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OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA GEN. REG. NO. 27

5010-107

UNITED STATES GOVERNMENT

Memorandum

EP 66-142

DATE: 21 June 1966

TO : The Files: Contract 4001, Task Order 5

25X1A9a

FROM : Mr. [REDACTED]

SUBJECT: Inspection Report No. 2 - AN-67 Loop Antenna with [REDACTED]

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1. Project Description:

This project is to develop a collapsible HF loop antenna, designated the AN-67, developed by [REDACTED]. 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 - 30 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: \$48,215
- b. Request for Procurement Action: 12 January 1966
- c. Initiation Date: 7 February 1966
- d. Completion Date: 7 August 1966
- e. Deliverable Items: Monthly letter progress reports, final report, five instruction manuals, and two engineering models

3. Date of Meeting: 31 May 1966

4. Place of Meeting: Beltsville, Maryland

5. Persons Attending:

Agency

Non-Agency

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Mr. [REDACTED]

Mr. [REDACTED]

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6. Contractor's Performance:



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GROUP 1
Excluded from automatic
downgrading and
declassification

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

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SUBJECT: Inspection Report No. 2 - AN-67 Loop Antenna with [REDACTED]

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6. Contractor's Performance:

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

7. Project Status:

In reviewing the project with Mr. [REDACTED] the project seems to be going smoothly. The project is not as far along as it was first planned, but there is nothing to indicate that the final delivery will be affected.

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[REDACTED]
build an experimental model of an inflatable torus laminated with aluminum foil and polymethane impregnated dacron fabric. [REDACTED]

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[REDACTED] has made several inflatable satellite antennas. Mockups of this torus have been made and tested with satisfactory results.

The design of the tuning mechanism is complete and a breadboard was constructed. Although this mechanism is rather compact it is not going to be the ultimate solution because a final model will use a much smaller tuning capacitor. It is not within the scope of this contract to have a miniature tuning capacitor or mechanism fabricated.

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Distribution:

- Original - R&D Subject File
- 1 - OL/PD/PCB/CAS
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- 1 - OC-OS
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OC-E/R&D-EP [REDACTED] /dms (22 June 1966)

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GROUP 1
Excluded from automatic
declassification