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

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SUBJECT: GROUP LEADERS' MEETING, February 15, 1954

To: Group Leaders

From: David R. Brown

Date: February 15, 1954

Present: J. W. Forrester, D. R. Brown, S. H. Dodd, R. R. Everett,  
J. C. Proctor, N. H. Taylor, C. R. Weiser, and P. Youtz

- Agenda:
1. Salary Adjustments, January 1, 1954
  2. Magnetic Circuit Research and Building 10
  3. PSQ-7 (XD-1) Installation
  4. MIT Assistance for IBM
  5. Test Planning for PSQ-7 (XD-1)
  6. Staff Reassignments
  7. DuMont and the Charactertron
  8. Proposed Schedule for IBM's Airplane
  9. IBM Budget

1. Salary Adjustments, January 1, 1954

Salary adjustments for two 6345 staff members have come through effective January 1, 1954. Adjustments for Division 6 staff are pending.

2. Magnetic Circuit Research and Building 10

Professor W. K. Linvill is making a proposal for the organization of a group to work in Building 10. The group would be divided into three parts. The first part would include the present 6345 Scientific and Engineering Applications group under Professor C. W. Adams. The second part would be Linvill's Systems Study group, including W. Wells and B. Smulowicz. The third part would be a group of Research Assistants to work on component development. These would be Research Assistants now with Division 6 but unable to move to Lexington. Some doctor's candidates would be among them, including J. Forgie, B. Widro, and E. Jenney.

The Group Leaders and some senior staff members of Division 6 would be expected to take a strong interest in the group in Building 10. This would be particularly important to provide guidance and liaison for the group of Research Assistants working on component development. Those working on component development in Building 10 would spend considerable time in the beginning to become thoroughly acquainted with Division 6 technical problems. They would be expected to devote most attention to

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a long-range program for the application of magnetic materials and semiconductor devices to high-speed digital computing techniques.

Because of the importance of a program for developing magnetic-core circuits for arithmetic element and control, Division 6 should undertake such a program in one of its present groups. D. R. Brown will prepare a proposal for magnetic-core circuit development.

### 3. FSQ-7 (XD-1) Installation

Division 6 has accepted IEM's proposal that MIT "prepare the site for installation of transformers, I/O sets, power supplies, air conditioning, false ceiling, ETC, for XD-1." The exact division of responsibility for XD-1 installation has not been delineated, but general agreement has been reached. E. Wainwright and E. Quick will outline the areas of responsibility for MIT and IBM. Purchasing for XD-1 installation was discussed in Peagueepsie at a joint IBM-MIT meeting during the week of February 8. IEM should purchase all items for XD-1 installation. During the installation, however, a number of items will probably be needed on short notice. Because the delay through IBM purchasing may be excessive, these items may be ordered directly by MIT. The large items for XD-1 installation should be ordered by IBM as soon as possible. Some alternatives have been discussed for purchasing for XD-1 installation. These include taking a subcontract from IBM or buying all items directly and being reimbursed by IBM.

S. H. Dodd will continue to devote a small portion of his time to installation problems. H. Wainwright will spend from 70 to 80 percent of his time on XD-1 installation, supervising H. Mercer, who will work full time to coordinate non-technical aspects of the installation. R. von Buslew will act as Division 6 Installation Office Administrator. He will consult IEM's Engineering Design Office on items requiring EDO "sign-off" and clarify the various stages of development of different aspects of the installation program. IEM will be kept fully informed of the progress of the installation even on items which do not require EDO SO.

### 4. MIT Assistance for IEM

Of the five jobs for which IEM requested MIT assistance, MIT has agreed to accept responsibility for four. These are: (1) design of the digital-data-transmission system, (2) design of the display-generator frame, (3) preparation of the site for installation (as discussed previously), and (4) assignment of an experienced engineer to assist IEM in the design of the memory. Any additions to our present staff required for these jobs will be paid for by IEM. MIT will provide complete drawings for the frames required for the first two jobs. If Endicott is unable to do the package design and drafting, MIT will hire or subcontract personnel for the necessary engineering and drafting.

Plans for testing XD-1 remain uncertain.

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5. Test Planning for ESQ-7 (XD-1)

K. Olsea and W. Jackman are working on plans for testing XD-1 frames. Frame tests and tests for groups of frames must be carefully planned and scheduled.

6. Staff Reassignments

E. Rich is to assume responsibility for WWI operation, relieving N. Daggett. Daggett expects to spend several months on the development of some new circuit techniques. In the fall of 1954 he is expected to participate in the XD-1 systems tests. J. A. O'Brien is to plan tests for XD-1 and participate in the systems tests.

7. DuMont and the Characteron

R. Mork, E. Keedy, N. Edwards, D. Crawford, and J. Little of IBM and F. Rogers, W. Gardner, P. Youtz, and C. Corderman of MIT visited DuMont's Cathode-Ray-Tube Research Division in Passaic, New Jersey, on February 12. DuMont had submitted a \$300,000 bid to IBM to undertake Characteron development. At the present time, DuMont has made no Characterons and has no satisfactory source of Characteron matrices. They lack an understanding of the electron optics involved. Also, no test equipment is available for carrying out Characteron development.

R. Crago has asked that MIT write a letter to IBM stating that Convair is the only source of Characterons and that Convair's bid is reasonable. C. Corderman and P. Youtz will write the letter for Forrester's signature.

8. Proposed Schedule for IBM's Airplane

IBM has purchased an Aero Commander, a two-engine aircraft, for use in connection with Project High. The plane seats six passengers and a pilot. The proposed schedule calls for flights on Tuesday and Thursday as follows:

Leave Foughkeepsie at 7:00 am, leave Bedford at 8:15 am  
Leave Foughkeepsie at 4:30 pm, leave Bedford at 5:30 pm.

This plane may be available for special trips on other days of the week. A. P. Kromer will schedule flights for MIT personnel. Flights are expected to begin about the first of March.

9. IBM Budget

A. F. Kromer will find out what can be done to clear approximately \$100,000 remaining in IBM's contract with AFRC so that this money may be applied to the tube-development program.

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To expedite purchase contracts for important items, MIT should include in its release a statement, when appropriate, that the chosen source is a sole source of supply and the cost is reasonable.

Signed David R. Brown  
David R. Brown  
Secretary

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