

**NAVY TRAINING SYSTEM PLAN**  
**FOR THE**  
**AN/USM-636(V) CONSOLIDATED**  
**AUTOMATED SUPPORT SYSTEM**

**N88-NTSP-A-50-8515C/D**

**DECEMBER 2000**

**AN/USM-636(V)**  
**CONSOLIDATED AUTOMATED SUPPORT SYSTEM**

**EXECUTIVE SUMMARY**

The AN/USM-636(V) Consolidated Automated Support System (CASS) is a computer-assisted, multi-functional Automatic Test Equipment (ATE) used to test various electronic components at Navy and Marine Corps Intermediate Maintenance Activities, Naval Weapons Stations, Naval Aviation Depots, and Naval Sea System Command support activities. The objective of the CASS program is to consolidate electronic and avionics support into one standard ATE system. The CASS program is expected to grow as new weapon systems emerge and additional testing requirements are identified. The CASS program is in Acquisition Phase III (Production, Deployment, and Operational Support). Milestone III was achieved on 28 March 1994 for the Hybrid (HYB), the Communication, Navigation, and Identification (CNI), and the Radio Frequency (RF) configurations. The Electro-Optical Plus (EO+) configuration Milestone III decision was achieved in December 1998. The Initial Operational Capability was achieved in October 1993.

CASS is a five-rack integrated test system. Additional racks configure the basic CASS station into more specialized testers. CASS is designed to accommodate variations in workload and allow for Test Program Set transferability among the different configurations. To alleviate a repeat of problems and deficiencies experienced in the fleet with older ATE hardware and software, the CASS procurement process employs the same requirements placed upon major weapon systems, including Developmental and Operational Testing directed by Test and Evaluation Master Plan guidelines.

Operation and maintenance of CASS is currently performed by Navy personnel from the Aviation Electronics Technician (AT) rating with Navy Enlisted Classification (NEC) 6704. AT personnel with NEC 6705 perform on-line calibration and advanced maintenance. Two new NECs were recently approved for the ancillary High Powered Device Test Subsystem (HPDTS), and the EO+ configuration; NECs 6723 and 6724 respectively. Marine Corps personnel with the Military Occupational Specialty (MOS) 6467 currently operate CASS and perform all maintenance including calibration. Two new MOSs have been proposed for EO+ and HPDTS.

Initial training has been completed for the four CASS configurations : HYB, CNI, RF, EO+; and the ancillary HPDTS. CASS follow-on training has been established at Maintenance Training Unit (MTU) 3010 Naval Air Maintenance Training Unit Oceana, Virginia, and MTU 3011 Naval Air Maintenance Training Group Detachment Miramar, California. The three established training tracks for AT 6704, AT 6705, and MOS 6467 have been revised and two new courses are being developed for the EO+ and HPDTS. This will result in two new training tracks for Navy personnel and two new tracks for Marine Corps personnel.

AN/USM-636(V)  
CONSOLIDATED AUTOMATED SUPPORT SYSTEM

TABLE OF CONTENTS

	<b>Page</b>
Executive Summary.....	i
List of Acronyms.....	iii
Preface.....	viii
 <b>PART I - TECHNICAL PROGRAM DATA</b>	
A. Nomenclature-Title-Program.....	I-1
B. Security Classification.....	I-1
C. Manpower, Personnel, and Training Principals.....	I-1
D. System Description.....	I-2
E. Developmental Test and Operational Test.....	I-2
F. Aircraft and/or Equipment/System/Subsystem Replaced.....	I-3
G. Description of New Development.....	I-5
H. Concepts.....	I-12
I. Onboard (In-Service) Training.....	I-29
J. Logistics Support.....	I-30
K. Schedules.....	I-31
L. Government-Furnished Equipment and Contractor-Furnished Equipment Training Requirements.....	I-33
M. Related NTSPs and Other Applicable Documents.....	I-33
 <b>PART II - BILLET AND PERSONNEL REQUIREMENTS.....</b>	 II-1
 <b>PART III - TRAINING REQUIREMENTS.....</b>	 III-1
 <b>PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS.....</b>	 IV-1
 <b>PART V - MPT MILESTONES.....</b>	 V-1
 <b>PART VI - DECISION ITEMS/ACTION REQUIRED.....</b>	 VI-1
 <b>PART VII - POINTS OF CONTACT.....</b>	 VII-1

AN/USM-636(V)  
CONSOLIDATED AUTOMATED SUPPORT SYSTEM

LIST OF ACRONYMS

AEGIS	Airborne Early Warning/Ground Environment Integration System
AIMD	Aircraft Intermediate Maintenance Department
ALSP	Acquisition Logistic Support Plan
AMRAAM	Advanced Medium Range Air-to-Air Missile
AMTCS	Aviation Maintenance Training Continuum System
AOB	Average Onboard
ASW	Anti-Submarine Warfare
AT	Aviation Electronics Technician
ATE	Automatic Test Equipment
ATI	Automated Technical Information
ATS	Automatic Test Set or Avionics Test Set
AUR	All-Up-Round
BIT	Built-In Test
CASS	Consolidated Automated Support System
CAT-IIID	Computerized Automatic Test - IIID
CD-ROM	Compact Disk-Read Only Memory
CEC	Cooperative Engagement Capability
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, Atlantic Fleet
CINCPACFLT	Commander in Chief, Pacific Fleet
CIP	CASS Implementation Plan
CM	Corrective Maintenance
CMC	Commandant Marine Corps
CNET	Chief, Naval Education and Training
CNI	Communication, Navigation, and Identification
CNO	Chief of Naval Operations
COTS	Commercial Off-The-Shelf
DICONS	Direct Instrument Control Software
DT	Developmental Test
ECP	Engineering Change Proposal
EETS	Electrical Equipment Test Set
EHD	External Hard Drive
EO	Electro-Optical

