Approved: Release 2001/07/28 : CIA-RDF 78-92820A00120006000年8

UNITED STATES GOVERNMENT

Memorandum

The Files: Contract No.

EP 66-252

DATE: 22 November 1966

FROM

25X1A5a1

SUBJECT:

Inspection Report No. 3 - AS-12

25X1A5a1

25X1A

Project Description:

Approximately three months of on-the-air tests will be conducted to determine how well the AS-12 operates, what ionospheric phenomena permit or prevent it from working, what changes should be included in future units, and what are the best procedures for operating the AS-12.

Contractual Information:

Initial Cost: a.

b. Request for Procurement Action: 1 April 1966

Initiation Date: 2 May 1966

Completion Date: 28 February 1967

Deliverable Items: Monthly progress letters, final report

Date of Meeting: 17 November 1966

Place of Meeting:

25X1A5a1

5. Persons Attending:

Agency

Non-Agency

25X1A9a

Mr. Mr. Mr. Mr. 25X1A5a1

Contractor's Performance:

On schedule and expected to remain so: Yes

Within obligated funds and expected to remain so: Yes

Satisfactory technical progress: Yes

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GROUP 1

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

EP 66-252

SUBJECT: 25X1A5a1 <u>Inspection</u> Report No. 3 - AS-12

25X1A5a1

7. Project Status:

Extensive tests of the Interference Detection Unit (IDU) indicate that the receiver is performing as it had when initially accepted. The addition of the attenuator to the front end appears to have solved the problem of rejected bands. Twelve field transmissions were made during a seven hour period on 2 November 1966. On 3 November there were 14 transmissions over an eight hour period. A 10db pad was then inserted between the antenna and the IDU. There were 102 transmissions during nine hours on 7 November and 74 transmissions during five hours on 8 November.

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is assembling a set of band pass filters to be used in place of the 10db attenuator. These filters will each have a passband of about 200Khz. (The IDU front end is 3.5Mhz wide.) Preliminary tests indicate that these filters will control the intermodulation problems adequately without degrading the receiver noise figure as the pad does. Reed relays will be used to switch the filters in and out of the circuit. It is expected that the filter installation will be completed by 23 November.

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On 15 November the system performance suddenly disintegrated. Though the field transmitted 69 times, no messages were confirmed. The following day showed similar results. Mr. went 25X1A9a from to the base station on 17 November. Early in the afternoon of 18 November he located the cause of trouble. During tests on 14 November, the cables from the control unit to the IDU and the communications receiver became reversed. As a result, the receiver was listening for the field transmission before the sounding occurred, rather than after. Naturally, results were negative. The connections were corrected and normal operation resumed. To my knowledge, this is the only operator error of any consequence that has occurred on this program.

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