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Approved For Release 2001/08/02 : CIA-RDP78-02820A001100050002-2

UNITED STATES GOVERNMENT

Memorandum

EP 65-321

DATE: 27 October 1965

25X1A : The Files: [REDACTED]

FROM : [REDACTED]

25X1A9a

SUBJECT: Inspection Report No. 1 - TE-2 Training Device with [REDACTED]

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1. Project Description:

The TE-2 system is a small, portable training device which is designed to simulate base station A1, A2, and A3 type emissions. It is capable of being keyed or modulated automatically by use of a miniature tape recorder. A means of manually keying the simulator is provided (miniature hand key) as is a two frequency simulcast capability (designed to accept two CR-18/U crystals). The TE-2 may also be used as a code practice oscillator. The TE-2 consists of the following: the TE-2 simulator; two earphones; a voice cable; CW cable; antenna cable; keyer adaptor cable; dummy plug; and one DEAC TR-7/8 battery.

2. Contractual Information:

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- a. Initial Cost: [REDACTED]
- b. Request for Procurement Action: 12 April 1965
- c. Initiation Date: 29 April 1965
- d. Completion Date: Two preproduction units - June 1965
Ninety-eight TE-2's - seven weeks after approval of preproduction units
- e. Deliverable Items: 100 TE-2's with instruction books and production drawings

3. Date of Meeting: 21 October 1965

25X1A5a14. Place of Meeting: [REDACTED]

5. Persons Attending:

Agency

Non-Agency

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[REDACTED]

[REDACTED]

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6. Contractor's Performance:



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6. Contractor's Performance:

- a. On schedule and expected to remain so: No
- b. Within obligated funds and expected to remain so: Yes
- c. Satisfactory technical progress: No

7. Project Status:

Two preproduction TE-2's were delivered during July 1965. One unit was sent to OC-OS for operational evaluation and the second unit was sent to the R&D Laboratory for an equipment evaluation. Several electrical malfunctions have occurred in the second TE-2 which have caused it to be returned to [REDACTED] on two occasions for rework.

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The reason for rework at the present time is the TE-2's inability to operate above 15 Mc. [REDACTED] has corrected this problem by substituting a 2N1742 transistor for that which was used previously in the circuit. Unfortunately, [REDACTED] "hand selected" a 2N1742 with an acceptable beta value to obtain the required 30% modulation level. Since this is undesirable from a fabrication/replacement standpoint, [REDACTED] will check a small quantity of 2N1742's with betas of 20, 40, 60, 80, and 100 to determine whether a 30% modulation level can be achieved at the low frequency end without having to hand select transistors.

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[REDACTED] demonstrated an operating TE-2 that was modified. The unit performed reasonably well but required additional circuit optimization and debugging. Also, the appearance and reliability of the printed circuit board in this TE-2 has deteriorated from the excessive trouble shooting. [REDACTED] was directed to incorporate all modifications into the other preproduction unit and resubmit it for laboratory evaluation. A TE-2 is scheduled for redelivery about the second week of November 1965.

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8. Observations on Contractor's Performance:

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8. Observations on Contractor's Performance:

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Over the past several months [REDACTED] has been minus the technical talent of a full time electrical engineer. Although the technical problems which have arisen thus far under the TE-2 contract cannot be directly equated to the resignation of the previous engineer, it has contributed greatly to [REDACTED]'s delinquency in solving the technical problems as they appeared. In addition, [REDACTED] is fabricating approximately four thousand serviceman's type TV Signal Generators for RCA. This has caused [REDACTED] prime effort to be directed toward deadlines established by RCA and thereby subordinating the technical effort and delivery schedules under the TE-2 contract. Discretion should be exercised prior to tasking [REDACTED] to perform any additional work over the next several months. At the present moment,

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[REDACTED] lacks technical depth and should be considered nothing more than a job shop.

[REDACTED]

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