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J. M. [unclear]

Memorandum 6L-241

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Division 6 - Lincoln Laboratory
Massachusetts Institute of Technology
Lexington 73, MassachusettsCLASSIFICATION CHANGE TO:
Auth: DD-254
By: RR Emmitt
Date: 5-15-60

Subject: Group Leaders' Meeting - February 6, 1956

To: Group Leaders and Associate Group Leaders

From: C. W. Farr

Date: February 7, 1956

Present: J. W. Forrester, R. R. Everett, J. A. Arnow, D. R. Brown,
W. J. Canty, C. L. Corderman, S. H. Dodd, R. S. Fallows,
C. W. Farr, D. R. Israel, J. F. Jacobs, K. E. McVicar,
B. E. Morriss, Jr., J. A. O'Brien, W. N. Papian, J. C. Proctor,
E. S. Rich, P. Youtz, C. A. Zrakat

Agenda: 1. ESS Planning Committee
2. Group Quotas
3. SIC Recommendation--Future PGD and CFAR Needs
4. XD-1 Commemoration
5. Quarterly Meeting on Philco Subcontract
6. Arrival of Command Post Desk

1. ESS Planning Committee

Forrester said Admiral Cochran has inquired concerning status of ESS planning.

Rich outlined his plans, pointing out that the shakedown and evaluation tests, originally documented separately by Grandy and Wells, have now been compatibly revised with the result that evaluation and shakedown tests will be interleaved after July 1; the series of tests will include maintenance, checkout of new equipment, and initial training of operators. The plan will be expanded in detail to cover day-by-day operation from now until October 1956. It is too early yet to know what difficulties will arise; detailed plans of Groups 21 and 23 are not yet documented; late arrival of Air Force operators for pre-training may be troublesome.

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Status of assignment of Air Force operating personnel to ESS was not known. Rich reported that a memorandum prepared by Taylor and Wieser concerning operator training is ready to be distributed.

Forrester cited operator training as an example of the type of bottleneck falling within Rich's responsibility to coordinate and ask for assistance if needed to maintain schedule.

It was left that Rich will communicate with Group Leaders and work out details of responsibility and method of operation.

During the discussion McVicar inquired concerning corresponding responsibility for SAGE coordination. A general conclusion was reached that Lincoln, without contractual responsibility, nevertheless would be expected to provide certain coordination at McGuire.

2. Group Quotas

Forrester pointed out that existing Lincoln staff membership in the various groups in Division 6 should be recognized as unofficial quotas.

Discussion turned to the problems arising when personnel loaned by Hazeltine, Boeing, IBM, and others are transferred out of Division 6 groups. Jacobs agreed to discuss this problem with Kappler, requesting Israel first to prepare a memorandum summarizing long-range needs. It was pointed out that Lincoln's specification groups need to be manned with Lincoln staff people in order not to be vulnerable.

Forrester also highlighted the weapons integration problem, pointing out that the standoff position taken by Lincoln to promote acceptance of responsibility by weapons manufacturers produces a morale problem if Lincoln staff people fail to understand Lincoln's actual continuing need to participate in a consulting relationship.

3. SIC Recommendation- Future FUD and CFAR Needs

Everett reported on an SIC meeting last week with Rodgers and Harrington which discussed CFAR detectors, digital-analog MTI, FUD, beam splitters, and data transmission equipment; a group was assigned to investigate (1) what is needed in the near future for earliest implementation of the CFAR detection system, (2) long-range needs. The group will consider Mark X and SIP but will not attempt to work on these problems in detail. The group will consist of Bivans and Dineen of Division 2; Clark, Nelson, and Axelbank of Division 4; Best and Meisling of Division 6; and possibly others. The group assignment is part time. Other groups will be designated to work under the SIC wing.

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4. XD-1 Commemoration

Dodd summarized a memorandum submitted by Dodd, Jacobs, and Taylor proposing a semi-formal dance in May with invitations extended to MIT employees who are (or have been) assigned to work on SAGE System; it was estimated that two to three thousand people would be invited, hence invitations to Air Force and contracting people would be inadvisable, in the interest of avoiding too large a gathering.

Action was tabled after discussion, and Forrester asked persons with suggestions to bring them to Dodd, Jacobs, or Taylor.

5. Quarterly Meeting on Philco Subcontract

Brown stated that Philco is in its seventh month of work on the subcontract to Lincoln Laboratory at a \$240,000 per year rate of expenditure; the contract will expire in July. The second quarterly meeting will take place February 7 in Philadelphia; the preliminary meeting February 6 in Brown's office will include Division 2 and 3 participation. Philco will present a complete quarterly report and plans for the forthcoming quarter; February 8 a small meeting in Philadelphia will iron out details of Lincoln approval of the forward program.

Brown reported that Lincoln has obtained under the subcontract life test data on surface barrier transistors, significant transistor improvements, and development work on a transistor better by a factor of 10 (gain); 10 laboratory samples of the improved transistor have been received. The contract has also supported computer circuit work. Brown stated that the surface barrier transistor is the only rapid transistor available. Various applications programs are now under way, using transistors in the computer field.

Forrester and Everett pointed out that the Philco subcontract was originally let to obtain transistors suitable for application in computers; now that such application is out of the doldrums and acceptable transistors are forthcoming for our experimental computer, we need to advise Philco that we plan to taper off the subcontract work.

Brown reported that a few laboratory-made diffusion transistors have been received from Raytheon, but they are not as fast as the surface barrier transistor or the VEP transistors being developed by BTL; the bottleneck in the diffusion transistor is the method of lead attachment.

6. Arrival of Command Post Desk

O'Brien announced that the command post desk has been delivered and is being installed in Building F.

C. W. Parr
C. W. Parr, Secretary

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