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Memorandum L-152

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

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| CLASSIFICATION CHANGES TO: |
| Auth: <u>DDJST</u> |
| By: <u>RRC</u> |
| Date: <u>3-15-60</u> |

SUBJECT: GROUP LEADERS' MEETING, June 1, 1954

To: Group Leaders

From: David R. Brown

Date: June 4, 1954

Present: J. W. Forrester, C. W. Adams, D. R. Brown, S. H. Dodd,
 R. R. Everett, A. P. Krcmer, W. K. Linvill, J. C. Proctor,
 C. R. Wieser, and N. H. Taylor

- Agenda:
1. Duplex-Central-Planning Report
 2. Ferrite-Memory-Core Procurement
 3. Liaison with IBM
 4. IBM News Release
 5. Visit to General Electric Regarding Etched Cards
 6. Air Cooling of Display Consoles
 7. Visit to IBM by G. E. Valley and Division 2 Group Leaders
 8. Concurrence and Approval for Production Machines
 9. Procurement for FSQ-7(XD-1) Installation
 10. Components for Duplex Central
 11. Move to Lexington
 12. Meeting on Combat Operation Center During Week of May 24
 13. FSQ-7 Communications
 14. Building F
 15. Summary of Salary Recommendations
 16. Visit to IBM on May 27
 17. Lincoln Laboratory Representative at Joint Project Office

1. Duplex-Central-Planning Report

A proposal for the duplex central has been published in IM-91. In cases where these specifications result in unreasonable amount or complexity of equipment the specifications themselves should be reviewed.

The possible use of an induction motor instead of a synchronous motor to drive the generator should be considered. Other aspects of the power supply equipment must be reviewed.

IBM plans for 120 additional engineers by next September for Duplex-Central design.

2. Ferrite-Memory-Core Procurement

An order for the cores for the fourth prototype bank is being initiated at the present time. Representatives of IBM and D. R. Brown will meet at General Ceramics on June 2 to discuss this order.

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On May 21 C. L. Snyder, General Ceramics' Vice President, visited IBM and learned of FSQ-7 production requirements from R. Kelly. General Ceramics is preparing a proposal to supply 100, 75, or 50 percent of this requirement.

Dr. Robinson, former Director of Research at Sprague, has discussed Ferroxcube's ability to meet FSQ-7 requirements with Norm Taylor. Ferroxcube can meet all specifications except that the driving current is slightly lower than the specified driving current. D. R. Brown will check the evaluation of Ferroxcube memory cores and arrange with IBM to have a report sent to Ferroxcube.

3. Liaison with IBM

R. R. Everett and N. H. Taylor were at IBM on May 26 and 27 to discuss the combat operation center, relations with ADES, and future problems. J. M. Coombs thinks that IBM, ADES, and MIT should hold a meeting to discuss the coordination of future problems. J. W. Forrester discussed IBM's liaison problems with J. M. Coombs and R. L. Palmer on May 27. They indicated that IBM was undecided on how much liaison to do. IBM's problem is that no one person can state IBM's position in a particular area. At present three groups must be consulted, Project High, Production, and the New York Contract Office.

The Joint Project Office is being organized in New York under Colonel R. Osgood. Officers of the JPO will come to Lincoln Laboratory for a briefing on the transition system. The JPO is primarily a military office but will have representatives from IBM, MIT, and ADES. Intercommand differences are to be resolved in the JPO.

J. W. Forrester will call J. Zollinger and J. Frasier to suggest that IBM choose one representative for the JPO. He will also suggest to J. Zollinger that IBM have a meeting to clarify its internal situation.

IBM's relations with ADES also require clarification. IBM should not take seriously casual remarks made by ADES representatives; ADES requests will be made official through MIT. J. W. Forrester will also discuss this situation with J. M. Coombs and J. Frasier.

4. IBM News Release

IBM has prepared an article for publication in its own weekly newspaper discussing IBM Government work. This article includes a brief discussion of Project High. It will be cleared by the Air Force before publication.

5. Visit to General Electric Regarding Etched Cards

J. D. Bassett and several other Lincoln Laboratory representatives visited the General Electric Company at Utica to view facilities for manufacturing the wiring of etched cards. General Electric would like to assemble the etched cards in the subassemblies. Information gathered on this trip has been sent to IBM.

