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Subj: AN/USM-429 (V) 1, COMPUTERIZED AUTOMATIC TESTER CATIID (V) 1,  
NAVY TRAINING SYSTEMS PLAN (NTSP), N88-NTSP-A-50-8709B/A

Ref: (a) OPNAVINST 1500.76

1. Subject NTSP is approved and forwarded per reference (a).
2. Subsequent NTSP review will examine both the effectiveness and efficiency of training outlined in this document.
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FKR7C (NATSF)  
FT1 (CNET) (Code T2514)  
FT2 (CNATRA)  
FT13 (NATTC) Pensacola (Codes 301, (2) 302 (2), 303 (2))  
FT78 (NETPDTIC)

V3 (COMCABEAST Cherry Point, COMCABWEST Miramar)  
V12 (CG MCCDC) Quantico VA (C461A)

**APPROVED**

**NAVY TRAINING SYSTEM PLAN**

**FOR THE**

**AN/USM-429(V)1**

**COMPUTERIZED AUTOMATIC TESTER**

**CAT-IIID(V)1**

**N88-NTSP-A-50-8709B/A**

**MAY 1999**

**AN/USM-429(V)1 COMPUTERIZED AUTOMATIC TESTER**

**CAT-IIID(V)1**

**EXECUTIVE SUMMARY**

The AN/USM-429(V)1 Computerized Automatic Tester (CAT)-IIID(V)1 is an intermediate and depot level automatic test set used in testing Shop Replaceable Assemblies (SRA) of aircraft avionics systems. The CAT-IIID(V)1 test station provides rapid, computer directed testing of SRAs from avionics systems on the C-2A, E-2C, EA-6B, F-14A/D, S-3B, and A-7E (Foreign Military Sales only) aircraft. In addition, the CAT-IIID(V)1 tests SRAs from the AN/USM-247 Versatile Avionics Shop Test (VAST), AN/AYK-14(V) Airborne Computer Group, AN/USM-467 Radar Communications (RADCOM) Test Station, and AN/USM-484 Hybrid Test Set. The CAT-IIID(V)1 is a mature system no longer in production, and is in the Production, Deployment, and Operational Support phase of the Weapon System Acquisition Process. It will eventually be replaced by the AN/USM-636(V) Consolidated Automated Support System. Phase out of the CAT-IIID(V)1 is planned to begin in Fiscal Year 2007.

The CAT-IIID(V)1 is operated and maintained at Navy Aircraft Intermediate Maintenance Departments, Marine Corps Marine Aircraft Logistics Squadrons, and depot level maintenance activities. To maintain the CAT-IIID(V)1 in an operational status, intermediate level maintenance personnel perform organizational level maintenance (on-equipment) and intermediate level maintenance (off-equipment), including identification and replacement of faulty SRAs within the test set. Depot level maintenance consists of repair, calibration, and overhaul of faulty SRAs by the contractor, Grumman Aerospace Corporation.

The manpower needed to support the CAT-IIID(V)1 is based upon the number of stations and maintenance requirements per site. Navy personnel from the Aviation Electronics Technician rating with Navy Enlisted Classification 6686, AN/USM-429 CAT-IIID(V)1 Maintenance Technician, and Marine Corps personnel with the Military Occupational Specialty 6484, Aircraft Electronic Countermeasures Systems/RADCOM/CAT-IIID Technician, operate and maintain this test station.

Initial training for the CAT-IIID(V)1 was conducted by the contractor and completed in June 1984. Follow-on training is currently conducted at Maintenance Training Unit (MTU) 3010, Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Oceana, Virginia, and MTU 3011, NAMTRAGRU DET Miramar, California. CAT-IIID pipeline training is provided through the training track D/E-198-6005.

AN/USM-429(V)1 COMPUTERIZED AUTOMATIC TESTER

CAT-IIID(V)1

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**AN/USM-429(V)1 COMPUTERIZED AUTOMATIC TESTER**

**CAT-IIID(V)1**

**LIST OF ACRONYMS**

AATG	Analog Augmentation Test Group
ACDU	Active Duty
AIMD	Aircraft Intermediate Maintenance Department
ALCON	All Concerned
AMIST	Aviation Maintenance In-Service Training
AMTCS	Aviation Maintenance Training Continuum System
AOB	Average on Board
AT	Aviation Electronics Technician
ATIR	Annual Training Input Requirements
ATLAS	Abbreviated Test Language for All Systems
BB	Building Block
CASS	Consolidated Automated Support System
CAT	Computerized Automatic Tester
CBT	Computer-Based Training
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, Atlantic Fleet
CINCPACFLT	Commander in Chief, Pacific Fleet
CMC	Commandant of the Marine Corps
CMS	Contract Maintenance Service
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
CV	Aircraft Carrier
CVN	Aircraft Carrier Nuclear
ECP	Engineering Change Proposal
FMS	Foreign Military Sales
FY	Fiscal Year
HARM	Highspeed Anti-Radiation Missile
HTS	Hybrid Test Set
ILS	Instrument Landing System

AN/USM-429(V)1 COMPUTERIZED AUTOMATIC TESTER

CAT-IIID(V)1

LIST OF ACRONYMS

IMA	Intermediate Maintenance Activity
MALS	Marine Aviation Logistics Squadron
MAM	Maintenance Assist Module
MATMEP	Maintenance Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MOS	Military Occupational Specialty
MPT	Manpower, Personnel, and Training
MRC	Maintenance Requirements Card
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit
NA	Not Applicable
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NATEC	Naval Air Technical Data and Engineering Service Center
NAVAIRSYSCOM	Naval Air Systems Command
NAVAVNDEPOT	Naval Aviation Depot
NAVPERSCOM / NPC	Navy Personnel Command
NEC	Navy Enlisted Classification
NTP	Navy Training Plan
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	OPNAV Instruction
OPO	Office of the Chief of Naval Operations Principal Official
PDA	Principal Development Activity
PMA	Program Manager, Air
RADCOM	Radar Communications
RFT	Ready For Training

**AN/USM-429(V)1 COMPUTERIZED AUTOMATIC TESTER**

**CAT-IIID(V)1**

**LIST OF ACRONYMS**

SRA	Shop Replaceable Assembly
TAR	Training and Administrative Reserve
TD	Training Device
TECHEVAL	Technical Evaluation
TFS	Total Force Structure
TPS	Test Program Set
TSA	Training Support Agency
TTE	Technical Training Equipment
VAST	Versatile Avionics Shop Test
WRA	Weapon Replaceable Assembly

**AN/USM-429(V)1 COMPUTERIZED AUTOMATIC TESTER**

**CAT-IIID(V)1**

**PREFACE**

This Approved AN/USM-429(V)1 CAT-IIID(V)1 Navy Training System Plan (NTSP), an update of the Proposed NTSP dated January 1998, reflects the latest information on the CAT-IIID(V)1 program and has been updated to comply with guidelines set forth in the Navy Training Requirements Documentation Manual. Specifically, this includes additional Foreign Military Sales, the most recent information on Engineering Change Proposals, current site schedule, and updated program documentation.

**PART I - TECHNICAL PROGRAM DATA**

**A. TITLE-NOMENCLATURE-PROGRAM**

- 1. Nomenclature-Title-Acronym.** AN/USM-429(V)1 Computerized Automatic Tester (CAT) - IIID(V)1
- 2. Program Element.** 24161N

**B. SECURITY CLASSIFICATION**

- 1. System Characteristics** ..... Unclassified
- 2. Capabilities** ..... Unclassified
- 3. Functions**..... Unclassified

**C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS**

- OPNAV Principal Official (OPO) Program Sponsor..... CNO (N881B)
- OPO Resource Sponsor ..... CNO (N881B)
- Marine Corps Program Sponsor..... CMC (ASL-34)
- Developing Agency..... NAVAIRSYSCOM (PMA260)
- Training Agency ..... CINCLANTFLT  
CINCPACFLT  
CNET  
CMC
- Training Support Agency..... NAVAIRSYSCOM (PMA205)
- Manpower and Personnel Mission Sponsor ..... CNO (N1)
- Director of Naval Training ..... CNO (N7)
- Chief of Naval Personnel..... NAVPERSCOM (NPC-4B, NPC-404)
- Marine Corps Combat Development Command (MCCDC)
- Manpower Management ..... TFS Division

## **D. SYSTEM DESCRIPTION**

**1. Operational Uses.** The AN/USM-429(V)1 CAT-IIID(V)1 is a maintenance test station employed at Navy and Marine Corps Intermediate Maintenance Activities (IMA) as well as depot level maintenance activities. The CAT-IIID(V)1 provides rapid, computer directed testing of Shop Replaceable Assemblies (SRAs) for avionics systems of Navy and Marine Corps aircraft including the C-2A, E-2C, EA-6B, F-14A/D, S-3B, and A-7E (Foreign Military Sales (FMS) only). The CAT-IIID(V)1 is capable of testing various EA-6B Weapon Replaceable Assemblies (WRA). In addition, it provides support for the AN/USM-247 Versatile Avionics Shop Test (VAST), the AN/USM-467 Radar Communications (RADCOM) Test Station, and the AN/USM-484 Hybrid Test Set, as well as testing the AN/AYK-14(V) Airborne Computer Group and Highspeed Anti-Radiation Missile (HARM) electronic SRAs.

The CAT-IIID(V)1 is a mature system widely used throughout the fleet. It has been selected as a candidate for replacement by the AN/USM-636(V) Consolidated Automated Support System (CASS). However, CAT-IIID(V)1 will remain in service for another thirteen years or more before it reaches obsolescence.

**2. Foreign Military Sales.** CAT-IIID(V)1 FMS countries include France, Portugal, Japan, Singapore, Egypt, Greece, Thailand, and Chile. In addition, the U.S. Air Force procured the CAT-IIID(V)1.

**E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** The Technical Evaluation (TECHEVAL) of the first generation AN/USM-429 CAT-IIID was performed by the Systems Engineering Test Directorate at the Naval Air Test Center, Patuxent River, Maryland, from January to December 1978. The TECHEVAL of the modified CAT-IIID(V)1 test station was completed in April 1984 by the Systems Engineering Test Directorate. With the introduction of the CAT-IIID(V)1, the CAT-IIID(V) was redesignated as the CAT-IIID(V)2. There is no requirement for an Operational Evaluation of the CAT-IIID(V)1.

