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Memorandum 6M-3631

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

SUBJECT: SAGE System Meeting 23 May 1955

To: Distribution List

From: E. D. Lundberg

Date: 23 May 1955

Approved:

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

- Agenda:
1. Rand Corporation
  2. Space for Non-Lincoln Personnel at Lexington
  3. Operational Lighting Requirements
  4. Organizational Changes
  5. IBM Rental Equipment for AN/FSQ-7
  6. Meetings Scheduled This Week

1. Rand Corporation

J. F. Jacobs reported that Rand and ADC people were here on Tuesday and Wednesday of last week to discuss administrative matters connected with Rand participation in the SAGE program. Rand personnel will start arriving here about the first of July. The Rand group will be integrated with the Lincoln organization at the respective levels, e.g., top-level personnel will act as assistants to our Group 61 management and inexperienced personnel will be placed in a general pool and will be assigned on the same basis as new Lincoln personnel. This will enable individuals to be trained at all levels so that when Lincoln phases out of the programming activity, the Rand organization will be able to take over completely.

Arrangements have been made for IBM to conduct a training course which will commence on 1 July and will last approximately 10 weeks. The first course will be given to about 50 individuals including 15 from BTL, 10 from Rand and 25 from Lincoln. A second course will start 1 September and will be given to a total of about 75 people. A break-down of Rand personnel shows that 10 will be here on 1 July of this year, 70 on 1 July 1956, and 110 by the time Lincoln has phased out of the activity. A major problem for Rand is the selection of a permanent site to carry on the programming activity after Lincoln is phased out.

2. Space for Non-Lincoln Personnel at Lexington

Memorandum 6M-3575-1 containing the space requirements for non-

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Lincoln personnel at Lexington through 1960 was released to AFCRC on 13 May 1955. A. P. Kromer indicated that this document arrived at the JPO last Thursday, and it is contemplated that the Air Force will hold a meeting shortly to discuss ways and means of securing the additional space required. This document was based on information received from IBM, WE, BTL, Rand, and the various interested Air Force groups. A total of over 350 people from other organizations (not including 50 IBM people in Building "F" concerned with maintenance and operation of XD-1) will be here from mid-1956 to the end of 1958, and that this will be reduced to around 200 through 1959 and 1960. In all, approximately 50,000 square feet of office space is required. This does not include space required for Air Force operational personnel undergoing training at Lexington.

### 3. Operational Lighting Requirements

Lincoln is committed to releasing specifications for an operational lighting system to WE-ADES by the first of June. W. H. Ayer reviewed the history and present status of the lighting problem. Specifications are being written on the basis of experiments conducted in the experimental lighting room in building B. Experimentation has revealed that a slight change in the color of the yellow filter over the implosion screen of the console is highly desirable and that a small visor on the console over the charactron tube would help substantially. As these problems cannot be resolved by the time the specifications are required by WE-ADES, it was agreed that the specifications would be released without including specifications for the filter. These would be released later after experimentation with various filters and after further studies are made of light gun margins. It was indicated that apparently no one at the present time is working on the light gun problem. H. E. Anderson will contact IBM (Endicott) to see what is being done in this area. It was also indicated that the blue filters around the fluorescent bulbs decrease efficiency to only three per cent of that of the white light. It is believed that this low efficiency will require a direct lighting system rather than the indirect system presently specified. However, we will have to go along with the indirect system for the first few installations.

### 4. Organizational Changes

N. H. Taylor discussed the forthcoming Group 62-64 re-organization. A chart describing the new organization will be out shortly. H. E. Anderson will head the Systems Office and K. E. McVicar the Test Planning Section under E. S. Rich. B. E. Morriss will head the Production Coordination Office under S. H. Dodd. The other sections in Groups 62 and 64 are being re-organized and will contain personnel from both groups. An attempt will be made to fill out some of these sections by rotating people from one section to another as the program progresses.

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5. IBM Rental Equipment

A meeting was held at Lexington last week with representatives of the IBM Washington office to discuss rental of standard IBM machines to be used with AN/FSQ-7. Discussions indicated that this equipment will be rented on the normal basis from IBM, i.e., a standard charge is made for the normal shift of operation, with a premium charge of 50% of the basic charges for all time in excess of the basis shift during which the machine is considered to be in use. As "in use" is interpreted as meaning that the machine is interconnected and operating as part of a system, the equipment is subject to a premium charge during any period that it could be called upon by the computer to perform an operation. This normal procedure also means that individuals operating the equipment must maintain records of the time the machine is actually in use.

6. Meetings Scheduled This Week


a. A meeting will be held at Lexington on Tuesday, 24 May with WE-ADES, Burns and Roe, AFIRO, and Francis Associates to discuss operational lighting requirements.

b. The Lincoln-IBM concurrence will be held at Lexington on Thursday, 26 May.

c. The Joint ANDB-CAA Committee will be at Lexington on Thursday, 26 May, to discuss the use of the computer in civil air traffic control.

d. A mock-up of the command post DID desk will be ready this week or the early part of next week. A meeting will be held, probably on Tuesday of next week, after the mock-up is ready.

SIGNED:

  
E. D. Lundberg

Production Coordination Office

EHL:mmc

Attachment: Distribution List

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Meeting Attendants

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H. J. Kirshner  
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Others

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W. S. Attridge, Jr.  
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