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Memorandum M-2723

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Page 1 of 1

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

SUBJECT: SECRET SUPPLEMENT TO BIWEEKLY REPORT FOR MARCH 12, 1954

To: J. W. Forrester

From: Division 6 Staff

CLASSIFICATION CHANGED TO:
Auth: DD254
By: RRE
Date: 5-5-60

(H. D. Neumann) (SECRET)

The permutation program generating 6000 target tracks was checked out. The F-99 interception-simulation program was run with 600 of the 6000 tracks, but the results showed only a 50 per cent success of interception and failure to lock on to simple target tracks. To determine whether the criterion for lock-on (2 consecutive lock-ons) was the reason for failure, the same tracks were rerun with only 1 lock-on required for a success. However, this changed the situation only slightly.

For further investigation, a program was written which points out relevant data for target and missile--every scan before and during mid-course guidance phase and every 2 seconds thereafter. This facilitates the detection of trouble of doubtful tracks. So far, 25 tracks were run this way. Nineteen resulted in failure to lock on and are now being analyzed. No definite results have been obtained yet.

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