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Chief, Internal Projects Section, R+D

30 June 1958

Chief, External Projects Section, R+D

Antenna Tests

1. It is requested that antenna tests described below be conducted during the week of 30 June 1958. These tests will require the services of two men, [redacted] and one other, preferably a man with CW operational experience.

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2. The tests will be made from the vicinity of [redacted] to the [redacted]. The purpose of these tests is to test the radiation of a long wire antenna placed a few feet above ground. The equipment required at [redacted] will be a 500 - 1,000 watt CW transmitter with exciter, a long wire approximately 35 - 40 feet long, a 60 foot whip antenna, and communications equipment necessary for a CW order link.

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3. Following is a description of the test procedure:

- a. Two frequencies will be required, [redacted]. The use of these frequencies necessitates nighttime operation.
- b. Two antennas will be used. A whip antenna will be the reference antenna. The long wire antenna will be the test antenna. The use of two antenna may require two antenna couplers or establishing pre-settings on one coupler to facilitate quick change between antennas.
- c. CW transmissions will be made on the long wire antenna first by pressing a key down for two minutes. Three minutes later after switching to the reference whip antenna, a second two minute transmission will be made.

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d.

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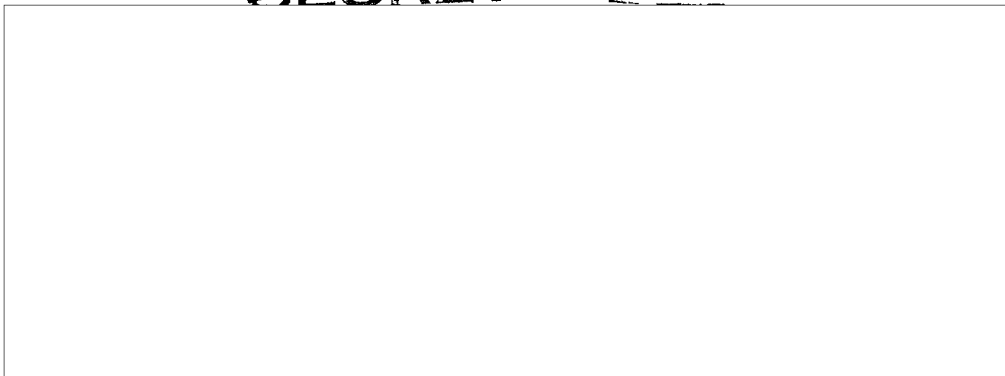
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- e. After completing the above tests, the long wire orientation should be rotated 15° clockwise and all the above tests repeated. Four points of the compass should be covered the first night. The antenna tests will be completed when the long wire has been rotated through 90°. The second night, the last compass point of the previous night will be repeated and then the remaining three points will be covered.

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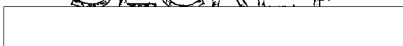


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