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Memorandum M-2731

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Auth: DD-259
By: R.R. Everett
Date: 2-1-60

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

SUBJECT: Group 62 'Section Leaders' Meeting -- March 15, 1954
To: Division 6 Group Leaders; Group 62 Staff Members
From: A. P. Kromer

Abstract: Planning for manpower needs of the testing program for XD-1 after installation at Lexington has begun. Release of engineering information for procurement purposes will start in May 1954 for the initial two duplex centrals. Demonstration of Typotron tubes for DID application will be held March 16. IBM have indicated that they do not wish to furnish power and cooling equipment for duplex centrals.

1. Testing of XD-1

Preliminary study of the manpower required for testing XD-1 after installation at Lexington indicates need for approximately 25 engineers and 34 technicians to provide three-shift operation.

Taylor plans to develop a program with IBM regarding the portion of this manpower which IBM will furnish, and to subsequently develop a plan for hiring and training additional personnel by Lincoln.

2. Duplex Central Program

Initial discussion between IBM and W.E. concerning plans for production of Duplex Centrals was held during the past week. In order to meet the desired delivery schedule of 28 months, IBM indicated that their general program for the release of information to the Manufacturing Department will be as follows:

- (a) Magnetic Cores and planes, May 1954.
- (b) Electronic Components and Hardware for Plug-In Units and Frames, October 1954.
- (c) Basic Circuits and Etched Card Layouts, January 1955.
- (d) Wiring Information for Frames and Interconnection of Frames, Spring of 1955.

The above indicates the importance of gathering data on circuit performance as soon as power is put on the various XD-1

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frames. The maximum possible background regarding circuit characteristics should be acquired prior to the end of this year.

The group working under Dodd will be concerned with planning for the Duplex Central, and any known modifications which may be desirable should be referred to them for consideration.

Initial discussions between Dodd's group and the comparable organization under D.C. Ross at Poughkeepsie has led to an agreement to investigate the mode of operation which will feed processed data from the master into the slave machine, instead of feeding raw data into both.

3. Group 62 will send two engineers to Poughkeepsie for an extended period of time to assist with frame testing.

4. Display

A demonstration of the Typotron tube for DID application will be held on Tuesday, March 16 from 1:00 to 3:00 P.M. in the MTC room. Subsequently there will be a meeting to discuss the application of this tube to the DID in the XD-1 System.

Further planning regarding the engineering of the display generation and display selection frames by Group 62 has revealed that certain of the wiring and other drawings for the System can be handled by IBM. M-2732 will be issued covering the details of this arrangement.

5. MTC

It is expected that final arrangements regarding the plan to move MTC from Cambridge to Lexington will be completed this week. The exact time for the move will depend largely on availability of equipment to provide the cooling for the System.

6. Circuits

Two new men have joined the Circuits Group as of March 15: Edward Glover and Eli Anfenger.

7. Power

Testing of the power supplies for XD-2 is continuing at G.E.

Mr. P. Morrill, formerly with Division 7, has joined Gano's

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group, working on Power.

It has been determined that the primary power equipment, namely, transformers, motor generator units and associated switch gear required for the Duplex Central will not be furnished by IBM but will, instead, be furnished and installed by ADES as part of the building and site preparation. Similarly, equipment cooling and interconnecting-cable supporting fixtures will also be provided and installed by ADES.

8. Transistors

Eckl is developing a transistor connector which will operate at 250 kc.

9. Approval and Concurrence

Lincoln Approval was provided during the past week covering the specifications for the Maintenance Console, the Output Frame and the Area Discriminator.

10. Meetings

Wednesday: Meeting with ADES and Air Force regarding general planes for the transition system.

Wednesday
and Thursday: Meeting with ADES and IBM on planning equipment layout for the Duplex Central Building.

Signed:

A. P. Kromer
A. P. Kromer 7/27

Approved:

N. H. Taylor
N. H. Taylor

APK:meo

cc: J. W. Forrester, E. Everett

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