

Memorandum M-2981

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

SUBJECT: BIWEEKLY REPOPT FOR AUGUST 13, 1954

To: Jay W. Forrester

From: Division 6 Staff

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SECTION I - CAPE COD SYSTEM

1.1 Group 61

1.10 General

(R.J. Horn, Jr.) (CONFIDENTIAL)

The major activity of Group 61 continues to be preparation for the 1954 Cape Cod System. Checkout of individual programs has begun and will continue for four or five weeks.

The training program for officers and key noncommissioned officers of Section C, 6520th AC&W Sqdn, began on 9 August.

Many members of the Group spent time working on a document to replace TM-20.

1.12 Data Screening

(D.L. Bailey, H.H. Seward) (CONFIDENTIAL)

Initial coding of the correlation program and the track sort-overlap check program (Tracking I and Tracking II) has been completed, and the programs will be tested during the next biweekly period.

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1.3 Group 65

1.31 Activities of Group 65

(P. Youtz) (UNCLASSIFIED)

The tube-construction section returned from vacation the beginning of this past period. They immediately started to fabricate and process components for Charactron tubes in the new 19-inch bulbs with the Mod. III electron optics. Two tubes were completely processed and sent to C. L. Corderman at Lexington for evaluation. Work is continuing on refining the techniques for processing the 19-inch bulbs with an optimum P7 aluminized screen and helical-dag coating. Jigs were designed and made to accommodate the Mod. III electron optics. After the test results on the first two tubes, these jigs will be redesigned.

It has been necessary to lend some support to Convair. Three helical-dag 19-inch bulbs were sent to them. Also, in order to alleviate their construction schedule, several 19-inch bulbs with complete aluminized P7 screens and helical-dag coatings were also sent to them. Convair did not receive their 19-inch bulbs until early in July and have been unable to work out all of their processing problems. C. L. Corderman, F. A. Rodgers, and I plan to spend three or four days at Convair this next period evaluating their version of the Mod. III electron optical system and giving some assistance on their processing problems. The IBM High Street Tube Group and R. G. Mork of Endicott will join us for discussion at Convair and evaluation of the three prototype tubes due 15 August 1954. We will also discuss with Convair test specifications, test procedures, test data sheets, and test equipment for inspecting and evaluating production Charactron tubes at IBM and Convair.

Three days will be spent at Hughes Aircraft with the IBM Tube Group and R. G. Mork of Endicott discussing test specifications, test procedures, test data sheets, and test equipment for the production of Typotrons at IBM and Hughes. We will spend 13 and 14 August at Hughes discussing the electron optics and the Typotron.

Saul Twicken and Al Zacharias spent 10 August at IBM discussing with representatives from Sylvania the technical features of the Charactron.

Engineers from RCA interested in producing Charactrons for IBM spent 10 August with me at MIT discussing the technical features of the Charactron tube.