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Memorandum 6M-4072

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Page 1 of 4

Division 6 - Lincoln Laboratory  
Massachusetts Institute of Technology  
Lexington 73, Massachusetts

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SUBJECT: SAGE SYSTEM MEETING, 19 DECEMBER 1955

To: Distribution List

From: E. D. Lundberg

Date: 19 December 1955

Approved: B. E. Morriss  
B. E. Morriss

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Date: 4-4-60

- Agenda:
1. Proposed IBM Building
  2. Group 61 Space
  3. Systems Maintenance Programs
  4. Results of Air Force Phasing Meeting
  5. Boeing-Lincoln Study Group Progress
  6. Visit to ERA
  7. Meetings Scheduled This Week

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6M-4072

page 2

1. Proposed IBM Building

S. H. Dodd reported that AFCRC has sent a TWX to Rome indicating approval by CRC and Lincoln of plans to construct a Butler-type building adjacent to Building F for IBM maintenance purposes. The TWX also indicated that the necessary facilities are available for the proposed building. However, it was indicated that a survey will have to be made of the chilled water system for air conditioning requirements, and IBM will have to arrange for telephone service with Lincoln.

2. Group 61 Space

The original move of Rand and Group 61 personnel to Waltham has been cancelled as reported last week. P. Brager stated that four people have been moved to Barta and an additional fourteen will be housed at the field station through April. Efforts are continuing to make the Murphy General Hospital available to approximately 25 people who will be completing the Basic Programmer Training Course during the latter part of January.

3. Systems Maintenance Programs

S. H. Dodd stated that the "ADES Report on the Resolution of Computer Programing Tasks", dated May 1, 1955 is currently being revised. This document indicates that ADES and Lincoln are jointly responsible for the preparation of the master systems maintenance programs, but that Lincoln alone is responsible for the adaptation of these programs for the first three sites. ADES has indicated that the omission of ADES in this case was an oversight. J. W. Forrester stated that as a minimum the adaptation task should be a joint effort, with ADES providing the major share of manpower. A commitment should be obtained from ADES on this as soon as possible.

During the above discussion, the question of what organization should be responsible for systems engineering in the SAGE System was considered. No organization has yet been selected for this. It was agreed that this function was distinct from the job of operational evaluation which clearly belongs to Rand. Certain systems engineering tasks must be assigned in the near future. Whenever a Lincoln recommendation is made on the selection of an organization to perform one of these tasks, the 4620th ADW should be informed of the possible ultimate impact of the decision.

4. Results of Air Force Phasing Meeting

B. E. Morriss reported on the results of the Air Force Phasing Meeting held in New York on 14 December. The purpose of the meeting was to consider critical items incident to the ADES December schedule review. The following are the principle items running behind schedule:

FST-2 (Prototype) -	two months behind
FST-2 (production model) -	4 1/2 months behind

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6M-4072

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page 3

Buildings at P-Sites and Radio Sites	-	2 to 4 months behind
Ground/Air Radio	-	Schedule not yet developed

Informal discussions with ADES after the meeting indicated that ADES may recommend (1) a delay in the commencement of the Engineering Installation Phasing period for McGuire, (2) an increase in the length of the E-I Phasing period, (3) or a combination of these. The Lincoln feeling on this is that if delays are necessary the E-I Phasing period should be increased, but the initial installation date should not be changed. Action to be taken was deferred pending subsequent discussions between B. E. Morriss and J. W. Forrester.

5. Boeing-Lincoln Study Group Progress

H. E. Anderson reported on the meetings of the Boeing-Lincoln Study Group held last week in Seattle. The purpose of this group is to identify the required tasks and develop plans for determining SAGE and Bomarc compatibility. It has been decided that the following tasks are required:

- a. Live Firing
- b. Preparation of a system description
- c. Sub-systems tests
- d. Simulation studies

So far Boeing has indicated a willingness to participate only in tasks (a) and (c) above.

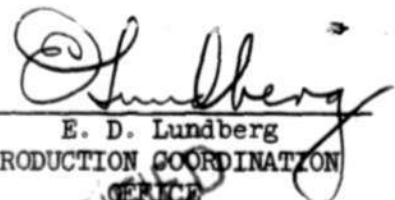
6. Visit to ERA

N. H. Taylor described the results of a visit made by D. R. Brown, R. S. Fallows, and himself to ERA last week. ERA has built a unit containing about 300 transistors, similar to ours in logic. An all magnetic core unit of similar size has also been built and is running. Technical progress in other areas of work was also discussed.

7. Meetings Scheduled this Week

An Air Force briefing on TALOS will be presented at Dayton on 21 December 1955. J. P. May and J. J. Carson will represent Lincoln.

SIGNED:

  
E. D. Lundberg  
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6M-4072

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page 4

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Meeting Attendants:

\*J. W. Forrester  
\*R. R. Everett  
\*H. E. Anderson  
\*W. H. Ayer  
\*D. R. Aufderheide  
\*P. Brager  
\*D. R. Brown  
\*S. H. Dodd  
\*C. W. Farr  
\*D. R. Israel  
\*J. F. Jacobs  
\*N. T. Jones  
\*H. J. Kirshner  
\*E. D. Lundberg (2)  
\*B. E. Morriss  
\*K. E. McVicar  
\*J. A. O'Brien  
\*W. Ogden  
\*T. R. Parkins  
\*E. S. Rich  
\*N. H. Taylor  
\*C. A. Zraket

Others:

\*J. A. Arnow  
\*W. S. Attridge  
\*H. D. Benington  
\*R. D. Buzzard  
\*R. S. Fallows  
\*J. P. May  
\*W. N. Papian  
\*J. C. Proctor  
\*C. R. Wieser  
\*SAGE Test Office

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