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7-111 00-1/6
ORIGINAL KEY 235979
 DECL REVW ON 2010
EXT BY ND 6 YRS BY SAME
REASON 3 & (3)

PROGRESS REPORT
FOR
MONTH OF SEPTEMBER 1959

30 TO 1000 MC ANTENNA

DOC	<u>29</u>	REV DATE	<u>29 APR 1960</u>	BY	<u>018373</u>
ORIG COMP	<u>33</u>	OPI	<u>56</u>	TYPE	<u>03</u>
ORIG CLASS	<u>M</u>	PAGES	<u>1</u>	REV CLASS	<u>C</u>
JUST	<u>22</u>	NEXT REV	<u>2010</u>	AUTH:	NR 78-2

Purpose: To design, develop, and fabricate five antennas for a frequency range of 30-1000 mc. The antennas will be for outdoor use and be capable of being disassembled into 6 foot lengths or less.

Personnel: Electrical Engineers:
Mechanical Engineer:



25X1

Status: Design parameters of $\tau = .8$, $\alpha = 45$ for a planar $\sigma = 1$ structure have been chosen. The gain of this antenna will be 7 db or better referenced to an isotropic radiator. The front-to-back ratio will average better than 20 db with a minimum of 18 db.

The mechanical design has been started and should be completed during the coming month.

Future Plans: With the completion of the mechanical design, fabrication of a full scale model will begin for electrical testing.

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