

3 June 1955

Memorandum: File, [ ] Task VI - [ ]

550X1

Subject : Second Summary Report  
Period, 5 May 1955 - 5 June 1955

1. Project Study:

The work as outlined in section (a), Phase 2 of the contract is well underway. The 3 transmitters have been received and tests made to determine keying techniques to handle the desired pulse type transmissions. These tests were successful and as a result some slight modifications have been incorporated in the transmitters. These modifications are in the clamp tube, a 6AQ5 tube, circuit.

Following the successful attempts to key the transmitter an order was placed for the 1 kw power amplifier to use with the transmitter. It is anticipated that modifications may be required to adapt this equipment for this service. Accordingly only one of these power amplifiers was ordered at this time. The additional two required will be ordered following the success of the initial tests on the first one ordered. This power amplifier is expected to be available on or about 10 June 1955. The testing and modifying of this unit is expected to be completed by 5 July 1955.

As these power amplifiers are readily available it is not expected that these will introduce any delay.

A multivibrator unit was designed and assembled including essential controls for out station keying.

The preliminary tests to determine a suitable photographic technique have been successfully completed. This technique may be modified to adjust it for use with the Dumont camera. The cameras are scheduled for shipment from the factory the first week in July. The results of the initial tests of the equipment indicate that all leads, etc. must be carefully shielded.

2. Trips:

No trips were made during the period covered by this report.

**3. Expenses:**

Additional equipments at an approximate total cost as indicated were ordered as follows:

Film processing equipment with essential accessories,  
one kilowatt power amplifier, Tektronix Oscilloscope,  
vacuum tubes, cable, and other accessories.

**\$4450.00**

Equipments previously ordered and which have been received are listed.  
The approximate cost for these is shown:

- 3 - Viking Ranger Exciters
- 2 - Dumont 322A oscilloscopes
- 1 - G.R. Unit Pulsar and Power Supply
- 1 - G.R. tuning fork oscillator
- 2 - Berkeley Universal timers

**\$5659.00**



**Project Engineer**

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**NS/mss**

June 2, 1955  
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Washington, D. C.

Attn: [Redacted]

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Reference: Task VI, [Redacted]

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Dear [Redacted]

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Attached are three copies of our second summary report covering the period 5 May - 5 June 1955.

The preliminary work on the project, we believe, has progressed at a satisfactory rate. Some of the problems encountered proved far less serious than anticipated. However, we do not expect to get off quite so easily in the future, particularly when we begin tests with the kilowatt power amplifier. For this reason we believe we are rather fortunate in being somewhat ahead of our schedule.

Sincerely yours,

50X1

[Redacted]

Project Engineer

Attach: 3 cc - Monthly Summary

NS/mss