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6. Air Cooling of Display Consoles

At the meeting on console design held at Endicott on May 29, the two 9-inch ducts required for console cooling were retained. Some flexibility for connecting the ducts to the consoles is being provided.

7. Visit to IBM by G. E. Valley and Division 2 Group Leaders

G. E. Valley and Division 2 Group Leaders will make a one-day visit to Poughkeepsie on June 8 or June 15. A. P. Kromer is making the arrangements. N. H. Taylor or R. R. Everett will accompany the group.

8. Concurrence and Approval for Production Machines

A proposal for MIT concurrence and approval of production machines has been prepared. Two concurrences would be written, one at the specifications stage and the second just before release for procurement. The first item scheduled for release is the ferrite memory core. It is important that MIT not hold up approvals. The MIT approvals should be more informative than those written for the prototypes.

9. Procurement for FSQ-7(XD-1) Installation

Some difficulty has appeared in getting purchase orders through IBM for XD-1 installation in Lexington. H. Wainwright is writing a letter for J. W. Forrester to send to J. M. Coombs. It may be necessary to review the present purchase procedure.

10. Components for Duplex Central

A long lead time is required for procurement of special components. This must be considered in setting up the concurrence and approval time schedule. Critical items are (1) Charactrons and Typotrons, (2) tubes, (3) memory cores. Some revision of IBM's production procurement plans may be necessary.

11. Move to Lexington

All parts of Division 6 except those moving into Building B are expected to be moved by the end of June. MTC will move first followed by the stockroom, Group 61, and Group 60. The factory making partitions for Building B was still on strike May 28. The earliest date partitions could be installed in Building B is August 1.

12. Meeting on Combat Operation Center During Week of May 24

Six Air Division Commanders spent the week of May 24 at the laboratory learning about the transition system and ADC plans for the Combat Operation Center. The 1960 sector and subsector boundaries were discussed and received the informal approval of the Air Division Commanders.

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They also expressed the opinion that the Combat Operation Center should be a Duplex Center and should make available the picture of the air situation in adjacent sectors.

13. FSQ-7 Communications

Since L-113 was written the number of communication lines in and out of the direction center has doubled. The agreement of the telephone company to meet the transition-system specification was based on L-113. Divisions 2 and 6 have appointed a committee to look into the situation. This committee must consider the increased quality of the communications necessitated by Bomarc requirements.

14. Building F

Exact dimensions of Building F are now available and a layout of the control room is being prepared. Because of the awkward placement of structural members, space is far less flexible than the space in production buildings. No reserve space will be available in Building F.

The request for approval of the contract for Building F is expected to be flown to Wright Field for approval on June 1.

15. Summary of Salary Recommendations

Division 6 salary recommendations have been forwarded to the Director's Office. The average increase per staff member is 12 percent, this 12 percent being made up of approximately 5-percent merit increase, 1-percent starting rate adjustment, 1-percent promotion, and 5-percent Division 6 scale adjustment. The Division 6 scale adjustments vary over a wide range. Staff members should be informed that the salary review has been carried out with careful study, analysis, and consideration, being the result of many hours labor. The review has resulted in a number of large increases which in many cases are the result of a scale adjustment rather than a merit increase. The average salary increase is not typical and cannot be expected to occur every year. When the salary notices are available, some time before July 1, arrangements will be made for the group leaders to pass out the notices individually and explain the situation to each staff member.

16. Visit to IBM on May 27

J. W. Forrester discussed non-FSQ-7 developments at IBM with J. M. Coombs and R. L. Palmer on May 27. This work includes the small-scale application of magnetic cores and considerable interest in transistors. A transistor machine is expected to appear soon. IBM is making several types of transistors not available commercially. They are also working on magnetic drums with ultra-thin plated coatings. N. H. Taylor will see J. M. Coombs to discuss double-density or double-diameter drums.

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17. Lincoln Laboratory Representative at Joint Project Office

Candidates from Division 6 to be Lincoln Laboratory representatives at the Joint Project Office were listed. This list includes W. Hosier, C. Zraket, C. Grandy, and K. McVicar.

Signed

David R. Brown

David R. Brown
Secretary

DRB/jk

cc: A. P. Kromer
W. K. Linvill

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