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*LLW-28*

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Memorandum L-151

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

CLASSIFIED TO:  
Auth: *DDJ*  
By: *CE*  
Date: *3-15-60*

SUBJECT: GROUP LEADERS' MEETING, May 24, 1954

To: Group Leaders  
From: David R. Brown  
Date: May 26, 1954

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

- Agenda:
1. Visit of Air Division Commanders
  2. Visit to General Electric
  3. Duplex Central Planning Report
  4. Tubes for FSQ-7
  5. Meeting with ADC and ADES During Week of May 17
  6. Discussion of the Combat Operation Center with IBM
  7. Move to Lexington
  8. Building F
  9. Travel
  10. National Security Agency
  11. Salary Review

1. Visit of Air Division Commanders

A number of Air Division Commanders will spend the week of May 24 at the Laboratory to learn about the transition system. They will also review plans for the combat and direction centers.

2. Visit to General Electric

D. R. Brown and F. E. Vinal plan to visit General Electric's Electronics Laboratory in Syracuse on May 25 to discuss ferrite development. Two aspects of ferrite development will receive attention: (1) the growth of single crystals, and (2) the production of ferrite memory cores.

3. Duplex Central Planning Report

The proposal on duplex central planning has been issued as IM-91. Comments on this proposal are invited. If any copies are sent outside the Laboratory, they should be clearly marked as unofficial.

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4. Tubes for FSQ-7

P. Youtz, C. Corderman, and R. Mork spent the week of May 17 on the West Coast. Satisfactory progress is reported at Convair on Charactron development. The electron optics has been considerably improved. However, improvement techniques are required for phosphors, aluminizing, etc.

Progress at Hughes on the Typotron is also good. A second source for Charactron matrices has been found. MIT has ten Typotrons on order; three Typotrons were brought back to the laboratory by C. Corderman. Typotron life tests are proceeding. Three tubes now have over 2,000 hours life. All failures have been traced to processing faults.

The contract between IBM and Hughes for Typotron development has not been settled.

At Hughes, A. V. Haeff has been made head of the research and development laboratories. K. R. Spangenberg may take over Haeff's former position.

A two-color 21-inch cathode-ray tube having a total depth of only 3 inches has been developed by a company in Berkeley, California.

The K-1211 photo-multiplier used in the light gun is very susceptible to mechanical failure and tap shorts. Improvement of the photo-multiplier is necessary.

Progress at General Electric on the 2177 (an improved 5965) is satisfactory.

5. Meeting with ADC and ADES During Week of May 17

The combat operation center (division command post) was discussed with a large group from ADES on May 18 and 19. To provide the functions requested by ADC for the COC a stripped FSQ-7 will be provided. The stripped FSQ-7, having a total of approximately 16,000 tubes, will be made up of units selected from the list of equipment for the duplex central. Nine simplex centrals will be needed in the transition system. A meeting on May 20 in Lexington considered telephone lines, cost of duplicate lines, etc. Plans for the duplex center building now call for a three-floor structure 150 feet by 150 feet. The top floor (operation floor) will have sufficient ceiling height so that a false floor can be used if necessary. Air conditioning of the consoles will be reviewed to see if the nine-inch air-conditioning ducts can be eliminated. Console design will be discussed at a meeting in Endicott on May 25.

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6. Discussion of the Combat Operation Center with IBM

IBM's role in the design of the simplex central has been briefly discussed with J. E. Zollinger, who stated that IBM will do whatever is necessary. A meeting in Poughkeepsie is scheduled for May 26 for discussion of the COC, simplex central, etc., with IBM.

7. Move to Lexington

The factory to make partitions for Building B is now on strike; partitions have not yet been scheduled. This may result in some delay in our moving into Building B. We will probably be asked to vacate the fourth floor of Whittemore Buildings 2 and 3 during the month of June.

The move of MTC will go ahead on schedule.

Partitioning in Building C should be finished by the end of the first week in June.

8. Building F

At the present time (May 24) approval of the contract for construction of Building F is held up in Air Force offices in Baltimore. After approval is obtained in Baltimore, the contract must be sent to Wright Field for approval.

9. Travel

The DDL Fiscal Office is preparing a memorandum on travel procedures and has proposed that a limit of \$2.50 be established for dinners. This limit would appear unreasonable since engineers frequently travel with outside groups spending considerably more than \$2.50 for dinner. Travel regulations should be arranged so that the traveler can break even without falsifying the travel voucher.

10. National Security Agency

J. W. Forrester is spending some time consulting for the National Security Agency and feels that our techniques would be of benefit to them. Representatives of NSA will visit us sometime during the month of July to talk with our engineers. The discussions should include programming, reliability, WWI operation, magnetic materials, diodes, Charactrons, air-conditioning, and organization of FSQ-7.

11. Salary Review

A list of staff members of group-leader caliber was prepared during the meeting. The Lincoln Laboratory Personnel Office would like the preliminary salary review sent to A. C. Hill on May 24.

DRB/jk  
cc: A. P. Kromer, W. K. Linvill

Signed David R. Brown  
David R. Brown, Secretary

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