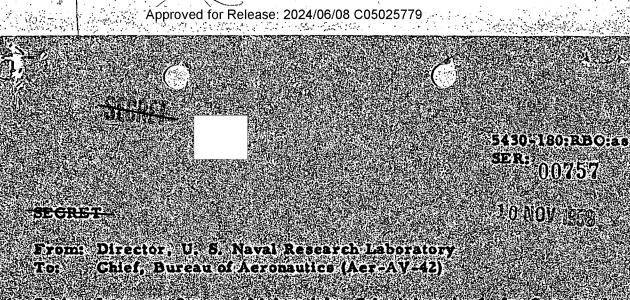
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- Subj: Intercept System, Lightweight, Subminiaturized, for Supersonic Vehicles; BuAer Project No. AV-42004, NRL Problem 54R©6-29; quarterly progress report on; forwarding of
- Ref: (a) BuAer Conf ltr Aer-A V-4212 Ser 02982 of 5 March 1958
  - Encl: (1) 4 copies of subject report 5430-180A:RBO:as of 31 October 1958
  - 1. In accordance with reference (a) cenclosure (1) is forwarded herewith:
  - 2. This is an interim report; work is continuing on the problem.

L. A. CEBHARD By direction

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5430-180A:RBO:as 31 October 1958

Subject: Quarterly Progress Report on Intercept System, Lightweight, Subminiaturized, for Supersonic Vehicles

1. Work has progressed on many phases of the development of an unattended intercept system suitable for operation in supersonic vehicles and designed to receive, amplify and re-transmit (on another frequency) radar signals in S band.

2. A brief outline of the work during the quarter from 1 July to 30 September follows.

a. Intercept antennas based on NRL specifications have been ordered, received and their characteristics measured. Each antenna weighs about one-half ounce; six will be required for satisfactory coverage. An antenna of somewhat different form has been designed and made at NRL for comparison with those purchased.

b. Theoretical design of bandpass filters to limit the reception of the intercept receiver to the frequency band 2600 to 3250 Mc has been completed.

c. Specifications are being prepared for procuring a transistorized video receiver for the intercept system.

d. The power requirement for all devices to be included in the intercept equipment package has been estimated and a contract has been initiated for a long-life power supply.

e. Development of the command receiver, the data-link transmitter and the container for the intercept equipment are being undertaken by cooperating divisions at NRL that have specialized experience along these lines.

f. Initial steps have been taken to provide equipment for the ground stations: a transmitter to be suitably located for interrogating the intercept system through its command receiver (to start the data-link transmitter); receivers and recorders and timers for collecting the intercept data.

g. Shelters for housing the ground stations have been investigated and two shelters have been borrowed from the Army for preliminary work.

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