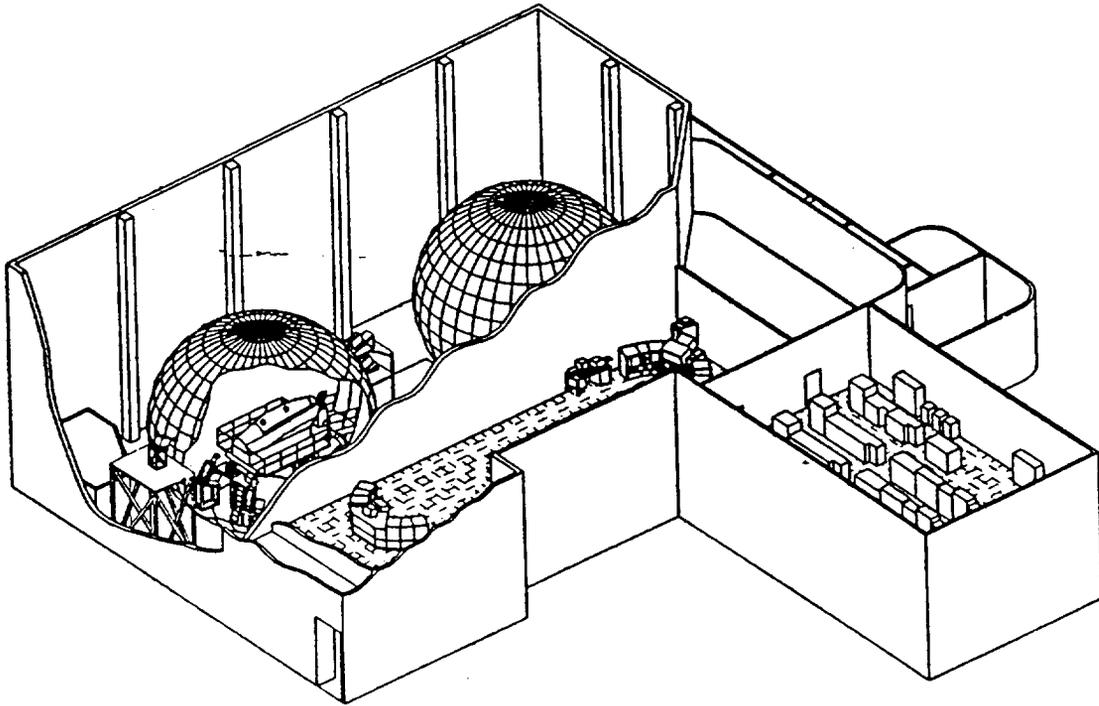


SUMMARY OF  
F-14D WEAPONS SYSTEM TRAINER (WST)

SEPTEMBER 1992  
NAVAL TRAINING SYSTEMS CENTER

DEVICE 2F154  
ORLANDO, FLORIDA



TRAINING CATEGORY:

Aviation

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION OF DEVICE:

Device 2F154 is unclassified.

Operational software is classified  
Secret.

PURPOSE OF DEVICE:

Provide flight operations training, weapons system training, and air combat maneuvering for the Pilot and Radar Intercept Officer (RIO) of F-14D aircraft.

INTENDED USE:

The WST is used to train and enhance the skills of the aircrew in all modes of aircraft operation which include: takeoff and landing techniques from carrier and shorebase fields, normal and emergency flight operations, instrument flight procedures, all-weather

operations, weapon systems/sensor operations, and air combat maneuvering. The WST provides independent training missions and also provides integrated tactical training in a common environment through a Tactical Environment System.

FUNCTIONAL DESCRIPTION:

Device 2F154 is a two dome trainer which includes: two trainee stations that simulate the cockpits of F-14D aircraft, two instructor operator stations (IOS) that control and monitor all aspects of mission training, a computer room to house general purpose computers and support electronics, a debrief area, and two utility rooms for the hydraulic and pneumatic power units.

The two IOS provide the capability to select, initiate, and record the training mission of the two trainee stations, and to monitor and evaluate trainee performance.

Training is provided through real-time interaction with simulated aircraft systems to simulate all aircraft operations from preflight through shutdown and includes air combat maneuvering throughout the F-14D aircraft flight envelope in a total

weapons system/electronic warfare environment.

PHYSICAL INFORMATION:

Device Weight - Estimated: 40,000 lbs.

Trainer Room - 43 feet high x 60 feet wide x 120 feet long.

Instructor Station Room - 10 feet high x 30 feet wide x 60 feet long.

Computer Room - 10 feet high x 38 feet wide x 55 feet long.

Utility Room (two each) - 10 feet high x 12 feet wide x 15 feet long.

Debrief Room - 10 feet high x 20 feet wide x 30 feet long.

EQUIPMENT REQUIRED (NOT SUPPLIED):

None

POWER REQUIREMENTS:

480VAC, 3 PH, 4-Wire, 60 HZ, 427 KVA

INSTALLATION REQUIREMENTS:

Floor Loading - No special footing or foundation required.

Air Conditioning - Estimated: 1014 KBTU/hr.

Environmental Characteristics - 70°F ± 10°F, 50% ± 10% humidity.

PUBLICATIONS FURNISHED:

Operation and Maintenance Instructions, NAS Miramar F-14D, NTSC P-6650 (U)

Sequence Control Chart, NAS Miramar F-14D, NTSC P-6651-1 (U)

Maintenance Requirement Cards, NAS Miramar F-14D, NTSC P-6651-2 (U)

Operation and Maintenance Instructions, F-14D WST, Device 2F154, NTSC P-6678 (U), 44 Volumes

Off-Equipment Manuals, F-14D WST, Device 2F154, NTSC P-6678 (U), 118 Volumes

Sequence Control Chart, F-14D WST, Device 2F154, NTSC P-6679-1 (U)

Maintenance Requirement Cards, F-14D WST, Device 2F154, NTSC P-6679-2 (U)

Commercial Data Package, F-14D WST, Device 2F154, NTSC P-6865 (U), 377 Volumes

Instructors Utilization Handbook, F-14D WST, Device 2F154, NTSC P-6680 (U)

Pocket Checklist, F-14D WST, Device 2F154, NTSC P-6693 (U)

Operation and Maintenance Instructions, Debrief, NTSC P-6714 (U), 12 Volumes

Off-Equipment Manuals, Debrief, NTSC P-6614-S (U), 13 Volumes

Sequence Control Chart, Debrief, NTSC P-6715-1 (U)

Maintenance Requirement Cards, Debrief, NTSC P-6715-2 (U)

Instructors Utilization Handbook, Debrief, NTSC P-6716 (U)

Pocket Checklist, Debrief, NTSC P-6717 (U)

PERSONNEL:

Instructors: One F-14D Pilot and one F-14D RIO qualified as Device 2F154 Instructor/Operators for each of the two IOS.

Trainees: One F-14 pilot and one F-14 RIO for each of the two Trainee Stations.

Maintenance: Staffed with Contractor Operation and Maintenance Support (COMS) personnel.

CONTRACT IDENTIFICATION:

Manufactured by McDonnell Douglas Training Systems, St. Louis, MO. by subcontract to Grumman under NAVTRASYSCEN Contract No. N61339-86-C-0164

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