**F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.** The CAT-IIID(V)1 replaced the CAT-IIID(V)2.

## **G. DESCRIPTION OF NEW DEVELOPMENT**

**1. Functional Description.** The CAT-IIID(V)1 is an automatic, digital test station with analog capability. It is configured primarily of commercial off-the-shelf test equipment. The test station has the capability for on-line test program compiling and editing using the Abbreviated Test Language for All Systems (ATLAS) language, and incorporates the MIL-STD-1553 data bus. It is capable of fault isolating complex SRAs to relatively small ambiguity groups using the smart logic probe.

The CAT-IIID(V)1 interfaces with WRAs and SRAs through individual Test Program Sets (TPS). These TPSs are comprised of interconnecting devices, computer programs, and test

program instructions. TPSs were developed and validated as part of each individual weapon system that has designated CAT-IIID(V)1 as its support equipment.

Since entering fleet service, several Engineering Change Proposals (ECP) have been incorporated into the CAT-IIID(V)1. Some of the major modifications included ECP-6, which updated the self-certification interface device and TPS, and ECP-7, which removed the paper tape reader and added ten cards to the computer for enhanced performance. ECP-9 redesigned obsolete circuit cards in the color graphics generator, providing two-way interchangeability with original circuit cards. From August through December 1996, Grumman Aerospace Corporation provided kits to the IMAs and Naval Aviation Depots (NAVAVNDEPOT) for installation of ECP-10, which replaced the 7906 disk drive, modified filter, and controller with an optical disk drive. The TPSs were updated for ECP-10 and were made available in August 1997.

**2. Physical Description.** The CAT-IIID(V)1 is housed in a three-bay rack with all components accessible from the front of the station. All peripheral equipment required for normal operation is included as part of the station. The printer, color graphics display, and keyboard are incorporated within the width of the station. Each bay of the station contains a retractable work surface.

Dimensions ....	70 wide x 74 high x 34 (inches) diameter overall
Weight .....	2000 pounds
Power .....	120 VAC, 60 Hz, 1 or 3 Phase, 5 KVA

**3. New Development Introduction.** The CAT-IIID(V)1 was introduced into the fleet as a new production test station.

**4. Significant Interfaces.** The CAT-IIID(V)1 is capable of interfacing with the OQ-293 Analog Augmentation Test Group (AATG). The AATG is an automatic analog test augmentation that is housed in a two-bay equipment rack with all components accessible from the front of the station. The AATG interfaces with the CAT-IIID(V)1 through TPSs containing interconnecting devices, computer programs, and test program instructions. The AATG is employed exclusively at Naval Air Weapons Center Weapons Division Point Mugu, California, and NAVAVNDEPOT Jacksonville, Florida, in support of FMS A-7E aircraft.

**5. New Features, Configurations, or Material.** Not Applicable (NA)

## H. CONCEPTS

**1. Operational Concept.** The CAT-IIID(V)1 is employed at Aircraft Intermediate Maintenance Departments (AIMD), ashore and afloat, Marine Aviation Logistics Squadrons (MALS) and NAVAVNDEPOTs. At most locations, the CAT-IIID(V)1 is operated for two or three shifts daily. The CAT-IIID(V)1 requires two operators during normal use. The operation of the CAT-IIID(V)1 is performed by Navy personnel from the Aviation Electronics Technician (AT) rating with the Navy Enlisted Classification (NEC) 6686, AN/USM-429 CAT-IIID Maintenance Technician, and by Marine Corps personnel with the Military Occupational Specialty

(MOS) 6484, Aircraft Electronic Countermeasures Systems/RADCOM/CAT-IIID Technician, IMA.

**2. Maintenance Concept.** All maintenance requirements for the CAT-IIID(V)1 are accomplished at the intermediate and depot levels. The CAT-IIID(V)1 maintenance concept follows the direction and guidance provided by the Naval Aviation Maintenance Program, OPNAVINST 4790.2G.

**a. Organizational.** Organizational maintenance on CAT-IIID(V)1 consists of on-equipment work only, such as corrosion control, calibration, and troubleshooting, and is performed by IMA ATs with NEC 6686 and Marine Corps personnel with MOS 6484.

**(1) Preventive Maintenance.** Preventive maintenance consists of performing a daily confidence test and scheduled maintenance tasks at prescribed calendar or operating time intervals.

**(2) Corrective Maintenance.** Corrective maintenance consists of on-line fault isolation to the faulty commercial test equipment Building Blocks (BB).

**b. Intermediate.** The CAT-IIID(V)1 is employed in Work Center 650 at AIMDs, ashore and afloat, and MALSS. IMA personnel, AT 6686 and MOS 6484, perform selected intermediate level maintenance (off-equipment) including identification and replacement of faulty SRAs within the test set. Removed SRAs are inducted and repaired at this level.

**(1) Preventive Maintenance.** Preventive maintenance actions are detailed in the Maintenance Requirement Cards (MRC), NAVAIR AT-828CA-MRC-000. The MRCs detail the daily and weekly inspection and cleaning requirements for the CAT-IIID(V)1 system.

**(2) Corrective Maintenance.** Corrective maintenance for the CAT-IIID(V)1 is built around the self-test program that automatically indicates the operational condition of the test station. The self-test program fault-isolates to a defective BB. Maintenance Assist Modules (MAM) are used to isolate a BB ambiguity group to a particular SRA. During fault isolation, a suspect SRA is removed from the BB and a MAM is installed to verify the fault. When the fault is verified, the MAM is removed and a Ready For Issue spare is installed.

**c. Depot.** The contractor, Grumman Aerospace Corporation, performs repair, calibration, and overhaul of the CAT-IIID(V)1 that is beyond the capability of the IMA or the user NAVAVNDEPOT.

**d. Interim Maintenance.** Naval Air Technical Data and Engineering Service Center (NATEC) representatives are available at various shore sites to provide technical assistance when needed.

**e. Life-Cycle Maintenance Plan.** NA

**3. Manning Concept.** The number of units per site, operating hours per unit per week, standard workweek calculations, and system maintenance requirements drive the manpower requirements for the CAT-IIID(V)1. The CAT-IIID(V)1 is a mature system with an established billet base. There are no changes to the current manpower requirements at this time.

The operation and maintenance of the CAT-IIID(V)1 is performed by Navy personnel from the AT rating with the NEC 6686, AN/USM-429 CAT-IIID Maintenance Technician. These personnel are assigned to AIMDs and Sea Operational Detachments.

Marine Corps personnel with MOS 6484, Aircraft Electronic Countermeasures Systems/RADCOM/CAT-IIID Technician, IMA, operate and maintain the CAT-IIID(V)1 at MALSs. These personnel are assigned to the MALS Augment Division of Marine Corps EA-6B squadrons.

**4. Training Concept.** Training has been established to ensure that qualified personnel are available to operate and maintain the CAT-IIID(V)1 in support of fleet activities. Contractor training services were used to train initial cadre and Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) instructor personnel. CAT-IIID(V)1 operation and maintenance follow-on training at Maintenance Training Unit (MTU) 3010, NAMTRAGRU DET Oceana, Virginia, and MTU 3011, NAMTRAGRU DET Miramar, California, provide a pipeline of qualified technicians to support the fleet. Although Naval Air Station Miramar became Marine Corps Air Station (MCAS) Miramar in October 1997; CAT-IIID(V)1 training remains at Miramar, along with other automated test equipment training.

**a. Initial Training.** CAT-IIID(V)1 operator and maintenance initial training was provided for fleet cadre personnel, NAMTRAGRU DET instructors, NATEC representatives, and NAVAVNDEPOT personnel at MTU 3011, NAMTRAGRU DET Miramar, by Grumman Aerospace Corporation. Initial training was conducted from October 1982 through June 1984. CAT-IIID(V)1 initial training has been completed.

**b. Follow-on Training.** CAT-IIID(V)1 follow-on training is currently provided at MTU 3010, NAMTRAGRU DET Oceana, and MTU 3011, NAMTRAGRU DET Miramar.

<b>Title .....</b>	<b>AN/USM-429 CAT-IIID Operator and Maintainer Intermediate Maintenance</b>
<b>CIN .....</b>	D/E-198-6005
<b>Model Manager ...</b>	NAMTRAGRU DET Miramar
<b>Description .....</b>	To provide Navy and Marine Corps personnel with the skills and knowledge to operate, perform tests, circuit analysis, troubleshoot, and repair the CAT-IIID(V)1
<b>Location .....</b>	MTU 3010, NAMTRAGRU DET Oceana MTU 3011, NAMTRAGRU DET Miramar
<b>Length .....</b>	66 days

RFT date ..... Currently available  
Skill identifier..... AT 6686, MOS 6484  
TTE/TD ..... AN/USM-429(V)1 CAT-IIID(V)1  
Prerequisites ..... C-100-2017, Avionics Technician I Level Class A1 School

**c. Student Profiles**

<b>SKILL IDENTIFIER</b>	<b>PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS</b>
AT 6686	C-100-2020, Avionics Common Core Class A1 C-100-2017, Avionics Technician I Level Class A1
MOS 6484	C-100-2020, Avionics Common Core Class A1 C-100-2017, Avionics Technician I Level Class A1

**d. Training Pipelines.** The following training track applies and is available in the OPNAV Aviation Training Management System.

<b>TRACK NUMBER</b>	<b>TRACK TITLE</b>
D/E-198-6005	AN/USM-429 Computerized Automatic Test Station (CAT-IIID) Operation and Maintenance Pipeline

**I. ON-BOARD (IN-SERVICE) TRAINING**

**1. Proficiency or Other Training Organic to the New Development**

**a. Maintenance Training Improvement Program.** The Maintenance Training Improvement Program (MTIP) is used as an effective and efficient training system responsive to fleet training requirements. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions managed through automated data processing. The Deputy Chief of Staff for Training assisted in the development of MTIP by providing those question banks (software) already developed by Grumman. MTIP is implemented per OPNAVINST 4790.2G. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at both the organizational and intermediate levels of maintenance. MTIP allows increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Refresher training is concentrated where needed to combat identified skill and knowledge shortfalls.

**b. Aviation Maintenance In-Service Training.** Aviation Maintenance In-Service Training (AMIST) is intended to support the Fleet training requirements now satisfied by MTIP, and in that sense is the planned replacement. However, it is structured very differently, and will function as an integral part of the new Aviation Maintenance Training Continuum System (AMTCS) that will replace the existing aviation maintenance training structure. AMIST will provide standardized instruction to bridge the training gaps between initial and career training. With implementation of AMIST, technicians will be provided the training required to maintain a level of proficiency necessary to effectively perform the required tasks to reflect career progression. AMIST is scheduled to begin for intermediate level activities second quarter Fiscal Year (FY)01.

