NO ILLUSTRATION AVAILABLE

P-3C AIRCRAFT COCKPIT PROCEDURES TRAINER, DEVICE 2C41

TRAINING CATEGORY:

AVIATION (Cockpit Checkout Procedures)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 2C41 is unclassified.

INTENDED USE:

The P-3C Aircraft Cockpit Procedures Trainer is used for training flight and maintenance personnel in cockpit familiarization and starting, normal, emergency and ground/air procedures for the Navy P-3C aircraft.

FUNCTIONAL DESCRIPTION:

Device 2C41 is a portable ground based trainer consisting of the following major components: Trainee Station, Instructor Station and Computing Equipment.

The Trainee Station shall be a replica of the cockpit of the design basis aircraft. All instruments, indicators, gauges, controls, lights, panels, consoles, circuit-breakers, switches, markings, seats and other equipment and furnishings found in the cockpit shall be included in the trainer, either as actual aircraft parts or simulated aircraft instruments and parts and located in the same position as in the design basis aircraft. Sunvisors, sunvisor rail and windshield wipers shall not be provided.

The Instructor Station is located to allow the instructor over-the-shoulder monitoring of trainee actions and communicating with trainee while operating the station. The instructor station shall consist of a console, which includes a CRT display system for controlling the training situation and the failures, malfunctions, emergencies and other controls and indicators necessary to control the training station. All components of the instructor station shall be out of the normal line of sight of the trainees occupying their normal positions.

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The Computing Equipment is a digital computer system the same as used on Device 2F87 (F). The computer system is scaled down to reflect the reduced capacity required for Device 2C41. The system shall consist of one or more general purpose digital computer(s) or a multiprocessor configuration, interface equipment, peripheral equipment, and all software required to operate as a completely integrated system. Output data from the computer system shall activate and control all displays and other equipment as required with a minimum of conversion of transfer devices. The digital computer system shall provide simultaneous computation for and control of the trainer and instructor stations.

PHYSICAL INFORMATION:

The equipment is designed to be housed in a facility with maximum device room size of 34' x 30' x 10' high exclusive of raised flooring

All equipment shall be capable of passage through a 166" W x 108" H door opening.

ENVIRONMENTAL CHARACTERISTICS:

The equipment has a maximum heat output of 100,000 BTU/hr. It operates at a temperature of 78° ± 5° summer and 68° ± 5° winter. Humidity range is 55% ± 10%.

POWER REQUIREMENTS:

The equipment is designed to utilize a maximum of 30 KVA, 115/208 VAC, 3 phase, 4 wire, 60 Hz power.

CONTRACT IDENTIFICATION:

Manufactured by the Singer Company, Binghamton, NY under NAVTRASYSCEN Contract No. N61339-79-C-0154.

LOCAL STOCK NUMBER:

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