

CONFIDENTIAL

25 November 1958

MEMORANDUM FOR THE RECORD

SUBJECT: Accelerated Program for Refurbishing the RS-16A/AS-4 Equipments

1. At a meeting held in [redacted] office on Thursday, November 20, attended by: [redacted] S/CO; [redacted] Chief of Operations; [redacted] Chief, Engineering Staff, CC; and [redacted] Chief, Research and Development Branch, CC-2, the following actions were proposed to meet the critical requirement for emergency communications [redacted]

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(a) The AS-4 receive unit, presently located at [redacted] [redacted] would be completely checked out together with the visioorder to provide proper operation for receiving RS-16 signals.

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(b) The six prototype RS-16A units, which have undergone considerable laboratory and field testing, would be returned to the [redacted] for refurbishing and incorporation of a number of changes, both to the order and to the electronic circuitry, to increase the reliability of these units. These changes are ones that have already been engineered for incorporation into the RS-16A production units. However, not all the changes that will be in the 16A will be included in this initial group.

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(c) Two RS-16A field units, plus the AS-4 base unit, will be ready for delivery to the Agency by 25 December 1958.

(d) The four additional RS-16A units will be completed at the rate of one every two weeks, bringing the last delivery approximately 15 February 1959.

(e) The estimated costs of refurbishing the RS-16A units is \$3,000.00 each for a total of \$18,000.00 and the refurbishing of the base station will cost \$2,000.00. These figures are estimates and it is hoped that the total cost will be kept under the \$20,000.00 estimated.

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(f) If it becomes necessary to send a [redacted] engineer to the field to assist in the installation and tuning of the AS-4 unit, [redacted] will supply [redacted] who was formerly employed at the R+D Laboratory, and the charge for such services are \$2,000.00 per month, plus travel costs, plus a per diem charge.

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(g) The Agency will provide as government furnished equipment, the necessary crystals for the AS-4 and for the RS-16 units. OC-T is having frequency and propagation analysis made and will order the appropriate crystals from the crystal laboratory on their completion.

(h) [redacted] will prepare the RS-16 units for matching a 50 ohm load and the Engineering Staff will supply antenna couplers to match this equipment [redacted]

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(i) OC-T will prepare a signal plan for the use of these units and will determine whether the AS-4 equipment will be installed at [redacted]

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(j) The Engineering Staff will provide oscillators which will permit the reconstituting of the antennas and couplers under conditions of radio silence.

2. At the conclusion of the discussion of this planned course of action, [redacted] directed that it be implemented immediately.

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[redacted]

25X1

- cc: Director of Communications
- Chief of Operations, OC
- Chief, Telecommunications Training and Techniques Staff, OC
- Chief, Engineering Staff, OC
- Chief, Internal Projects Section, OC-E/R+D
- ✓ Chief, External Projects Section, OC-E/R+D

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