

CHAL - 0556
Copy 3 of 4

12 February 1959

15/ JPK

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report of Granger Meeting at Edwards AFB, California

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1. On 4 February 1959 a meeting was held at Edwards AFB to review the Granger program and to brief [redacted] on the system for any guidance he might give. Present were [redacted] of Granger, [redacted] and the undersigned.

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2. [redacted] believes that the Mod 504 has marginal gain in the jam to signal ratio. He feels confident that an increase of 10 dbm would be successful. There is no conclusive test data to substantiate such a theory. To obtain the increase gain would require a small internal circuitry change, a new antenna housing and approximately a week of isolation tests on the new cover installation. The total delay would be approximately one month and the additional money required would be about \$4,000. Building up the back of the present housing with a "lossy" material might gain a weeks time but would not appreciably affect the cost.

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3. The biggest problem is that the Granger Box does not have the same effect against all radars. Good success has been demonstrated against the AI radars of the F-102, the F-3H and the F-106 lead-collision mode. There has been no success against the F-104 radar or the F-106 pursuit mode. [redacted] is attempting to analyze the basic differences between the various types for a comparison with those expected to be encountered during the operational mission. The fact that the Granger Box is not effective against a type of radar it will not meet in operation should not be used as a criterion to negate the system.

4. It was believed that it was possible that the box was having some effect against the F-106 pursuit mode but such effect was now showing up in the film due to test technique. A special test technique was discussed to measure this possible effect. It was decided to run this

25 YEAR RE-REVIEW

SECRET

special test first and then to go to Phase IV of the test program before any definite decision should be reached as to the operational capability of the system. The conclusions reached will naturally be influenced by the studies of enemy capabilities by [redacted] It is hoped that a definite decision can be reached in a week to ten days.

25X1

/s/ 25X1

MAJOR

MAJOR

RDH:aml (12 Feb 1959)

- 1 - DD/P
- 2 - Operations
- 3 - D & P Subject ✓
- 4 - D & P Chrono