

# Memorandum

TO : The Files: Contract 684, T. O. 7

EP 64-274  
DATE: 23 November 1964

25X1A9a FROM : Mr. [REDACTED]

SUBJECT: Trip Report - OS-12 with [REDACTED], 25X1A5a1

1. Project Description:

The OS-12 is a compact, stable variable frequency oscillator. It has a frequency range of 2 - 30 Mc, spurious output of -65 db, and an accuracy of  $\pm 1000$  cps. The output power (1.0 V across 200 ohms) is 5.0 mw and the input power at 120 (+10%) is 216 mw. The approximate size of the OS-12 is 4" x 2" x 1".

2. Contractual Information:

- a. Initial Cost: \$40,791.00
- b. Request for Procurement Action: 18 September 1964
- c. Initiation Date: 28 October 1964
- d. Completion Date: 21 June 1965
- e. Deliverable Items: One engineering model - 28 May 1965  
Monthly Reports - on/before 21 June 1965.  
Equipment Instruction Manuals - on/before 21 June 1965  
Final Engineering Report - on/before 21 June 1965  
One set reproducible specifications and drawings and additional five copies of each on/before 21 June 1965

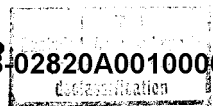
3. Date of Meeting: 28 October 1964

4. Place of Meeting: [REDACTED] 25X1A

5. Persons Attending:

	<u>Agency</u>	<u>Non-Agency</u>	
25X1A9a	Mr. [REDACTED]	Mr. [REDACTED]	
		Mr. [REDACTED]	
		Mr. [REDACTED]	25X1A5a1
		Mr. [REDACTED]	

6. Contractor's Performance:



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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:

On 28 October 1964, a conference was held with the [REDACTED] 25X1A5a1  
 engineers concerned with the subject project. Those present were  
 Messrs. [REDACTED] who will be the full-time Senior Engineer  
 on the project; [REDACTED] Advanced Research Engineer, who  
 will be concerned with the critical circuit design and is  
 considered to be working half-time on the project; [REDACTED] 25X1A5a1  
 Section Head, who will be concerned with the design of the phase  
 lock loop; and [REDACTED], Engineer, who will also be doing  
 considerable work on the project. The biographical data for  
 precontractual SECRET clearances will be sent through the local  
 representative for those engineers concerned with the OS-12,  
 who have not already been cleared.

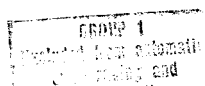
25X1A5a1  
25X1A5a1

25X1A5a1

It was also noted that the switches made by the [REDACTED] 25X1A5a1  
 Company seem to be quite acceptable and life tests will be  
 accomplished in the near future. These switches are expected  
 to reduce the overall size of the package approximately  
 1 cubic inch.

It was requested that, in their first monthly report, they  
 include a more detailed work schedule than was given in the  
 proposal. A design review is scheduled in three months from  
 initiation date; this will be in January 1964, and by this date  
 a breadboard will be in operation. It was requested by the con-  
 tractor that the project engineer be present. Critical design  
 will be primarily centered around the development of the phase  
 lock loop and 1 Mc standard crystal oscillator. It is certain  
 that the accuracy of the 1 Mc crystal standard oscillator will  
 be within .002%. However, it is believed that at least one-half  
 of the cost and a considerable portion of the final size will be  
 due to the standard oscillator; obviously, the design factor here  
 will be size versus cost.

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[REDACTED]

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Distribution:

R&D Subject File  
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R&D Lab  
OC-OS  
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Monthly (2)  
EP Chrono

25X1A9a OC-E/R&D-EP/<sup>SD</sup>[REDACTED]/bjp

(23 November 1964)