**c. Aviation Maintenance Training Continuum System.** AMTCS will redesign the aviation training process (training continuum), and introduce Computer-Based Training (CBT) throughout the Navy technical training process. The application and adoption of recent advances in computer hardware and software technology will enable CBT, with its basic elements of Computer Managed Instruction, Computer Aided Instruction, and Interactive Courseware, to be integrated into the training continuum and provide essential support for standardizing technical training.

**2. Personnel Qualification Standards. NA**

**3. Other On-Board or In-service Training Packages.** Marine Corps on-board training is based on the current series of MCO P4790.12, Individual Training Standards System Maintenance Training Management and Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as OPNAVINST 4790.2G, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be addressed with refresher training.

**J. LOGISTICS SUPPORT**

**1. Manufacturer and Contract Numbers**

<b>CONTRACT NUMBER</b>	<b>MANUFACTURER</b>	<b>ADDRESS</b>
N00019-78-C-0293	Grumman Aerospace Corporation	Bethpage, NY 11714

**2. Program Documentation.** The Integrated Logistic Support Plan is no longer required. The Phased Support Plan, PSP-CSE-0423:BA, was updated and approved October 1996.

**3. Technical Data Plan.** Technical manuals for the CAT-IIID(V)1 are available through normal channels. The appropriate manuals were updated with ECP-10 data prior to fleet introduction in October 1996. The technical manuals and applicable preparation specifications required for total support of the CAT-IIID(V)1 include 82 manuals in these categories:

**a. Intermediate Level Maintenance.** The intermediate level maintenance manuals consist of system maintenance, digital word generator maintenance, color graphics generator maintenance, bus test unit maintenance, and technical manual list. The MRCs contain procedures to perform periodic maintenance. The deck was prepared to MIL-M-23618E specifications by NAVAVNDEPOT North Island.

**b. Commercial.** Commercial manuals that have been reviewed and certified for use by NATEC are numbered and made available to fleet activities through Navy publication support channels.

**c. Instrument Calibration Procedures.** Instrument Calibration Procedure software was developed per specifications provided by the Metrology Engineering Center, Corona, California, and is available through normal channels.

**4. Test Sets, Tools, and Test Equipment.** A complete list of the special tools and equipment used to support the CAT-IIID(V)1 is contained in the Maintenance Plan, MAPL-CSE-0423:BA, dated 28 June 1996. The TPSs were updated for ECP-10 and were made available in August 1997.

**5. Repair Parts.** CAT-IIID(V)1 parts provisioning is accomplished through normal supply channels. The Material Support Date (MSD) was May 1988. The MSD for ECP-10 was September 1998.

**6. Human Systems Integration Plan.** NA

## **K. SCHEDULES**

**1. Installation and Delivery Schedules.** A total of 147 CAT-IIID(V)1 test stations were delivered to the Navy between FY97 and FY98. The CAT-IIID(V)1 is no longer in production and all deliveries from the contractor have been completed. However, there are some transfers planned as new carriers enter fleet service and old carriers are decommissioned. In addition, the CAT-IIID(V)1 will require transfers as some Navy and Marine Corps bases are disestablished or realigned. Currently, plans for the CAT-IIID(V)1 to be phased out of fleet service and replaced by the AN/USM-646(V) CASS are scheduled to begin in FY07. Refer to Part II.A.1.a. for a detailed list of current CAT-IIID(V)1 locations.

**2. Ready For Operational Use Schedule.** All units are ready for operational use after installation has been completed.

**3. Time Required to Install at Operational Sites.** The average installation time for each CAT-IIID(V)1 test station is three days. The Facilities Requirements Document, FRD-CSE-0423:BA, was updated and approved 21 October 1996.

**4. Foreign Military Sales and Other Source Delivery Schedule.** A total of 13 CAT-IIID(V)1 test stations were procured and delivered for FMS. The U.S. Air Force procured three test stations.

**5. Training Device and Delivery Schedule.** There are two CAT-IIID(V)1 test stations at each training site, MTU 3010, NAMTRAGRU DET Oceana, and MTU 3011, NAMTRAGRU DET Miramar. The kits for ECP-10 have been delivered to the NAMTRAGRU DETs and installation completed in December 1997.

**L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA**

**M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS**

<b>DOCUMENT OR NTSP TITLE</b>	<b>DOCUMENT OR NTSP NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
AGM-88A HARM Missile NTSP	A-50-8101B/P	PMA242	Proposed May 99
AN/AYK-14 Airborne Computer NTP	A-50-8822B/D	PMA209	Draft Jan 95
AN/USM-467 Weapon Systems Test Station RADCOM NTP	A-50-8710A/A	PMA260	Approved Jul 93
AN/USM-484 Hybrid Test Set (HTS) NTSP	A-50-8708C/A	PMA260	Approved Apr 99
AN/USM-636(V) CASS NTSP	A-50-8515C/D	PMA260	Preliminary Draft Jun 98
C-2A Reprocured Aircraft NTP	A-50-8308B/A	PMA221	Approved Oct 96
E-2C Aircraft NTSP	A-50-8716D/A	PMA231	Approved Nov 97
EA-6B Improved Capability Modification II Aircraft NTSP	A-50-7904C/A	PMA234	Approved Dec 96

<b>DOCUMENT OR NTSP TITLE</b>	<b>DOCUMENT OR NTSP NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
F-14A/B/D Aircraft NTSP	A-50-8511B/D	PMA241	Draft Aug 98
S-3B Aircraft NTSP	A-50-8310D/D	PMA244	Draft Jan 98
CAT-IIID Maintenance Plan	MAPL-CSE-0423:BA	PMA260	28 Jun 96
CAT-IIID Phase Support Plan	PSP-CSE-0423:BA	PMA260	Oct 96
CAT-IIID Facilities Requirements Document	FRD-CSE-0423:BA	PMA260	21 Oct 96

## **PART II - BILLET AND PERSONNEL REQUIREMENTS**

The following element is not affected by the AN/USM-429(V)1 Computerized Automatic Tester CAT-IIID1 and, therefore, are not included in Part II of this NTSP:

### **II.A. Billet Requirements**

#### **II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities**

**PART II - BILLET AND PERSONNEL REQUIREMENTS**

**II.A. BILLET REQUIREMENTS**

**II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE**

**SOURCE:** NAVAVNDEPOT North Island

**DATE:** 4/1/99

<b>ACTIVITY, UIC</b>	<b>PfYs</b>	<b>CFY99</b>	<b>FY00</b>	<b>FY01</b>	<b>FY02</b>	<b>FY03</b>
<b>FLEET SUPPORT ACTIVITIES - NAVY</b>						
CV-63 USS Kitty Hawk	03363	4	0	0	0	0
CV-64 USS Constellation	03364	4	0	0	0	0
CVN-65 USS Enterprise	03365	4	0	0	0	0
CV-67 USS Kennedy	03367	4	0	0	0	0
CVN-68 USS Nimitz	03368	4	0	0	0	0
CVN-69 USS Eisenhower	03369	4	0	0	0	0
CVN-70 USS Vinson	20993	4	0	0	0	0
CVN-71 USS Roosevelt	21247	4	0	0	0	0
CVN-72 USS Lincoln	21297	4	0	0	0	0
CVN-73 USS Washington	21412	4	0	0	0	0
CVN-74 USS Stennis	21847	4	0	0	0	0
CVN-75 USS Truman	21853	4	0	0	0	0
NAS Cecil Field AIMD	44319	4	0	0	0	0
NAS JRB Fort Worth RAIMD	44487	2	0	0	0	0
NAS Norfolk AIMD	44325	3	0	0	0	0
NAS North Island AIMD	44326	5	0	0	0	0
NAS Oceana	44327	8	0	0	0	0
NAS Point Mugu AIMD	44328	2	0	0	0	0
NAF Washington DC RAIMD	44492	2	0	0	0	0
NAS Whidbey Island AIMD	44329	5	0	0	0	0
CVN-76 USS Reagan	00000	4	0	0	0	0
NAWCAD Patuxent River AIMD	0428A	1	0	0	0	0
COMFITWINGLANT Oceana	09216	1	0	0	0	0
NAS Atlanta RAIMD	44486	2	0	0	0	0
NSWC Crane	00164	2	0	0	0	0
NAMTRAGRU DET Miramar	66045	2	0	0	0	0
NAMTRAGRU DET Oceana	66064	2	0	0	0	0
NSD Jacksonville (storage)	68836	1	0	0	0	0
NAWCAD Lakehurst	48558	1	0	0	0	0
Aviano Italy (EMMF1)	31635	2	0	0	0	0
Saudi Arabia (EMMF2)	31660	2	0	0	0	0
McClellan AFB	503200	3	0	0	0	0
COMNAVAIRPAC	57025	1	0	0	0	0
NAVAVNDEPOT North Island	65888	2	0	0	0	0
Foreign Military Sales		13	0	0	0	0
<b>FLEET SUPPORT ACTIVITIES MARINE</b>						
MALS-12/MCAS Iwakuni	09112	2	0	0	0	0
MALS-14/MCAS Cherry Point	09114	5	0	0	0	0

**II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE**

**SOURCE:** NAVAVNDEPOT North Island

**DATE:** 4/1/99

<b>ACTIVITY, UIC</b>		<b>PFYs</b>	<b>CFY99</b>	<b>FY00</b>	<b>FY01</b>	<b>FY02</b>	<b>FY03</b>
FLEET SUPPORT ACTIVITY	INDUSTRIAL						
NADEP Jacksonville	65886	5	0	0	0	0	0
NADEP North Island	65888	9	0	0	0	0	0
Northrop Grumman Aerospace		10	0	0	0	0	0
<b>TOTAL:</b>		149	0	0	0	0	0

**Note:** The numbers above indicate CAT-IIID(V)1 units.

The two following activities listed below have CAT-IIID manpower but do not appear on the delivery schedule to receive CAT-IIID assets.

