

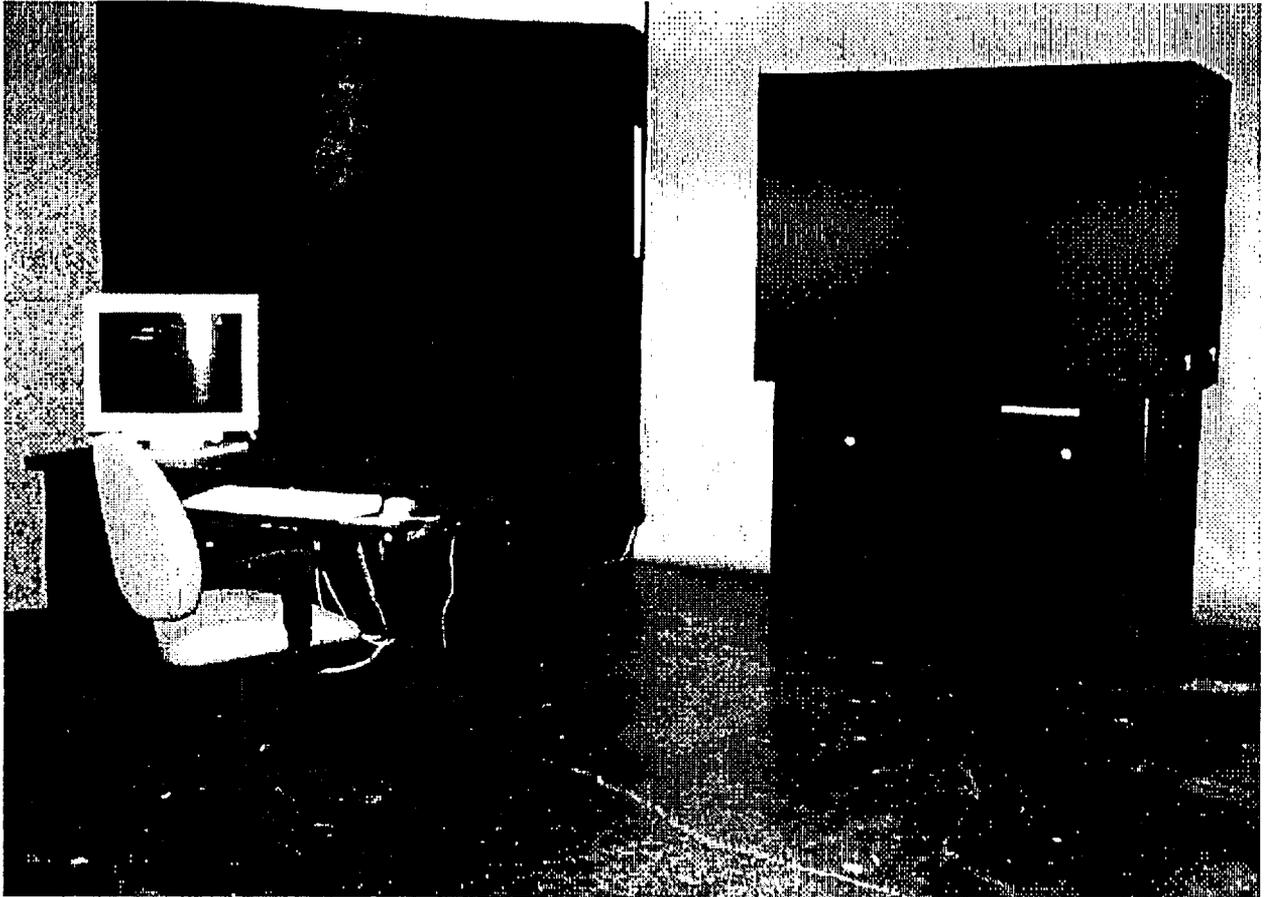
SUMMARY OF
EJECTION SEQUENCE INTERACTIVE GRAPHICS TRAINER

APRIL 1998

Device 11H143

NAVAL AIR WARFARE CENTER TRAINING SYSTEMS DIVISION

ORLANDO, FLORIDA



TRAINING CATEGORY:

"A" School Maintenance Trainer

ORIGINATING AGENCY:

CNO/AIR

SECURITY CLASSIFICATION OF DEVICE:

Device 11H143 is unclassified.

PURPOSE OF DEVICE:

To provide initial training of Aviation Mechanic Equipment Technicians on the operation and components associated with a Martin-Baker SJU-5/6 ejection seat.

INTENDED USE:

Device 11H143 is used in a classroom environment to demonstrate the modes of operation of ejection seats, including the systems and components involved in proper operation.

FUNCTIONAL DESCRIPTION:

Device 11H143 is a computer-based classroom graphics trainer. Its purpose is to train maintenance personnel on the components and operation of the F-18 canopy system.

Device 11H143 consists of an instructor station and an 60" rear projection video screen as its main components. The instructor station contains a 90 Mhz Pentium-based personal computer used to run the software that is projected onto the screen. Also contained within the instructor station are a video splitter, surge protector, keyboard and mouse. The video splitter allows the computer generated graphics to be displayed on the screen and the instructor's monitor. The surge protector prevents power spikes in the main power input from damaging the trainer equipment.

The trainer configuration provides the instructor with the ability to display canopy system components and explain the functions in a classroom environment. The instructor can also demonstrate the ejection sequence and show how the individual components work in unison during an ejection of an SJU5/6 seat from an F-18 aircraft.

PHYSICAL INFORMATION:

Training Device 11H143 is 5' feet wide, variable in length and 7.5' high. Estimated weight of the trainer is 750 lbs.

EQUIPMENT REQUIRED (Not Supplied):

None.

POWER REQUIREMENTS:

Frequency--60Hz
Phase--Single phase
Current--Max. 10 Amp, Operational 6 Amp
KVA--Max. 1.5 KVA, Operational .69 KVA
Existing Facility Power--115 VAC @15 Amps
Facility Power--115 VAC @15 Amps
Line Voltage Tolerances--115 VAC +/- 10 volts

PUBLICATIONS FURNISHED:

Training System Utilization Handbook,
Publication No. NAWCTSD P-7280 (U)

Operation and Maintenance Manual, Technical
ML W/Parts Catalog, Publication No.
NAWCTSD P-7277 (U)

Commercial Off-The-Shelf Manuals CCDS and
Vendor Equipment Manuals, Publication No.
NAWCTSD P-7279 (U)

PERSONNEL:

Instructor - One instructor/operator qualified in the maintenance and operation of ejection sequence interactive graphics trainers.

Trainees - Up to twenty students.

Maintenance Men - One man qualified to perform repair, as required.

CONTRACT IDENTIFICATION:

Manufactured by USM, Inc.,
Houston, Texas under:
NAVAIRWARCENTRASYS DIV
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