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H-2061-AHA-93-56

Government & Industrial Div.  
13 March 1956

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[Redacted]

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Subject: Meeting with Dept. of Defense and  
[Redacted]  
8 March 1956 on H-2061 antenna System

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Present:

[Redacted]

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1. A theoretical calculation is to be made by [Redacted] to determine the operational range of the antenna-crystal detector system as now formulated. This is of interest for Band 3 especially. This calculation may possibly be checked with information received by [Redacted]

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2. A possibility of improving the crystal-video signal to noise ratio by finding an optimum crystal position in a waveguide was discussed. This is applicable to Bands 7 and 8. Further information on a reference for this work is necessary. It was thought that any degree of optimizing the position of the crystal would result in a frequency sensitive device.

3. The final design for the Bands 1 and 2 dipoles with reflecting screen is not complete. A size compromise in reflecting screen size with top and end flaps is necessary to obtain useable results for both bands.

4. The assembly of the Bands 3, 4 and 5 helical antennas mounted on a carbon-filled, fiberglas plate was tested as a unit. Some unwanted reflections from the fiberglas itself was observed. The thickness of the fiberglas surface is to be decreased.

5. The horns for Bands 6, 7 and 3 are on order. The Band 3 horn with flange, which was tested at NRL will be tested along with the horns on order. These horns are without flanges.

6. The mechanical configuration of the antenna unit was discussed. The color of the radome is to be #3630 which is a lustreless light gray. The overall mechanical design of the structure was inspected. This design is in agreement with the operational use of the equipment.

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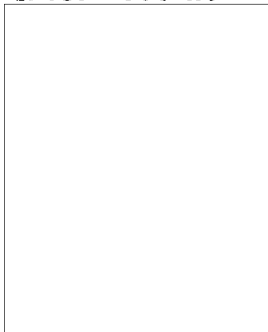
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7. An increase in antenna spares to include one each of the individual antennas was desired by the customer. Data for each antenna should include:
1. Patterns
  2. Relative response vs. frequency
  3. VSWR

Contract negotiations will be necessary to cover any additional material and testing costs.

sf  
cc: Those Present



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