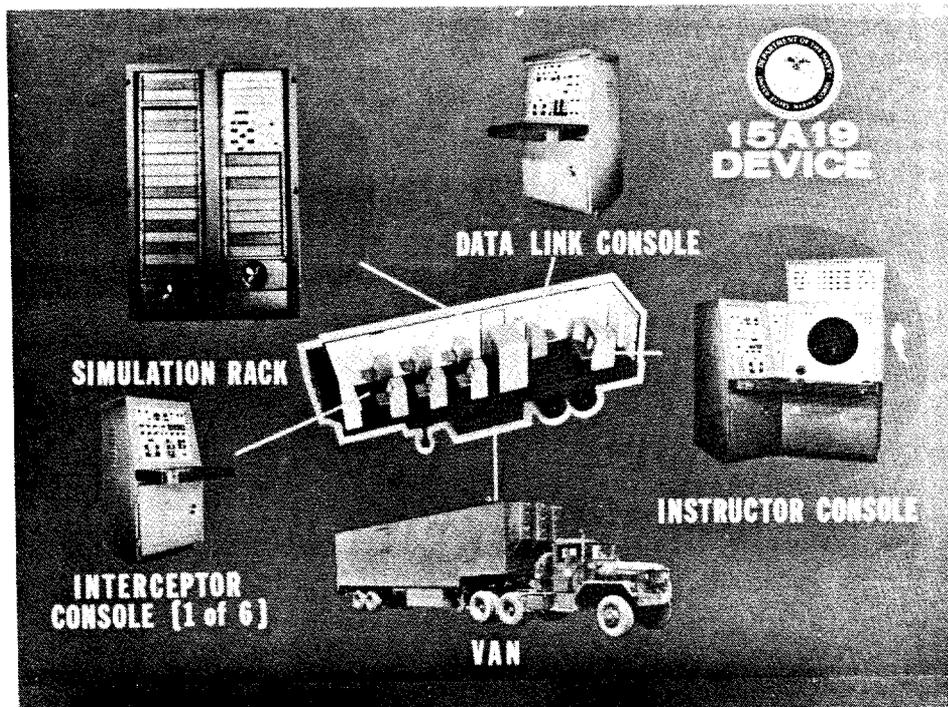


DIRECTORY OF NAVAL TRAINING DEVICES



TAOC, TACTICAL AIR OPERATIONS CENTRAL, TRAINER VAN, DEVICE 15A19

TRAINING CATEGORY:

RADAR (Air Search)

ORIGINATING AGENCY:

DCNO/AIR; MARCORPS

SECURITY CLASSIFICATION:

Device 15A19 is unclassified.

INTENDED USE:

To provide simulated tactical conditions and environments for Marine Corps TAOC (Tactical Air Operations Central).

To provide realistic training for radar operators and weapons controllers within a TAOC in threat evaluation, weapon assignment and control, and air traffic control by means of displays and data readouts supplied to the TAOC.

FUNCTIONAL DESCRIPTION:

The MTDS (Marine Tactical Data System) trainer, Device 15A19 is a transportable, van-mounted training device. The device consists of one (1) instructor console, six (6) interceptor consoles, missile battery data link console, and a simulation rack. The instructor console contains controls, indicators, a voice communications system, and a CRT display which permits the instructor to control and monitor the training exercise, modify selected parameters, control and coordinate the exercise through voice communications with other instructors in the TAOC operator huts, the missile battery/data link console, and with the interceptor console operators. The six (6) interceptor consoles are used to control (fly) the twelve (12) controllable interceptors and to provide the interceptor console operator with readouts and controls which an interceptor pilot normally would require when under assignment to a TAOC. The simulation rack contains the input/output processor, simulation memory, simulation processor, effects generator, and a digital landmass simulator.

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The CP-808 generator-purpose digital computer, operating under control of the main trainer program, provides control of the operation of the trainer in performing computations required for target maneuvering, interceptor control and status, bogie maneuvering, generation of radar reports, effects of ECM and processing associated with data link communications between ground to air, four (4) Hawk missile batteries, and two (2) other simulated TAOC'S.

PHYSICAL INFORMATION:

All components of the device are mounted in a 40' trailer.

ENVIRONMENTAL CHARACTERISTICS:

Device 15A19 will operate under world-wide climatic and service conditions in rapidly changing tactical situations.

EQUIPMENT REQUIRED (NOT SUPPLIED):

1. One (1) Digital Computer, CP-808/TYK
2. One (1) Output Printer
3. One (1) Paper Tape Reader Punch
4. Eight (8) Interface Cables

POWER REQUIREMENTS:

120/208 VAC, 3-Phase, 4-Wire, 400 Hz.

PUBLICATIONS FURNISHED:

1. Maintenance Handbook, NAVTRADEV P-3654 (U)
2. Operator's Guide NAVTRADEV P-3655 (U)
3. Programming Manual, NAVTRADEV P-3656 (U)
4. Utilization Handbook, NAVTRADEV P-3775 (U)

PERSONNEL (ESTIMATED):

Instructor: One (1) Training Leader

Operators: Up to Twelve (12), one (1) Interceptor; and one (1) for MB/IDL.

Assistant Instructors: Up to Five (5)

Trainees: Class of up to Fifteen (15)

RELATED TRAINING DEVICES:

Similar to Device X15A19 which is designed for classroom installation.

CONTRACT IDENTIFICATION:

Manufactured by GTE Sylvania Inc., Electronic Systems Group-Eastern Div., Needham Heights, MA under NAVTRASYS-SCEN Contract No. N61339-70-C-0105.

LOCAL STOCK NUMBER:

6930-LL-C00-1021