

~~SECRET~~

OPTIONAL FORM NO. 10
Approved For Release 2000/08/16 : CIA-RDP78-02820A001200050028-3
GSA GEN. REG. NO. 27

UNITED STATES GOVERNMENT

Memorandum

EP 66-210
DATE: 21 September 1966

TO : The Files: Contract No. 3786-3120-5

FROM : Mr. [REDACTED]
25X1A9a

SUBJECT: Inspection Report No. 10 - AC-3 Antenna Coupler [REDACTED] 25X1A5a1
[REDACTED] 25X1A5a1

1. Project Description:

The AC-3 is an HF antenna coupler which provides an impedance range of 35 to 1200 ohms resistance and 0 to \pm J1200 ohms reactance and a transmission line of $50 \pm j 0$ ohms impedance. The AC-3 is manually operated and provides the impedance match over the 3 to 30 Mc/s range with a VSWR of less than 2:1 while handling 400 watts of continuous RF power. The AC-3 can measure and monitor the forward and reflected power (and hence the VSWR) in the transmission line, and contains a protective circuit which deenergizes the transmitter when a preset level of reflected power is exceeded due to mistuning or malfunction. An internal 50 ohm dummy load (over 3 to 3 Mc/s) is included to permit matching of the transmitter. Primary power to operate the AC-3 is 120/240 ($\pm 10\%$), 50/60 cps, AC mains.

2. Contractual Information: 25X1A1a 25X1A

- a. Initial Cost: [REDACTED] Increase in Scope: [REDACTED]
- b. Request for Procurement Action: 1 March 1965
- c. Initiation Date: 29 March 1965
- d. Completion Date: Two preproduction AC-3's - 15 June 1966;
ninety-eight AC-3's - 90 days after approval
of preprods.
- e. Deliverable Items: One hundred AC-3's w/spares and accessories,
updated engineering drawings

3. Date of Meeting: 15 September 1966

4. Place of Meeting: [REDACTED] 25X1A

5. Persons Attending:



Approved For Release 2000/08/16 : CIA-RDP78-02820A001200050028-3

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

GROUP 1
Excluded from automatic
declassification

~~SECRET~~

EP 66-210

SUBJECT: Inspection Report No. 10 - AC-3 Antenna Coupler [redacted] 25X1A5a1
[redacted] 25X1A5a1

5. Persons Attending:

	<u>Agency</u>	<u>Non-Agency</u>	
25X1A9a	Mr. [redacted]	Mr. [redacted]	25X1A5a1
	Mr. [redacted]		
	Mr. [redacted] (co-op student)		

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:

25X1A9a Warehouse test and inspection procedures were established by
25X1A5a1 Mr. [redacted] and were compared to the various test parameters established
by [redacted]. An electrically assembled AC-3 was closely examined and
demonstrated under various test conditions. Approximately 20 AC-3's
are in final assembly and waiting for electrical test. [redacted] 25X1A5a1
estimates shipment of between 50-70 couplers on 30 September. The
balance of units are estimated to be delivered by 17 October 1966.

[redacted]

25X1A9a

Distribution:

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

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

(21 September 1966)

25X1A9a

~~SECRET~~

GROUP 1
downgrading and
declassification