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The Files - RD-110, T. O. 9

31 December 1958

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Trip Report - Visual Readout Device, DS-1

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1. On 17 December 1958 a visit was made to the [redacted] to monitor progress on the development of the DS-1, Visual Readout Device. Persons present at the discussions were:

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- 25X1A5a1 [redacted] Project Engineer
- 25X1A9a [redacted] - OC-E/RAD-EP

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[redacted] was not present at this meeting because of the arrival a new addition to his family.

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2. The DS-1 has been completely breadboarded and connected together, and it is now undergoing test and evaluation by [redacted]. This visual readout device consists of a transmitter adaptor and receiver readout unit. [redacted] stated that several modifications to the receiver portion will be required to correct the instability of this device. When the modification work has been completed, the whole assembly will then be packaged. This packaging work is estimated to begin in about three weeks.

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3. The transmitter adaptor utilizes a standard teletype tape input, converting the Baudot code into the binary code (five pulses converted to four pulses), and a ring counter to trigger one of two audio oscillators. These two oscillators have a frequency of $f_1=1500$ cycles and $f_2=2000$ cycles. These two frequencies are then fed directly into the modulator of an AM transmitter. [redacted] stated that [redacted] was trying to obtain a transmitter distributor (TD) from the [redacted]. It was pointed out that this need not be done since the Government would furnish [redacted] (GFE) a transmitter distributor. It was noted that the only portions of the TD that the transmitter adaptor requires are the sensing fingers and the tape stepping mechanism. This then eliminates any consideration being given to the start and stop pulses normally generated in the 7-unit Baudot code.

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4. [redacted] stated that the delivery date of the contract would have to be extended until the middle of March 1959 but that there would be no requirement for additional funds. Later, when talking

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to [REDACTED] by telephone, he stated that to insure sufficient time to complete the packaging and to eliminate the possibility of a repeat request for time extension, the delivery schedule should be set for April. [REDACTED] statement that no additional funds would be required and that their total spending would be within \$1000 of the total contract funds.

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[REDACTED]

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OC-E/R&D-EP/DWR:wlj (31 December 1958)
cc: R&D Subject
Monthly Report (2)
H.&D Lab
OC-T
R&D Chrono
EP Chrono

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