AN/USM-636(V)  
CONSOLIDATED AUTOMATED SUPPORT SYSTEM

LIST OF ACRONYMS

EO+	Electro-Optical Plus
EOSTS	Electro-Optical System Test Set
EOTS	Electro-Optical Test Set
ESTS	Electronic System Test Set
ETS	Exciter Test Station
FLIR	Forward Looking Infrared
FMS	Foreign Military Sales
FOT&E	Follow-On Test and Evaluation
FREST	Fleet Replacement Enlisted Skills Training
FY	Fiscal Year
GE	General Electric
GPI	General Purpose Interface
GWTS	Guided Weapons Test System
HARM	High-speed Anti-Radiation Missile
HATS	Hybrid Automatic Test Set
HPDTS	High Power Device Test Subsystem
HTML	Hyper Text Machine Language
HTS	Hybrid Test Set
HYB	Hybrid
IATS	Integrated Avionics Test Set
IMA	Intermediate Maintenance Activity
IMUTS	Inertial Measurement Unit Test Set
IO	Input-Output
IRSTS	Infrared Search and Track System
JTIDS	Joint Tactical Information Distribution System
LAN	Local Area Network
LFTS	Low Frequency Test Station
LHA	Amphibious Assault Ship (General Purpose)
LHD	Amphibious Assault Ship (Multi-Purpose)
LMIS	Lockheed Martin Information Systems

AN/USM-636(V)  
CONSOLIDATED AUTOMATED SUPPORT SYSTEM

LIST OF ACRONYMS

LSA	Logistics Support Analysis
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MOS	Military Occupational Specialty
MSD	Material Support Date
MTU	Maintenance Training Unit
NA	Not Applicable
NALCOMIS	Naval Air Logistics Command Management Information System
NAMTRAGRU	Naval Air Maintenance Training Group
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAMTRAU	Naval Air Maintenance Training Unit
NATEC	Naval Air Technical Data and Engineering Service Command
NAVAIRSYSCOM	Naval Air Systems Command
NAVAVNDEPOT	Naval Aviation Depot
NAVPERSCOM	Naval Personnel Command
NAVSEASYSYSCOM	Naval Sea Systems Command
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWCWD	Naval Air Warfare Center Weapon Division
NEC	Navy Enlisted Classification
NEWTS	New Electronic Warfare Test Set
NOAA	National Oceanographic and Atmospheric Agency
NSD	Navy Support Date
NTSP	Navy Training System Plan
NUWC	Naval Underwater Warfare Center
NWS	Naval Weapon Station
OMS	Operational Management System
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	OPNAV Instruction
OPO	Office of the Chief of Naval Operations Principal Official
OPTEVFOR	Operational Test and Evaluation Force
OR	Optical Reader
OT	Operational Test

AN/USM-636(V)  
CONSOLIDATED AUTOMATED SUPPORT SYSTEM

LIST OF ACRONYMS

OTPS	Operational Test Program Set
PM	Preventive Maintenance
PMA	Program Manager, Air
RADCOM	Radar Countermeasures
RF	Radio Frequency
RFT	Ready For Training
RFTS	Radio Frequency Test Station
RRS	Recorder Reproducer Set
RSTS	Radar System Test Set
RTCASS	Reconfigurable-Transportable CASS
SEAOPDET	Sea Operational Detachment
SGMA	Synchro Generation Measurement Asset
SIMA	Shore Intermediate Maintenance Activity
SMAT	Self Maintenance Test
SMS	Surface Missile System
SOS	Support of Support
SPAWARSYSCOM	Space and Naval Warfare Systems Command
SRA	Shop Replaceable Assembly
TD	Training Device
TFS	Total Force Structure
TIF	Test Integration Facility
TP	Test Program
TPI	Test Program Instruction
TPS	Test Program Set
TTE	Technical Training Equipment
UEU	Universal Exciter Upgrade
ULSS	User Logistics Support Summary
UUT	Unit Under Test
VME	Virtual Memory Extension
VAST	Versatile Avionics Shop Test
VTS	Video Test Station

**AN/USM-636(V)**  
**CONSOLIDATED AUTOMATED SUPPORT SYSTEM**

**LIST OF ACRONYMS**

VXI	Virtual Memory Extension (VME) Extended for Instrumentation
WRA	Weapon Replaceable Assembly

**AN/USM-636(V)**  
**CONSOLIDATED AUTOMATED SUPPORT SYSTEM**

**PREFACE**

This Draft Navy Training System Plan (NTSP) for the AN/USM-636(V) Consolidated Automated Support System (CASS) was prepared by the Naval Air Systems Command (NAVAIRSYSCOM) as part of the regular NTSP update process within the guidelines set forth in the Navy Training Requirements Documentation Manual. This NTSP reflects the changes that have occurred since the last CASS Draft NTSP, A-50-8515C/D, dated June 1998, which was not distributed to the fleet due to rapid and extensive changes in the program that were not reflected in that iteration. (The last approved CASS NTSP is dated July 1995.) The major changes to this NTSP consist of:

- Approved Engineering Change Proposals (ECPs) for the Hybrid (HYB); Communication, Navigation, and Identification (CNI); Radio Frequency (RF); and Electro-Optical (EO) configurations
- One new CASS configuration: Reconfigurable Transportable CASS (RTCASS)
- One new ancillary device: High Power Device Test Subsystem (HPDTS)
- A manpower rate increase for the Navy Advanced Maintenance-Calibration Technician from one per ten stations per shift to one per five stations per shift
- A proposed manpower rate increase for the Marine Corps Operator-Maintainer-Calibration Technician from one per station per shift to two per station per shift
- Two new approved Navy Enlisted Classifications (NEC) for the Electro-Optical Plus (EO+) and HPDTS
- Two new proposed Military Occupational Specialties (MOS) for the EO+ and HPDTS
- An updated listing of CASS-supported systems
- The revised Navy Support Dates (NSD) and Material Support Dates (MSD)
- An updated, summarized CASS delivery schedule by activity and updated Technical Training Equipment (TTE) delivery schedule
- Information concerning Foreign Military Sales (FMS) and teaming efforts
- The installation of CASS aboard amphibious assault ships (hard-sited) vice mobile facilities (vans)

