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Approved For Release 2000/08/16 : CIA-RDP78-02820A001200050025-6
UNITED STATES GOVERNMENT

Memorandum

TO : The Files: Contract No. 4001, Task Order 5
25X1A9a

EP 66-200
DATE: 9 September 1966

FROM : Mr. [REDACTED]

25X1A5a1

SUBJECT: Inspection Report No. 3 - AN-67 Loop Antenna [REDACTED]

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1. Project Description:

This project is to develop a collapsible HF loop antenna, designated the AN-67. This includes the development of everything but the capacitor. Specifically, the end product must show that the entire antenna, with the final capacitor, can be collapsed into 31 cubic inches and not more than four feet in diameter when it is erected and in use. The antenna is tunable over the frequency range of 4 - 25 MHz and has an input impedance of approximately 50 ohms resistive over the same frequency range. The AN-67 will handle RF power up to 60 watts.

2. Contractual Information:

- a. Initial Cost: [REDACTED]
- b. Request for Procurement Action: 12 January 1966
- c. Initiation Date: 7 February 1966
- d. Completion Date: 7 August 1966 Extension: 7 October 1966
- e. Deliverable Items: Monthly letter progress reports, final report, five instruction manuals, and two engineering models.

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3. Date of Meeting: 31 August 1966

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4. Place of Meeting: [REDACTED]

5. Persons Attending:

Agency

Non-Agency

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

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

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6. Contractor's Performance:



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GROUP 1
Excluded from automatic
downgrading and
declassification

EP 66-200

25X1A5a1

SUBJECT: Inspection Report No. 3 - AN-67 Loop Antenna with [REDACTED]

25X1A5a1

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:

The basic design work is complete. The tuning mechanism is operating. The efficiency at the low end of the 4-25 MHz tuning range is close to but does not quite meet the design goal. It was found that the efficiency is being limited in this case by the Q of the tuning capacitor. When and if we go into the development of the miniature tuning capacitor perhaps a better Q can be obtained. The efficiency at the high end will meet the design goal.

25X1A5a1

The first inflatable foil loops delivered by the sub-contractor, [REDACTED] were found to be mechanically and electrically unsatisfactory because of the contact rings. [REDACTED] redesigned them and they now operate satisfactorily. Also the foil loops are not the correct physical size. [REDACTED] will have to try again. I will accompany Mr. [REDACTED] on his next visit

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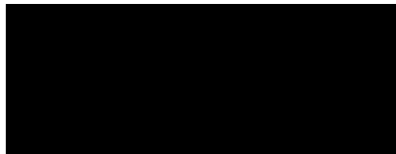
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to [REDACTED] 12 September, to get a closer look at the problem.

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The program was extended two months to 7 October because of slow delivery by [REDACTED] and vacations of [REDACTED] project personnel.

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(9 September 1966)

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