

Memorandum 6M-3619

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

SUBJECT: PROPOSED XD-1 EVALUATION, 20 MAY, 1955

To: N. H. Taylor

From: S. L. Thompson

Date: May 17, 1955

Approved: 
J. A. O'Brien

It has been proposed that the XD-1 receive a partial evaluation on 20 May 1955. The evaluation would cover the card machines, memory, manual operations and the addressable fields of the drum system. See the attached time schedule. The programs to be used are:

| | |
|--------|--|
| RCC 03 | Manual Operations |
| SY 001 | Combines card machine, arithmetic, and memory programs |
| RCM 03 | Tests the card punch |
| DDR 02 | Tests addressable drum fields except RD fields |
| RDR 01 | " " " " " " " |
| DDR 10 | RD field test |
| DDR 01 | Mix arithmetic and drum operations |

Shock tests should be performed on the drums. Tubes, plug-in units, and drum heads will be tapped. Power will be turned off to see if the drums can retain information during a power-off sequence.

It is estimated that the test will take about seven hours. Four hours will be devoted to the central computer tests and three hours will be used to test the drums. The reason that the central computer tests will take so long is that program RCC 03 is long and difficult to run.

The whole drum system will be evaluated when drum system testing is finished.

XD-1 Evaluation Time Schedule

May 20, 1955

0930-1330 Run SY 001 twice. Run RCM 03. Then run RCC 03. Repeat this sequence for four hours. Also, perform shock tests on the drum system during this time.

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01330 - 1430 RDR 01
1430 - 1445 DDR 02
1445 - 1500 DDR 10
1500 - 1630 DDR 01

SIGNED: S. L. Thompson
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SLT:rm

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