**PART I - TECHNICAL PROGRAM DATA**

**A. NOMENCLATURE-TITLE-PROGRAM**

**1. Nomenclature-Title-Acronym.** AN/USM-636(V) Consolidated Automated Support System (CASS)

**2. Program Element.** 64215N

**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 (N885D1)
- Marine Corps Program Sponsor..... CMC (ASL34)
- Developing Agency..... NAVAIRSYSCOM (PMA260)
- Training Agency ..... CINCLANTFLT  
CINCPACFLT  
CNET  
MCCDC
- Training Support Agency..... NAVAIRSYSCOM (PMA205)
- Manpower and Personnel Mission Sponsor ..... CNO (N12)  
NAVPERSCOM (PERS-4, PERS-404)  
CMC (ASM-1)
- Director of Naval Training..... CNO (N7)
- Marine Corps Force Structure..... MCCDC (C53)  
CMC (ASM-1)

## **D. SYSTEM DESCRIPTION**

**1. Operational Uses.** The AN/USM-636(V) CASS is a computer-assisted, multi-functional, Automatic Test Equipment (ATE) designed to fulfill current and future automatic testing requirements. CASS is used to test various electronic components at Navy and Marine Corps Intermediate Maintenance Activities (IMA), Naval Weapons Stations (NWS), Naval Sea System Command (NAVSEASYS COM) support activities, and Naval Aviation Depots (NAVAVNDEPOT). Currently, there are five CASS configurations with 90 percent hardware commonality. Additional configurations have been developed to support guided munitions All-Up-Round (AUR) testing and to support Marine Corps forward deployed rotary wing aircraft.

CASS is currently targeted to support systems in the AV-8B, E-2C, EA-6B, F/A-18, F-14, H-60, P-3C, S-3B, and V-22 aircraft. CASS also provides maintenance support for the Advanced Medium Range Air-to-Air Missile (AMRAAM) and High-speed Anti-Radiation Missile (HARM), airborne and battle group Joint Tactical Information Distribution System (JTIDS), and the SQQ-89 Airborne Early Warning/Ground Environment Integration System (AEGIS) Antisubmarine Warfare (ASW) Combat System. Several older ATE systems (referred to as "legacy") will transition their workload to CASS. Initially, these include AN/USM-247 Versatile Avionics Shop Test (VAST), AN/AAM-60(V)6 Electro-Optical System Test Set (EOSTS), and AN/USM-403 Hybrid Automatic Test Set (HATS) offloads. Other ATE, non-ATE, and interim support equipment workloads will transition as new systems emerge.

Future CASS applications will include other NAVAIRSYSCOM, NAVSEASYS COM, and Space and Naval Warfare Systems Command (SPAWARSYS COM) weapon systems.

**2. Foreign Military Sales.** A cooperative agreement between NAVAIRSYSCOM, Lockheed Martin Information Systems (LMIS), and INDRA DTD (based in Spain) resulted in the joint undertaking of developing of a new configuration, the RTCASS, with all three parties sharing equally in the cost. INDRA has an interest in this program because the government of Spain has purchased several Navy systems including the F/A-18, AV-8B, SH-60B, P-3C, Harpoon, Sidewinder, Sparrow, Evolved Sea Sparrow, HARM, FFG-7, and AEGIS Combat System.

Additional FMS are planned for Malaysia, Finland, Switzerland, and Italy. For additional information on CASS FMS, contact Program Manager, Air (PMA) 260A1. In addition to the FMS addressed above, the National Oceanographic and Atmospheric Agency (NOAA) procured CASS to support its electronic weather monitoring systems.

**E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** PMA260 has the overall responsibility for the development and coordination of testing for CASS. Naval Air Warfare Center Aircraft Division (NAWCAD) Patuxent River, Maryland, is responsible for conducting Developmental Tests (DT). Operational Test and Evaluation Force (OPTEVFOR) is responsible for conducting Operational Tests (OT).

- DT-IIA and DT-IIB were conducted at the General Electric (GE) facilities in Huntsville, Alabama, from October 1987 to March 1990.
- DT-IIC Phases I through III were conducted at NAWCAD Patuxent River from April 1990 to April 1993.
- OT-IIA through OT-IIC were conducted under OPTEVFOR guidance at Aircraft Intermediate Maintenance Department (AIMD), Naval Air Station Patuxent River, from April 1990 to July 1993.
- Follow-On Test and Evaluation (FOT&E), DT-IIIA, was conducted at the Test Integration Facility (TIF) Jacksonville, Florida, from May through June 1993, on the JTIDS Test Program Set (TPS).
- DT-IIIB for the EO+ CASS station was completed in February 1998 at TIF Jacksonville.
- CASS FOT&E, OT-IIIA, was conducted at NAWCAD Patuxent River and completed in September 1995. OT-IIIB was completed in August 1998.
- RTCASS has completed the systems requirements review, the hardware, software, self-test, and calibration engineering requirements review, and is currently undergoing a system integration review. Two RTCASS prototypes performed a demonstration in May 2000. A DT/OT schedule is in development and will be included in future updates to this NTSP.

Additional DTs are required as new TPSs and advancements in the CASS program are developed; contact PMA260D1 for specific information. As new CASS configurations are developed in the future, they will require OT and will be included in this NTSP.

