

SECRET

Westinghouse

ELECTRIC CORPORATION



AIR ARM BUILDING

DPS 2443
COPY 1 OF 1

PHONE: SOUTHFIELD 1-1000
FRIENDSHIP INT'L AIRPORT
BOX 746, BALTIMORE 3, MD.

10 July 1958

25X1



SUBJECT: Contract TA-3034
Westinghouse Reference AAD-30465
Monthly Progress Report #12
13

25X1

In accordance with Item 3 of the subject contract forwarded herewith are two (2) copies of Monthly Progress Report #13 on the Terrain Avoidance Radar System for the period from 21 May 1958 to 30 June 1958. *one copy sent to [redacted] 7/15/58*

25X1

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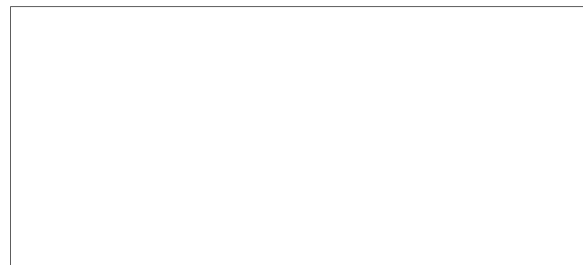


A copy of this report is being sent direct to [redacted] of WADC.



Sales Engineer

25X1



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YOU CAN BE **SURE**... IF IT'S Westinghouse



Encl #1
DPS 2443
COPY 1 OF 2

MONTHLY PROGRESS REPORT #13
on the
TERRAIN AVOIDANCE RADAR SYSTEM
For the period from
May 31, 1958 to June 30, 1958
G. O. AAD-30465

NOTICE: This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C., Section 793-794. The transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

WESTINGHOUSE ELECTRIC CORP.

Air Arm Division

P. O. BOX 746

Baltimore 3, Maryland



MONTHLY PROGRESS REPORT # 13

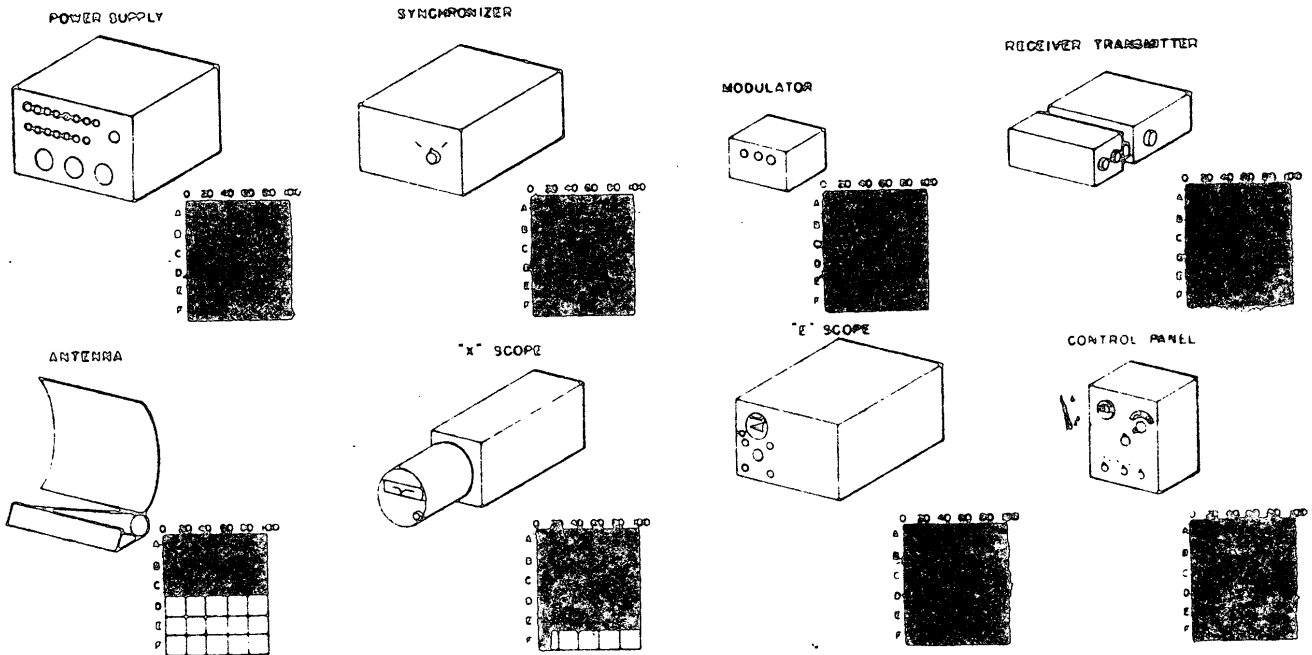
TERRAIN AVOIDANCE RADAR SYSTEM

PROGRESS FOR THE MONTH OF JUNE 1958

Bench testing of all units except the "X" scope has been completed. So much difficulty was encountered with pickup on long leads in the "X" scope sweep chassis that it was decided to rebuild this chassis. Assembly of the rebuilt unit is nearing completion.

Assembly of the breadboard system in the new roof lab location was completed. Some further reduction of interference was achieved. The performance in the new location was much improved. Satisfactory presentation of terrain with good resolution was achieved. The radio towers at Annapolis, located about 16 miles away were identified on the display. Aircraft flying through the beam and taxiing around the airport were displayed. The breadboard optical system did not present an image with adequate brightness. The supplier gave up on the two color tube as they could not achieve the brightness improvement predicted. A crude breadboard optical system using mirrors and a dichroic was made up at Westinghouse. This presented an image of adequate brightness with no parallax error. The final model optical system was received. It presents an image 5 or 6 times as bright as the breadboard optical system since the lenses are that much larger. An effort will be made to incorporate a reflective system into one of the optical systems for comparison.

STATUS OF TERRAIN AVOIDANCE RADAR, JUN. 30, 1958



- LEGEND
- A PRELIMINARY ELECTRONIC DESIGN
 - B FABRICATION & TESTING OF COMPLETE CREATED BOARD
 - C FINAL STRUCTURAL DESIGN
 - D FABRICATION & ASSEMBLY OF BOARD'S IN CASES
 - E ELECTRONIC ASSEMBLY OF PROTOTYPE MODEL
 - F COMPLETE TESTING OF PROTOTYPE MODEL

67-15408