

UNITED STATES GOVERNMENT

# Memorandum

EP 66-154  
DATE: 5 July 1966

TO : The Files: Contract 3786-3120-5

25X1A9a

FROM : Mr. [REDACTED]

SUBJECT: Inspection Report No. 9 - AC-3 with [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 30 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:

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- a. Initial Cost: [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: 22 June 1966

4. Place of Meeting: [REDACTED]

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5. Persons Attending:

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Mr. [REDACTED]

Agency

Non-Agency

Mr. [REDACTED]

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6. Contractor's Performance:



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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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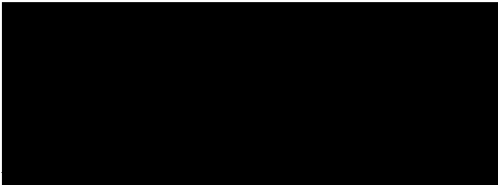
6. Contractor's Performance:

- 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:

Two preproduction AC-3's are assembled and are in operating condition. The coupler was demonstrated at reduced inputs and loads and appears to function in an acceptable manner. Test data is being compiled to insure that the couplers will meet the performance specifications indicated on the attached chart. Eight test points at three operating frequencies were selected. Malfunction of the GFE PAL-350 transmitter (repeated burn out of the R-105, 50 watt, 80 K resistor) delayed the testing until the problem was resolved. The two preprods, along with the test data, are scheduled for delivery on 29 June 1966 via air.

Miscellaneous direction was given and decisions were made with respect to warehouse spares, operating spares, spare parts lists, etc. In addition, two preliminary instruction books were received for review and comments.



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Attachment:  
Chart

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

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(5 July 1966)

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