

R. Larson

MIT Management Development Plan Meeting #14

Held on 16 January 1968

1. Sundisk -

The status of the program for release on 1 February was reviewed. The biggest remaining discrepancy is the W-Matrix problem which was discussed in detail (handout) including the work around procedures. Fixes are in Colossus for these problems but the differences in programs of Sundisk make it difficult to even quote impact if the W-Matrix was to be fixed. No problems are foreseen in flying the "C" mission with the recommended work arounds.

NASA (C. Kraft) discussed continuing updating Sundisk for the "D" mission but it was decided that with the limited resources available that the best approach is to continue testing the assembly that is released and if mandatory changes do occur to weight the impact then of other updating changes. This course applies the maximum effort to Colossus and Luminary for the present.

A meeting is scheduled at MIT on 1/25 to review the program in preparation for the CARR at MSC on 1/31.

2. Colossus -

Development Plan of 1/12 reviewed.

- a) FOCI now 6/19
- b) Impact of PCR #24 shown will be deleted.
- c) The format on page 2 will be utilized as follows:
 - Required date - Original target FOCI date plus PCR impacts.
 - Predicted date - MIT's latest estimate including PCR impacts and other considerations.
 - Original Target - MIT's original FOCI target date - this will not change.
- d) NASA will take the responsibility of later impact by directing MIT not to work on TLI. TWX coming.

3. Mission Verification -

The mission verification work done in Group 23D after release of a program is designed to check the assembly in the cock pit interfaced with the hybrid simulator. The objectives of this testing are to obtain:

- a) MIT approved "check list"
- b) Recommended G&C mission time line
- c) Verification of task times
- d) Additional testing to uncover discrepancies and verify work arounds.

From discussion of these items it became apparent that procedures were needed to insure MIT approval of the final check list and MIT review of the mission rules.

Action - NASA (W. North) to establish a procedure for MIT approval of the "check list" (may be AOH vol. 2)

Action - NASA (J. Hodge) to establish MIT review of the mission rules.

NASA wants MIT to insure coordination with the Apollo Mission Simulator on a regular basis, every 4/5 weeks. NASA will submit to MIT the AMS test plan for familiarization.

4. Sundance -

- a) Review of development plan - no change in 4/3 FACI.
- b) DAP - GAEC running simulations and requires MIT assistance. MIT cannot allocate adequate resources to support work to GAEC however the following things should be done:
 - (1) GAEC (C. Tilleman) sends man for new assembly each week and he should get MIT assistance, - erasable, special rules, etc.
 - (2) GAEC should attend bi-weekly DAP design reviews. At this meeting GAEC should present feed back from their results.

GAEC should relay DAP problems to G. Cherry when occurring.

- c) Minimum impulse command mode - MIT is correcting this program to make it agree with the P&I specification.

Action - J. Dahlen

- d) GSOP dates - To track the GSOP changes occurring after *initial* issue change pages should be delivered to all holders. At each update a summary page of the change status should also be issued.

Luminary -

- a) Changes will require making a Luminary assembly soon.
- b) LM - 3 model - MIT needs data as soon as possible from NASA. J. Dahlen stated that MIT models of Colossus and Luminary spacecraft (Chapter 6 GSOP) are circulating in house.
- c) NASA needs lunar landing assembly by 3/1; MIT's date is 4/1.
- d) DANCE/Luminary programs - Some changes in Sundance programs will be necessary when they are subjected to the Lunar environment; other changes are occurring because of PCR's.
- e) PCR #39 - MIT to finish evaluation and submit. In discussion of applying manpower to this change now at the sacrifice of Sundance the direction by NASA was to continue on Sundance.
- f) PCR #27 - MIT questioned the need for this change and NASA will re-evaluate.
- g) 70 level IV tests have been identified. The impact on the digital computer load of these tests has not been made.

5. Change Control -

No significant items. The changes in Sundance have remained

relatively high and steady for about 3 weeks. A percentage (20) of these are for Luminary.

6. MH - 1800 -

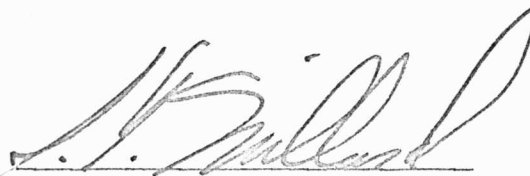
MIT expects now to phase out the second (last) machine by 30 April 1968. The only capability that will be lost when this occurs is making Block I assemblies. NASA (C. Kraft/T. Gibson) agreed that this loss at that time provided them with the service they needed.

7. 502 Flight -

Due to structural problems fuel must be decreased and a new trajectory will be designed.

8. LM-1 Flight -

Action - J.S. Miller - MIT owes NASA a position on navigation and targeting updates.



R. C. Millard

RCM/km

cc: Attendees (List on next page)

W. Kupfer	R. Morth
J. Kernan	W. Widnall
L. Linehan	C. Schulenberg
R. Scholten	A. Laats
M. Hamilton	A. Engle
J. Saponaro	J. Sutherland
P. Peck	Files

ATTENDEES

MIT/IL

R. Ragan
G. Cherry
S. Copps
F. Little
F. Martin
R. Wieser
N. Sears
W. Marscher
R. Larson
J. Dahlen
D. Hoag
R. Millard
M. Johnston
I. Johnson
W. Stameris
J. Nevins
L. Larson
K. Greene
A. Kosmala
R. White
J. Vittek
E. Copps
R. Werner
G. Levine
N. Barnert (S/C)
J. Miller
Dr. Draper

NASA/MSC

C. Kraft
J. Hodge
J. Williams
R. Gardiner
T. Gibson
A. Metzger
W. North

BELLCOM

Mr. Covington

GAEC

C. Tillman
D. Gran