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MEMO

TO: Distribution
FROM: K. W. Greene
DATE: 14 August 1970
SUBJECT: Notes on SCB Meeting #40 held at MSC on 8/13/70.

The following action items from the previous meeting were discussed:

a) Variable Services

It was reported that a design review meeting was held on August 5th at MSC. The final decision was that variable services will not fly on Apollo 15 and is not presently planned for any future mission. Effort to develop variable services and other related program improvements should be continued but on a low priority.

It was stated that the main effort should be to enhance the operation of the present system to protect against any so called "lurkers". It was generally agreed that the lurkers in the 7 1/2 to 8% T-LOSS range had been fixed; but that studies should be conducted at higher T-loss for any addition lurkers. This effort should be reported on at the next SCB.

b) Bit Failure Protection

A handout was present by MIT giving MIT's recommendation and analysis of the inbits for Colossus 3. It was requested that MSC review these recommendations. (See PCR 318). It was also reported that the outbits would now be examined for Colossus and that the same team would then study the Luminary Channel bits. It was requested that the results of the outbit study be forwarded to J. Garman before the next SCB meeting.

- c) It was reported that the 11 PCN's that were originally written to define the establishment of the Colossus 3 program would be approved by memo. These PCNs are as follows:
PCN 875, 877, 878, 879, 880, 891, 910, 946, 948, 1018 and 1019.

I SKYLAB

- PCR SL001 AAP Colossus Downlink Deletions
Status: Disapproved.
- PCR SL033 Fixed Coordinate System for Skylab
Status: Approved for a detailed evaluation. MIT was given an action item to look at this change for Mainline Apollo and if it looked good to prepare a PCR for Mainline.
- SLO34 Improvements to Ephemerides.
Status: Approved for a detail evaluation. MIT should be prepared to report on this PCR and PCR SLO23 at the next SCB.

II COLOSSUS 2E

- PCR 954 Revised Manual Booster Backup Guidance
Status: Disapproved. This was just to clean up the paper work.
- PCN 1053 GSOP Section 2 Rev. 11 Editorial Changes
Status: Approved.

III COLOSSUS 3

- PCR 318 Software Workaround for State Failures of Channel 31 Bits 15, 14 and 13.
Status: Approved.
- PCR 320 TLI Initiated/Cutoff Program
Status: Approved. Details of method of implementation should be ironed out at a Mission Techniques Meeting.
- PCR 1050 Revised Manual Booster Backup Guidance.
Status: Disapproved.
- PCN 1057 GSOP Section 2 Flagword Description Change
Status: Approved.

- PCR 1060 Allow Deadband Selection Via N79 During Option 0, 1,
4 and 5 of P20
Status: Approved
- PCR 1061 P20-N78 Preload
Status: Approved
- PCR 1062 Eliminate STOPRATE & Deadband Restoration in V37 if
P20 Continuous Tracking is Operating
Status: Approved.
- PCR 1063 P22 Mark Reject
Status: Approved.
- PCR 1064 Add IMU Checks Prior to MINKEY Requests
Status: Approved
- PCR 1065 Display N55 and N37 in P31
Status: Approved.
- PCR 1067 Trun on DAP When P31, P32, P33, P34, P35, P79 is Re-
quested.
Status: Disapproved.
- PCR 1068 Saturn Backup Superstick
Status: Disapproved
- PCR 1069, 1 Delete Rendezvous and Orbit Navigation Testing for Earth
Orbit.
Status: Approved.

A schedule slip of 5 weeks was approved for the Colossus 3 Program Development. The release date has now changed from Nov. 18, 1970 to Dec. 23, 1970.

IV LUMINARY 1D

- PCR 321 Add LR Measurement H to Descent/Ascent Downlist
Status: Disapproved.
- PCR 322 Change (THROTLAG) from 0.2 to 0.08
Status: Approved
- PCR 1056 Improvements for Impulse and Ullage Logic
Status: Approved
- PCR 1058 New Landing Analog Display Routine (R10)
Status: Approved.

V LUMINARY 1E

PCR 319 A-Priori Terrain

The addition of ΔH to the downlist was approve; the addition of additional terrain slope segments was disapproved. Also the time for ΔH .

PCR 323 Improvements to Ephemerides

Status: Disapproved

PCR 324 PGNCs-AGS Rendezvous Radar

Status: Approved

Note: The order of the words on the downlink was revised at the meeting. (See markup of PCR 324)

PCR 1055 Noun for LPD Bias

Status: Disapproved.

PCR 1044 Redesign of R53-R57

Status: Approved

PCR 1069.2 Delete Rendezvous Testing for Earth Orbit

Status: Approved.

New Action Item

MIT was asked to examine and report on which fixed memory constants were mission dependent. (i. e. Which values had to be changed from mission to mission).


K. W. Greene

KWG:hpo's

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