**OPERATIONAL ACTIVITIES - NAVY**

VAQ-209	53870	1	0	0	0	0	0
VF-201	09309	1	0	0	0	0	0
<b>TOTAL:</b>		2	0	0	0	0	0

**FLEET SUPPORT ACTIVITIES - NAVY**

NAS Jacksonville AIMD	44319	1	0	0	0	0	0
NAS Jacksonville Sea Op DET	46965	1	0	0	0	0	0
NAS Norfolk Sea Op DET	46966	1	0	0	0	0	0
NAS Oceana Sea Op DET	46963	1	0	0	0	0	0
NAVAIRES Norfolk	63102	1	0	0	0	0	0
VAW-78	09102	1	0	0	0	0	0
NAS Miramar Sea Op DET	46962	1	0	0	0	0	0
NAS North Island Sea Op DET	46968	1	0	0	0	0	0
NAS Whidbey Island Sea Op DET	46967	1	0	0	0	0	0
NAS Whidbey Island Van Op DET	31179	1	0	0	0	0	0
<b>TOTAL:</b>		10	0	0	0	0	0

**FLEET SUPPORT ACTIVITIES - USMC**

VMAQ Augments	00000	4	0	0	0	0	0
<b>TOTAL:</b>		4	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - NAVY					
<b>VAQ-209, 53870</b>					
ACDU	0	1	AT	6686	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>VF-201, 09309</b>					
ACDU	0	1	AT	6686	
<b>ACTIVITY TOTAL:</b>	0	1			
FLEET SUPPORT ACTIVITIES - USMC					
<b>VMAQ Augments, 00000</b>					
USMC	0	6	CPL	6484	
	0	14	LCPL	6484	
	0	4	SGT	6484	
<b>ACTIVITY TOTAL:</b>	0	24			
FLEET SUPPORT ACTIVITIES - NAVY					
<b>CV-67 USS Kennedy, 03367</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	0	2			
<b>CVN-65 USS Enterprise, 03365</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	0	2			
<b>CVN-68 USS Nimitz, 03368</b>					
ACDU	0	3	AT	6686	
<b>ACTIVITY TOTAL:</b>	0	3			
<b>CVN-69 USS Eisenhower, 03369</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	0	2			
<b>CVN-71 USS Roosevelt, 21247</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>CVN-73 USS Washington, 21412</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>CVN-75 USS Truman, 21853</b>					
ACDU	0	3	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>3</b>			
<b>NAF Washington DC RAIMD, 44492</b>					
TAR	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>NAS Cecil Field AIMD, 44319</b>					
ACDU	0	4	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>4</b>			
<b>NAS Jacksonville AIMD, 44319</b>					
ACDU	0	7	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>7</b>			
<b>NAS Jacksonville Sea Op DET, 46965</b>					
ACDU	0	5	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>5</b>			
<b>NAS Norfolk AIMD, 44325</b>					
ACDU	0	14	AT	6686	
	0	1	AT	6686	6612
SELRES	0	1	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>16</b>			
<b>NAS Norfolk Sea Op DET, 46966</b>					
ACDU	0	10	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>10</b>			
<b>NAS Oceana, 44327</b>					
ACDU	0	37	AT	6686	
	0	4	AT	6686	9526
SELRES	0	1	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>42</b>			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>NAS Oceana Sea Op DET, 46963</b>					
ACDU	0	11	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>11</b>			
<b>NAVAIRES Norfolk, 63102</b>					
TAR	0	1	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>1</b>			
<b>VAW-78, 09102</b>					
TAR	0	4	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>4</b>			
<b>CV-63 USS Kitty Hawk, 03363</b>					
ACDU	0	9	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>9</b>			
<b>CV-64 USS Constellation, 03364</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>CVN-70 USS Vinson, 20993</b>					
ACDU	0	3	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>3</b>			
<b>CVN-72 USS Lincoln, 21297</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>CVN-74 USS Stennis, 21847</b>					
ACDU	0	3	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>3</b>			
<b>NAS JRB Fort Worth RAIMD, 44487</b>					
TAR	0	1	AT	6686	
	0	4	AT	6686	9527
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>5</b>			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>NAS Miramar Sea Op DET, 46962</b>					
ACDU	0	8	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>8</b>			
<b>NAS North Island AIMD, 44326</b>					
ACDU	0	4	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>4</b>			
<b>NAS North Island Sea Op DET, 46968</b>					
ACDU	0	4	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>4</b>			
<b>NAS Point Mugu AIMD, 44328</b>					
ACDU	0	1	AT	6686	6688
	0	1	AT	6686	6689
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>NAS Whidbey Island AIMD, 44329</b>					
ACDU	0	2	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>NAS Whidbey Island Sea Op DET, 46967</b>					
ACDU	0	18	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>18</b>			
<b>NAS Whidbey Island Van Op DET, 31179</b>					
ACDU	0	10	AT	6686	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>10</b>			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY99		FY00		FY01		FY02		FY03	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY OPERATIONAL ACTIVITIES - ACDU													
AT	6686		2		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AT	6686		169		0		0		0		0		0
AT	6686	6612	1		0		0		0		0		0
AT	6686	6688	1		0		0		0		0		0
AT	6686	6689	1		0		0		0		0		0
AT	6686	9526	4		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR													
AT	6686		8		0		0		0		0		0
AT	6686	9527	4		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
AT	6686		2		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	6484		24		0		0		0		0		0
LCPL	6484		56		0		0		0		0		0
SGT	6484		16		0		0		0		0		0
<b>SUMMARY TOTALS:</b>													
NAVY OPERATIONAL ACTIVITIES - ACDU													
			2		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			176		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR													
			12		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
			2		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
			96		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY99		FY00		FY01		FY02		FY03	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
<b>GRAND TOTALS:</b>													
NAVY - ACDU			178		0		0		0		0		0
NAVY - TAR			12		0		0		0		0		0
NAVY - SELRES			2		0		0		0		0		0
USMC - USMC			96		0		0		0		0		0

**II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE**

**SOURCE:** NAVAVNDEPOT North Island

**DATE:** 4/1/99

<b>ACTIVITY, UIC</b>		<b>PFYs</b>	<b>CFY99</b>	<b>FY00</b>	<b>FY01</b>	<b>FY02</b>	<b>FY03</b>
FLEET SUPPORT ACTIVITIES - NAVY							
NAS Cecil Field AIMD	44319	0	0	1	0	0	0
<b>TOTAL:</b>		0	0	1	0	0	0

**Note:** These CAT-IIID units will be transferred to other sites.

**II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES**

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY99		FY00		FY01		FY02		FY03	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AT	6686		4		0		4		0		0		0
<b>SUMMARY TOTALS:</b>													
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			4		0		-4		0		0		0
<b>GRAND TOTALS:</b>													
NAVY - ACDU													
			4		0		-4		0		0		0

**II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS**

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY99		FY00		FY01		FY02		FY03	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** MTU 3010 NAMTRAGRU DET, NAS Oceana, 66045

**INSTRUCTOR BILLETS**

ACDU														
AT	6686	9502	0	3	0	3	0	3	0	3	0	3	0	3
<b>TOTAL:</b>			0	3	0	3	0	3	0	3	0	3	0	3

**TRAINING ACTIVITY, LOCATION, UIC:** MTU 3011 NAMTRAGRU DET, MCAS Miramar, 66064

**INSTRUCTOR BILLETS**

ACDU														
AT	6686	9502	0	4	0	4	0	4	0	4	0	4	0	4
<b>TOTAL:</b>			0	4	0	4	0	4	0	4	0	4	0	4

**II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS**

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY99		FY00		FY01		FY02		FY03	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAGRU DET, NAS Oceana, 66045													
	NAVY		7.0		7.0		7.0		6.9		6.9		6.9
	USMC		4.3		4.3		4.3		4.3		4.3		4.3
MTU 3011 NAMTRAGRU DET, MCAS Miramar, 66064													
	NAVY		4.7		4.7		4.7		4.7		4.7		4.7
<b>SUMMARY TOTALS:</b>													
	NAVY		11.7		11.7		11.7		11.6		11.6		11.6
	USMC		4.3		4.3		4.3		4.3		4.3		4.3
<b>GRAND TOTALS:</b>													
			16.0		16.0		16.0		15.9		15.9		15.9

**II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS**

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY99 +/-	CUM	FY00 +/-	CUM	FY01 +/-	CUM	FY02 +/-	CUM	FY03 +/-	CUM
<b>a. OFFICER - USN</b>			NA										
<b>b. ENLISTED - USN</b>													
Operational Billets ACDU and TAR													
AT	6686		2	0	2	0	2	0	2	0	2	0	2
Fleet Support Billets ACDU and TAR													
AT	6686		177	0	177	-4	173	0	173	0	173	0	173
AT	6686	6612	1	0	1	0	1	0	1	0	1	0	1
AT	6686	6688	1	0	1	0	1	0	1	0	1	0	1
AT	6686	6689	1	0	1	0	1	0	1	0	1	0	1
AT	6686	9526	4	0	4	0	4	0	4	0	4	0	4
AT	6686	9527	4	0	4	0	4	0	4	0	4	0	4
Staff Billets ACDU and TAR													
AT	6686	9502	7	0	7	0	7	0	7	0	7	0	7
Chargeable Student Billets ACDU and TAR													
			12	0	12	0	12	0	12	0	12	0	12
SELRES Billets													
AT	6686		2	0	2	0	2	0	2	0	2	0	2
<b>TOTAL USN ENLISTED BILLETS:</b>													
Operational			2	0	2	0	2	0	2	0	2	0	2
Fleet Support			188	0	188	-4	184	0	184	0	184	0	184
Staff			7	0	7	0	7	0	7	0	7	0	7
Chargeable Student			12	0	12	0	12	0	12	0	12	0	12
SELRES			2	0	2	0	2	0	2	0	2	0	2
<b>c. OFFICER - USMC</b>			NA										
<b>d. ENLISTED - USMC</b>													
Fleet Support Billets USMC and AR													
CPL	6484		24	0	24	0	24	0	24	0	24	0	24
LCPL	6484		56	0	56	0	56	0	56	0	56	0	56
SGT	6484		16	0	16	0	16	0	16	0	16	0	16
Chargeable Student Billets USMC and AR													
			4	0	4	0	4	0	4	0	4	0	4
<b>TOTAL USMC ENLISTED BILLETS:</b>													
Fleet Support			96	0	96	0	96	0	96	0	96	0	96
Chargeable Student			4	0	4	0	4	0	4	0	4	0	4

**II.B. PERSONNEL REQUIREMENTS**

**II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS**

**CIN, COURSE TITLE:** D-198-6005, AN/USM-429(V)1 Computerized Automatic Test Station IIID Operation/Maintenance

**COURSE LENGTH:** 9.4 Weeks

**TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY99		FY00		FY01		FY02		FY03	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAGRU DET, NAS Oceana												
	NAVY	ACDU		41		41		40		40		40
		TAR		3		3		3		3		3
		SELRES		0		0		1		0		0
		TOTAL:		68		68		68		67		67
	USMC	USMC		24		24		24		24		24

**CIN, COURSE TITLE:** E-198-6005, AN/USM-429(V)1 Computerized Automatic Test Station IIID Operation/Maintenance

**COURSE LENGTH:** 9.4 Weeks

**TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY99		FY00		FY01		FY02		FY03	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET, MCAS Miramar												
	NAVY	ACDU		26		26		26		26		26
		TAR		2		2		2		2		2
		TOTAL:		28		28		28		28		28