## **F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED**

**1. Legacy Automatic Test Equipment.** The following ATE systems will be replaced by CASS as they become obsolete or are no longer cost effective to support:

**TABLE I-1 - PHASE I ATE OFF-LOADS**

<b>NOMENCLATURE</b>	<b>TITLE</b>	<b>BEGIN DATE</b>
AN/AAM-60(V)4/6	Electro-Optical System Test Set (EOSTS)	FY99
AN/APM-446	Radar System Test Set (RSTS)	FY01
AN/APM-438/469	Transmitter Test Station (TTS)	FY97
AN/APM-457	Recorder Reproducer Set (RRS)	FY01

<b>NOMENCLATURE</b>	<b>TITLE</b>	<b>BEGIN DATE</b>
AN/ASM-604	Electrical Equipment Test Set (EETS)	FY00
AN/ASM-614	Electronic System Test Set (ESTS)	FY97 (completed)
AN/ASM-686	Integrated Avionics Test Set (IATS)	FY00
AN/AWM-23	Computer Test Station (CTS)	FY01
AN/AWM-23	Controls and Display Test Station (CDTS)	FY01
AN/AWM-23	Low Frequency Test Station (LFTS)	FY01
AN/AWM-23	Radio Frequency Test Station (RFTS)	FY00
AN/USM-247	Versatile Avionics Shop Test (VAST)	FY96 (completed)
AN/USM-392B	Digital Module Test Set (DMTS)	FY02
AN/USM-403	Hybrid Automatic Test Set (HATS)	FY99
AN/USM-470(V)1	Avionics Test Set [ATS(V)1]	FY98
AN/USM-470(V)2	Avionics Test Set [ATS(V)2] (for F-14) a.k.a. Tailored Mini-VAST (TMV)	FY96
AN/USM-484	Hybrid Test Set (HTS) (for AV-8B)	FY00
AN/USM-629	Electro-Optical Test Set (EOTS)	FY01
OJ-615/ALM	Countermeasures Test Console	FY01

The legacy ATE offload to CASS is being accomplished in two phases. Phase I is well underway. Phase II of the legacy ATE offload to CASS project will group the following ATE systems into one competitively awarded contract.

**TABLE I-2 - PHASE II ATE OFF-LOADS**

<b>NOMENCLATURE</b>	<b>NAME</b>	<b>BEGIN DATE</b>
AN/USM-429	Computerized Automatic Test (CAT-IIID)	FY03

AN/USM-467	Weapon System Test Station (WSTS) a.k.a. Radar Communication (RADCOM)	FY03
AN/USM-484	HTS (for S-3B, EA-6B, F/A-18, H-60)	FY03
AN/SSM-9	Video Test Station (VTS)	FY04
AN/USM-458C(V)	New Electronic Warfare Test Set (NEWTS)	FY04
OJ-510/ALM	Digital Test Bench (DTB)	FY04
OJ-511/ALM	Exciter Test Station (ETS)	FY04
AN/USM-470(V)2	ATS(V)2 (for SH-60)	FY05

**2. Next Test.** NAVAIRSYSCOM has recognized that it will need to begin replacing the older versions of CASS stations beginning in 2006 due to obsolescence of Commercial Off-The-Shelf (COTS) technologies, physical deterioration, and escalating support costs. Development has begun on the next generation automatic test system, called Next Test, or NxTest, which will use innovative maturing test technology. Hardware will focus on test functions vice stand-alone test instruments, and Virtual Memory Extension (VME) Extended for Instrumentation (VXI) software is expected to significantly reduce the amount of hardware required.

NxTest will require much less hardware than CASS which means reduced acquisition costs, reduced operating and support costs, reduced space requirements (key in a shipboard or field environment), greater reliability, and easier maintenance and upgrades. NxTest will probably co-exist with CASS at certain sites as well as re-hosting legacy CASS TPSs onto NxTest. Compatibility between the current and mid-term CASS and NxTest will be ensured.

## G. DESCRIPTION OF NEW DEVELOPMENT

### 1. Functional Description

**a. CASS Station.** The basic CASS station is a five-rack integrated test system known as the Hybrid Tester. The addition of specialized racks to the Hybrid Tester allows CASS to be configured into additional types of testers. CASS is designed to accommodate variations in workload and to allow for TPS transferability among the different configurations. Currently, there are seven CASS configurations:

- Hybrid (HYB)
- Radio Frequency (RF)
- Communication, Navigation, Identification (CNI)
- Electro-Optical (EO)

- High Power Device Test Set (HPDTS)
- Reconfigurable Transportable (RTCASS)
- Guided Weapons Test System (GWTS)

CASS features instrument-on-a-card architecture. The instruments communicate with the asset controller card, which, in turn, communicates with the host computer via an ethernet communications network. CASS also contains an external ethernet line for Local Area Network (LAN) communications between CASS stations. CASS is capable of performing simultaneous stimulus and measurements, either synchronously or asynchronously controlled. For the Operator-Maintainer, CASS offers a 79-key keyboard, a barcode reader wand, and a trackball assembly as control input devices. CASS software for the Operator-Maintainer interface is menu driven and symbolized by icons on a flat panel screen. Each icon represents actions to be performed by the system. Each symbol is self-explanatory; however, an explanation in the form of a small English-language caption is also provided.

The original CASS stations from Lot 1, Low Rate Initial Production, are now known as Block 1. The subsequent production lots that were upgraded with ECPs, AN/USM-636A(V), are commonly known as Block 2. The purpose of the ECPs are to increase reliability, reduce costs, reduce space requirements, and maintain 100 percent TPS compatibility. An ECP for the EO configuration incorporated new technologies and components to improve the reliability, maintainability, supportability, and performance. These improvements include reduced life cycle and acquisition costs, reduced system weight by 800 pounds, and simplified calibration procedures. The improved EO configuration is called the EO+.

### **(1) CASS Configurations**

**(a) Hybrid.** The HYB station is used for general purpose testing of various systems and subsystems for electrical, electronics, computers, instruments, and flight controls. It uses ancillaries to test pneumatics, displays, and inertial navigation systems.

**(b) Radio Frequency.** The RF station has the basic test capability of the HYB plus electronic countermeasures, electronic counter countermeasures, electronic warfare support measures, fire control radar, navigation radar, tracking radar, surveillance radar, and radar altimeter test capabilities.

**(c) Communication, Navigation, Identification.** The CNI station performs the RF station capability plus communications, navigation, and spread spectrum systems testing.

**(d) Electro-Optical.** The EO station performs the basic test functions as well as testing Forward Looking Infrared (FLIR), lasers and designators, Laser Range Finders, and visual systems.

