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LLW-54

Memorandum 6L-172

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Division 6 - Lincoln Laboratory  
 Massachusetts Institute of Technology  
 Lexington 73, Massachusetts

Page 1 of 3

SUBJECT: GROUP LEADERS' MEETING, November 15, 1954

To: Group Leaders

From: David R. Brown

Date: November 17, 1954

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

- Agenda: 1. Delivery of AN/FSQ-7(XD-1)  
 2. Digital Data Transmitters and Receivers  
 3. Exhibit No. 17 for the Direction Center  
 4. Installation and Test Planning  
 5. Personnel Handbook and Security Procedures  
 6. Organization Chart  
 7. J. W. Forrester's Visit to IBM

1. Delivery of AN/FSQ-7(XD-1)

At a meeting held November 12, MIT agreed to accept delivery of AN/FSQ-7(XD-1) in January, 1955, without correction of the -15 volt mesh. IBM estimated that from one to three months' delay would be necessitated if the difficulty were corrected in Poughkeepsie, but agreed to correct it after delivery if serious trouble appears. The magnetic drums are behind schedule and will be tied into the system after delivery in Lexington, probably sometime in February. The essential parts of the air conditioning system in Building F will be ready by January 1, 1955. IBM estimates that equipment will begin to arrive three weeks after the power is turned off in Poughkeepsie. Presumably power will be turned off on December 31, 1954.

The central part of AN/FSQ-7(XD-1) was running on November 12, with a 6 microsecond memory cycle.

2. Digital Data Transmitters and Receivers

ADC's disfavor of AT&T's proposal to provide digital transmission service complete with DDT and DDR evidently resulted from the fact that ADC was not informed formally of AT&T's proposal at an earlier date. Nevertheless, AT&T and BTL are going ahead with the development of the DDT and DDR. On December 1 AT&T will present proposals for data transmission service with and without DDT and DDR. C. A. Smith's estimate of the cost for the leased-line service is \$3 per month per mile for the basic line, 50¢ per month per mile additional for an equalized line, and about 12¢ per month per mile additional for the DDT and DDR.

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Memorandum 6L-172

Page 2

CRC has asked the Lincoln Laboratory for information regarding this situation. Lincoln Laboratory will prepare written recommendations in reply to this request.

3. Exhibit No. 17 for the Direction Center

This exhibit describes the production direction center and includes a complete equipment list. Group 64 and IBM should review the equipment list so that CRC can submit it to Rome by December 1. If necessary the list can be amended at a later date.

4. Installation and Test Planning

At a meeting held at the JPO on November 8, a general committee on installation and test planning of production FSQ-7's was organized. This committee of ten or eleven includes S. H. Dodd, K. McVicar, and A. P. Kromer from Lincoln Laboratory, C. Baccari and P. Reeby from IBM, two Western Electric representatives, one representative of the JPO, and one Bell Telephone Laboratory representative. K. C. Thorpe of Bell Telephone Laboratories was appointed temporary chairman. Four subcommittees were appointed, one to plan the installation of equipment such as MCD, PCD, and MG sets, including all equipment and cables to be installed by the time the building is finished. The second subcommittee is responsible for planning shipment of the computer, reconnecting the cables, and doing sufficient electronic testing to bring the computer back to the level of performance it had before it was shipped. A third committee is responsible for communications. The fourth committee will be responsible for systems operation, to take over after subcommittee No. 2, connecting inputs and outputs, etc. ADC, JPO, IBM, WE, and Lincoln Laboratory are represented on all subcommittees. The general committee will meet again on November 22. All subcommittees will meet before the next meeting of the general committee.

5. Personnel Handbook and Security Procedures

At its last meeting, the Steering Committee agreed to the publication of a revised up-to-date personnel handbook. Since security procedures change from time to time, they will not be included in the personnel handbook but will be published in the form of security memoranda.

6. Organization Chart

The Lincoln Laboratory Steering Committee will meet on November 18 to discuss the organization and work of the laboratory. The Committee will consider the relative importance of different tasks and possible changes in emphasis. Division 6 is preparing an organization chart and discussion of activities to be presented to members of the Steering Committee. The organization chart and discussion will be distributed to members of the Steering Committee on November 17.

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Memorandum 6L-172

Page 3

Since the organization chart being prepared contains some simplifications which make it differ from reality, it will not receive wide distribution within Division 6. These simplifications pertain to the Production Coordination Office and the Systems Office.

Only work which the Laboratory uniquely can do should be undertaken. This laboratory will not have all of the space, budget, or be able to get all the staff required to do all of the work which is planned. Assistance must be obtained from ADES, IBM, and other organizations, in areas where these organizations are most qualified to help.

The possibility of subcontracting some of Group 61's programming should be considered.

7. J. W. Forrester's Visit to IBM

J. W. Forrester visited Poughkeepsie on November 11 to talk to G. Cullen and H. Beattie. He told both that MIT still believes IBM is the right company to do the FSQ-7 job. In general the situation is good, but some flaws exist. The leadership of Project High is particularly weak. MIT knows of one one in the Project High organization who could be promoted to a position of leadership. The present difficulties are largely the fault of IBM management.

J. W. Forrester will write G. Cullen and H. Beattie proposing that a joint MIT-IBM steering committee be set up to meet every week to consider top policy and some exemplary difficulties. When a particular difficulty would be considered by this steering committee, the persons concerned at all levels would be present at the meeting.

J. Zollinger and C. F. McElwain will see J. W. Forrester on November 16. J. W. Forrester also plans to discuss the present difficulties with R. Palmer and W. W. McDowell. If necessary, Adm. E. L. Cocirane might see T. J. Watson.

IBM now plans to subcontract FSQ-7 display and terminal equipment engineering. IBM will do the engineering only for the central machine and drums. Crosley is now slated to get the FSQ-7 display job.

Signed

*David R. Brown*  
David R. Brown  
Secretary

DRB/jg

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

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