UNITED STATES GOVERNMENT

Memorandum

TO : The Files: Contract 7161

EP 66-150
DATE: 24 June 1966

FROM : Mr. [redacted] 25X1A9a

SUBJECT: Inspection Report No. 3 - [redacted] 25X1A5a1

1. Project Description:

The PM-18 phase modulates the HF signal of a frequency synthesizer or crystal oscillator. The modulator is keyed to produce pulses of 0.85 millisecond duration spaced at 2.25 millisecond intervals. A unit of information is conveyed by the relative phase (0°, 120°, 240°) of each pulse with respect to the phase of the two preceding pulses. Three serial pulses identify a particular character, so that a total of 33 or 27 separate character codes is possible. Since the character transmission is three intervals of 2.25 milliseconds each, or 6.75 milliseconds, a message of 2400 characters can be transmitted in approximately 16.8 seconds. The triphase signal is then used to drive agent transmitters such as the RT-48 and the RT-49. The PM-18 is combined with the KE-32 to form one package 17.6 cubic inches in size.

2. Contractual Information:

a. Funds Obligated: $50,491.00
b. Request for Procurement Action: 25 August 1965
c. Initiation Date: 15 November 1965
d. Completion Date: Phase I - 18 April 1966
Phase II - 3 months ARO
e. Deliverable Items: Phase I - One engineering model PM-18
Phase II - Five preproduction models PM-18

3. Date of Meeting: 14 June 1966

4. Place of Meeting: Chatsworth, California

5. Persons Attending:

Agency		Non-Agency	
25X1A9a	Mr. [redacted]	Mr. [redacted]	25X1A5a1
		Mr.	

6. Contractor's Performance:

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6. Contractor's Performance:

a. On schedule and expected to remain so: See Below
b. Within obligated funds and expected to remain so: See Below
c. Satisfactory technical progress: Yes

7. Project Status:

The prototype PM-18 is expected to be completed by the end of June. Phase II will not be initiated until this prototype unit shows acceptable performance. Acceptance testing should not take more than a month if no problems are encountered.

Fabrication of the first unit has gone beyond the original completion date and the cost has exceeded the target by approximately $3,418. 25X1A5a1 [redacted] attributes the variance to the addition of a control switch to prevent standby power drain. This is true; I requested that the PM-18 not consume power when in standby. This request came as soon as I discovered the reverse was true. Unfortunately, it has required that new castings be made for the chassis, new drawings, more engineering time, etc. For these reasons, 25X1A5a1 [redacted] is submitting a request for time extension and additional funds.

[redacted] 25X1A9a

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25X1A9a OC-E/R&D-EP/[redacted]/bjp (24 June 1966)