MIT 129.2

APOLLO SPACECRAFT SOFTWARE CONFIGURATION CONTROL BOARD
- PROGRAM CHANGE REQUEST -

MIT-PCN

No. 190.2
(Completed by FSB)

1.0 COMPLETED BY ORIGINATOR

1.1 ORIGINATOR: G. Cherry DATE: 4/23/68

1.2 ORGANIZATION: MIT/II APPROVAL: _____ DATE: _____

1.3 EFFECTIVITY: SUNDANCE

1.4 TITLE OF CHANGE: Clarification of R 31's operation

1.5 REASON(S) FOR CHANGE: To clarify the operation of R31, the rendezvous parameter display routine.

1.6 DESCRIPTION OF CHANGE:

See amplification sheet

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

2.1 ☐ APPROVED ☐ 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:

3.5 MIT COORDINATOR: _____

DATE: _____

4.0 SOFTWARE CONTROL BOARD ACTION

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

4.2 REMARKS:

4.3 SOFTWARE CONTROL BOARD SIGN OFF: _____

DATE: _____

5.0 MIT DETAILED PROGRAM CHANGE EVALUATION

5.1 MIT COORDINATOR: Gerry W Cherry
DATE: 4/29/68

5.2 MIT EVALUATION: 0 impact APPROVED FOR IMPLEMENTATION

This is a response to another anomaly discovered by the crew on the CMS
Action: BOB WERNER Gerry W. Cherry

6.0 SOFTWARE CONTROL BOARD DECISION ON MIT DETAILED PROGRAM CHANGE EVALUATION

6.1 ☐ START OR CONTINUE IMPLEMENTATION ☐ DISAPPROVED OR STOP IMPLEMENTATION

6.2 REMARKS:

6.3 SOFTWARE CONTROL BOARD SIGN OFF: _____

DATE: _____

APOLLO SPACECRAFT SOFTWARE CONFIGURATION CONTROL BOARD

-DATA AMPLIFICATION SHEET -

PROGRAM CHANGE REQUEST NO. 190.2	PREPARED BY: G. Cherry DATE: 4/23/68	ORGANIZATION: MIT/IL

CONTINUATION SECTION (REFER TO BLOCK NUMBER AND TITLE ON PROGRAM CHANGE REQUEST FORM)

Add the following assumptions to the list of assumptions

(3). If navigation marks are made after this routine is selected and running, the effect of the marks on the state vector will not be exhibited in the display of range and range rate. To see the effect of the navigation marks on the range and range rate in N 54, the astronaut must terminate this routine (PROCEED) and re-select it (V83E).

(4) If R31 is run for a long time in coasting flight the range and range rate information in N54 will begin to degenerate because of the conic extrapolations of the state vectors.

On line #20 show

Extrapolate LM and CSM state vectors to present time by precision integration (described in Section 5.6.7.1 of R 557) to establish a base state vector for the subsequent conic (Kepler subroutine) extrapolations.

REMARKS