION:

3.1 SCHEDULE IMPACT

3.2 STORAGE IMPACT

3.3 MIT COORDINATOR

3.4 REMARKS

3.5 SOFTWARE CONTROL BOARD OR FLIGHT SOFTWARE BRANCH SIGN OFF

3.6 IMPLEMENT AND PROVIDE DETAILED CHANGE EVAL.

3.7 DISAPPROVED OR STOP IMPLEMENTATION

3.8 SOFTWARE CONTROL BOARD SIGN OFF

4.0 SOFTWARE CONTROL BOARD ACTION

4.1 MIT COORDINATOR

4.2 MIT EVALUATION

4.3 SOFTWARE CONTROL BOARD DECISION ON MIT DETAILED PROGRAM CHANGE EVALUATION

5.0 MIT DETAILED PROGRAM CHANGE EVALUATION

5.1 MIT COORDINATOR

5.2 MIT EVALUATION

5.3 SOFTWARE CONTROL BOARD OR FLIGHT SOFTWARE BRANCH SIGN OFF

6.0 SOFTWARE CONTROL BOARD DECISION ON MIT DETAILED PROGRAM CHANGE EVALUATION

6.1 START OR CONTINUE IMPLEMENTATION

6.2 DISAPPROVED OR STOP IMPLEMENTATION

6.3 SOFTWARE CONTROL BOARD SIGN OFF

KSC Form 285 (Jul 62) TP#21312
1.5 Reasons for Change

The crucial reason for this change is the allowance the PCR will make for an unanticipated TLOSS and for additional computations in SERVICER such as proposals for LR altitude data pre-filtering.

1.6 Description of Change

In effect, SERVICER will run as a self-perpetuating job which schedules READACCS and its next cycle after having completed its current cycle. This implementation prevents the 1201 and 1202 alarms which occurred during Apollo 11.

REMARKS

This PCR was previously submitted as PCR 350 on 11-26-68 and disapproved because of an intolerable schedule impact.