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7 DEC 56

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report to [redacted]

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On 7 December 1956 [redacted] of OC-E visited with [redacted]. The general subject discussed was modification of the RT-4 transmitter. Specific items covered were the following:

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1. Proposed front panel layout, which was approved.

2. It had been previously reported that the AC volt meter in the RT-4 transmitter had been giving erroneous readings. The meter in use is a ruggedized version of a iron vane movement manufactured by the Marion Company. The sales literature describes this as being a very good meter; however, reports indicate these meters have given erroneous readings. In looking through manufacturers brochures for a possible replacement meter it was determined the average good quality meter would cost approximately ten dollars. No definite decision was made concerning the replacement of the Marion meter.

[redacted] will search the available sales literature and recommend a replacement meter. We in turn will check further into reports concerning the Marion type meters to try to determine if this meter should be replaced.

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3. [redacted] suggested solution for eliminating the arcing of the contacts on relay RY-3, the plate power relay, was to have these contacts complete the actuating coil circuit of a heavy duty plunger type relay having four sets of contacts which will reduce the arc by distributing the power among the four contacts. It is proposed to mount this relay on a small bracket at the rear of the RT-4 power supply.

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4. The small cooling fan has been removed from the RT-4 now under-going tests. Discussions were held concerning means to cool the final amplifier tubes with the one large fan left in the transmitter. It was suggested that several holes be drilled in the bottom cover of the compartment where the final tube sockets were located. In this manner air would be drawn up along the sides of the tubes and exhausted out of the transmitter by the large blower fan.

[redacted] will make heat runs to determine the quality of this air cooling.

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5. [redacted] reported investigation had shown the Variac is large enough to handle the extra power required for the PMO. Power input switching will have to be changed slightly in order to supply power to the PMO oven at all times.

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6. [redacted] explained his experience concerning bad keying wave form. [redacted] will attempt to duplicate the conditions under which this bad keying shows up. These are to run the transmitter, key it with a ditter, and observe the wave form on a scope. After a period of time, one or two hours, the keying wave form starts to show tails.

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7. [redacted] requested permission to use the RT-4 transmitters in a "ham shack" to get operational test comments from some of the engineers who operate as amateurs. This approval was given. In this connection [redacted] requested that we expedite shipment of the six more RT-4 transmitters to be modified under this task. [redacted] will investigate expediting the procurement memorandum concerning these transmitters.

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8. Six more of the thermostats have been requested to be delivered to [redacted] to be placed in the six PMOs which will be used for this contract.

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[redacted]

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cc: R&D ✓

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