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Memorandum M-2856

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Division 6 - Lincoln Laboratory
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SUBJECT: SECRET SUPPLEMENT TO BIWEEKLY REPORT FOR JUNE 4, 1954

To: Jay W. Forrester

From: Division 6 Staff

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By: RLE
Date: 5-5-60

(B. Smulowicz) (SECRET)

The results of the preliminary simulation of the F-99 Interceptor in the Lincoln environment have been described in Memorandum M-2811. The results of 6000 separate interceptions are presented in a graphical form for the comparison of the effects of quantization and sampling rate for several target altitudes and speeds.

A program modification is being prepared to introduce ground-command control of the orientation of the airborne radar seeker during the dive. It is expected that this modification will result in a considerable improvement of the performance of the system. If successful, the seeker control in the dive will be included in other tests.

Several critical cases isolated by the preliminary simulation will now be studied in greater detail. In particular, a special test, consisting of about 500 interceptions, is proposed to investigate the sensitivity of the system to the timing of target maneuvers. The effects of increasing the seeker raster aperture may also be studied.

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