

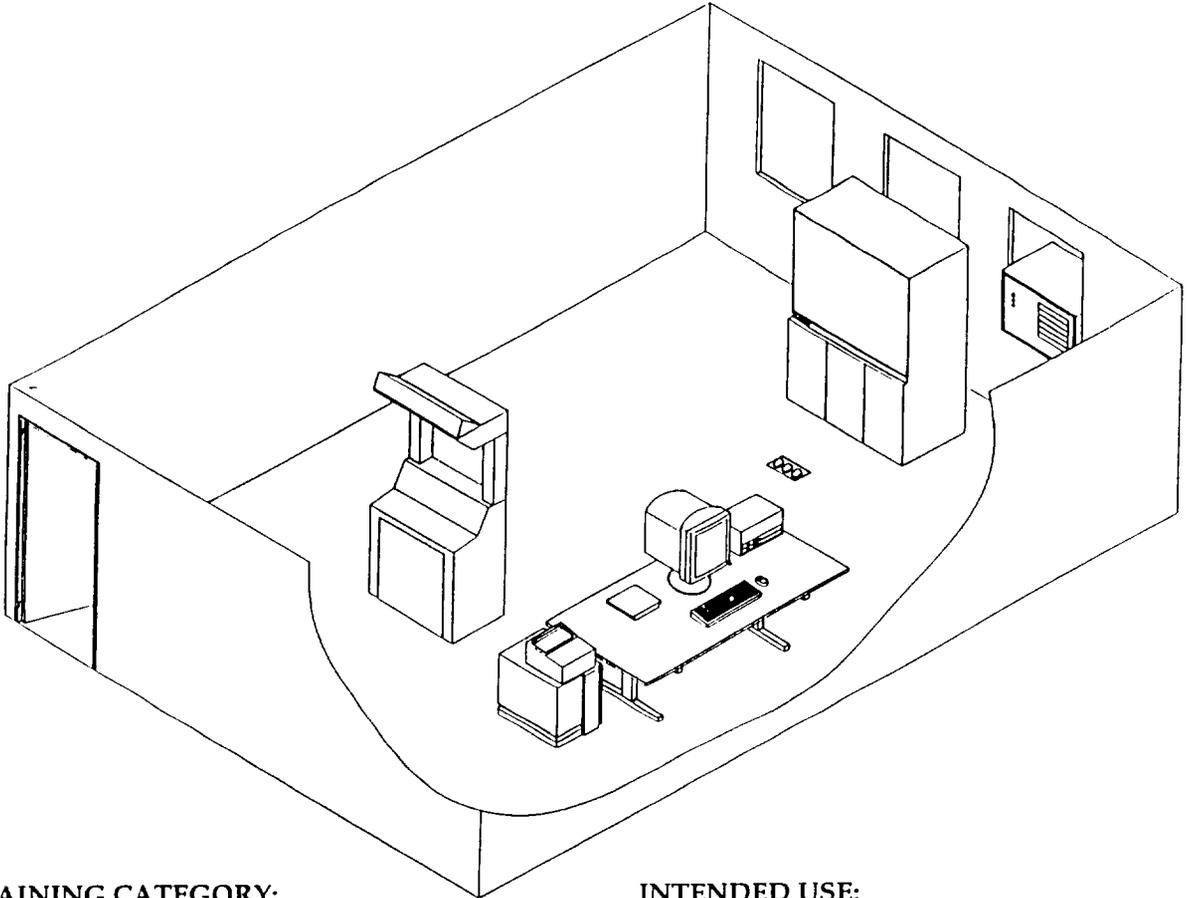
**SUMMARY OF
BARGE FERRY PILOT/COXSWAIN TRAINING SYSTEM**

MAY 1996

DEVICE 20B7

NAVAL AIR WARFARE CENTER TRAINING SYSTEMS DIVISION

ORLANDO, FLORIDA



TRAINING CATEGORY:

SURFACE

ORIGINATING AGENCY:

CNET

SECURITY CLASSIFICATION OF DEVICE:

Device 20B7 is unclassified.

PURPOSE OF DEVICE:

Develop pilot and coxswain proficiency in Barge Ferry operations in day and night environments.

INTENDED USE:

The Barge Ferry Pilot/Coxswain Training System is used to support Barge Ferry crew training in skills involved with retract, transit, and approach operations of the Navy Causeway Section Powered and Side-Loadable Warping Tugs (CSPs/SLWTs).

Operational procedures include, but are not limited to: Procedural checkouts, visual lookout, communications, system operations, system malfunctions, assembling floating causeway piers, roll on/roll off discharge facilities, crew coordination, casualty control/emergencies, docking maneuvers, and man-overboard procedures.

The training system is also used to reinforce training in normal/degraded/emergency operations of simulated Barge Ferry systems.

FUNCTIONAL DESCRIPTION:

Device 20B7 is installed in a single room facility, and includes an Instructor/Operator Station, a Pilot Station, and a Coxswain Station. The device is readily transportable. Remote system administration and scenario file modification capabilities are supported

The Instructor/Operator Station (IOS) is the trainer control center. The IOS provides the capability to configure, initiate, and record the training scenario, and to monitor and evaluate trainee performance. Reset and Freeze modes are provided to emphasize or review a particular situation during a training session.

The Pilot Station includes a visual scene projection system where the pilot trainee stands and observes a realistic color display of the exercise scene, including detailed ownship, ocean, beach environments, and stationary and moving objects. Footpedals allow the pilot to pan the visual scene, or zoom in for greater visual detail.

The Coxswain Station includes full-size replicas of coxswain cab Waterjet Propulsion Assembly (WPA) control panels. All WPA controls and indicators are functional. Ownship response, maneuvering, and casualty control are consistent with actual ownship performance. Trainer WPA controls and indicators respond to simulated engine changes during ownship maneuvers and malfunctions.

An aural simulation system provides aural cues, including engine, starter motor, engine malfunction, flood alarm, fire alarm, fire discharge, 400HZ inverter, horn, and vent fan.

PHYSICAL INFORMATION:

20 ft. X 15 ft. floor area
84" height X 36" width (door) access
96" height (ceiling)

Air-conditioning
60° to 85°F temperature
40 to 80% relative humidity

EQUIPMENT REQUIRED (Not Supplied):

None.

POWER REQUIREMENTS:

Two 120 VAC, 60 Hz, single phase circuits, 20 amps each.

PUBLICATIONS FURNISHED:

1. Barge Ferry Pilot/Coxswain Training System, Training System Utilization Handbook, NAWCTSD P-7257 (U).
2. Barge Ferry Pilot/Coxswain Training System, Operations and Maintenance Manual, NAWCTSD P-7258 (U).
3. Barge Ferry Pilot/Coxswain Training System, Commercial-Off-the-Shelf (COTS) Manuals, NAWCTSD P-7259 (U).

PERSONNEL:

Instructor/Operator - One instructor qualified in CSP training procedures.

Trainees - One pilot trainee; one coxswain trainee.

CONTRACT IDENTIFICATION:

Manufactured by Jason Associates Corporation, San Diego, CA, under NAWCTSD Contract No. N61339-95-C-0027.

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