

Memorandum M-3066

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

SUBJECT: Section Leaders Meeting, September 20, 1954

TO: Division 6 Group Leaders, Group 62 Staff Members,
Group 64 Staff Members (Lexington only)

FROM: P. J. Gray

DATE: September 21, 1954

ABSTRACT: Section Leaders Meeting will be held on Friday afternoon henceforth. Pulse line termination method is proving troublesome in XD-1 testing. Phone line demodulator design should attempt to avoid necessity of individual tuning for each phone line.

1. New Meeting Day

Due to a number of conflicting meetings now being held on Monday afternoon, henceforth the Group 62 Section Leaders Meeting will be held on Friday afternoon beginning at 1:00 p.m. The next meeting will be Friday, September 24.

2. XD-1 Testing

Testing of XD-1 equipment is proceeding at Poughkeepsie. A significant amount of difficulties are being encountered. A particularly troublesome problem arises from the method of termination presently being used for pulse lines. Further study should be undertaken along these lines for application in production AN/FSQ-7's.

3. Telephone Communications

Specifications for a tactical telephone system for XD-1 are now out for review. A concurrence meeting will be scheduled in the near future.

IBM representatives are meeting with representatives of AT&T with the purpose of working up a proposal for a maintenance phone system for XD-1.

Ben Morriss pointed out that it would be extremely desirable if phone line demodulators can be designed to eliminate the necessity of carefully tuning the demodulator to each telephone line. Tuning of a demodulator to a different phone line can not be accomplished in the thirty-second restoration time on phone line failure required by ADC. Therefore, it will be necessary to switch between the demodulator and the FSQ-7 terminal equipment. This will require switching of several lines for each demodulator instead of just the phone line.

4. Miscellaneous XD-1 Items

There are several miscellaneous items needed for the XD-1 system which IBM does not, at present, contemplate furnishing. Taylor pointed out that in providing these items, the most expedient possible way will be used in the case of XD-1. It should be recognized that re-design and repackaging may be required for production systems.

The requirements for semi-automatic cameras and the mapper supervisor's position are being investigated with Group 61. The source of these items for XD-1 will need to be resolved in the near future.

5. Fine Grain Data Equipment

A series of meetings are being held with Division 2 concerning the Fine Grain Data Equipment to be located at P-sites. There are three general areas of work involved.

1. Logical questions in the Fine Grain Data System.
2. Maintenance problems, particularly the use of marginal checking.
3. The phasing of heavy radars into the XD-1 System.

6. Command Post DID

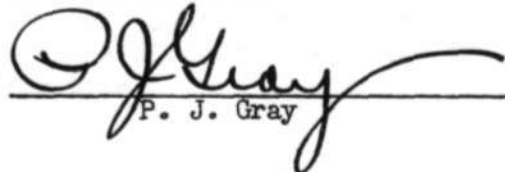
Requirements for the housing of DID units for use in the Direction Center Command Post will be specified by MIT. IBM will be requested to build this equipment.

7. Transistor Light Gun

An experimental model of a transistorized version of the light gun will be tested with the Cape Cod System. This unit is considerably smaller and more rugged than the IBM light gun. However, at present, its sensitivity is not as high as that of the IBM model.

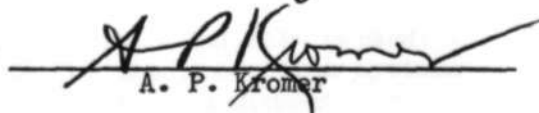
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SIGNED:


P. J. Gray

cc: J. W. Forrester
R. R. Everett

APPROVED:


A. P. Kromer