**(e) High Power Device Test Subsystem.** The HPDTS ancillary device is designed to provide high power stimulus and measurement functions during testing. By providing a seventh rack to the RF station and integrated Operational Test Program Sets (OTPS),

the HPDTS provides automatic capabilities to test avionics units whose technology encompasses special needs such as high power RF, high voltage, and high current systems.

At least four legacy radar transmitter test stations and their liquid cooling stations will be replaced. The initial suite of offloaded legacy testers include the AN/APM-446 RSTS (F/A-18 and AV-8B radar), AN/APM-457 (S-3B radar and P-3C), AN/AWM-23 RFTS/LFTS (F-14 radar), and OJ-615/ALM Countermeasures Test Console (EA-6B transmitters).

**(f) Reconfigurable Transportable CASS.** The RTCASS is a separate and distinct subsystem of CASS being developed under a cooperative agreement between LMIS, NAVAIRSYSCOM, and INDRA (Spain). RTCASS will initially support the Marine Corps' MV-22 and U.S. Special Operations Command's CV-22 aircraft. The Spanish Air Force has decided to support their F/A-18 Aircraft on RTCASS. INDRA is awaiting a contract to offload AIRSIM (an earlier version of AN/ASM-686 IATS) and AN/USM-484 HTS to RTCASS. If this occurs, the Marine Corps could have an option to support their F/A-18s on either RTCASS or CASS.

RTCASS will use COTS hardware, VXI, and COTS system software (PC-based with Windows NT and a commercial software runtime system). Due to asset transportability, RTCASS TPSs must be upwardly compatible with mainframe CASS. RTCASS will consist of nine cases (vice racks) that are arranged in a three-wide by three-high matrix. Each case will be ruggedized to allow for transportability.

Each RTCASS case will be physically connected to all adjacent cases using blind floating connectors and will be mated using connector cross-rods. No external cables will be required between the cases except for peripheral and ancillary equipment. The peripheral hardware, such as the keyboard, trackball or mouse, printer, and display will be transported in a separate ruggedized container. The display, which is identical to mainframe CASS, will be capable of being mounted and fastened to the side of the nine-box configuration or set upon the platform tabletop. RTCASS will use the CASS General Purpose Interface (GPI), and when the display is mounted on the platform tabletop, the GPI will be positioned at the same height as on a mainframe CASS.

RTCASS will be capable of easy reconfiguration for various mission roles. From a capabilities standpoint, the system may be configured for analog or digital testing requiring only four or six crates, or up to a nine-crate RF configuration that is nearly equivalent to a CASS RF station. The ability to reconfigure the system will allow for the most cost effective test capability to be deployed.

**(g) Guided Weapons Test System.** The GWTS has been developed to support AUR testing requirements of the AMRAAM at Joint Service depots. This is a stand-alone configuration using some CASS components but is not compatible with other CASS configurations and TPSs. Like the basic CASS configurations, it has open architecture

with expansion and adaptability features to meet future guided munitions needs. Due to its very limited use, the GWTS is not included in Parts II and III of this NTSP.

**(2) Automated Technical Information.** CASS technical manuals have been developed in a digital format suitable for display on CASS and are known as Automated Technical Information (ATI). Technical information for TPSs may or may not be in digital format. Due to the high cost of producing ATI updates and the availability of current digital-format technology, CASS has started transitioning from the ATI format to a Hyper Text Machine Language (HTML)/Compact Disk-Read Only Memory (CD-ROM) format.

**(3) Plasma Displays.** Plasma displays are flat screen displays that use a gas to convert electrical energy into light. Plasma displays work on a principle similar to that of neon signs. The displays are 12 inches by 14 inches and swivel to provide maximum visual access to the Operator-Maintainer. Due to parts obsolescence, current monochrome displays will be upgraded with higher resolution color displays through ECP MKXE-E084. The color displays will allow for future touch-screen capabilities through software enhancements. The new display assembly will be compatible with the existing mounts. This ECP includes replacing the display assembly and cables, and changing dipswitch settings on the computer graphics card.

**(4) Ethernet Local Area Network.** The ethernet is a high speed LAN used to interface between CASS stations. Ethernet uses Carrier-Sense-Multiple-Access with Collision Detection. A device listens for a clear channel before transmitting. If the channel is in use (carrier sensed), the device delays transmission. Since all of the devices have equal access to the network, ethernet is deemed a multiple access network. If two devices try to transmit data simultaneously over a previously clear channel, ethernet will sense this condition (collision), stop the transmission, and attempt to retransmit the data after waiting a randomly selected time.

**b. CASS Test Program Sets.** A TPS is used to verify the performance of a Unit Under Test (UUT) and to isolate a failure to a required level. A TPS is usually developed for a unique UUT and contains four basic elements:

**(1) Test Program.** The Test Program (TP) contains a coded sequence which, when executed by CASS, provides a set of instructions that automatically determines the performance (operational readiness condition) of the UUT. For diagnostic programs, the TP isolates to a faulty subassembly or piece part.

**(2) Interface Device.** The Interface Device provides mechanical connections, electrical connections, and signal conditioning, as required, between CASS and the UUT. It may contain additional electronics that augment CASS's capability.

**(3) Test Program Instruction.** The Test Program Instruction (TPI) provides information needed for testing (i.e., hook-up, probe point locations, extra equipment) that cannot be conveniently provided or displayed by CASS under TP control.

**(4) Supplementary Data.** This data consists of information, text, schematics, and logic diagrams necessary for analysis of the TPS and UUT in the event of a problem or anomaly during the testing process.

