



TRIDENT SUBMARINE DAMAGE CONTROL TRAINER, DEVICE 21C11A

TRAINING CATEGORY:

UNDERSEA OPERATIONS
(Submarine Damage Control)

ORIGINATING AGENCY:

NAVSEA

SECURITY CLASSIFICATION:

Device 21C11A is unclassified.

PURPOSE OF DEVICE:

To train and evaluate submarine damage control team performance in the identification, reporting, and repair of flooding casualties resulting from piping ruptures.

INTENDED USE:

To familiarize students with the physical characteristics of a 726 class submarine engine room and procedures for controlling water, oil, and air leaks.

FUNCTIONAL DESCRIPTION:

Device 21C11A enables a damage control team to receive training in response to flooding casualties. The major systems of this device are emergency air breathing, high pressure air, water distribution, water treatment, instructor control, communications, closed-circuit TV, lighting, and power distribution.

The instructor console in the control room overlooks the simulated engine room (get-wet compartment) that serves as the trainee area. As the instructor initiates piping leaks, the training exercise is monitored by closed-circuit TV and recorded by VCRs at both the instructor console and the classroom for critique of trainee performance. All air and water systems are monitored and controlled by the instructor from the instructor console.

Students use air breathing band-it kits for controlling the leaks when an emergency situation is simulated. Water from these leaks is recycled and is continually monitored and maintained at proper temperature, chlorine, and pH levels. Intercom equipment is provided for communications between the get-wet compartment, control room, support area pump pit, classroom, and lobby.

DIRECTORY OF NAVAL TRAINING DEVICES

PHYSICAL INFORMATION:

<u>Area</u>	<u>Dimensions L" x W" x H"</u>
1. Get-Wet Compartment (Lower Level)	276 x 168 x 194
2. Get-Wet Compartment (Upper Level)	276 x 168 x 114
3. Control Room	222 x 108 x 96
4. Trainer Support Area - Main Deck	307 x 348 x 108
5. Trainer Support Area - Pump Pit	111 x 168 x 114
6. Classroom	432 x 492 x 114
7. Storage Tank	234 x 180 x 120
8. Lobby	296 x 88 x 114

OPERATIONAL EQUIPMENT:

Equipment falls into three (3) categories: actual, modified, and simulated submarine equipment.

EQUIPMENT REQUIRED (NOT SUPPLIED):

Refer to Operation and Maintenance Instructions for Device 21C11A, NTSC P-5617-1 (U).

POWER REQUIREMENTS:

ELDP-1: 120 VAC, 3-Phase, 60 Hz., Delta, 3-Wire 100A Main Breaker

ELDP-2: 440 VAC, 3-Phase, 60 Hz., Delta, 4-Wire 225A Main Breaker

INSTALLATION REQUIREMENTS:

Device 21C11A is to be tested after installation in accordance with the Trainer Test Procedures and Results Report, CDRL A002.

PUBLICATIONS FURNISHED:

1. NTSC P-5617, Operations and Maintenance Instructions Manual with Commercial Supplements (U).
2. NTSC P-5618, Planned Maintenance System Documentation (U).
3. NTSC P-5619, Instructor Utilization Handbook (U).
4. NTSC P-5620, On-The-Job Training Handbook (U).

PERSONNEL:

Instructors: Three (3)

Students: Twelve (12)

CONTRACT IDENTIFICATION:

Manufactured by United Scale Models Southwest, Inc., Houston, TX under NAVTRASYS-SCEN Contract No. N61339-88-C-0006.

LOCAL STOCK NUMBER:

6930-LL-C00-6934