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UNITED STATES GOVERNMENT

Memorandum

EP 66-157
DATE: 8 July 1966

The Files: Contract No. 7253

FROM : Mr. [REDACTED]

25X1A9a

SUBJECT: Inspection Report No. 1 - VHF Voice Spread Spectrum Transceiver
with [REDACTED]

25X1A5a1

1. Project Description:

25X1A5a1

[REDACTED] has developed a breadboard model of a spread spectrum VHF communications system that may satisfy our requirement for a short range, body concealable system featuring minimum risk of interception by hostile receivers.

Before further development is sponsored, we desire to test the [REDACTED] system under simulated field conditions. The present breadboard will be repackaged, put on a frequency in the 300 Mc/s band, and field tested in Washington, D. C.

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2. Contractual Information:

about Thursday 11 Aug.
[Signature]

- a. Initial Cost: \$17,525
- b. Request for Procurement Action: 1 December 1965
- c. Initiation Date: 1 March 1966
- d. Completion Date: 31 July 1966
- e. Deliverable Items: Interim technical report (4 copies)
Final technical report (4 copies)

3. Date of Meeting: 15 June 1966

4. Place of Meeting: [REDACTED]

25X1A6a

5. Persons Attending:

25X1A9a

	<u>Agency</u>	
Mr.	[REDACTED]	
Mr.	[REDACTED]	

Non-Agency

Mr.	[REDACTED]
Mr.	[REDACTED]

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6. Contractor's Performance:



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GROUP 1
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downgrading and
declassification

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SUBJECT: Inspection Report No. 1 - VHF Voice Spread Spectrum Transceiver
with [REDACTED]

6. Contractor's Performance:

- a. On schedule and expected to remain so: Yes
- b. Within obligated funds and expected to remain so: Yes
- c. Satisfactory technical progress: Yes

7. Project Status:

25X1A5a1

Messrs. [REDACTED] were ready to demonstrate the transceivers. After discussing the system concept, we went out into the field to try the units. One transmitter blew a transistor ending the demonstration almost immediately. We were not able to make any determination on the range of the transceivers. Also, they demonstrated the signal characteristics on an oscilloscope, a spectrum analyzer, and a receiver to demonstrate interception immunity. The voice quality seemed adequate. We will need to have the above three test equipments available to the contractor when the demonstration is given here.

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The antenna, especially if it is to be body-worn, is going to be troublesome. The antenna must be broadband which limits its efficiency, plus VHF frequencies are absorbed by the body readily reducing effective radiated power. [REDACTED] would like any help we can give them in this area.

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[REDACTED] will be ready to demonstrate the transceivers soon, so we must begin preparations here. Mr. [REDACTED] indicated that they should be ready in a month. 25X1A5a1

[REDACTED] 25X1A9a

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OC-E/R&D-EP, [REDACTED] /bjp

(8 July 1966)

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