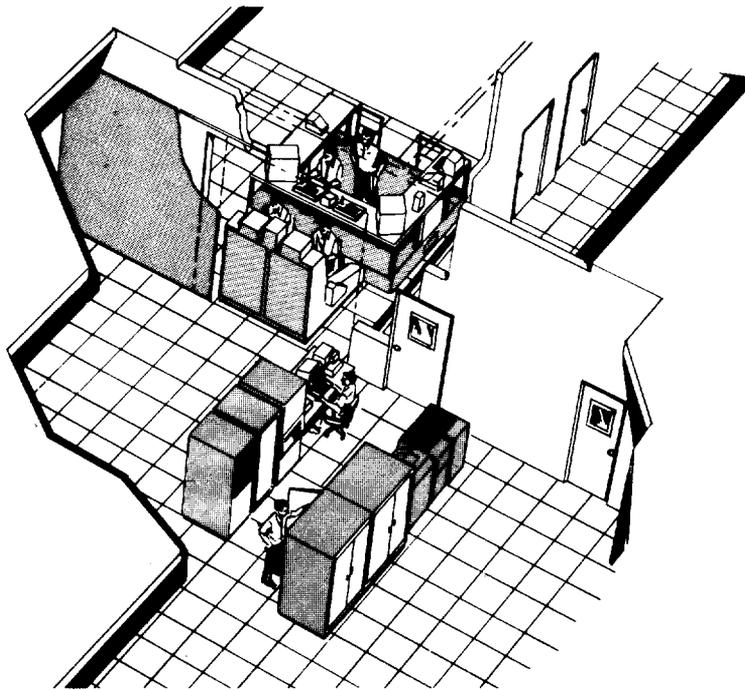


## DIRECTORY OF NAVAL TRAINING DEVICES



## EA-6B ACFT ICAP II TEAM TACTICS TRAINER, DEVICE 15E22C

## TRAINING CATEGORY:

RADAR (EW)

## ORIGINATING AGENCY:

DCNO (AIR)

## SECURITY CLASSIFICATION:

Device 15E22C is classified as **SECRET** when operating. Displays at the trainee station and instructor station present classified data. The trainer is unclassified when powered off.

## PURPOSE:

Provides introductory, proficiency, and refresher training for EA-6B ICAP II electronic countermeasures officers.

## INTENDED USE:

VAQ-129 employs Device 15E22C in its EA-6B ECMO Training Program at Whidbey Island, WA. The program trains officers with varying levels of electronic warfare and ALQ-99F experience. The trainer is installed in the Medium Attack Trainer Building at the Whidbey Naval Air Station in Oak Harbor.

The Tactical EA-6B Mission Support (TEAMS) system can be used for mission planning and permission briefing. In mission planning, a TEAMS Specific Mission Plan can be developed. The student records the Operational Flight Program (OFP) and a TEAMS Specific Library onto a tape transport cartridge and loads this into the ALQ-99F system AYK-14 computer.

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### FUNCTIONAL DESCRIPTION:

Device 15E22C comprises four major subsystems:

- Simulation Hardware - Units 1 and 2
- Trainee Station - Unit 3
- Instructor Station - Unit 4
- Computer Complex - Units 5 through 15

The 15E22C simulates the following ICAP II units: Universal Jamming Exciters, ALQ-99 Receivers, ALQ-99 Encoder, TACAN CCM Data Link, ASN-130 CAINS, ASN-50 Air Data Computer, Altitude Reference Indicator (ARI), Bearing Distance Heading Indicator (BDHI), Altimeter, MACH Air Speed Indicator, and HF/UHF Radio and ICS. The trainer stimulates the ALQ-99F system with an electronic warfare environment of 100 signals. The simulation hardware also interfaces with the ALQ-99 system per the 1553A/B MIL standard.

The trainee station is an accurate reproduction of the EA-6B ICAP II rear cockpit controls. All the controls used with the Tactical Jamming System (TJS) are fully operational. Trainees receive practical experience using the TJS in training exercises that employ scenarios of varying complexity.

Instructors are provided with a raised viewing platform behind the trainee station. The instructor station includes color graphic displays of scenario conditions and a function keyboard. The keyboard controls the training exercise displays and the trainer mode. Scoring displays provide instantaneous and cumulative student performance information.

Trainer modes allow the instructor to start or freeze the scenario and initiate replays. Replay modes may be selected to review either the last 20 minutes of training or the entire exercise.

The computer complex is a SEL 32/7780 computer system that controls scenario progress and permits background scenario development.

### PHYSICAL INFORMATION:

Device 15E22C is a permanently installed trainer.

### OPERATIONAL EQUIPMENT:

Unmodified equipment:

ALQ-99F  
 Digital Data Computer (AYK-14, XN-4A)  
 Control Display Indicator (CDI)  
 Converter Synchronizer (CIU)

AN/ASN-123 TACNAV System

AN/UYH-4 Recorder Reproducer Set with computer load panel and two tape transport cartridges

### POWER REQUIREMENTS:

Supplied by installation

### PUBLICATIONS FURNISHED:

Instructor Utilization Handbook  
 NAVTRADEV P-6085 (U)  
 Maintenance Manual with Parts List  
 NAVTRADEV P-6095-1, -2 (U)  
 Maintenance Requirement Cards  
 NAVTRADEV P-6096 (U)

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Commercial Computer Documentation  
NAVTRADEV P-6097 (U)

Maintenance Qualification Manual  
NAVTRADEV P-6098 (U)

## PERSONNEL:

**Instructor:** Two (2) experienced ICAP II  
version EA-6B ECMO, with Device  
15E22C instructor certification  
from VAQ-129

**Operator:** Instructor Operated

**Trainees:** Two (2) maximum

**Observers:** Six (6) maximum

**Maintenance:** Two (2) ET or equivalent techni-  
cians per 40-hour utilization  
week

## CONTRACT IDENTIFICATION:

Manufactured by AAI Corporation,  
Cockeysville, MD under NAVTRASYS-  
CEN Contract No. N61339-82-C-0073.

## LOCAL STOCK NUMBER:

6930-LL-C00-6639