## **PART III - TRAINING REQUIREMENTS**

The following elements are not affected by the AN/USM-429(V)1 Computerized Automatic Tester CAT-IIID1 and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

**III.A.2. FOLLOW-ON TRAINING**

**III.A.2.a. EXISTING COURSES**

**CIN, COURSE TITLE:** D-198-6005, AN/USM-429(V)1 Computerized Automatic Test Station IIID Operation/Maintenance  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET  
**LOCATION, UIC:** NAS Oceana, 66045

**SOURCE:** NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	44		44		43		43		43	ATIR
	40		40		39		39		39	Output
	7.0		7.0		6.9		6.9		6.9	AOB
	7.0		7.0		6.9		6.9		6.9	Chargeable

**SOURCE:** USMC **STUDENT CATEGORY:** USMC - AR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	24		24		24		24		24	ATIR
	24		24		24		24		24	Output
	4.3		4.3		4.3		4.3		4.3	AOB
	4.3		4.3		4.3		4.3		4.3	Chargeable

**SOURCE:** NAVY **STUDENT CATEGORY:** SELRES

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		0		1		0		0	ATIR
	0		0		1		0		0	Output
	0.0		0.0		0.2		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** E-198-6005, AN/USM-429(V)1 Computerized Automatic Test Station IIID Operation/Maintenance  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC:** MCAS Miramar, 66064

**SOURCE:** NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	28		28		28		28		28	ATIR
	25		25		25		25		25	Output
	4.7		4.7		4.7		4.7		4.7	AOB
	4.7		4.7		4.7		4.7		4.7	Chargeable

## **PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS**

The following elements are not affected by the AN/USM-429(V)1 Computerized Automatic Tester CAT-IIID1 and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1 Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

**PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS**

**IV.A. TRAINING HARDWARE**

**IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE**

**CIN, COURSE TITLE:** C-198-3061, AN/USM-429(V)1 CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** MCAS Miramar 66064

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	STATUS
TTE					
001	AN/USM-429(V)1 CAT-IIID(V)1		2	1/83	On board
ST					
001	Maintenance Tool Set, A31U11908-1		1	FY86	On board
002	Detector Assembly; A51S31990-1		1	FY86	On board
003	Adapter Set; A51S31988-1		1	FY86	On board
GPETE					
001	Oscilloscope, AN/USM-425(V)1		1	FY86	On board
002	Multimeter, 77AN		1	FY86	On board
SPETE					
001	Test Program Disc, OTPDA31U13002-(A)		1	FY97	On board
002	Test Program Set, TPS31U12606-1 Self Test		1	FY86	On board
003	Test Program Set, TPS31U12613-3 Self Test		1	FY86	On board

**IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE (Continued)**

**CIN, COURSE TITLE:** C-198-3061, AN/USM-429(V)1 CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005

**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET

**LOCATION, UIC:** NAS Oceana 66045

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	STATUS
TTE					
001	AN/USM-429(V)1 CAT-IIID(V)1		2	1/83	On board
ST					
001	Maintenance Tool Set, A31U11908-1		1	FY86	On board
002	Detector Assembly, A51S31990-1		1	FY86	On board
003	Adapter Set, A51S31988-1		1	FY86	On board
GPETE					
001	Oscilloscope, AN/USM-425(V)1		1	FY86	On board
002	Multimeter, 77AN		1	FY86	On board
SPETE					
001	Test Program Disc, OTPDA31U13002-(A)		1	FY97	On board
002	Test Program Set, TPS31U12606-1 Self Test		1	FY86	On Board
003	Test Program Set, TPS31U12613-3 Self Test		1	FY86	On Board

**IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS**

**CIN, COURSE TITLE:** C-198-3061, AN/USM-429(V)1 CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** MCAS Miramar 66064

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Curriculum Outline	9 sets	1/83	On board
Instructor Guides	9 sets	1/83	On board
Student Guides	25 sets	1/83	On board
Laboratory Work Exercises	25 sets	1/83	On board
Prefaulted Modules	1 set	FY86	On board
Bus Interface	1	FY86	On board
Transparencies and Wall Charts	5 sets	FY86	On board

**CIN, COURSE TITLE:** C-198-3061, AN/USM-429(V)1 CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005

**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET

**LOCATION, UIC:** NAS Oceana 66045

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Curriculum Outline	9 sets	1/83	On board
Instructor Guides	9 sets	1/83	On board
Student Guides	25 sets	1/83	On board
Laboratory Work Exercises	25 sets	1/83	On board
Prefaulted Modules	1 set	FY86	On board
Bus Interface	1	FY86	On board
Transparencies and Wall Charts	5 sets	FY86	On board

**Note:** CAT-IIID(V)1 curricula were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC:** MCAS Miramar 66064

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Weapons System Test Station AN/USM-429(V)1 Intermediate Maintenance with IPB, AT-828CA-MMI-000*	Hard copy	12 each	FY86	On board
Digital Word Generator Intermediate Maintenance, AT-828CA-MMI-010	Hard copy	12 each	FY86	On board
Colorgraphics Indicator IP-1403/USM-429(V) Intermediate Maintenance, AT-828CA-MMI-020	Hard copy	12 each	FY86	On board
Panel Assembly Interface A31U13295-1 Intermediate Maintenance with IPB, AT-828CA-MMI-030	Hard copy	2 each	FY86	On board
Bus Test Unit Electrical Assembly Intermediate Maintenance with IPB, AT-828CA-MMI-040	Hard copy	12 each	FY86	On board
CAT-RTE 4B Operating System, AT-828CA-MMI-050*	Hard copy	12 each	FY86	On board
RTE BASIC Programming Manual, AT-828CA-MMI-060	Hard copy	12 each	FY86	On board
CAT-IIID ATLAS Programming Manual, AT-828CA-MMI-070	Hard copy	12 each	FY86	On board
Power Supply PP-7802/USM-429(V), P/N A31U13224-3 Intermediate Maintenance with IPB, AT-828CA-MMI-080*	Hard copy	12 each	FY86	On board
Programmable Power Supply Assembly Intermediate Maintenance with IPB, AT-828CA-MMI-090	Hard copy	1 each	FY86	On board
Digital Word Generator Interface Device P/N A31U12602-31, AT-828CA-MMI-100	Hard copy	1 each	FY86	On board
Panel Interconnection Device Self-Test P/N A31U12606-1 Intermediate Maintenance with IPB, AT-828CA-MMI-110	Hard copy	12 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Panel Interconnection Device Self-Certification Intermediate Maintenance with IPB, P/N A31U13613-3, AT-828CA-MMI-120	Hard copy	12 each	FY86	On board
Microprocessor timer/Counters Maintenance Manual, AT-828CA-MMI-130 4000A	Hard copy	12 each	FY86	On board
Power Control Unit C-11108/USM-429(V)1 Intermediate Maintenance with IPB, P/N A31U13290-1, AT-828CA-MMI-140	Hard copy	12 each	FY86	On board
Bus Test Unit P/N A31U12611-1 AT-828CA-MM1-150 J-4344/USM-429(V)	Hard copy	12 each	FY86	On board
AN/USM-429(V)1 Periodic Maintenance Requirement Manual Weapon System Test Station AN/USM-429(V)1, AT-828CA-MRC-000	Hard copy	12 each	FY86	On board
Functional Diagrams, AT-828CA-MMF-010*	Hard copy	12 each	FY86	On board
Roster Scan Color Image Display Model 5711 Installation, Operation and Maintenance Manual, AT-828CA-OM1-010	Hard copy	12 each	FY86	On board
Operating and Service Manual Model 3455/A Digital Voltmeter, AT-828CA-OMI-020	Hard copy	1 each	FY86	On board
RGB Roster Scan Color Display Model 7211, Operation and Maintenance Manual, AT-828CA-OM1-040	Hard copy	1 each	FY86	On board
12551B-01 Relay Register Operation and Service Manual, AT-828CA-OMI-030	Hard copy	1 each	FY86	On board
HP-12992 Loader ROMS Installation Manual, AT-828CA-IIN-010	Hard copy	1 each	FY86	On board
HP-12897B Dual Channel Port Controller Installation Manual, AT-828CA-IIN-030	Hard copy	1 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
HP-12892B Memory Protection Installation Manual, AT-828CA-IIN-040	Hard copy	1 each	FY86	On board
HP-1000 E-Series Computer HP-2109B and HP-2113B Installation and Service Manual, AT-828CA-INM-010*	Hard copy	12 each	FY86	On board
HP-1000 M/E/F-Series Firmware Installation and Reference Manual, AT-828CA-INM-020	Hard copy	1 each	FY86	On board
12539C Time Base Generator Interface Kit Operating and Service Manual AT-828CA-INM-030	Hard copy	1 each	FY86	On board
12566B, 12566B-001, 12566B-002, 12566B-003 Microcircuit Interface Kits Operating and Service Manual, AT-828CA-INM-040	Hard copy	1 each	FY86	On board
9000A Microprocessing Timer/Counters Operating Manual, AT-828CA-INM-060	Hard copy	12 each	FY86	On board
13037 Disk Controller Installation and Service Manual, AT-828CA-INM-070*	Hard copy	1 each	FY86	On board
AN/USM-4201 Operation and Service Manual, AT-828CA-1NM-080	Hard copy	1 each	FY86	On board
12747A Standard Performance Memory and Service Manual, AT-828CA-INM-100	Hard copy	1 each	FY86	On board
HP12566C Microcircuit Interface Kit Installation and Service Manual, AT-828CA-1NM-110	Hard copy	1 each	FY86	On board
Programmable Pulse Generator Model 1504 Instruction Manual, AT-828CA-INS-010	Hard copy	12 each	FY86	On board
Programmable Signal Source Model 172B Instruction Manual, AT-828CA-INS-020	Hard copy	12 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
KEPCO Power Supply Model ATE 6-10M Instruction Manual, AT-828CA-INS-030	Hard copy	1 each	FY86	On board
KEPCO Power Supply Model ATE 15-6M Instruction Manual, AT-828CA-INS-040	Hard copy	1 each	FY86	On board
KEPCO Power Supply Model ATE 36-6M Instruction Manual, AT-828CA-INS-050	Hard copy	1 each	FY86	On board
KEPCO Power Supply Model ATE 55-2M Instruction Manual, AT-828CA-INS-060	Hard copy	1 each	FY86	On board
SN-488 Digital Programming System Instruction Manual, AT-828CA-INS-070	Hard copy	12 each	FY86	On board
Model 172B Programmable Signal Source Instruction Manual, AT-828CA-INS-090	Hard cop	12 each	FY86	On board
Colorgraphic Monitor IPB, AT-828CA-MIB-010	Hard copy	12 each	FY86	On board
Keyboard and Cable Assembly, AT-828CA-MIB-020	Hard copy	12 each	FY86	On board
Thermal Graphics Printer P/N A31U13152-1 Intermediate Maintenance with IPB, AT-828CA-MIB-040	Hard copy	12 each	FY86	On board
Programmable Pulse Generator IPB P/N A31U29106-1, AT-828CA-MIB-050	Hard copy	1 each	FY86	On board
Digital Computer CP-1519/USM-429(V)1 P/N A31U13160-1,-3,-5 Intermediate Maintenance with IPB, AT-828CA-MIB-080*	Hard copy	1 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Power Supply Programmer Intermediate Maintenance with IPB, AT-828CA-MIB-090	Hard copy	1 each	FY86	On board
Color Graphic Generator, AT-828CA-MIB-100	Hard copy	1 each	FY86	On board
59310A Bus Input/Output Interface Kit, AT-828CA-MMC-010	Hard copy	12 each	FY86	On board
HP-79XX/13037 Disk Memory Diagnostics Reference Manual, AT-828CA-MMC-020	Hard copy	1 each	FY86	On board
Memory Reference Instructions Diagnostic Reference Manual, AT-828CA-MMC-030	Hard copy	1 each	FY86	On board
Alter-Skip Instructions Diagnostic Reference Manual, AT-828CA-MMC-040	Hard copy	1 each	FY86	On board
Shift Rotate Instruction Diagnostic Reference Manual, AT-828CA-MMC-050	Hard copy	1 each	FY86	On board
Semiconductor Memory Diagnostic Reference Manual, AT-828CA-MMC-060	Hard copy	1 each	FY86	On board
Extended Arithmetic Instructions Diagnostic Reference Manual, AT-828CA-MMC-070	Hard copy	1 each	FY86	On board
Memory Protect-Parity Error Diagnostic Reference Manual, AT-828CA-MMC-080	Hard copy	1 each	FY86	On board
Input-Output Instruction Group, I/O Channel, and I/O Extender Diagnostic Reference Manual, AT-828CA-MMC-090	Hard copy	1 each	FY86	On board
Memory Expansion Module Diagnostic Reference Manual, AT-828CA-MMC-100	Hard copy	1 each	FY86	On board
Extended Instruction Group Diagnostic Reference Manual, AT-828CA-MMC-110	Hard copy	1 each	FY86	On board
General Purpose Register Diagnostic Reference Manual, AT-828CA-MMC-120	Hard copy	1 each	FY86	On board
HP-59310A/B Interface Bus Interface Diagnostic Reference Manual, AT-828CA-MMC-130	Hard copy	1 each	FY86	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Direct Memory Access (DMA) Dual Channel Port Controller Diagnostic Reference Manual, AT-828CA-MMC-140	Hard copy	1 each	FY86	On board
Thermal Graphics Printer 9876A, AT-828CA-MMC-150	Hard copy	12 each	FY86	On board
HP-1000 M/E/F Series Computer Manual Technical Reference Handbook, AT-828CA-MMC-160	Hard copy	12 each	FY86	On board
Data System Customer Support Handbook, AT-828CA-MMC-170	Hard copy	12 each	FY86	On board
HP-1000 Computers Engineering and Reference Documentation, AT-828CA-MMC-180	Hard copy	1 each	FY86	On board
HP-12539B/C Time Base Generator Diagnostic Reference Manual, AT-828CA-MMC-190	Hard copy	1 each	FY86	On board
HP-12889A Hardwired Serial Interface Diagnostic Reference Manual, AT-828CA-MMC-210	Hard copy	1 each	FY86	On board
Privileged Interrupt Fence Diagnostic Reference Manual, AT-828CA-MMC-220	Hard copy	1 each	FY86	On board
HP-1B IN HP-1000 Computer System User Manual, AT-828CA-OPI-010	Hard copy	1 each	FY86	On board
HP-1000 E-Series Computer HP-2109B and HP-2113B Operating and Reference Manual, AT-828CA-OPI-020	Hard copy	1 each	FY86	On board
AT-828RA-MIB-210 MU-1112/USM Memory Unit P/N A31U29879-1	Hard copy	12 each	FY86	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
HP Series Mass Storage System Operator/Instruction Manual, HP-5962-1469**	Hard copy	12 each	FY86	On board
WSTS (CAT-IIID) Performance Specifications Grumman Aerospace Corporation, AT100S2-002*	Hard copy	1 each	FY86	On board
HP-1000 E Series Computer and HP-7906/13037 Disk Diagnostics (punched tape), Grumman Aerospace Corp., AT100-3M2-950	Hard copy	1 each	FY86	On board
Colorgraphics Terminal Maintenance Manual Grumman Aerospace Corp., AT16M1-000	Hard copy	1 each	FY86	On board
Smart Probe (Wizard I and II), Grumman Aerospace Corp., AT3M3-000	Hard copy	1 each	FY86	On board
Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies, and Equipment, DOD-HDBK-263	Hard copy	1 each	FY86	On board
AN/USM-429(V)1 Master Test Program Set Index, MTPSI-AN/USM-429(V)1*	Hard copy	1 each	FY86	On board
Technical Manual Standard Maintenance Practices Electronic Assembly Repair, NA 01-1A-23	Hard copy	12 each	FY86	On board
Throttle Control Computer Intermediate Maintenance with IPB, NA 05-20XAC-1	Hard copy	1 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

