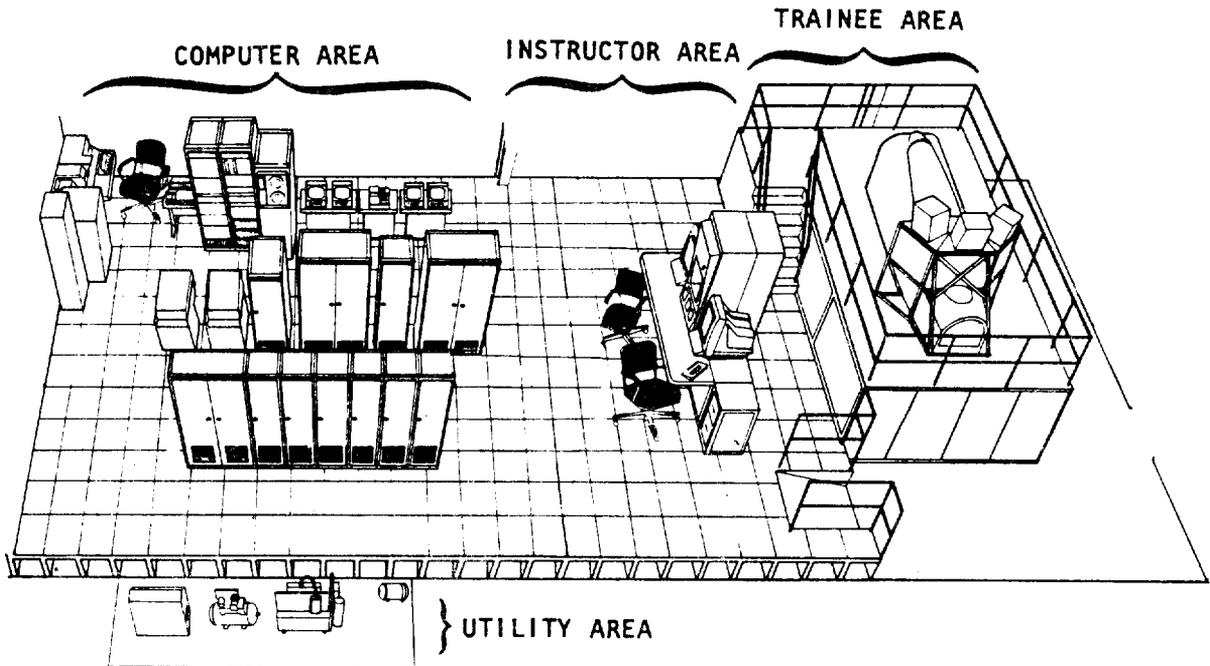


DIRECTORY OF NAVAL TRAINING DEVICES



F/A-18 OPERATIONAL FLIGHT TRAINER , DEVICE 2F132

TRAINING CATEGORY:

AVIATION (Operational Flight/Weapon Systems)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 2F132 is confidential when software is loaded.

PURPOSE:

To provide realistic operational flight proficiency training for pilots of the F/A-18 aircraft.

INTENDED USE:

For cockpit orientation, normal and emergency procedures training, dusk/night visual and instrument takeoff and landing from carrier or airfield, and limited air-to-ground weapons delivery.

FUNCTIONAL DESCRIPTION:

Device 2F132 is a computer-controlled trainer that faithfully simulates the operation and response of the F/A-18 aircraft flight controls, instruments, and systems, as well as its visual, aural, environmental, and motion sensations. The dusk/night visual display shows the surrounding carrier/airfield terrain throughout takeoff, maneuvers, and landing approach as a function of the aircraft attitude, altitude, and speed. Aural effects, such as engine turbine, engine nozzle, accessories, air conditioning turbine, and air flow also are simulated. An ejection seat shaker provides buffet simulation. A G-seat, used with a G-suit, provides motion cues. The trainer includes such automated instructional features as procedural sequence monitoring, preprogrammed insertion of malfunctions, dynamic replay, parameter recording, checkride and automission programs, and demonstration flights. The trainer also can provide hard copy printouts for evaluating trainee performance.

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PHYSICAL INFORMATION:

Number of Pieces: 39, consisting of Units 1 thru 42 (minus 6, 10 and 12) for the Trainee, Instructor, Computer, and Utility Areas.

Size and Weight: The Trainee and Instructor areas require a space of 33' x 31', the Computer area requires 29' x 31', and the Utility area requires 6' x 21'. The total weight of the equipment is 20,864 lbs.

OPERATIONAL EQUIPMENT:

The following Unmodified Operational Equipment is used in the trainer:

QTY	NOMENCLATURE
1	Up Front Control (UFC)
1	Master Monitor Display (MMD)
1	Head Up Display (HUD) with Controls
1	Multifunction Display (MFD)
1	Horizontal Situation Display (HSD)
1	Flight Control Stick with HOTAS controls
1	Throttles with HOTAS controls
1	Digital Engine Monitor Display
1	Fuel Quantity Indicator
2	Flight Control Computers (FCC)
2	Mission Computers (AN/AYK-14)
1	FCC Control Panel

EQUIPMENT REQUIRED (NOT SUPPLIED):

Except for special tools and test equipment for maintenance, all equipment required for operation of the Trainer is supplied.

POWER REQUIREMENTS:

Computer/Trainee Area: 120/208 VAC, 60 Hz, 3-Phase, 60 KVA

Utility Area: 227/480 VAC, 60 Hz, 3-Phase, 30 KVA

PUBLICATIONS FURNISHED:

1. Operations and Maintenance Instructions Manual (U) P-4739
2. Parts Catalog (U) P-4740
3. Commercial Computer Documentation Set (U) P-4741
4. Planned Maintenance System (U) P-4742
5. F/A-18 Instructor Utilization Handbook (U) P-4760

PERSONNEL:

Instructor Pilot, Pilot Trainee, Device Operator, and the following TD Technicians:

One (1) E6

Two (2) E5,

Three (3) E4

CONTRACT IDENTIFICATION:

Manufactured by SSM-SECOR, Fairfax, VA, under NAVTRASYS-SCEN Contract No. N61339-79-C-0144.

LOCAL STOCK NUMBER:

6930-LL-C00-5211