

Memorandum M-2745

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Division 6 - Lincoln Laboratory
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

SUBJECT: Group 62 Section Leaders Meeting--March 22, 1954

To: Division 6 Group Leaders; Group 62 Staff Members

From: A. P. Kromer

Date: March 24, 1954

Abstract: Agreement was reached to use the Typotron for DID in the XD-1 and subsequent systems. Plans to secure and train additional personnel for system testing and maintenance are under way. A floor layout for the operations areas of XD-1 system has been proposed by Group 61.

1. Memory

A study of the value of the inclusion of the post write disturb pulse in the memory cycle will be made in MTC. A comparison of the output and timing with and without post write disturb will be made using one of the newly developed test patterns.

2. MTC

A delay of approximately one month has been encountered in planning for the move of MTC to Lexington. This is due to (a) the need to locate the power supplies differently than originally planned (probably in basement Bldg. B) to secure additional space around the machine and (b) the need to secure competitive bids for the additional cooling equipment and to get Air Force approval of the order for this equipment.

3. Display

Minor changes in the interleaving and mixing features of the display system have been proposed and agreed upon. These facilitate programming and the use of the Typotron for DID.

Following the demonstration last week it was decided to use 5 inch Typotron tubes for DID purposes in XD-1 and XD-2. Action will be taken to prepare specifications and negotiate for the purchase of the required numbers of these tubes.

Corderman suggested that the capacity of the minus 48 volt D.C. supply be checked to see if there is adequate current available for the needs of the display system. He estimated that the normal demand for display purposes will be in the range of 30 to 50 amperes.

4. Systems Testing

Plans will be started to build up manpower by hiring an additional number of technicians so that they will be available for probable use in connection with the XD-1 system after it is at Lexington. Hiring will be at a rate of approximately two per month and training will be on the MTC system. O'Brien will prepare this program and advise the personnel organization the numbers and kinds of people required.

5. Power

Lincoln is negotiating a purchase order with Westinghouse for an additional 150 KVA transformer for the XD-1 location. This will provide the power required in addition to the two 500 KVA transformers ordered some time ago.

6. XD-1 Floor Layout

Drawings showing minor changes in the first floor arrangement of equipment (primarily around the maintenance console) have been submitted to the Systems Office for concurrence. They are negotiating with IBM's Design Office regarding this matter. Drawings for the proposed layout for the second floor of the XD-1 building will be made available to the Systems Office for concurrence during the present week.

7. Transistors

A gate circuit has been developed which when working with a flip-flop at one megacycle appears to operate entirely satisfactory. It is planned to build a time pulse distributor circuit using this item for further study.

8. Concurrence and Approval

During the past week the following items have been processed:

- a. EDO-SO concurrence on specifications for Radar Input Counters
- b. Lincoln approval of specifications for Warning Lights and Power Supplies.

Signed: *A. P. Kromer*
A. P. Kromer

Approved: *N. H. Taylor*
N. H. Taylor

APK:hpm
cc: J. W. Forrester
R. R. Everett