\*\* Added by ECP-10.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Mobile Optical Unit Support Equipment Intermediate Maintenance with IPB, NA 10-1-800	Hard copy	12 each	FY86	On board
Television Camera Set AN/AXX-1 P/N 339009 Intermediate Maintenance, NA 10-10AC-133	Hard copy	1 each	FY86	On board
Television Camera Set IPB P/N 339000, NA 10-10AC-134	Hard copy	1 each	FY86	On board
Aeronautical Support Equipment Work Unit Code Manual, NA 16-1-8.1	Hard copy	2 each	FY86	On board
Aeronautical Support Equipment Flight Reference Communications Navigation Work Unit Code Manual, NA 16-1-8.2	Hard copy	2 each	FY86	On board
Aeronautical Support Equipment Flight Reference Communications Navigation Work Unit Code Manual, NA 16-1-8.3	Hard copy	1 each	FY86	On board
Aeronautical Support Equipment Multi-Function Multi-Application General Avionics Test/Check Equipment Work Unit Code Manual, NA 16-1-8.4	Hard copy	1 each	FY86	On board
Aeronautical Support Equipment Missile Test/Check Equipment Work Unit Code Manual, NA 16-1-8.5	Hard copy	1 each	FY86	On board
7906 Disk Drive Technical Information Package, NA 16-45-2100-43*	Hard copy	2 each	FY86	On board
Instrument Cal Procedures Manual, Self Cut Interconnection Device, NA17-20AX-546	Hard copy	2 each	FY86	On board
METRL, NA 17-35MTL-1	Hard copy	2 each	FY86	On board
The Naval Aviation Maintenance Program, OPNAVINST 4790.2 (series)	Hard copy	12 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track E-198-6005  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** MCAS Miramar 66064

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Test Program Instructions DWG/DWGE SRA(s), TPIA31U12602****	Hard copy	1 each	FY86	On board
AN/USM-429(V)1 Test Program Instructions-Self Test, TPIA31U12606****	Hard copy	12 each	FY86	On board
Test Program Instructions, Colorgraphics Generator SRA(s), TPIA31U12610****	Hard copy	1 each	FY86	On board
Test Program Instructions BTU SRA(s), TPIA31U12611****	Hard copy	1 each	FY86	On board
AN/USM-429(V)1 Test Program Instructions-Self Certification, TPIA31U12613****	Hard copy	12 each	FY86	On board
Test Program Instruction, CAT-IIID, TCC (WRA/SRA), TPI(V)1A51S90350****	Hard copy	12 each	FY86	On board
Test Program Instruction, CAT-IIID, TCS, TPI(V)1A51S90680****	Hard copy	12 each	FY86	On board

\*\*\*\* These Test Program Instructions were updated to include ECP-10 and were released August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET  
**LOCATION, UIC:** NAS Oceana 66045

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Weapons System Test Station AN/USM-429(V)1 Intermediate Maintenance with IPB, AT-828CA-MMI-000*	Hard copy	12 each	FY86	On board
Digital Word Generator Intermediate Maintenance, AT-828CA-MMI-010	Hard copy	12 each	FY86	On board
Colorgraphics Indicator IP-1403/USM-429(V) Intermediate Maintenance, AT-828CA-MMI-020	Hard copy	12 each	FY86	On board
Panel Assembly Interface A31U13295-1 Intermediate Maintenance with IPB, AT-828CA-MMI-030	Hard copy	2 each	FY86	On board
Bus Test Unit Electrical Assembly Intermediate Maintenance with IPB, AT-828CA-MMI-040	Hard copy	12 each	FY86	On board
CAT-RTE 4B Operating System, AT-828CA-MMI-050*	Hard copy	12 each	FY86	On board
RTE BASIC Programming Manual, AT-828CA-MMI-060	Hard copy	12 each	FY86	On board
CAT-IIID ATLAS Programming Manual, AT-828CA-MMI-070	Hard copy	12 each	FY86	On board
Power Supply PP-7802/USM-429(V), P/N A31U13224-3 Intermediate Maintenance with IPB, AT-828CA-MMI-080*	Hard copy	12 each	FY86	On board
Programmable Power Supply Assembly Intermediate Maintenance with IPB, AT-828CA-MMI-090	Hard copy	1 each	FY86	On board
Digital Word Generator Interface Device P/N A31U12602-31, AT-828CA-MMI-100	Hard copy	1 each	FY86	On board
Panel Interconnection Device Self-Test P/N A31U12606-1 Intermediate Maintenance with IPB, AT-828CA-MMI-110	Hard copy	12 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