**c. CASS Supported Systems.** The current CASS Implementation Plan (CIP) indicates plans for CASS TPS development for the following specific systems. The CIP is available on the World Wide Web at <http://pma260.navy.mil/cass/cip>

- Advanced Tactical Air Reconnaissance System (ATARS)
- AH-1W
- Airborne Cooperative Engagement Capability (CEC)
- AMRAAM
- AN/ALE-47
- AN/ALE-50
- AN/ALQ-126B RF System Shop Replaceable Assembly (SRA)
- AN/ALR-67(V)3/4
- AN/APG-73 SRAs and Weapon Replaceable Assembly (WRA)
- AN/APS-137
- AN/SQQ-89(V) AEGIS ASW
- AV-8B II+
- E-2C AN/ASW-50
- E-2C ECPs 418 and 410R1
- EA-6B B10 Standard Facility Equipment
- EA-6B High/Low Band Transmitter
- EA-6B Universal Exciter Upgrade (UEU) SRAs and WRA
- F-14 Computer Signal Data Converter
- F-14 Control Indicator Bus Controller
- F-14 Mission Computer
- F-14 Programmable Multi Display Indicator Group
- F-14B/D Common SRA
- F-14 Programmable Tactical Indicator Display
- F-14D Infrared Search and Track System (IRSTS) SRA and WRA
- F-14D Radar SRA
- F-14D Surface Missile System (SMS)
- F-14D WRA
- F/A-18 SMS
- F/A-18C/D Combined Interrogator-Transponder
- F/A-18C/D FLIR
- F/A-18E/F
- F/A-18E/F Full Authority Digital Engine Control
- HARM
- JTIDS SRA and WRA
- Multifunctional Information Distribution System Low Volume Terminal
- MV-22 SRA and WRA
- Naval Underwater Warfare Center (NUWC) Keyport, Wash., programs

- SH-60B/R Advanced Low Frequency Sonar
- SH-60B/R Block II
- SH-60B/R Keysets
- SH-60B/R Multiplexer-Demultiplexer
- Shipboard CEC
- T-45 Test Set Baseline WRAs
- T-45 Test Set Cockpit - 21 WRAs

**d. Ancillary Equipment.** Several pieces of ancillary equipment are or will be used with CASS for varying applications or to run specific TPSs. These include the Pneumatic Function Generator, RS-485 Manchester/Harpoon Test Set as part of the Advanced Communications Bus Interface, Video Pattern Generator, RF Probe, common antenna test stands, and printer. Refer to the CIP for additional information on ancillary equipment.

**e. Optical Reader System.** The Optical Reader (OR) System provides access to the ATI without diverting a CASS station. The OR consists of a viewing screen, a micro-VAX, and an optical hard drive. It is employed both in the fleet and the classroom.

The CASS program has begun to transition from the ATI format to an HTML/CD-ROM format. Several factors leading to this transition include current technologies that were not available during the initial development of CASS and ATI, better availability of desktop computers at fleet activities, high cost of ATI updates, and future supportability of the OR. No transition schedule has been developed, but the OR will eventually become obsolete and phased out of inventory with desktop computers taking their place.

**2. Physical Description.** The CASS HYB configuration consists of five electronic equipment racks connected together with the appropriate cabling. Additional specialized racks are added to produce the other main CASS configurations.

**TABLE I-3 - OPERATING DIMENSIONS**

<b>CONFIGURATION</b>	<b>DEPTH (INCHES)</b>	<b>WIDTH (INCHES)</b>	<b>HEIGHT (INCHES)</b>	<b>WEIGHT (POUNDS)</b>
HYB	54	128	83	4304
EO+	96	231	83	5294
RF	54	152	83	5112
CNI	54	152	83	5112
HPDTS	54	223	83	6619

For the RTCASS, the case dimensions are 16 inches high by 22 inches wide by 30 inches deep and a fully loaded case will weigh no more than 150 pounds.

HYB, RF, CNI, and HPDTS stations use up-flow ambient air as a cooling medium, thus eliminating the requirement for external air conditioning. Ambient airflow is accomplished using internal fans and heat sinks with adequate surface areas to enhance heat dissipation. The EO+ configuration collimator (sixth rack) eliminates the forced air cooling system that its predecessor required.

**3. New Development Introduction.** CASS was introduced as new production equipment. It is installed on aircraft carriers during the fleet modernization program and as an initial installation item on new construction ships. At shore installations, CASS is installed to replace legacy ATE and support various emerging systems. CASS will be installed on amphibious assault ships during the fleet modernization program.

**4. Significant Interfaces.** Not Applicable (NA)

**5. New Features, Configurations, or Material**

**a. Operational Management System.** A new capability for CASS, known as Operational Management System (OMS), has been developed to provide “NALCOMIS-like” (Naval Air Logistics Command Management Information System) management information from a network of CASS stations. OMS automatically collects CASS asset and UUT failure data, as well as schedules, and monitors CASS jobs. A beta test was conducted to collect CASS asset failure data to assist the CASS Fleet Support Team, identify existing reporting capabilities, and determine the feasibility of sending the data up-line through NALCOMIS. This test began in March 1997 and was completed in September 1999. OMS is currently being installed at all CASS afloat/ashore sites.

**b. AEGIS Class Ship Support.** The feasibility of a new configuration of CASS is being explored for AEGIS-class ships. Although it is not a requirement at this time, the new configuration would be a smaller, reconfigurable version featuring more flexibility in its configurations. This reconfigurable CASS would provide specific testing capabilities for the weapon system supported.

**c. Ancillaries**

**(1) Synchro Generation Measurement Asset.** The Synchro Generation Measurement Asset (SGMA) will be installed in HYB stations to provide additional capability in support of legacy ATE offloads for AN/USM-247 VAST (S-3 Lot 5), AN/USM-403 HATS (S-3 Lots 1 and 2), and AN/APM-446 RSTS (Lot 1). Current plans are to deliver two kits, consisting of three SGMAs per kit, to each carrier, AIMD Jacksonville, AIMD North Island, AIMD Lemoore, and AIMD Oceana.

