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Reference No.

EDG-2-335

Chief, Supplemental Programs Division, OC

27 March 1957

Chief, Engineering Division, OC

Low Frequency Ferrite Antenna Study

25X1

1. Attached are two copies of final report on the low frequency ferrite antenna study. This report and the return of the residual inventory will complete Task Order 4 of Contract DD-107.

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2. The report states that in order to yield equal signal voltage and equal signal to noise ratio, the maximum dimension of a ferrite antenna must be 1.5 times greater than the maximum dimension of an air core loop at the specified frequency and bandwidth. The report also gives information which will be required for the design of optimum ferrite antennas for those conditions in which the higher Q or case of concealment indicates an advantage in using ferrite.

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Attachments 2

OC-E/R&D-EP/TOW:mtl (27 March 1957)

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