

R. Larson

MIT Management Development Plan Meeting #10

19 December 1967

1. Sundisk

J. Vittek reported on PCR status and release on 1 February 1968. The NASA optional PCR's will be scheduled in on new assemblies so that if problems are encountered late in qualification the earlier assembly will be ready for release.

Action Item - N. Sears - W. matrix and Lambert problems require resolution.

D. Hoag stated that unofficially he had heard the Sundisk GSOP (Chapter 4) was not acceptable to NASA.

2. Colossus

A status report of the Colossus Development schedule was given. A redefinition of tests caused a change in the level 4 testing schedule. The Development Plan allows one week for documentation between the completion of level 4 testing and FACL. TLI testing was slipped 2 weeks; TLI is not a pacing item and also it is believed that this program will probably be dropped as a requirement by NASA/MSC. The completion of level 3 and the start of level 4 is now scheduled for 4/5/68.

Some of the required start dates for level 3 testing are prior to the planned availability of the required digital environments.

Action Item - J.S. Miller is to review the digital requirements for level 3 testing of Colossus and try to adjust the supporting schedule to coincide with level 3 testing.

3. Word Budgets

A status report of the word budget is to be presented at the next meeting.

NASA (G. Sabionski) suggested that the evaluation of PCR's should contain an estimate of both fixed memory and erasable memory impact. This information would be helpful in evaluating the impact of the change,

not only for schedules but on the impact of the memory budgets.

Action Item - E. Copps is to present a status report at the next meeting (12/27) on the review of the word budgets.

4. Sundance

The NASA controlling date for FACI of Sundance is 3/8/68. All PCR impacts and schedule slippages should be based on that date. The FACI date for Sundance has slipped to 3/26/68 and the start of level 4 testing is now scheduled for 1/2/68. The schedule slip from the last predicted date of 3/15/68 to 3/26/68 was the result of the following:

PCR #30 - 2 working days impact.

PCR #31 - Resulted in 4 working days impact.

Problems encountered in level 3 testing of the P-40's caused the remainder of the slippage.

Restart testing of P-20 and the P-30's are being added to the level 3 test plan.

It was emphasized at the meeting that FACI does not mean "A" release and that additional work may be required after FACI before rope manufacturing is started.

5. PCR Evaluation

Some confusion seemed to exist on the definition of what is required when MIT receives PCR direction on either to (1) "Provide a Detailed Evaluation" or (2) "Implement and Provide a Detailed Evaluation".

- (1) Provide detailed change evaluation - (Box 4.1 of PCR form) - When the PCR form is checked for this item it means NASA is willing to accept schedule impact up to the visibility estimate provided by MIT to perform an evaluation. (Box 3.2 of PCR form).

- (2) Implement and provide detailed change evaluation - (Box 4.1 of PCR form) - When this item is checked it means NASA is willing to accept the visibility impact provided by MIT (Box 3.1). MIT will proceed to implement and will provide the detailed evaluation to NASA as soon as practical. NASA may issue a stop (box 6.1) fully recognizing that schedule impact at that point can be as great as the elapsed time or greater.

6. DAP Development Plan

A DAP development outline for Sundance was presented. The DAP Development for Sundance will support a March ? F/ACI of Sundance. Additional testing will be required after F/ACI to determine the complete operating characteristics of the DAP.

Additional personnel are needed to help in the Manual Modes testing area and other areas of DAP testing.

Assembly Control of the DAP has been a problem but steps have been taken to insure that changes are approved within Group 23C. before action by assembly control.

Action Item - W. Widnall is to prepare a complete development schedule for all the DAP's.

7. Luminary

An updated level 3 testing schedule for Luminary was presented. The significant changes were in the areas of Ascent and Descent which have slipped. Concern was expressed by the Program Manager that this was an extremely important area, also that the Ascent and Descent would be required early to support crew training etc. It was felt that the personnel assigned to these programs were insufficient to support a good development schedule.

The commitments to provide a copy of Section 4 and 5 of the GSOP for Ascent and Descent to NASA/MSC on 12/15/67 will now probably take place on 12/22/67.

The Find CDUD for Luminary is different from what was used in Sunburst and Sundance. W. Widnall's group (Keene) is doing the design but no one is assigned to do the programming. Action is required as this routine is required for level 3 testing.

Action Item - R. Ragan - Meeting of E. Copps and G. Cherry with R. Ragan to resolve personnel problems set for 12/19.

8. Show Bank Sum

A description of the Show Bank Sum that is presently in Sundance was given. This program is called by an extended verb and consists of approximately 30 words. It is used by STG, Hybrid, Grumman and at the Cape.

9. Data Exchange Procedure

The Data Exchange and the updating of Section 6 procedures are still being prepared. They will be published in memo form when completed.

10. Chapter 3 of Sundisk

The reason for the one month required to publish the Chapter 3 of Sundisk was that the submittal to the publishing group was in rough form and needed much work to prepare for printing such as typing, proofing, and illustrating. This type of work previously had been done by the author so that clean copy was turned in for printing.

Action Item - W. Kupfer - A detailed explanation of the present publishing schedule.

11. TLI Status

It was stated that MIT's position on the removal of TLI from Colossus should be a passive concurrence.

12. Survey Sheets

Survey Sheets for each of the groups participating in program design and development should be prepared and circulated. The purpose of these sheets is to provide a method of co-ordinating schedules between groups.

Action Item - Martin/Cherry/Millard - Survey Sheets should be prepared for groups 23A, 23C, 23S and 23D.

13. Colossus GSOP

The question was raised as to when the first issue of change pages to the Colossus GSOP should take place. The Program Managers suggestion was 3 weeks after distribution of the blue covered original issue or about the third week in January.

Action Item - F. Martin - Investigate this item and report back at the next meeting.

14. Sundance Change Control Board

The Sundance Change Control Board processed approximately 60 modifications which resulted in 550 cards and 50 additional words. Of these 60 modifications 14 pertained to Luminary and 8 to the DAP's. The bulk of these modifications were changes to existing coding and not new work.

15. The next MIT Management Development Plan Meetings are scheduled for 12/27/67 and 1/3/68. The next joint MIT/NASA Development Plan Meeting is scheduled for 1/16/68.



R. C. Millard

RCM/KG/km

ATTENDEES

R. Ragan	E. Copps	L. Larson
D. Hoag	N. Sears	J. Nevins
R. Wieser	W. Widnall	J. Dahlen
R. Millard	F. Martin	K. Greene
G. Cherry	W. Marscher	R. White
J. Vittek	A. Kosmala	S. Copps
J. S. Miller	M. Johnston	J. Kernan
J. Shillingford	P. Peck	G. Sabionski (NASA)

cc: Attendees

J. Sutherland
M. Hamilton
L. Linehan
W. Kupfer
J. Henize
R. Scholten
C. Schulenberg
R. Morth
P. Engle
A. Laats
J. Saponaro