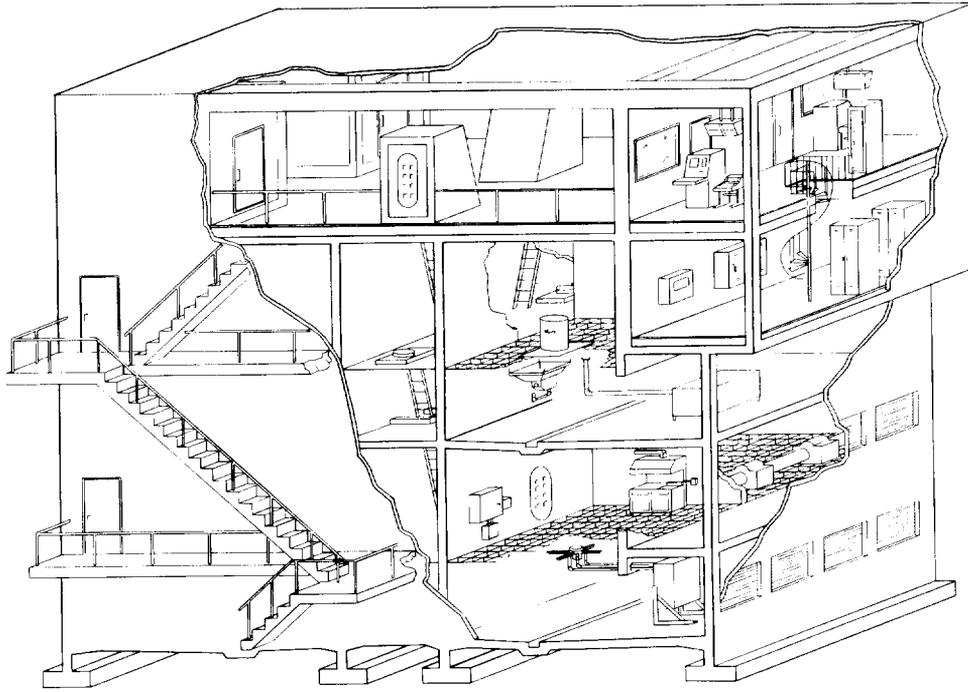


DIRECTORY OF NAVAL TRAINING DEVICES



FIRE FIGHTER TRAINER ADVANCED SHIPBOARD, DEVICE 19F1A

TRAINING CATEGORY:

PROPULSION ENGINEERING (Fire Fighting)

ORIGINATING AGENCY:

NAVSEA

SECURITY CLASSIFICATION:

Device 19F1A is unclassified.

PURPOSE:

To provide training in the extinguishment of Class A, B, and C shipboard fires.

INTENDED USE:

To train shipboard fire fighting teams.

FUNCTIONAL DESCRIPTION:

Device 19F1A is an advanced electro/mechanical system that simulates Class A, B, and C shipboard fires by using live, computer-controlled, propane-fueled fires.

The device is integrated into a specially designed compartmentalized building that contains simulated equipment and other structures typically found on-board Navy ships. These structures (called fireplaces) are situated in areas where fires can be expected to occur.

The fireplaces contain all the equipment necessary to generate fires that respond realistically and safely to trainee efforts to extinguish fire scenarios.

The fire parameters of flame growth, spread, extinguishment and reflash can be controlled by an instructor from an Instructor Operator Station (IOS). The control room contains two (2) IOS. Each IOS controls the fireplaces in its respective building half. Smoke can be generated to simulate the obscure conditions caused by smoke producing combustibles.

Communication between the instructor station and the training compartments is provided by a two-way sound powered telephone circuit. A 1MC broadcast capability is also provided.

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PHYSICAL INFORMATION:

	HT	DEPTH	WT
Sizes:			
Deep Fat/Stack Hood	108" x 38" x 60"		
Wire Bundle	57" x 20" x 138"		
Motor Generator	28.5" x 32" x 26"		
Trash Can	50" x 40" x 40"		
Clothes Dryer	78" x 32" x 48"		
Electrical Panel	66" x 13" x 50"		
Metal Locker	84" x 30" x 48"		
Bunk	78" x 30.5 x 67"		
Ventilation Duct	46" x 25" x 183"		
Radar Console	39" x 21" x 35"		
Primary Control Panel	14" x 12" x 12"		
Building Floor Display Panel	19" x 11" x 22"		
Compartment Control Assy	18" x 9" x 9"		
Electronic Enclosure Assy	48" x 16" x 36"		
Processor Rack	63" x 24" x 36"		
Smoke Generator	25" x 32" x 60"		
Multi-Element Burner Control	50" x 25" x 36"		
Single-Element Burner Control	32" x 17" x 40"		
Detector Assembly	24" x 24" x 14"		

Weights:

Deep Fat/Stack Hood	965 lbs.
Wire Bundle	150 lbs.
Motor Generator	350 lbs.
Trash Can	325 lbs.
Clothes Dryer	850 lbs.
Electrical Panel	375 lbs.
Metal Locker	380 lbs.
Bunk	580 lbs.
Ventilation Duct	850 lbs.
Radar Console	526 lbs.
Primary Control Panel	75 lbs.
Building Floor Display Panel	50 lbs.
Compartment Control Assembly	35 lbs.
Electronic Enclosure Assembly	350 lbs.
Processor Rack	480 lbs.
Smoke Generator	225 lbs.
Multi-Element Burner Control	450 lbs.
Single-Element Burner Control	215 lbs.
Detector Assembly	85 lbs.

EQUIPMENT REQUIRED (NOT SUPPLIED):

(30) Oxygen Breathing Apparatus (OBA)

POWER REQUIREMENTS:
Input Characteristics:

120/208V, 60 Hz, 3-Phase

Maximum Peak Power

62.1 KVA

Maximum Starting Power:

60 Amps per Phase, 3-Phase

PUBLICATIONS FURNISHED:

1. Technical Manual for Advanced Fire Fighter Trainer, Device 19F1A, NTSC P-5235 (U).
2. Planned Maintenance System (PMS) for Advanced Fire Fighter Trainer, Device 19F1A, NTSC P-5236 (U).
3. Technical Manual, Supplementary Data for Commercial Equipment, Device 19F1A, NTSC P-5235-S (U).

PERSONNEL:

- Instructor:** Four (4) E-6 or E-7 Boiler Technicians or Hull Technicians.
- Operator:** Two (2) E-6 or E-7 Boiler Technicians or Hull Technicians
- Trainees:** Thirty (30) Seamen Recruit to Commander (E-1 - O-5)
- Maintenance:** One (1) mid-level to journeyman electro-mechanical technician assisted by an E6 or E7 instructor/operator.

CONTRACT IDENTIFICATION:

Manufactured by Austin Electronics, Fair Lawn, NJ under NAVTRASYS-SCEN Contract No. N61339-85-C-0053.

LOCAL STOCK NUMBER:

6910-LL-C00-6144