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Memorandum M-2610

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Page 1 of 2

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By: R. R. Everett
Date: 2-15-60

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

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SUBJECT: SUMMARY OF MIT-IBM COLLABORATION ON DESIGN OF AN/FSC-7 (KD-1)
COMBAT INFORMATION CENTRAL December 1 thru December 31, 1953

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

From: A. P. Kromer

Date: January 8, 1954

Abstract: Collaboration between Lincoln and IBM engineering groups has continued on all phases of development and planning for the program. Some design specifications were formally approved and released to IBM by Lincoln.

Engineering Visits

During the month, IBM people working on the project spent approximately 51 mandays in Cambridge, while MIT people spent approximately 127 mandays at IBM Poughkeepsie.

Exchange of Publications

During this period we forwarded to IBM 38 M-Notes, 2 E-Notes, 1 R-Report, 2 Inter-Office Memoranda and miscellaneous drawings and standards sheets.

We have received from IBM 10 H-Notes, 2 CRR Bulletins, 1 Trip Report, 2 Biweekly Reports and 17 Test Reports.

General Comments

Joint activity of the two laboratory groups during the month has included work in connection with testing of magnetic cores; philosophy of input data handling (other than radar); review and agreement upon an order code for programming machine; continued development of circuits and other specifications regarding display system; discussions concerning transmission of SDV and output data on phone lines; preparation of specifications and procurement of high-reliability vacuum tubes to be used in the various circuits; development of a program for the engineering work required in connection with outputs; and consideration of the necessary engineering developments resulting from the duplex combat information central concept. More details regarding these and other phases of engineering activity are covered in Division 6 reports M-2558 and M-2583 which were issued during the month.

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Page 2 of 2

General Comments (Continued)

Joint review of the Exhibit AFCRC-1 was made with particular attention to the testing which will be performed on the equipment, and an amendment to this exhibit is being prepared. Also, the cost studies prepared for the work to be undertaken by IBM under their AMC contract -1404 were further reviewed.

Considerable attention and effort was put on the development of an overall program for the engineering work remaining to be done, and the preparation of detailed supporting schedules for many of the elements of the system. Completion of this schedule and planning activity will require approximately six to eight weeks additional time.

Formal approval and release was given IBM by Lincoln Laboratory for design specifications for the output buffer drum, the order code to be used for programming, and for eight basic circuits to be used in the instruction frame of the central machine. In addition, formal approval for the use of a 19" round Charactron tube in the tactical display console was also issued by Lincoln.

Signed: _____

A. P. Kromer
A. P. Kromer

Approved: _____

N. H. Taylor
N. H. Taylor

APK/nmt

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