

Memorandum

25X1A

EP 65-318

DATE: 26 October 1965

The Files: [REDACTED]

25X1A9a

FROM : [REDACTED]

SUBJECT: Inspection Report No. 2 - AR-18 Study Program with [REDACTED]

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1. Project Description:

This four month program is to measure the error rate performance of the AR-18 1480 wpm triphase receiving equipment as a function of signal-to-noise ratio and pulse jitter, and to otherwise investigate the performance of the AR-18 as required.

2. Contractual Information:

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- a. Initial Cost: [REDACTED]
- b. Request for Procurement Action: 14 June 1965
- c. Initiation Date: 18 June 1965
- d. Completion Date: 18 October 1965
- e. Deliverable Items: (1) Informal reports at conclusion of Phase I and II
(2) Final Report

3. Date of Meeting: 11 October 1965

4. Place of Meeting: Washington, D.C.

5. Persons Attending:

Agency

Non-Agency

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[REDACTED]

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6. Contractor's Performance:

- a. On schedule and expected to remain so: Yes
- b. Within obligated funds and expected to remain so: Yes
- c. Satisfactory technical progress: Yes

7. Project Status:



~~SECRET~~

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7. Project Status:

A technical report covering all technical findings to date has been received. The report demonstrates conclusively that the AR-18 is plagued with a sufficient number of problems to cause it to be unsuitable for issue as operational hardware. A second report is anticipated shortly which will detail results obtained in an investigation of the recognition code circuitry of the AR-18.

25X1A5a1

[redacted] has submitted a proposal for the development of a detailed development and acceptance specification for use in the development of an improved model of the AR-18. Action on the proposal is suspended pending receipt of the final report on the subject contract.

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for example: Most of the transistors used in it are germanium and very temperature sensitive. All are old and obsolete. Replacements are not available.

In addition, there are some basic deficiencies in the recognition logic.

(26 October 1965)

this equipment was "state-of-the-art" when it was designed and built during the 1959-1960 period.

The solid state component field has been revolutionized since then.

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OC-E/TAP/[redacted]/bjp

These are some of the individuals who were involved in the original design by [redacted]

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(H)

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