

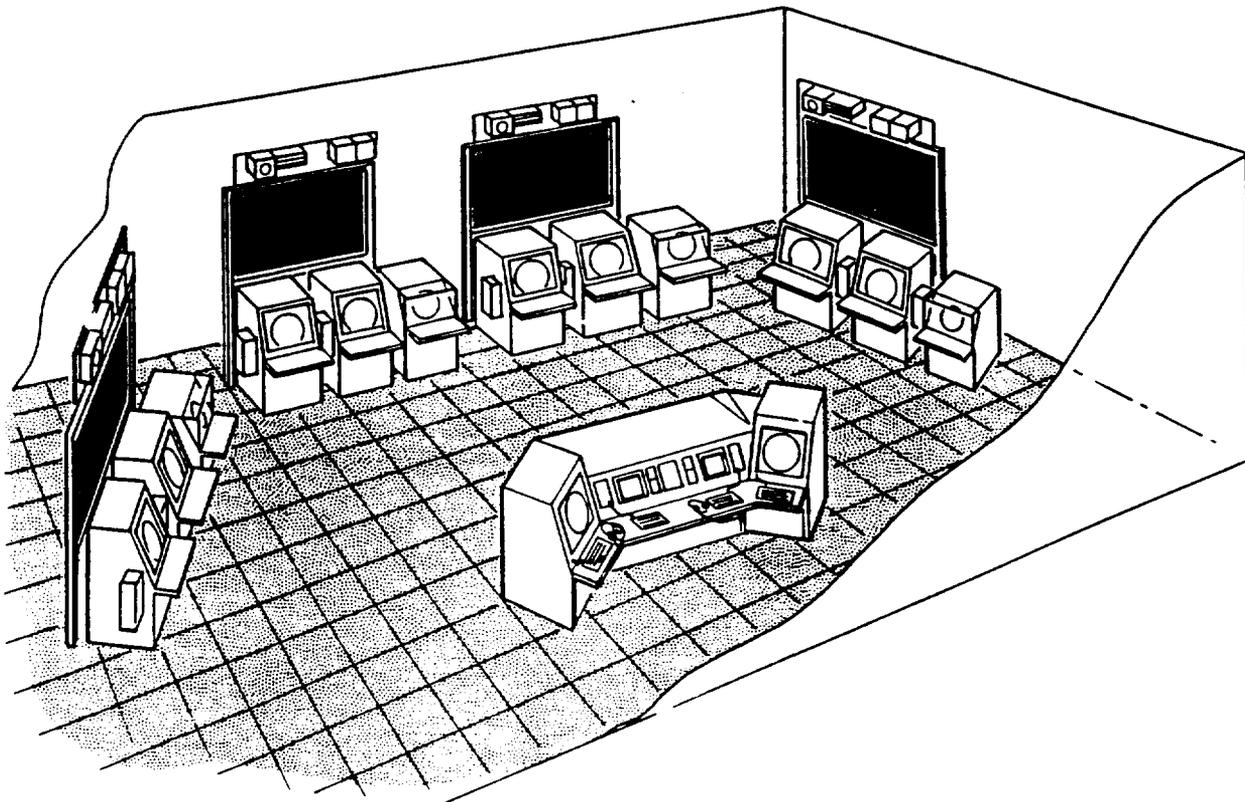
SUMMARY OF
SHORE BASED AIR TRAFFIC CONTROL TRAINING SYSTEM

January 1992

Device 15G31

NAVAL TRAINING SYSTEMS CENTER

ORLANDO, FLORIDA



TRAINING CATEGORY:

Air Traffic Control (Radar)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION OF DEVICE:

Device 15G31 is unclassified.

PURPOSE OF DEVICE:

To provide realistic training and practice in control of air traffic in the environment surrounding a Naval Air Station Radar Air Traffic Control Facility (RATCF).

INTENDED USE:

In Air Traffic Controller schools for classroom and laboratory training of enlisted Navy and Marine Corps air traffic controllers with varying degrees of proficiency in controlling air traffic.

FUNCTIONAL DESCRIPTION:

The RATCF Laboratory is a computer driven Radar Air Traffic Control Facility trainer that simulates shore based air search and ATC radar systems. The trainer provides advanced training for ARRIVAL, APPROACH and PRECISION RADAR FINAL APPROACH air traffic

activities.

The trainer is comprised of simulated radars, student consoles, monitoring and communication equipment and features an automated voice recognition/synthesizer sub-system to enable direct student interaction with simulated pilots. An Instructor Operation Station provides for lesson scenario selection, lesson review and student monitoring/intervention.

The trainer provides for ATC surveillance over an area of 512 square miles and altitudes between zero and 50,000 feet with weather, wind and land mass variations selectable at each trainee radar site.

The laboratory consists of four radar sites, an instructor's console and a host computer. Each radar site consists of two 23 inch Airport Surveillance Radar (ASR) display consoles (OD-152) and one 12 inch Precision Approach Radar (PAR) display console (OJ-333). The automated voice sub-system is housed within the instructor's console. The communication equipment is a set of fourteen OJ-314 communication panels networked to provide voice communications between the instructor's console and each of the student consoles.

PHYSICAL INFORMATION:

Number of pieces: 28 units
Sizes: (8) OD-152 - 52" high x 52" deep x 30" wide
(4) OJ-333 - 47" high x 49" deep x 24" wide
(14) OJ-314 - 8.5" high x 15.5" deep x 17.5" wide
(1) IOS Center - 47" high x 39" deep x 48" wide
Extension - 47" high x 39" deep x 25" wide
Left ASR - 60" high x 56" deep x 30" wide
Right ASR - 60" high x 56" deep x 30" wide
(1) Host Computer - 70" high

x 32" deep x 24" wide
Weight: OD-152 - 400 pounds
OJ-333 - 300 pounds
OJ-314 - 15 pounds
IOS Center and Extension-
800 pounds
Left ASR - 300 pounds
Right ASR - 400 pounds
Host Computer - 600 pounds
Total System (excluding
cables) - 11,310
pounds

EQUIPMENT REQUIRED (NOT SUPPLIED)

POWER REQUIREMENTS:

120/208 Vac 3 phase, 60 Hz,
160 amp capacity

PUBLICATIONS FURNISHED:

Operation and Maintenance
Manual with Parts List, NTSC
P-6177
PMS Documentation, NTSC
P-6178
Commercial Computer Document-
ation Set, NTSC P-6179
Life Cycle Software Environment
Users Guide, NTSC P-6180
Instructor's Utilization Hand
book - NTSC P-6181
On-The-Job Training Handbook,
NTSC P-6182

PERSONNEL:

Instructor: One Chief or 1st class
PO, qualified to teach RATCF.

Trainees: Class of up to 24

Maintenance: One Electronics
Technician

CONTRACT IDENTIFICATION:

Manufactured by Logicon, Inc. San
Diego, CA, under NTSC Contract No.
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