**(2) External Hard Drive.** The External Hard Drive (EHD) has been fielded to the fleet and TPS developer sites to allow classified TPSs to run without entering classified data onto the CASS station's internal hard drive. TPSs currently requiring an EHD are:

- AN/ALQ-126B RF SRA
- AV-8BII+
- AN/APG-73 WRA and SRA
- AN/APM-446 RSTS Lot 1 and Lot 3
- EA-6B UEU WRA
- AN/APM-446 HPDTS offload
- F-14D IRSTS WRA
- AN/USM-629 EOTS offload

## **H. CONCEPTS**

**1. Operational Concept.** CASS is used at AIMDs ashore and afloat, Marine Aviation Logistics Squadrons (MALS), NAVAVNDEPOTs, NWSs, and other support sites. CASS will be used at Shore Intermediate Maintenance Activities (SIMA) when requirements are identified. CASS is capable of operating 23 hours a day. One hour is scheduled for daily maintenance.

At Navy activities, CASS is operated by Aviation Electronics Technician (AT) personnel with NEC 6704 (E-3 through E-6), CASS Test Station IMA Operator-Maintainer. Two new NECs were approved in June 2000 to operate the HPDTS station and the EO+ station, AT 6723 and AT 6724, respectively. CASS stations are operated during two eight-hour shifts, five days per week at shore AIMDs and two 12-hour shifts, seven days per week on deployed carrier AIMDs.

Currently, Marine Corps personnel with MOS 6467, CASS Technician, IMA (E-1 through E-5), operate CASS and perform all the required maintenance including on-line calibration and advanced maintenance. A Marine Corps proposal is to establish two new CASS MOSs by transitioning MOS 6463, Radar Technician, to Radar (High Power) Operator 676X, and MOS 6466 FLIR/EOTS Technician, to EO Operator 676Y. CASS stations are operated during two 12-hour shifts, seven days per week at all sites.

**2. Maintenance Concept.** The design requirements for CASS include Built-In Test (BIT), Built-In Test Equipment, and Self Maintenance Test (SMAT). CASS detects system malfunctions on-line and automatically fault isolates to the failed SRA. Applicable CASS work center personnel remove and replace the defective assembly. Removed components are replaced or repaired and then calibrated, as required, at the designated level of repair. All maintenance requirements for CASS are at the intermediate and depot levels. The maintenance concept for CASS is based on the Naval Aviation Maintenance Program Manual, Office of the Chief of Naval Operations Instruction (OPNAVINST) 4790.2 (series), and each system's Maintenance Plan.

### **a. Organizational. NA**

**b. Intermediate.** CASS is operated, maintained, and calibrated at the various work centers where CASS is installed. Off-line maintenance consists of fault isolation to the component level using Support of Support (SOS) OTPSs and the subsequent removal and replacement of defective components. If an embedded standard is removed and replaced as the result of maintenance actions, the CASS station must be recalibrated using the Calibration OTPS. Embedded standards are used to calibrate the system as required by the appropriate maintenance instruction manual.

Two NECs have been established to designate the trained CASS Operator-Maintainers and Advanced Maintenance-Calibration Technicians. AT personnel with NEC 6704 (E-3 through E-6), CASS Test Station IMA Operator-Maintainer, operate HYB, CNI, and RF CASS stations, perform SMAT, and repair UUTs. AT personnel with NEC 6705 (E-5 through E-7), CASS Test Station IMA Advanced Maintenance-Calibration Technician, perform on-line calibration and advanced maintenance of CASS. Two new NECs were recently approved to designate specially trained CASS Operator-Maintainers for the EO+ and HPDTS configurations. Due to the complexity and safety concerns of the two configurations involved, these two additional NECs will allow for specialization as either an EO+ / FLIR CASS Operator-Maintainer, NEC 6724, or a HPDTS CASS Operator-Maintainer, NEC 6723.

Currently, Marine Corps personnel with the MOS 6467, CASS Technician, IMA (E-1 through E-5), operate CASS, perform all the required maintenance including on-line calibration and advanced maintenance, and repair UUTs. With the same rationale stated above, the Marine Corps plans to establish two new MOSs for the HPDTS and EO+ configurations: Radar (High Power) Operator MOS 676X and EO Operator MOS 676Y.

**(1) Preventive Maintenance.** Preventive Maintenance (PM) consists of daily confidence tests and scheduled maintenance tasks including disk software maintenance at prescribed calendar or operating time intervals. PM is performed by Navy Operator-Maintainers and Marine Corps CASS Technicians. CASS has an annual system calibration requirement, which is performed by Navy Advanced Maintenance-Calibration Technicians and Marine Corps CASS Technicians.

**(2) Corrective Maintenance.** Corrective Maintenance (CM) actions on CASS station modules and ancillary equipment consist of repair or replacement of defective or unserviceable modules or SRAs. If the embedded standard is removed and replaced as the result of an unscheduled maintenance action, the system must be recalibrated before use.

**(3) System Testing.** CASS has four levels of testing that monitor operation and, in the event of a failure, notify the operator of the failure and the cause. Levels One and Two are Power-Up BIT and the SMAT Confidence Test. Both are automatically executed when the CASS station is powered up. Level Three is SMAT (background SMAT is automatically initiated; foreground SMAT is operator initiated). SMAT will check for most component failures within the test set, but cannot check electrical paths associated with interface points in the CASS station. SMAT runs automatically at power up and when the CASS station is idle. No operator intervention is required.

Level Four is SMAT Input-Output (IO) testing, which checks electrical interface points and associated components. SMAT IO must be initiated by the operator and requires an OTPS. In the event of a failure in the CASS station, repair is accomplished by removal and replacement of the failed component. Some cables may be repaired on the equipment. Maintenance actions are accomplished using common and peculiar test equipment and hand tools. Peculiar items have been kept to a minimum.

**c. Depot.** Depot level maintenance actions consist of the PM and CM functions described above and repair and disposition tasks on SRAs and components considered beyond the capability of the intermediate level of maintenance. SOS OTPS 1 is used only at the depot level in repair of the RF Modulator. The Fleet Support Team lead for CASS is NAVAVNDEPOT North Island, California. NAWCAD Lakehurst, New Jersey, and NAVAVNDEPOT Jacksonville, Florida, are the Participating Field Activities for software support and electro-optic support, respectively.

