

Approved For Release 2000/08/16 : CIA-RDP78-02820A001200050002-1
UNITED STATES GOVERNMENT

Memorandum

TO : The Files: Contract No. 4160, Task Order 3

EP 66-219
DATE: 7 October 1966

FROM : Mr. [REDACTED]
25X1A9a

25X1A5a1

SUBJECT: Inspection Report No. 2 - AS-12 Field Tests [REDACTED]

25X1A5a1

1. 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.

2. Contractual Information:

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- a. Initial Cost: [REDACTED]
- b. Request for Procurement Action: 1 April 1966
- c. Initiation Date: 2 May 1966
- d. Completion Date: 28 February 1967
- e. Deliverable Items: Monthly progress letters, final report.

3. Date of Meeting: 29 - 30 September 1966

4. Place of Meeting: [REDACTED]

25X1A

5. Persons Attending:

Agency

Non-Agency

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Mr. [REDACTED]
Mr. [REDACTED]

Mr. [REDACTED]
Mr. [REDACTED]
Mr. [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:



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SUBJECT: Inspection Report No. 2 - AS-12 Field Tests with [REDACTED]

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One day of the schedule (26 September) was lost because of minor equipment failure. It was noticed that the message preambles as received at the base were greatly foreshortened. The field set was, therefore, returned to Buffalo on 24 September. A monostable circuit in the field set receiver-exciter delays message transmission for 300 milliseconds to prevent transmission during the base sounding period. A capacitor lead in the monostable had broken, resulting in "early" transmission (that is, before the base is prepared to listen).

One failure also occurred at the base. A diode shorted in the interference detection receiver second IF. As a result we were sounding on channels that may have been too noisy for message reception. This may have caused a lower ratio of message confirms to transmissions than that of which the system is capable.

The tests have been running extremely well from the standpoint of equipment performance. Nature, however, has not been as kind. Solar disturbances and electromagnetic storms seem to be normal conditions. For several test days we have been "wiped out" completely. Of course, it is interesting to observe system operation (or failure) during these unusual conditions, but we have had more than our share.

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OC-E/R&D-EP: [REDACTED] jah/3152 (7 October 1966)

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downgrading and
declassification