

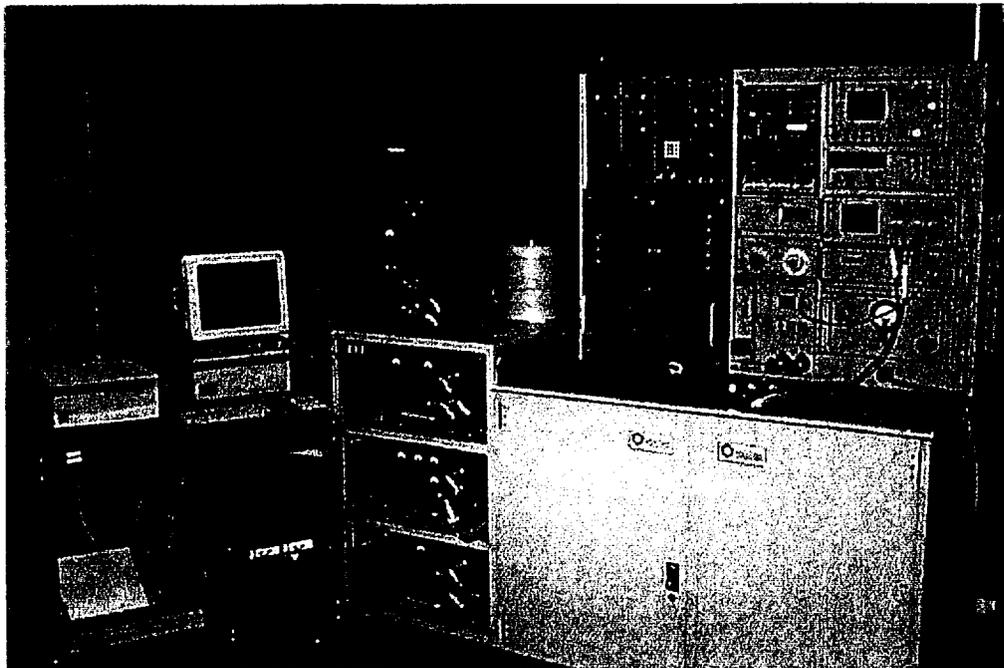
**SUMMARY OF
AVA1 RADAR MAINTENANCE TRAINER**

NOVEMBER 1996

Device 11H116

**NAVAL AIR WARFARE CENTER,
TRAINING SYSTEMS DIVISION**

ORLANDO, FLORIDA



TRAINING CATEGORY:

AIRBORNE SEARCH RADAR MAINTENANCE

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 11H116 is unclassified.

PURPOSE OF DEVICE:

To provide organizational (O) and intermediate (I) level maintenance training for avionics technicians in the general functions, methods of operation, design, theory, and repair of naval aircraft radar systems.

INTENDED USE:

The AVA1 trainer will be used as an institutional-level training device. The AVA1 trainer will provide laboratory practice in performing operational checks, fault isolation, and repairs required for successful completion of the various radar maintenance courses.

FUNCTIONAL DESCRIPTION:

Device 11H116 is a computerized bench mock-up trainer that simulates generic search radar component physical configuration and operation, adjusting and testing, and fault isolation of both weapons replaceable assemblies (WRAs) and shop replaceable assemblies (SRAs). The trainer is designed to be used in the laboratory environment, allowing the trainee to experience the normal operation and evaluation of the radar system, indications of abnormal operation, troubleshooting (fault isolation), and testing of airborne search radar systems.

FUNCTIONAL DESCRIPTION (Cont.):

The radar system simulation is accomplished using graphic three-dimensional displays of operational components arranged in a bench mock-up configuration. Pictorial representations using operable meters, gauges, displays, switches, and other condition sensors allow the trainee to evaluate normal operation and malfunction conditions of system components. Appropriate maintenance-level replacement actions are indicated by push-buttons located on the console face, with the results of those actions provided on the applicable displays.

The trainer achieves its functional purpose by giving trainees the ability to practice and refine techniques and procedures learned in the classroom environment. By reducing the need for operational system "hands-on" training, the trainer also provides a more time and cost efficient method of training.

PHYSICAL INFORMATION:

NUMBER OF PIECES:

Two (2) (only one maintenance cart is required for use with all trainers in one facility).

SIZES:

Trainer Console - 74.8 inches high by 36 inches deep by 72 inches wide; Maintenance Cart - 31.25 inches high by 39.0 inches long by 24.0 inches wide.

WEIGHT:

Trainer Console - 750 lbs
Maintenance Cart - 80 lbs

EQUIPMENT REQUIRED (Not Supplied):

None

POWER REQUIREMENTS:

120-Volt, 60 Hz

PUBLICATIONS FURNISHED:

1. Maintenance Instruction Manual AVA1 Radar Maintenance Trainer, Device 11H116, NAVAIR 01-5479-2-6 (U)
2. Operational and Maintenance Instructions with Parts Catalog, AVA1 Radar Maintenance Trainer, Device 11H116, NATRADEV P-5866 (U)

PERSONNEL:

OPERATOR: One (1) Trainee

TRAINEES: One (1) per Trainer Console

MAINTENANCE: Contractor Supported

CONTRACTOR IDENTIFICATION:

Originally manufactured by ECC International Corp., Orlando, FL, under NAVTRASYSNEN Contract No. N61339-86-C-0146.

Block Upgrade of device 11H116 by O C, Incorporated, Alexandria, VA, under NAWCTSD Contract No. N61339-95-C-0040.

LOCAL STOCK NUMBER:

6910-LL-C00-6812

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