Approved For Release 1999/09/07 : CIA-RDP78-02820A001200040031-0
SECRET

MAY 1962 EDITION
GSA GEN. REG. NO. 27

UNITED STATES GOVERNMENT

Memorandum

TO : The Files: Contract 4168, Task Order 2

EP 66-170
DATE: 22 July 1966

FROM : Mr. [redacted]
25X1A9a

SUBJECT: Inspection Report No. 4 - RS-101 with [redacted] 25X1A5a1

1. Project Description:

The RS-101 is a 2 - 24 Mc/s solid-state radio intended for paramilitary operations. The semiautomatically tuned transmitter produces 20 watts in the CW mode and 5 watts in the AM mode. The receiver is capable of receiving AM, CW, or SSB signals. There are provisions for a battery and either a synthesizer (OS/B-100) or crystal matrix. The RS-101 weighs 10 pounds and is approximately 7 1/4" x 12" x 4 1/2".

2. Contractual Information:

a. Initial Cost: [redacted] 25X1A1a
b. Request for Procurement Action: 28 September 1965
c. Initiation Date: 12 October 1965
d. Completion Date: 12 August 1966 Extension: November 1966
e. Deliverable Items: Four service test models, manufacturing drawings, and production specifications

3. Date of Meeting: 30 June 1966

4. Place of Meeting: [redacted] 25X1A6a

5. Persons Attending:

Agency		Non-Agency	
25X1A9a Mr. [redacted]	- OC-OS	Mr. [redacted]	25X1A5a1
Mr.	- OC-E/R&D-EP	Mr.	
Mr.	- OC-E/R&D-EP		

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: Yes

7. Project Status:

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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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7. Project Status:

The transmitter portion of the RS-101 is being plagued with the equivalent transistor problems that beset the RT-66(P2). The engineering model RT-101 uses RCA transistors in the final for which RCA has canceled manufacturing plans. ITT and Motorola transistors are under active consideration and are being tested as substitutes.

An RS-101 "on-the-air" demonstration was conducted at selected frequencies between 7 to 20 Mc/s. The radio, including the semi-automatic tune feature, performed in a satisfactory manner. Effort is being concentrated to increase the power output in the "worst case" area. Between 16 to 18 Mc/s the RT-101 puts out approximately 16 to 17 watts. This goes up to about 19 watts at 19 Mc/s.

Internal construction techniques of the complete radio were observed and constructive criticism was made regarding interlocking the tune knob, addition of a fold down handle on the tune knob, and minor aesthetic improvements to the front panel. The engineering model RS-101 will be available for observation in Washington for a two week period beginning 29 July while [redacted] observes their vacation period. 25X1A5a1

[redacted] 25X1A9a

Distribution:
R&D Subject File
OL/PD/PCB/CAS
R&D Lab
OC-OS
ESB
Monthly (3)
EP Chrono 25X1A9a

OC-E/R&D-EP/[redacted]/bjp

(22 July 1966)

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