### IV.B.3. TECHNICAL MANUALS

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005

**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)

**LOCATION, UIC:** NAS Oceana 66045

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Panel Interconnection Device Self-Certification Intermediate Maintenance with IPB, P/N A31U13613-3, AT-828CA-MMI-120	Hard copy	12 each	FY86	On board
Microprocessor timer/Counters Maintenance Manual, AT-828CA-MMI-130 4000A	Hard copy	12 each	FY86	Onboard
Power Control Unit C-11108/USM-429(V)1 Intermediate Maintenance with IPB, P/N A31U13290-1, AT-828CA-MMI-140	Hard copy	12 each	FY86	On board
Bus Test Unit P/N A31U12611-1 AT-828CA-MM1-150 J-4344/USM-429(V)	Hard copy	12 each	FY86	On board
AN/USM-429(V)1 Periodic Maintenance Requirement Manual Weapon System Test Station AN/USM-429(V)1, AT-828CA-MRC-000	Hard copy	12 each	FY86	On board
Functional Diagrams, AT-828CA-MMF-010*	Hard copy	12 each	FY86	On board
Roster Scan Color Image Display Model 5711 Installation, Operation and Maintenance Manual, AT-828CA-OM1-010	Hard copy	12 each	FY86	On board
Operating and Service Manual Model 3455/A Digital Voltmeter, AT-828CA-OMI-020	Hard copy	1 each	FY86	On board
RGB Roster Scan Color Display Model 7211, Operation and Maintenance Manual, AT-828CA-OM1-040	Hard copy	1 each	FY86	On board
12551B-01 Relay Register Operation and Service Manual, AT-828CA-OMI-030	Hard copy	1 each	FY86	On board
HP-12992 Loader ROMS Installation Manual, AT-828CA-IIN-010	Hard copy	1 each	FY86	On board
HP-12897B Dual Channel Port Controller Installation Manual, AT-828CA-IIN-030	Hard copy	1 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** NAS Oceana 66045

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
HP-12892B Memory Protection Installation Manual, AT-828CA-IIN-040	Hard copy	1 each	FY86	On board
HP-1000 E-Series Computer HP-2109B and HP-2113B Installation and Service Manual, AT-828CA-INM-010*	Hard copy	12 each	FY86	On board
HP-1000 M/E/F-Series Firmware Installation and Reference Manual, AT-828CA-INM-020	Hard copy	1 each	FY86	On board
12539C Time Base Generator Interface Kit Operating and Service Manual AT-828CA-INM-030	Hard copy	1 each	FY86	On board
12566B, 12566B-001, 12566B-002, 12566B-003 Microcircuit Interface Kits Operating and Service Manual, AT-828CA-INM-040	Hard copy	1 each	FY86	On board
9000A Microprocessing Timer/Counters Operating Manual, AT-828CA-INM-060	Hard copy	12 each	FY86	On board
13037 Disk Controller Installation and Service Manual, AT-828CA-INM-070*	Hard copy	1 each	FY86	On board
AN/USM-4201 Operation and Service Manual, AT-828CA-1NM-080	Hard copy	1 each	FY86	On board
12747A Standard Performance Memory and Service Manual, AT-828CA-INM-100	Hard copy	1 each	FY86	On board
HP12566C Microcircuit Interface Kit Installation and Service Manual, AT-828CA-1NM-110	Hard copy	1 each	FY86	On board
Programmable Pulse Generator Model 1504 Instruction Manual, AT-828CA-INS-010	Hard copy	12 each	FY86	On board
Programmable Signal Source Model 172B Instruction Manual, AT-828CA-INS-020	Hard copy	12 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** NAS Oceana 66045

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
KEPCO Power Supply Model ATE 6-10M Instruction Manual, AT-828CA-INS-030	Hard copy	1 each	FY86	On board
KEPCO Power Supply Model ATE 15-6M Instruction Manual, AT-828CA-INS-040	Hard copy	1 each	FY86	On board
KEPCO Power Supply Model ATE 36-6M Instruction Manual, AT-828CA-INS-050	Hard copy	1 each	FY86	On board
KEPCO Power Supply Model ATE 55-2M Instruction Manual, AT-828CA-INS-060	Hard copy	1 each	FY86	On board
SN-488 Digital Programming System Instruction Manual, AT-828CA-INS-070	Hard copy	12 each	FY86	On board
Model 172B Programmable Signal Source Instruction Manual, AT-828CA-INS-090	Hard copy	12 each	FY86	On board
Colorgraphic Monitor IPB, AT-828CA-MIB-010	Hard copy	12 each	FY86	On board
Keyboard and Cable Assembly, AT-828CA-MIB-020	Hard copy	12 each	FY86	On board
Thermal Graphics Printer P/N A31U13152-1 Intermediate Maintenance with IPB, AT-828CA-MIB-040	Hard copy	12 each	FY86	On board
Programmable Pulse Generator IPB P/N A31U29106-1, AT-828CA-MIB-050	Hard copy	1 each	FY86	On board
Digital Computer CP-1519/USM-429(V)1 P/N A31U13160-1,-3,-5 Intermediate Maintenance with IPB, AT-828CA-MIB-080*	Hard copy	1 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

### IV.B.3. TECHNICAL MANUALS

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** NAS Oceana 66045

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Power Supply Programmer Intermediate Maintenance with IPB, AT-828CA-MIB-090	Hard copy	1 each	FY86	On board
Color Graphic Generator, AT-828CA-MIB-100	Hard copy	1 each	FY86	On board
59310A Bus Input/Output Interface Kit, AT-828CA-MMC-010	Hard copy	12 each	FY86	On board
HP-79XX/13037 Disk Memory Diagnostics Reference Manual, AT-828CA-MMC-020	Hard copy	1 each	FY86	On board
Memory Reference Instructions Diagnostic Reference Manual, AT-828CA-MMC-030	Hard copy	1 each	FY86	On board
Alter-Skip Instructions Diagnostic Reference Manual, AT-828CA-MMC-040	Hard copy	1 each	FY86	On board
Shift Rotate Instruction Diagnostic Reference Manual, AT-828CA-MMC-050	Hard copy	1 each	FY86	On board
Semiconductor Memory Diagnostic Reference Manual, AT-828CA-MMC-060	Hard copy	1 each	FY86	On board
Extended Arithmetic Instructions Diagnostic Reference Manual, AT-828CA-MMC-070	Hard copy	1 each	FY86	On board
Memory Protect-Parity Error Diagnostic Reference Manual, AT-828CA-MMC-080	Hard copy	1 each	FY86	On board
Input-Output Instruction Group, I/O Channel, and I/O Extender Diagnostic Reference Manual, AT-828CA-MMC-090	Hard copy	1 each	FY86	On board
Memory Expansion Module Diagnostic Reference Manual, AT-828CA-MMC-100	Hard copy	1 each	FY86	On board
Extended Instruction Group Diagnostic Reference Manual, AT-828CA-MMC-110	Hard copy	1 each	FY86	On board
General Purpose Register Diagnostic Reference Manual, AT-828CA-MMC-120	Hard copy	1 each	FY86	On board
HP-59310A/B Interface Bus Interface Diagnostic Reference Manual, AT-828CA-MMC-130	Hard copy	1 each	FY86	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** NAS Oceana 66045

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Direct Memory Access (DMA) Dual Channel Port Controller Diagnostic Reference Manual, AT-828CA-MMC-140	Hard copy	1 each	FY86	On board
Thermal Graphics Printer 9876A, AT-828CA-MMC-150	Hard copy	12 each	FY86	On board
HP-1000 M/E/F Series Computer Manual Technical Reference Handbook, AT-828CA-MMC-160	Hard copy	12 each	FY86	On board
Data System Customer Support Handbook, AT-828CA-MMC-170	Hard copy	12 each	FY86	On board
HP-1000 Computers Engineering and Reference Documentation, AT-828CA-MMC-180	Hard copy	1 each	FY86	On board
HP-12539B/C Time Base Generator Diagnostic Reference Manual, AT-828CA-MMC-190	Hard copy	1 each	FY86	On board
HP-12889A Hardwired Serial Interface Diagnostic Reference Manual, AT-828CA-MMC-210	Hard copy	1 each	FY86	On board
Privileged Interrupt Fence Diagnostic Reference Manual, AT-828CA-MMC-220	Hard copy	1 each	FY86	On board
HP-1B IN HP-1000 Computer System User Manual, AT-828CA-OPI-010	Hard copy	1 each	FY86	On board
HP-1000 E-Series Computer HP-2109B and HP-2113B Operating and Reference Manual, AT-828CA-OPI-020	Hard copy	1 each	FY86	On board
AT-828RA-MIB-210 MU-1112/USM Memory Unit P/N A31U29879-1	Hard copy	12 each	FY86	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** NAS Oceana 66045

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
HP Series Mass Storage System Operator/Instruction Manual, HP-5962-1469**	Hard copy	12 each	FY86	On board
WSTS (CAT-IIID) Performance Specifications Grumman Aerospace Corporation, AT100S2-002*	Hard copy	1 each	FY86	On board
HP-1000 E Series Computer and HP-7906/13037 Disk Diagnostics (punched tape), Grumman Aerospace Corp., AT100-3M2-950	Hard copy	1 each	FY86	On board
Colorgraphics Terminal Maintenance Manual Grumman Aerospace Corp., AT16M1-000	Hard copy	1 each	FY86	On board
Smart Probe (Wizard I and II), Grumman Aerospace Corp., AT3M3-000	Hard copy	1 each	FY86	On board
Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies, and Equipment, DOD-HDBK-263	Hard copy	1 each	FY86	On board
AN/USM-429(V)1 Master Test Program Set Index, MTPSI-AN/USM-429(V)1*	Hard copy	1 each	FY86	On board
Technical Manual Standard Maintenance Practices Electronic Assembly Repair, NA 01-1A-23	Hard copy	12 each	FY86	On board
Throttle Control Computer Intermediate Maintenance with IPB, NA 05-20XAC-1	Hard copy	1 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

\*\* Added by ECP-10

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** NAS Oceana 66045

<b>TECHNICAL MANUAL TITLE, NUMBER</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Mobile Optical Unit Support Equipment Intermediate Maintenance with IPB, NA 10-1-800	Hard copy	12 each	FY86	On board
Television Camera Set AN/AXX-1 P/N 339009 Intermediate Maintenance, NA 10-10AC-133	Hard copy	1 each	FY86	On board
Television Camera Set IPB P/N 339000, NA 10-10AC-134	Hard copy	1 each	FY86	On board
Aeronautical Support Equipment Work Unit Code Manual, NA 16-1-8.1	Hard copy	2 each	FY86	On board
Aeronautical Support Equipment Flight Reference Communications Navigation Work Unit Code Manual, NA 16-1-8.2	Hard copy	2 each	FY86	On board
Aeronautical Support Equipment Flight Reference Communications Navigation Work Unit Code Manual, NA 16-1-8.3	Hard copy	1 each	FY86	On board
Aeronautical Support Equipment Multi-Function Multi-Application General Avionics Test/Check Equipment Work Unit Code Manual, NA 16-1-8.4	Hard copy	1 each	FY86	On board
Aeronautical Support Equipment Missile Test/Check Equipment Work Unit Code Manual, NA 16-1-8.5	Hard copy	1 each	FY86	On board
7906 Disk Drive Technical Information Package, NA 16-45-2100-43*	Hard copy	2 each	FY86	On board
Instrument Cal Procedures Manual, Self Cut Interconnection Device, NA17-20AX-546	Hard copy	2 each	FY86	On board
METRL, NA 17-35MTL-1	Hard copy	2 each	FY86	On board
The Naval Aviation Maintenance Program, OPNAVINST 4790.2 (series)	Hard copy	12 each	FY86	On board

\* CAT-IIID(V)1 Technical manuals were modified to include ECP-10 prior to fleet introduction in August 1997.

