

CONFIDENTIAL

March
11 February 1954

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Trip Report - Contracts PSC-148-UNV - PSC 134-UNV, and RD-16

1. A visit was made to the facilities of [Redacted] 17 - 18 February 1954 to discuss RS-6 production problems and matters pertaining to the future production of the RS-6A.

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2. Those present for a discussion of RS-6 production problems were:

[Redacted]

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3. Of chief Agency concern is the excessive oscillator pulling and oscillator radiation found in current production equipments. This problem and others is discussed in detail in a report made by [Redacted] and is attached herewith. Essentially the radiation problem is this:

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(a) It is believed, but not substantiated, that the critical lead dress of the oscillator and antenna circuitry had been changed on [Redacted] electrical prototype and production which simultaneously resulted in excessive oscillator pulling and excessive radiated interference.

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(b) [Redacted] had been advised of these deficiencies prior to our visit and had attempted to remedy this fault by re-dressing the oscillator lead within the R. F. compartment, and re-dressing the antenna lead within oscillator compartment. [Redacted] asked for complete removal of such leads from their disassociated compartments. (In one set examined the oscillator lead was tucked inside the R.F. coil). When radiation interference tests were attempted it was found that the ambient noise level outside the screen room was 10,000 microvolts and it was decided to attempt such tests after the plant shut down. After the plant shut down these tests were again attempted and the results bore no significance to the problem at hand. It seemed apparrant that the method of measuring radiation in accordance with MIL-I-225 (specified for RS-6 and RS-6A) is subject to wide interpretation and not satisfactory for our purposes. It was decided to investigate this matter upon our return to Washington.

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4. MIL-I-16910(SHIPS) is an excellent replacement for MIL-I-225. This

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specification differentiates between conducted and radiated interference and prescribes the exact method of test. The frequency range is from 14 kilocycles to 1000 megacycles which permits radiation measurements within T.V. band. Some relaxation will be necessary for Agency equipment under the requirement of this specification. MIL-I-16910(SHIPS) stipulates receiver and transmitter oscillator (key up) radiation as not to exceed 400 micromicrowatts and transmitter carrier radiation (other than fundamental) as down 50 decibels. The latter is considerably more stringent than the 5% of the fundamental presently specified for the RS-6.

5. Copies of MIL-I-16910(SHIPS) are being procured for the laboratory and it is contemplated that formal amendments to the RS-6 and RS-6A specifications will be made to include a conducted interference measurement and a radiation interference measurement with specific limits for low order harmonic radiation and additional limitations for radiation within the T.V. spectrum.

6. During the morning of 18 February 1954, a meeting was held to discuss matters concerning contractual business. Those present were:



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This period was devoted chiefly to discussions relating to price quotations, changes and requests covered by formal correspondence.



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