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Memorandum 6M-3571

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

SUBJECT: SAGE SYSTEM Meeting 2 May 1955

To: See Distribution List

From: E. D. Lundberg

Date: 2 May 1955

Approved:

A. P. Kromer / *AK*
A. P. Kromer

- Agenda:
1. SAGE Test Committee
 2. Computer Time Allocation - XD-1
 3. Auxiliary Drums - XD-1
 4. Large Board Display
 5. 750 cps Outputs
 6. Heat Dissipation in AN/FSQ-7 Equipment
 7. Distribution of Documents to ADES Representatives
 8. Meetings Scheduled this Week

1. SAGE Test Committee

S. H. Dodd reported on the activities of the recently established SAGE Test Committee. Two meetings of the committee have been held and substantial progress has been made in defining the area of activity for the next few years. Because of the tight schedule of XD-1 time allocation, indications are that the 1954 Cape Cod System will be run at least through calendar 1956. The 1954 system will be operating in full swing in about a week. F. Kline of AFCRC has become a member of the committee. The XD-1 Test Program outline has been prepared and has been taken down to JPO by Kline. The SAGE Test Office was established primarily as a secretariate to the SAGE Test Committee; however, since the committee meets only every three weeks, the scope of activity of the test office should be expanded, and it should be given more authority. This will require additional personnel in the test office. Documents prepared by Lincoln, AFCRC, and BTL will be released under cover of "6M" memoranda in the 5000 series.

2. Computer Time Allocation - XD-1

N. H. Taylor has prepared a computer time allocation schedule for XD-1 through the end of 1956. This is in "working document" form and is not official. It has been taken down to JPO by Kline and will probably be discussed at the ADES Status and Progress Meeting next week. It is our view that master program checkout should be given a number one priority in the allocation of computer time. It was agreed that when the time allocation

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schedule becomes firm, it will be given wide distribution (possibly under T.I.R. release). S. H. Dodd indicated that a series of memoranda should be written covering the different tasks requiring computer time. These memoranda would describe the tasks, indicate priorities, and indicate other computers, e.g., WWI, MTC, or a rented IBM 701, which might be used in lieu of XD-1. H. E. Anderson will coordinate this activity.

3. Auxiliary Drums - XD-1

The computer time allocation schedule indicated in paragraph 2 above reveals that 1 April is the date by which XD-1 must be fully operational. In order to adhere to this schedule, the additional auxiliary memory must be installed and operating by 1 February. IBM has indicated that this schedule will probably be met, but desire to have 1 March or 1 April established as the contract date. This would be undesirable in view of the importance of the 1 February date.

4. Large Board Display

A. P. Kromer indicated that the plans for the command post area in Building "F" have been approved by ADC; hence, work to be accomplished by Lincoln may proceed in this area. B. E. Morriss indicated that specifications have been written for the large board display for XD-1 and the production system. Edge lit status boards will be provided on each side of the summary display screen in both XD-1 and the production systems. However, in XD-1, screens will be provided to cover the status boards so that experimentation may be made with a projected display of status information. It was agreed that these specifications should be sent to Colonel Stevenson for ADC approval.

5. 750 cps Outputs

The question of providing 750 cps outputs for TSQ-7 and TSQ-8 equipment was discussed. Responsibilities in this area among the various organizations have not been defined. It was indicated that two Army officers have been assigned here and will arrive next week. It was agreed that nothing will be done until the problems in this area are discussed with these individuals.

6. Heat Dissipation in AN/FSQ-7 Equipment

Information on heat dissipation from AN/FSQ-7 equipment has been received from IBM. Preliminary checks have revealed that some of the figures received from IBM do not agree with computations made as the result of tests by Lincoln personnel. In order to insure that accurate information is released to WE-ADES, further tests will be made on frames in XD-1 and the results will be compared with the figures contained in the IBM document. These tests should be made jointly by Lincoln and IBM personnel. Significant differences should then be negotiated with IBM before the information is released.

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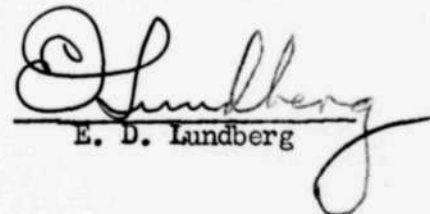
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7. Distribution of Documents to ADES Representatives

In order to insure that ADES is informed as quickly as possible regarding information in which it may be interested, W. B. Ormsbee (WE-ADES) and F. Ong (BTL-ADES) should be placed on the distribution list for all M-notes and other memoranda and drawings concerning the SAGE System. The Systems Office and Group 66 will also be alert to insure that these individuals receive copies of all appropriate documents.

8. Meetings Scheduled this Week

- a. Dr. Hill's office has arranged for a meeting to be held here on 5 May to discuss the problem of providing space at Lexington for non-Lincoln people to be located at this activity in connection with the SAGE Experimental Subsector.
- b. A meeting will be held at Lincoln on Thursday morning, 5 May, with IBM, to review shipping dates of gap filler inputs and other XD-1 equipment scheduled for May delivery. In the afternoon XD-1 acceptance tests will be discussed.
- c. A meeting will be held at Lincoln on 5 May, with representatives from IBM (Washington office) and ADC, to discuss the usage of IBM standard rental equipment in the SAGE System.
- d. The regular meeting of the SAGE Experimental Subsector Planning Approval Committee was not held on 2 May.


E. D. Lundberg

EDL:mmc

Distribution:

Meeting Attendants

J. W. Forrester
R. R. Everett
H. E. Anderson
S. H. Dodd
C. W. Farr
J. F. Jacobs
H. J. Kirshner
A. P. Kromer
S. Hibbard
E. D. Lundberg (2)
K. E. McVicar
B. E. Morriss

Others

W. S. Attridge, Jr.
P. Bagley
D. R. Brown
D. R. Israel
J. A. Arnow
R. L. Walquist
P. Youtz
C. A. Zraket