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Memorandum 6M-3500

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Division 6 - Lincoln Laboratory
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SUBJECT: SAGE System Meeting 4 April 1955
To: See Distribution List
From: E. D. Lundberg
Date: 4 April 1955
Approved: A. P. Kromer
A. P. Kromer

- Agenda:
1. Meeting on Display Cabling.
 2. Items for Coordination Committee Meeting.
 3. XD-1 Schedules.
 4. Report on Large Board Display.
 5. AFPTRC Participation in SAGE Training Program.
 6. Results of Meeting with ADC on Circuit Requirements for Combat Centers.

CLASSIFICATION CHANGED TO:
Auth: DD254
By: RLE
Date: 4-4-60

1. Meeting on Display Cabling

A meeting was held in New York on 30 March among Hazeltine, IBM, and Lincoln as a follow up of an earlier meeting on display cabling. Hazeltine suggested a system involving 19 junction boxes, and it was agreed that they would proceed with further detailing on this basis. Detailing of the cable supporting structure is to be completed by 21 April and Burns & Roe is to simultaneously make minor air duct layout changes on this basis. IBM and Hazeltine believe that this system will be satisfactory. It is possible that minor additions of equipment to the display generator frames may be required as some signal lines to the situation display consoles may be too long for the driving current available in the present design in some cases.

2. Items for Coordination Committee Meeting

Taylor would appreciate receiving information on items that could be discussed with IBM at the coordination committee meetings. The following are two main items to be discussed at the meeting this week:

- (a) Obtain firm manpower commitments from IBM for testing the display system (including consoles) in XD-1;
- (b) Establish an expeditious procedure for authorizing changes to XD-1.

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3. XD-1 Schedules

There are apparent inconsistencies between the schedules approved by the SAGE Experimental Subsector Planning Approval Committee and those used for Group 61 planning. As pressure is being put on IBM to meet the dates indicated in the Planning Committee schedules, it is important that they be consistent with Group 61 planning. Group 61 (Arnow) will investigate gross differences in the schedules and inform Taylor within two weeks.

4. Report on Large Board Display

A demonstration using a mock-up of the large board display will be shown to Colonel O. T. Halley of ADC at Lincoln on 6 April. Only one projector will be used, however, so there will be gaps between pictures. Several data tapes are available and two methods of indicating raids will be used. A total of 50 tracks (25 hostiles and 25 interceptors) will be displayed at one time. Pictures are presently being taken from both a 19" charactron tube and a 5" tube. An evaluation of the results of this experiment will be made prior to the demonstration.

5. AFPTRC Participation in SAGE Training Program

A meeting will be held at Lincoln on 5 April with representatives of ADES, AFCRC, and AFPTRC (Air Force Personnel Training Research Center) for the purpose of discussing AFPTRC participation in SAGE training. The question was raised regarding the time that will be available on XD-1 for training purposes. A. P. Kromer stated that Colonel LaMontagne's office in AFCRC has the responsibility for allocating computer time on XD-1, so that training time should be requested from that office by ADES to insure that training schedules are valid. If sufficient time cannot be allocated on XD-1, consideration should be given to the use of XD-2 for training purposes.

6. Results of Meeting with ADC on Circuit Requirements for Combat Centers

Lone and Kirshner discussed the revised draft of external and internal circuit requirements for Combat Centers (AN/FSQ-8) at Colorado Springs last week. No basic changes were made in the document and it appears to be adequate for SAGE requirements.

Discussions between ADES and ADC regarding the circuit requirements for Direction Centers (AN/FSQ-7) had taken place prior to the arrival of Lincoln personnel. It was decided that the back-up voice lines should be used rather than to provide service only during emergencies; consequently, they have been placed between switchboards and switching is not provided between the principle and the back-up lines in most cases. As a result, the document recently released by ADES entitled, Air Defense Semi-Automatic Ground Environment System External Circuits Direction Center

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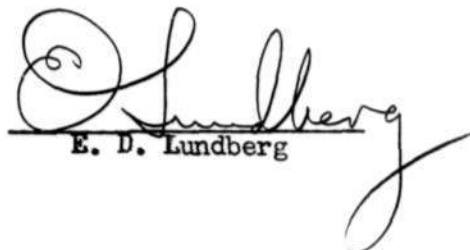
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AN/FSQ-7, dated March 18, 1955 has been changed rather extensively and will have to be revised in the near future to incorporate the changes mentioned above.

SIGNED:


E. D. Lundberg

EDL:mmc

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