

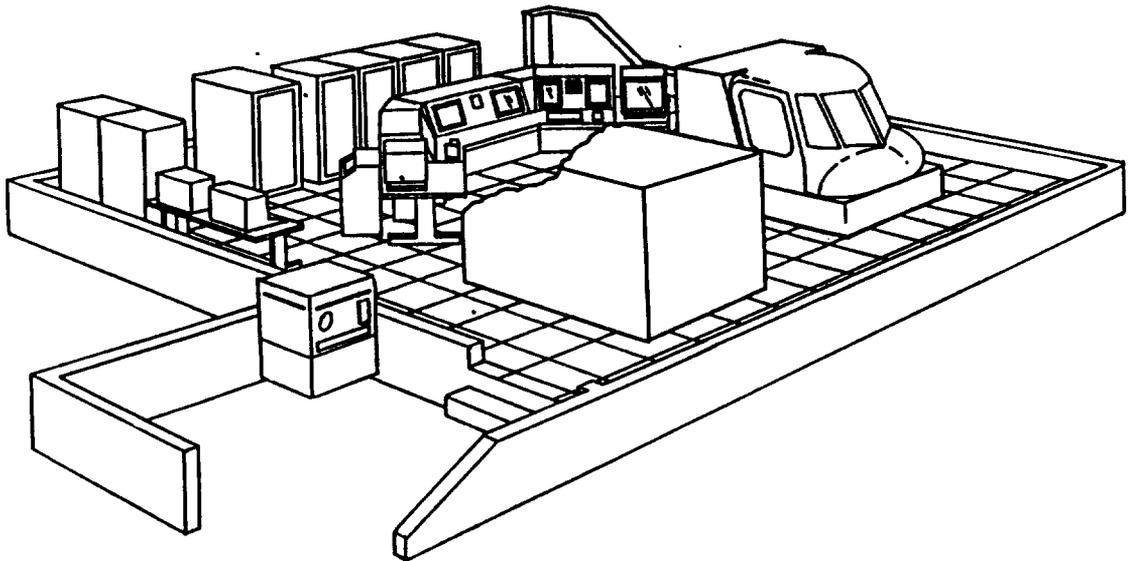
SUMMARY OF
SH-2G WEAPONS SYSTEM TRAINER

DECEMBER 1991

Device 2F158

NAVAL TRAINING SYSTEMS CENTER

ORLANDO, FLORIDA



TRAINING CATEGORY:

WEAPONS SYSTEMS

be designated Naval Aviators.

Sensor Operator trainees should be AW petty officers.

ORIGINATING AGENCY:

NAVAIR

FUNCTIONAL DESCRIPTION:

SECURITY CLASSIFICATION OF DEVICE:

Device 2F158 can be operated in either an unclassified or classified mode. When operating in the classified mode, it will be classified SECRET.

Device 2F158 is a simulator which is comprised of two separate enclosures, one replicates the cockpit of the SH-2G aircraft and the other replicates the Sensor Operator station (cabin) of the SH-2G. The two enclosures can operate in either integrated or independent mode. In integrated mode, the primary use will be to train aircrews in Anti-Submarine Warfare (ASW) procedures and tactics. In independent mode, the primary use will be to train Sensor Operators how to use the on-board acoustic processing equipment and training for pilots in emergency procedures and instrument flight rules (IFR).

PURPOSE OF DEVICE:

To provide realistic mission training for SH-2G aircrews, Pilot, ATO, and Sensor Operator.

INTENDED USE:

In environmentally-controlled spaces. Pilot/ATO trainees should

PHYSICAL INFORMATION:

The device is designed to be used at a land-based, permanent site. The minimum floor space which the device will occupy is approximately 800 sq. ft. There are eight major pieces of equipment: the Cockpit (86" high x 66" wide x 108" long, wt. - 4000 lbs.), the Sensor Operator Station (81" high x 66" wide x 72" long, wt. - 2550 lbs.), the Flight Instructor station and the Tactics Instructor station (both 50" high x 72" wide x 36" deep, wt. - 900 lbs. each), the Debrief Station and the Operator's Station (both 48" high x 52" wide x 32" deep, wt. 550 lbs. each), the Computational System (four racks, each 77" high x 24" wide x 32" deep, wt. 500 lbs. and a power distribution unit 76" high x 52" wide x 36" deep, wt. 2800 lbs.), and a Hydraulic Power Unit (HPU) (47" high x 44" wide x 56" deep, wt. 1100 lbs.)

OPERATIONAL EQUIPMENT:

ASN-150 Navigational Computer, Display Control, Indicator Control, and Multifunction Digital Display. UYS-503 Acoustic Processor. ALR-66 Display and Indicator Control.

EQUIPMENT REQUIRED: none.

POWER REQUIREMENTS:

42 KVA, 208 volt, three phase.

INSTALLATION REQUIREMENTS:

Computer raised floor of appx. 800 sq. ft. capable of supporting at least 3.44 lbs/in². Temperature controlled between 65-85 °F, humidity between 50-75%. Grounding grid under raised floor.

PUBLICATIONS FURNISHED:

Interim Support Items List, CDRL C001 (U)

Tools and Test Equipment List, CDRL C002 (U)

Provisioning Parts List, CDRL C003 (U)

Integrated Support Plan, CDRL D001 (U)

Maintenance Plan, CDRL D004 (U)

Operations and Maintenance Manual, CDRL E001 (U)

Planned Maintenance System Documentation, CDRL E003 (U)

Commercial Documentation and Vendor Manuals, CDRL E005 (U)

Instructor's Utilization Handbook, CDRL E006 (U)

PERSONNEL (ESTIMATED):

Instructors: two: one a qualified SH-2 pilot and the second a qualified SH-2 AW.

Operators: one: a person familiar with basic computer operations.

Trainees: three: pilot, ATO, sensor operator.

Observers: none necessary but facilities for two are provided.

Maintenance personnel: depends on extent of maintenance, but at least four recommended, one a supervisor/technician, one a software specialist, and two hardware (I/O boards, distributed processors, hard drives, wiring, etc.) specialists.

CONTRACT IDENTIFICATION:

Manufactured by Eyring Inc., Salt Lake City, Utah, under NAVTRASYSCEN Contract No. N61339-90-C-0008.

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