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Memorandum M-2890 SPECIAL HANDLING REQUIRED
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Lexington 73, Massachusetts

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SUBJECT: SECRET SUPPLEMENT TO BIWEEKLY REPORT FOR JULY 2, 1954

To: Jay W. Forrester

From: Division 6 Staff

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(H. D. Neumann) (SECRET)

The F-99 interception simulation program was modified. The seeker is now oriented to a new direction after the missile starts its vertical turn. The ground-computed commands effecting the new orientation are based on smoothed simulated radar data of the target and on extrapolated positions of the missile.

Also, a permutation program was written to generate 600 situations. These include 2 heights, 2 velocities, 5 launching positions, 5 initial target positions, straight-line tracks, 2 maneuvers, and 2 seeker raster angles.

These 600 tracks were run first with the modified program and also with the old one, where the seeker is not oriented. The results of the total of 1200 tracks were punched on IBM cards, sorted, and tabulated for analysis. The results will show the effect of increasing the seeker raster angle and the effect of orienting the seeker during its vertical turn.

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