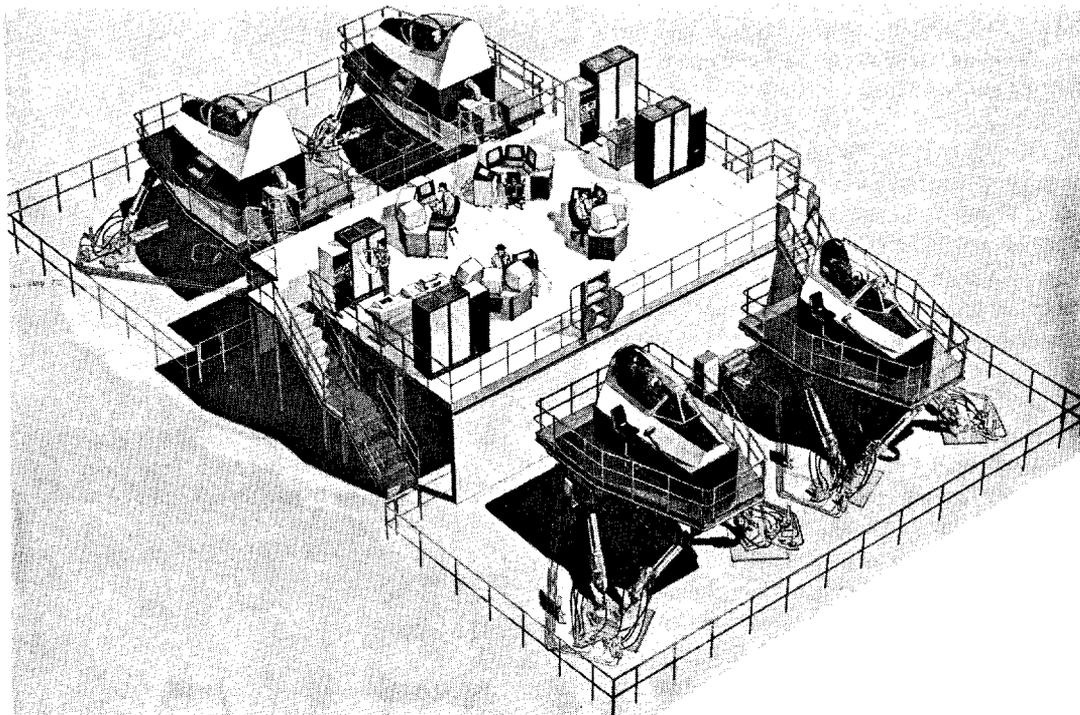


DIRECTORY OF NAVAL TRAINING DEVICES



T-2C AIRCRAFT OPERATIONAL FLIGHT TRAINER, DEVICE 2F101

TRAINING CATEGORY:

AVIATION (Operational Flight/Weapon System)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 2F101 is unclassified.

INTENDED USE:

To train student pilots in a classroom trainer to successfully operate the T-2B/C aircraft during various phases of flight. Provides familiarization in aircraft control, shore-based and carrier-based procedures, normal and emergency navigational and instrument flight procedures, limited mission execution, and ground operation procedures for the T-2B/C aircraft.

FUNCTIONAL DESCRIPTION:

Device 2F101 is an operational flight trainer consisting of four (4) identical but independently operated cockpits and instructor stations and their related equipment. These are activated simultaneously by one centralized, general purpose, digital computer system. The cockpits, replicas of the T-2C forward cockpit, and their associated motion assemblies are located along two sides of a rectangular, elevated platform. The respective control consoles, plotting equipment, the digital computer, and the remainder of equipment are located on the platform, with all interconnecting cabling and hydraulic motion system plumbing routed under the platform. Aircraft performance is simulated through aural, visual, and motion cues.

At the instructor console panels, the controls, indicators, and the trainee monitor display allow the instructor to initiate, control, monitor, and insert malfunctions into the training problem. These functions permit the instructor to fit the problem to skill level of the student. Instructional

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aids include a X-Y plotter with en route and approach capabilities, strip recorders that plot up to six (6) flight parameters.

The instructor maintains control of the problem via an alpha-numeric keyboard on his control console. The instructor console also contains a built-in projector. Slides are selected manually or automatically and projected onto the trainee monitor display screen. In the automatic mode, the computer controls the selection of the slides.

In addition to normal OFT free-flight capabilities, the device includes ten (10) demonstration maneuvers (with the primary flight controls under computer control to permit the trainee to feel the execution of a maneuver) and ten (10) preprogrammed profile missions. A set of preprogrammed initial conditions is also provided, depicting peculiar attitudes from which the student must recover in a prescribed manner. All trainee stations can be operated on a common mission or individually in the various flight possibilities.

PHYSICAL INFORMATION:

The device is fixed base and located in an environmental controlled trainer facility building. It is modular in design to permit entry through a 6' Wide by 9' High doorway. Average floor loading is 300 lb/Sq. Ft maximum local load 50 lb/Sq. Ft.

ENVIRONMENTAL CHARACTERISTICS

Air Conditioning:	14,000 btu/hr
Operating Temperature	Range: 60° F to 100° F
Relative Humidity:	Up to 70%.

INSTALLATION AREA:

60' by 60' by 20'.

POWER REQUIREMENTS:

208 VAC, 60 Hz, 3-phase, 4-wire, 90 KVA.

PUBLICATIONS FURNISHED:

1. Maintenance Handbook with Parts List
2. Utilization Handbook
3. Computer Maintenance Manual
4. Programming Manuals
5. Planned Maintenance System Publication (PMS)

PERSONNEL:

Device Operator: Four (4)

Instructor: Four (4)
(The instructor may perform the duties of the device operator, thereby deleting that requirement.)

Trainee: Four (4)

Maintenance: Four (4) technicians, two (2) shifts (480-man hours for a 40-hour utilization week).

CONTRACT IDENTIFICATION:

Manufactured by the Singer Co., Binghamton, NY under NAVTRASYSCEN Contract No. N61339-72-C-0178.

LOCAL STOCK NUMBER:

6930-LL-C00-1485