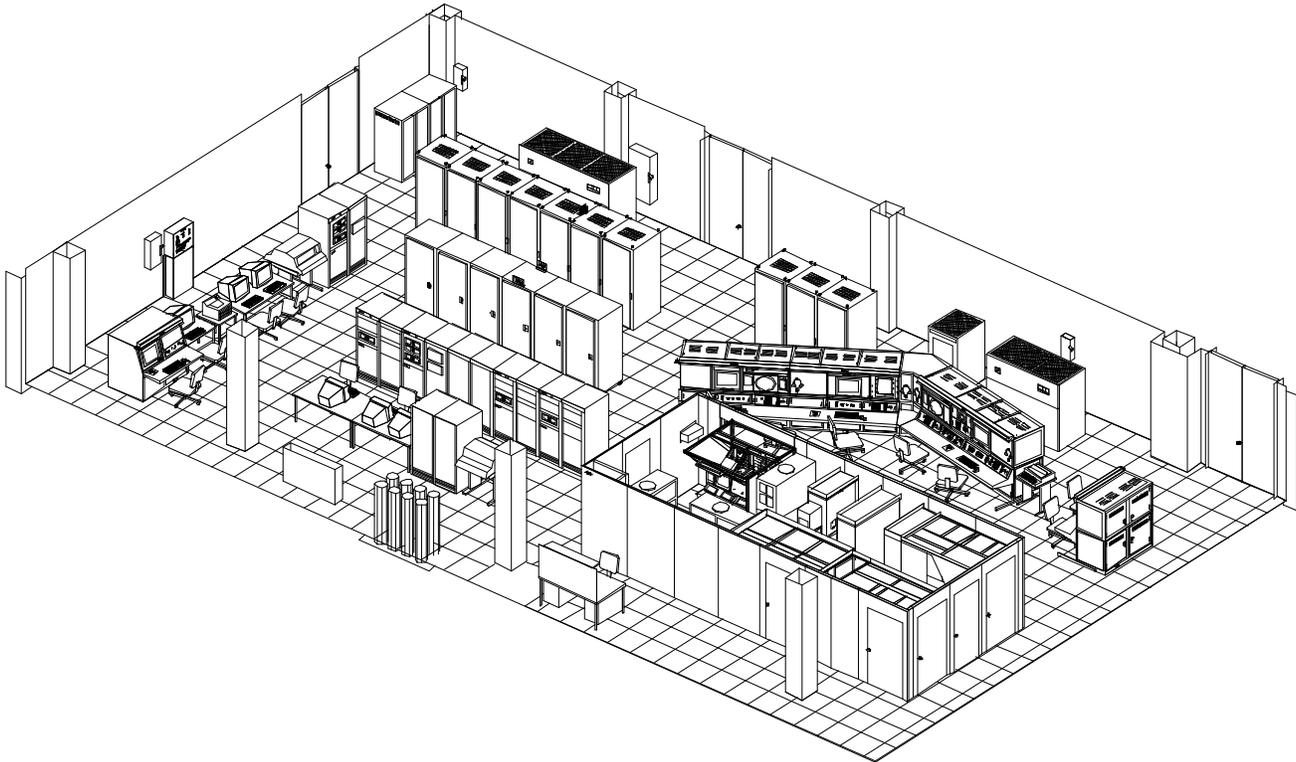


SUMMARY OF
P-3C ACFT TACTICAL OPERATIONAL READINESS TRNR

JANUARY 1999
NAVAL AIR WARFARE CENTER TRAINING SYSTEMS DIVISION

Device 2F140A
ORLANDO, FL.



TRAINING CATEGORY:

AVIATION

ORIGINATING AGENCY:

CNO/AIR

SECURITY CLASSIFICATION:

Device 2F140A is secret.

PURPOSE OF DEVICE:

To provide a realistic environment for training tactical antisubmarine warfare crews in decision making, communication, navigation, search, localization, and attack missions.

INTENDED USE:

Device 2F140A is to be used to support tactical crew training in the tactics independent mode in the P-3C Upgrade III configured aircraft.

FUNCTIONAL DESCRIPTION:

The Device 2F140A trainer is composed of two (2) separate complexes located in one (1) room: the 8tactics trainer and the off-line computer complex.

The tactics trainer consists of several equipment areas. A trainee enclosure within the tactics trainer provides a realistic aircraft environment for NAV/COMM, TACCO, and Sensor Stations crew members to perform the training exercises. In addition, a Pseudo Pilot station, external to the trainee enclosure, allows interaction of the tactics crew with the pilot. The relevant (non-flight) pilot station functions may be performed by either a trainee or an

instructor. Associated with the trainee stations are three (3) instructor consoles: TAC/NAV, acoustic, and non-acoustics. The TAC/NAV instructor supervises the TACCO and the NAV/COMM stations. The acoustics instructor supervises Sensor Stations 1 and 2. The nonacoustics instructor supervises Sensor Station 3.

The instructors have the capability to freeze the progress of the exercise and to reset the exercise to clear malfunctions or dropped sonobuoys, change target information. As training progresses, the instructors may increase the complexity of the exercises by increasing the number of targets, decreasing their signal strength, and introducing malfunctions.

The computer complex consists of the simulation computers and peripherals. The on-board computer is used in the trainer for handling data transfer and control functions with other avionics equipment. Hardware cabinets provide computer interfaces, display generators, simulated acoustic target generators, and power distribution.

The off-line computer complex provides a facility for off-line generation of mission files used for training exercises.

A Mission Debrief Facility is not provided with this Trainer.

PHYSICAL INFORMATION:

Tactics Trainer/Off-Line Computer Area: 73' long x 42' 8" wide. Total floor area is 3,115 sq. ft.

The trainer complex is 10' high from raised floor to the ceiling. The raised floor is 18" from building floor to provide space for cables and the ground reference planes.

Power emergency shutdown circuits are installed through-out the trainer complex.

The air conditioning requirement for the trainer complex is approximately 25 tons.

EQUIPMENT REQUIRED (Not Supplied):

None

POWER REQUIREMENTS:

Trainer - 120/208 V, 60 Hz., 3 Phase, 350A
Aux Trainer - 120/208 V, 60 Hz, 2 Phase, 15A
Off-Line Area - 120/208 V, 60 Hz 3 Phase, 100A

PUBLICATIONS FURNISHED:

1. Operation and Maintenance Manual - NAWCTSD P-7301. (U)
2. Planned Maintenance System - NAWCTSD P-7302. (U)
3. Commercial Off The Shelf Manuals - supplement to NAWCTSD P-7301 (U)
4. Instructor's Utilization Handbook - NAWCTSD P-7303. (U)
5. Support Software User's Guide - NAWCTSD P-7304. (U)

PERSONNEL:

Instructors:
Five (5) P-3C ACFT, Tactical Qualified Instructors.

Operators:
Operated by Contractor Support Personnel

Maintenance:
Maintained by Contractor Support Personnel.

Trainee:
Typically seven (7) P-3C ACFT Tactical Aviation (operational) personnel.

CONTRACT IDENTIFICATION:

Manufactured by Dual, Incorporated, Lake Mary, Florida. Contract N00167-94-D-0085.

Reproduction of this publication in whole or in part is permitted for any purpose of the United States Government.