

DIRECTORY OF NAVAL TRAINING DEVICES



HARPOON AN/SWG-1A OPERATOR/TEAM TRAINING SYSTEM, DEVICE 12D8

TRAINING CATEGORY:

GUIDED MISSILE (Launching Systems)

ORIGINATING AGENCY:

NAVSEA

SECURITY CLASSIFICATION:

Device 12D8 is unclassified.

PURPOSE OF DEVICE:

To provide realistic training and practice in the operation and employment of the surface launched Harpoon Weapon System.

INTENDED USE:

To provide shore-based operator and team training of Harpoon personnel in the operation and use of the Harpoon Ship Command-Launch Control Set AN/SWG-1A(V) (HSCLCS-1A) for effective deployment of the Harpoon missile.

FUNCTIONAL DESCRIPTION:

Device 12D8, the Harpoon Operator/Team Training System (HOTTSS), is a shore-based training system that uses tactical components of the HSCLCS-1A in a computer-based environment that provides simulated inputs for the external shipboard systems and environmental conditions. Use of the actual tactical equipment allows the students to get hands-on experience with the HSCLCS-1A. This eliminates the usual translation that students must perform to relate the trainer to the tactical equipment. With Device 12D8, operation of the trainer and the tactical equipment are one and the same to the student. The system provides procedural training for the HSCLCS-1A operator as well as the Harpoon Team operating within a mockup of a ship's Combat Information Center (CIC). Device 12D8 consists of an Instructor Station component and a Student Station component. Each Instructor Station can communicate with four (4) Student Stations, each of which reconfigurable to an ASROC, Cannister, or Tartar HSCLCS-1A variant. Realistic training lessons are developed by

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Navy instructors at the Instructor Station and then executed interactively with the Student Station. Training exercise data is recorded during lesson execution and is used for post-exercise evaluation by the instructor. During the evaluation, the instructor can analyze the frequency of operator actions, the time between operator actions, as well as replay the operator actions and resulting Harpoon missile flyouts. At team training sites, scenario generation and control is provided by the Tactical Advanced Combat Direction and Electronic Warfare System instead of the HOTTTS Instructor Station. A Harpoon Weapon System tutorial which provides lessons that describe and demonstrate the tactical capability of the Harpoon Weapon System is also provided with Device 12D8. The Instructor Station utilizes commercial off-the-shelf and trainer unique equipment and consists of an Instructor Console and a Printer Stand. The Student Station consists of trainer unique and tactical equipment. The tactical equipment includes the HSCLCS-1A Graphic Display System (GDS), Data Processing Computer (DPC), Data Conversion Unit (DCU) Tray 1, DCU Cards, Power Supplies and Dimmer Assembly. Fault Isolation Kits are provided for the DPC/DCU, GDS, and Special Purpose Electronics of the Student Station.

PHYSICAL INFORMATION:

Number of Pieces: Six (6)

- One (1) Instructor Console (IC)
- One (1) Printer Stand
- Four (4) Student Stations (SS)

Sizes:

- IC 63.5" H x 74.25" W x 36" D
- Printer Stand 53" H x 30" W x 24" D
- SS 70" H x 29.7" W x 41" D

Weight:

- IC 700 lbs.
- Printer Stand 250 lbs.
- SS 1200 lbs.

Power Requirements:

- 115 Volt 400 Hz. 3-Phase delta - 10.24 KW
- 115 Volt 60 Hz. - 3.17 KW
- 28 VDC - 210 watts

PUBLICATIONS FURNISHED:

1. Operations and Maintenance Manual Device NTSC P-6279 (U)
2. Instructor Utilization Handbook, NTSC P-6282 (U)
3. OJT Handbook, NTSC P-6283 (U)
4. PMS Dada, NTSC P-6281 (U)

PERSONNEL:

- Instructor/Operator:** One (1) Chief or 1st Class PO, qualified to teach Harpoon
- Trainees:** Up to Twelve (12)
- Maintenance:** Contract, One (1)

CONTRACT IDENTIFICATION:

Manufactured by McDonnell Douglas Missile Systems Company, St. Louis, MO under NAVSEA Contract No. N00024-88-5341.

LOCAL STOCK NUMBER:

6910-LL-C00-6930