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Memorandum L-125

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

CLASSIFICATION AND CONTROL:
Auth: <i>DD234</i>
By: <i>AK</i>
Date: <i>3-15-60</i>

SUBJECT: GROUP LEADERS' MEETING, November 2, 1953

To: Group Leaders

From: David R. Brown

Date: November 4, 1953

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

- Agenda:
1. Travel
 2. IBM Deferments
 3. Security
 4. Magnetic Memory in WWI
 5. IBM Time Schedules
 6. Receiving-Tube Program
 7. January Salary Increases
 8. October 29 Demonstration
 9. Steering Committee Visit to IBM
 10. Speed and Logical Organization of AN/FSQ-7
 11. Drum and Display System
 12. Colorado Springs Meeting During the Week of November 2
 13. Movie
 14. Core-Testing Program

1. Travel

Insurance arranged by MIT provides coverage for employees driving their own cars on laboratory business. If any case were to arise, we would have to prove that the driver was on Institute business. Our present travel authorization form should be modified to indicate: (1) date on which the applicant fills out the form, (2) the date of the Group Leader's approval, and (3) the mode of transportation. If a private automobile is to be used for the trip, this should be noted.

2. IBM Deferments

By appeal to the State Selective Service Appeal Board, IBM has obtained a deferment for L. Walters until March 1954. IBM's policy on deferment requests is similar to MIT's. All requests for deferment must be approved through the Director of Engineering in the New York Office.

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3. Security

Proctor's investigation of the system for keeping track of classified documents has discovered that responsibility in the Lincoln Laboratory has recently been transferred from the Director's Office to the Security Office. Details concerning the system used in the Lincoln Laboratory are expected soon.

4. Magnetic Memory In WWI

The magnetic-core memory in WWI has been moved to its permanent location. Critical timing, causing parity alarms due to minor voltage fluctuations, has been eliminated. A critical dependence of the output waveshape on supply voltage has been eliminated. Margins in bank A have been increased 30 percent, except for plane B-13. This plane appears to be inferior and will probably be replaced. Preliminary work on bank B has indicated that a number of planes there may require better cores. A replacement for bank B may be required.

Groups 62 and 63 should keep well informed on the magnetic memory in WWI. Work there has a direct bearing on the selection of cores for AN/FSQ-7 and on the memory circuit design. The cores in bank A are the same as those to be used in FSQ-7. The cores in bank B are obsolete. If more than a few cores in bank B require replacement, an entirely new bank will have to be constructed from FSQ-7 type cores.

Although bank A and FSQ-7 use the same type core, bank A is driven directly from vacuum-tube plates and FSQ-7 is to have a pulse transformer drive. Preliminary tests of the transformer drive have indicated that performance will be satisfactory. An improved transformer design is being manufactured by Sprague. Complete tests are expected to begin about December 1 on the MTC II memory.

5. IBM Time Schedules

Dodd discussed time schedules at High Street on October 28 and 29. The framework for the production schedules appears to be satisfactory, but insufficient detail is presented. The overall time schedules for the FSQ-7 program presented in E-562 need to be revised and reissued. These schedules will be reviewed on November 4 and 5 at High Street with R. Whitehorse, K. Olsen, and P. Gray.

The time schedules should show time for development of test equipment, preliminary mock-ups, etc. Several mock-ups of the control console and maintenance console will probably be required. The time schedules should also allow for comments by outside parties on different parts of the design.

Some delays can be accepted now to insure better design. However, we need more facts to know how much delay is being introduced.

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