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** C-198-3601, CAT-IIID Operator-Maintainer Intermediate Maintenance, as part of track D-198-6005  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAGRU DET (Continued)  
**LOCATION, UIC:** NAS Oceana 66045

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Test Program Instructions DWG/DWGE SRA(s), TPIA31U12602****	Hard copy	1 each	FY86	On board
AN/USM-429(V)1 Test Program Instructions-Self Test, TPIA31U12606****	Hard copy	12 each	FY86	On board
Test Program Instructions, Colorgraphics Generator SRA(s), TPIA31U12610****	Hard copy	1 each	FY86	On board
Test Program Instructions BTU SRA(s), TPIA31U12611****	Hard copy	1 each	FY86	On board
AN/USM-429(V)1 Test Program Instructions-Self Certification, TPIA31U12613****	Hard copy	12 each	FY86	On board
Test Program Instruction, CAT-IIID, TCC (WRA/SRA), TPI(V)1A51S90350****	Hard copy	12 each	FY86	On board
Test Program Instruction, CAT-IIID, TCS, TPI(V)1A51S90680****	Hard copy	12 each	FY86	On board

\*\*\*\* These Test Program Instructions were updated to include ECP-10 and were released August 1997.

**PART V - MPT MILESTONES**

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
PDA	Promulgated ILS Master Plan for AN/USM-429 CAT-IIID	FY78	Completed
PDA	Awarded Production contract for AN/USM-429 CAT-IIID	FY78	Completed
ACNO/CMS	Programmed manpower and training resource requirements	FY78	Completed
PDA	Began TECHEVAL on AN/USM-429 CAT-IIID	FY78	Completed
TSA	Awarded Factory training and curriculum material contract	FY79	Completed
ACNO/	Initiated OPNAV Form 1000/4A	FY79	Completed
ACNO (MPT)/CMC	Allocated Fleet, instructor, support and student billets	FY79	Completed
ACNO (MPT)/CMC	Promulgated OPNAV Form 1000/2 or T/O	FY79	Completed
PDA	Fleet introduction of AN/USM-429 CAT-IIID	FY80	Completed
NPC/CMC (MM)	Ordered instructors and support personnel	10/82	Completed
TSA	Began training services for AN/USM-429(V)1 CAT-IIID(V)1	10/82	Completed
TSA	Began initial training for AN/USM-429(V)1 CAT-IIID(V)1	10/82	Completed
TSA	Delivered Technical Training Equipment	01/83	Completed
TSA	Delivered Curricula materials	01/83	Completed
PDA	Began TECHEVAL on AN/USM-429(V)1 CAT-IIID(V)1	FY84	Completed
PDA	Fleet introduction of AN/USM-429(V)1 CAT-IIID(V)1	FY84	Completed
TA	Began follow-on replacement training for AN/USM-429(V)1 CAT-IIID(V)1	08/84	Completed
PDA	Promulgated Draft NTP to ALCON for review and comment for AN/USM-429(V)1 CAT-IIID(V)1	12/86	Completed
PDA	Began analysis of manpower personnel and training requirements	05/87	Completed
PDA	Submitted Proposed NTP to OPNAV	07/87	Completed
PDA	Achieved Material Support Date	05/88	Completed
ACNO (MPT)	Approved and promulgated NTP	08/88	Completed
ACNO (MPT)	Approved and promulgated NTP	06/90	Completed
ACNO (MPT)	Promulgated Update Draft NTP	02/95	Completed
ACNO (MPT)	Promulgated Update Draft NTSP	07/97	Completed
ACNO (MPT)	Approved and promulgated NTSP	05/99	Completed
ACNO (MPT)	NTSP Update Conference		As required

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR  
ACTION REQUIRED

COMMAND ACTION

DUE DATE

STATUS

No action items pending.

**PART VII - POINTS OF CONTACT**

<b>NAME, ACTIVITY, CODE</b>	<b>FUNCTION</b>	<b>TELEPHONE NUMBERS COMMERCIAL, DSN, FAX INTERNET ADDRESS</b>
CDR James Woolway CNO N881B	Deputy Head, Plans, Policy, and Fleet Maintenance Support	(703) 604-7747, DSN 664 (703) 693-6972 (fax) woolway.james@hq.navy.mil
CAPT Frank Smith CNO N889H	Aviation Technical Training	(703) 604-7730, DSN 664 (703) 604-6939 (fax) smith.frank@hq.navy.mil
AZC Scott Dean CNO N889H7	NTSP Manager	(703) 604-7714 DSN 664 (703) 604-6939 (fax) dean.scott@hq.navy.mil
CDR Brian Mack CNO N122C1	Aviation Manpower	(703) 695-3247, DSN 225 (703) 614-5308 (fax) n122c1@bupers.navy.mil
Mr. Robert Zweibel CNO N75B	Training Technology Policy	(703) 614-1344, DSN 224 (703) 695-5698 (fax) zweibel.robert@hq.navy.mil
LTCOL Mike Thornton CMC ASL-34	Avionics Officer, Department of Aviation	(703) 614-1133, DSN 224 (703) 697-7343 (fax) thorntonj@hqi.usmc.mil
CAPT Owen Fletcher NAVAIRSYSCOM PMA260	Program Manager	(301) 757-6899, DSN 757 (301) 757-6902 (fax) fletcheror@navair.navy.mil
Mr. Dick Wong NAVAIRSYSCOM PMA260-D24	Acquisition Manager	(301) 757-6836, DSN 757 (301) 757-6902 (fax) wongdh@navair.navy.mil
ATC Jerome Faulk NAVAIRSYSCOM PMA205-3C1A	Assistant Program Manager, Training	(301) 757-8127 , DSN 757 (301) 757-6902 (fax) faulkja@navair.navy.mil
CAPT Robert Gibson NAVPERSCOM NPC-4B	Deputy Assistant, Chief of Military Personnel for Distribution	(901) 874-3529, DSN 882 (901) 874-2606 (fax) 4b@persnet.navy.mil
CDR Fredrick Lineberg NAVPERSCOM NPC-404	Branch Head, Aviation Rating	(901) 874-3691, DSN 882 (901) 874-2642 (fax) 404@persnet.navy.mil

**PART VII - POINTS OF CONTACT**

<b>NAME, ACTIVITY, CODE</b>	<b>FUNCTION</b>	<b>TELEPHONE NUMBERS COMMERCIAL, DSN, FAX INTERNET ADDRESS</b>
MAJ Frank Simonds MCCDC C5325A	Total Force Structure Division	(703) 784-6241, DSN 278 (703) 784-6072 (fax) zoid@mindless.com
Ms. Jenanne Wilson NAVAVNDEP North Island 3.1.4.4C	Logistics Manager (CFA)	(619) 545-3131, DSN 735 (619) 545-4047 (fax) wilson_j@a1.nadepni.navy.mil
Mr. Ernest Rodriguez NAVAVNDEP North Island 3.2.2.9	CAT-IIID/RADCOM Engineer (CFA)	(619) 545-4039, DSN 735 (619) 545-4047 (fax) rodriguez_t@a1.nadepni.navy.mil
CDR Ernest Hawkins CINCLANTFLT N-721	Aviation NTSP Manager	(757) 836-0101, DSN 836 (757) 836-0141 (fax) hawkinsel@clf.navy.mil
Mr. Robert Long CINCPACFLT N70	Deputy Director for Training	(808) 471-8542, DSN 471 (808) 471-8596 (fax) longrh@cpf.navy.mil
CAPT Paul Pratt USMC CNET ETE322	Aviation Technical Training	(850) 452-4883, DSN 922 (850) 452-4901 (fax) capt_paul_pratt@smtp.cnet.navy.mil
ATCS William Sanson NAMTRAGRU HQ N2215	ATE Training Coordinator	(904) 452-9708 ext. 249, DSN 922 (904) 452-9769 (fax) namtghq.n2215@smtp.cnet.navy.mil
Mr. John Smeaton NATEC 3.3A34	ATE Technical Publications	(619) 545-2229, DSN 735 (619) 545-1883 (fax) smeatonj@natec.navy.mil
Mr. John Adams COMNAVAIRPAC N422B1	Fleet Support, Avionics	(619) 545-1286, DSN 735 (619) 545-1285 (fax) adams.john.p@cnap.navy.mil
Mr. Ray Bishop COMNAVAIRLANT N422B2RB	Fleet Support, Avionics	(757) 444-3881, DSN 564 (757) 444-1690 (fax) bishopor@exchange.airlant.navy.mil
AT1 Jim Hamlin COMNAVAIRESFOR N4316	ATE Manager	(504) 678-5577, DSN 678 (504) 948-6579 (fax) hamlin@cnrf.nola.navy.mil

PART VII - POINTS OF CONTACT

<b>NAME, ACTIVITY, CODE</b>	<b>FUNCTION</b>	<b>TELEPHONE NUMBERS COMMERCIAL, DSN, FAX INTERNET ADDRESS</b>
Mr. Phil Szczyglowski NAVAIRSYSCOM AIR 3.4.1	Competency Manager	(301) 757-9182, DSN 757 (301) 342-4723 (fax) szczyglowspr@navair.navy.mil
AVCM Roger Lovern NAVAIRSYSCOM AIR 3.4.1	NTSP Manager	(301) 757-9183 DSN 757 (301) 342-4723 (fax) lovernre@navair.navy.mil
AMCS Greg Johnson NAVAIRSYSCOM AIR 3.4.1	NTSP Coordinator	(301) 757-9191, DSN 757 (301) 342-4723 (fax) johnsongp@navair.navy.mil
AE1 Richard Axtell NAVAIRSYSCOM 3.4.1	MPT Analyst	(301) 757-9187, DSN 757 (301) 342-4723 axtellra@navair.navy.mil