



AN/SQQ-89 ACOUSTIC OPERATOR TRAINER, DEVICE 14E35

TRAINING CATEGORY:

UNDERWATER SENSOR SYSTEM

ORIGINATING AGENCY:

CNET

SECURITY CLASSIFICATION:

Device 14E35 is Secret.

PURPOSE:

To provide initial and operator refresher training for Acoustic Sensor Operators.

INTENDED USE:

The device will be used at the U.S. Navy Fleet, San Diego, CA.

FUNCTIONAL DESCRIPTION:

The device consists of five (5) trainee stations, an instructor station, a computer system, and operational equipment. The device simulates the functions of the acoustic sensor systems

and mode assessment system as displayed and controlled by the AN/SQQ-89 Underwater Sensor System. The device will operate and provide all the functions available in the following five (5) modes:

- Mode 1 - AN/SQQ-89(V)1**
- Mode 2 - AN/SQQ-89(V)2**
- Mode 3 - AN/SQQ-28**
- Mode 4 - AN/SQR-19**
- Mode 5 - AN/SQS-53B**

The sensors are simulated for each of the sonar systems from the transducers to the input of the analyzer units and data processing systems. The device simulates the tactical environment which includes the ocean, atmosphere, own ship, helicopters, surface and subsurface vehicles, and false targets. Instructional aids are included to assist the instructor in the operation of the trainer and evaluation of the trainee's performance. The training problem will be completely controlled by two (2) instructors from the instructors station, or by a roving instructor. All motion and time integration may be stopped by the instructor.

DIRECTORY OF NAVAL TRAINING DEVICES

PHYSICAL INFORMATION:

Device 14E35 is a permanently installed trainer with over forty (40) major pieces. The largest piece is the computer complex with a base area of 8,459 Sq. inches and a weight of 6,300 lbs. The tallest unit is 80 inches.

POWER REQUIREMENTS:

Trainer Room: 208 VAC, 60 Hz, 125 KVA,
3-Phase, 3-Wire;
115 VAC, 400 Hz, 50 KVA,
3-Phase, 4-Wire

PUBLICATIONS FURNISHED:

1. Operation and Maintenance Instructions, NTSC P-6016(U) (Vols 1 - 6)
2. Commercial Computer Documentation Set, NTSC P-6017(U) (Vols 1 - 20)
3. Planned Maintenance System, NTSC P-6018(U)

PERSONNEL:

Grade Rank Rate	Desig/ NEC	SHIFT			All Shifts
		1 8 Hrs	2 8 Hrs	3 8 Hrs	

Instructor/Operator:

STG 1/2	04XX	3	3	0	6
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Supervisor/Administrator:

STGC	04XX	1	1	0	2
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Maintenance Trainer Unique Equipment:

STG 1/2	04XX	1	1	2	4
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Maintenance Operational Equipment:

STG 1/2	04XX	1	1	2	4
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CONTRACT IDENTIFICATION:

Manufactured by the Singer Company, Link Simulation Systems Division, Silver Spring, MD under NAVTRASYS-SCEN Contract No. N61339-85-C-0119.

LOCAL STOCK NUMBER:

6930-LL-C00-5967