**d. Interim Maintenance.** The contractor will provided interim support under the CASS Repair-of-Repairables program until Navy organic support was established for each configuration. The NSD for Block 1 HYB, CNI, and RF stations was achieved in February 1997. The NSD for Block 2 HYB, CNI, and RF stations was achieved in September 2000, the EO+ in July 2000.

The Naval Aviation Technical Data and Engineering Service Command (NATEC) will arrange for Fleet Support Team (FST) personnel or CASS Rapid Response Action Team personnel to assist fleet activities when repair, guidance, and training are required for CASS hardware or TPSs.

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

**3. Manning Concept.** CASS manpower is driven by the requirement for Operator-Maintainers, Advanced Maintenance-Calibration Technicians, and the preventive and corrective maintenance requirements. Manpower requirements are predicated by the number of CASS stations employed at a particular site. This number is determined by the System Synthesis Model, which is a two-part system that projects the expected workload and the CASS configurations and quantities that will be required at each site. The results of these projections are contained in the CIP and are the basis for the manpower requirements displayed in this NTSP. Ultimately, manpower requirements will be determined by the actual workload at a particular site. Refer to element II.A.1.b for current and projected manpower requirements by activity. Part II of this NTSP also depicts several NECs and MOSs that will be phased-out as legacy ATE is removed from service.

**a. Navy Personnel.** The manpower ratio for Operator-Maintainer personnel is approximately 1.3 per station per shift. Fractional cut-off points for sea and shore activities were used in accordance with OPNAVINST 5310.21 to determine the rounding of decimal points to whole numbers. The manpower ratio for Advanced Maintenance-Calibration Technician has been

changed from one per ten stations per shift to one per five stations per shift. This change is due to the expanding duties of the Advanced Maintenance-Calibration Technician.

Two NECs were originally established to designate the trained CASS Operator-Maintainers and Advanced Maintenance-Calibration Technicians from the AT rating. Two new NECs were recently approved as specialized CASS Operator-Maintainers. These new NECs will be supported with the new training concept depicted in Part I.H.4. below. All CASS-specific NECs are:

NEC 6704 ..... CASS Test Station IMA Operator-Maintainer, for the HYB, CNI, and RF configurations

NEC 6723 ..... CASS HPDTS/Radar Test Station IMA Operator-Maintainer, for the HPDTS configuration

NEC 6724 ..... CASS EO+/FLIR Test Station IMA Operator-Maintainer, for the EO+ configuration

NEC 6705 ..... CASS Test Station IMA Advanced Maintenance-Calibration Technician, to perform on-line calibration and advanced maintenance of the CASS

**(1) Aircraft Intermediate Maintenance Departments Ashore.**

Manpower requirements are not the same for all AIMDs ashore. Each AIMD is manned based on the number and type of CASS stations that are to be operated and maintained. Some AIMDs are augmented with Sea Operational Detachment (SEAOPDET) personnel who are not currently deployed.

**(2) Aircraft Intermediate Maintenance Departments Afloat.**

Some CASS Operator-Maintainers are assigned to the carrier as ship's company and the remainder are available from supporting SEAOPDETs during deployment periods. CASS Advanced Maintenance-Calibration Technicians, NEC 6705, are assigned as ship's company personnel.

**(3) Sea Operational Detachments.**

CASS Operator-Maintainer billets, NECs 6704, 6723, and 6724, are assigned to the SEAOPDETs that support a particular aircraft requiring CASS support. SEAOPDET billets primarily support carrier deployments but also support their host AIMD when not deployed.

**(4) Amphibious Assault Ships.**

CASS Advanced Maintenance-Calibration Technicians, NEC 6705, will be assigned as ship's company personnel since CASS will be "hard-sited" aboard General Purpose (LHA) and Multi-Purpose (LHD) class amphibious assault ships beginning in FY00. In the future, it is planned for CASS to provide maintenance support of some shipboard systems and may require CASS Operator-Maintainer billets. For the near term, Marine Corps CASS Technicians will be assigned to AV-8B squadrons deploying aboard these ships.

**(5) Other Surface and Subsurface Vessels.**

Manpower requirements for other types of ships and submarines will be determined as workload requirements are identified

and CASS station delivery schedules become available from NAVSEASYSKOM and SPAWARYSKOM. Future CASS applications will include NAVSEASYSKOM and SPAWARYSKOM weapon systems such as battle group JTIDS and the SQQ-89 AEGIS ASW Combat System.

**b. Marine Corps Personnel.** The current manpower ratio for Marine Corps personnel is one technician per station per shift to perform all operator and maintainer functions, including on-line calibration and advanced maintenance, and repair UUTs. However, recent studies and fleet input have shown this to be inadequate manning to meet the actual requirements. Therefore, upon the recommendation of a Marine Corps proposal, Part II of this NTSP depicts a manpower requirement of two Marine Corps technicians per station per shift.

One MOS was originally established to designate the trained CASS Operator-Maintainer-Calibration Technicians. Now, two new MOSs are proposed as specialized CASS Operator-Maintainer-Calibration Technicians. These new MOSs will be supported in the new training concept depicted in paragraph I.H.4. below. All CASS-specific MOSs are:

MOS 6467..... CASS Technician, IMA, for the HYB, CNI, and RF configurations

MOS 676X..... Radar (High Power) Operator, IMA, for the HPDTS configuration, transitioning from MOS 6463, Radar Technician

MOS 676Y..... EO Operator, IMA, for the EO+ configuration, transitioning from MOS 6466 FLIR/EOTS Technician

Marine Corps personnel with MOS 6469, Advanced ATE Technician, IMA, provide supervision and assistance to personnel with MOS 6467, 676X, and 676Y. However, MOS 6469 is not dedicated to CASS alone, therefore, MOS 6469 is not included in Part II of this NTSP.

**(1) Marine Aviation Logistics Squadrons.** The Tables of Organization that depict Marine Corps billet requirements provide billet structures for two types of MALS, supporting either fixed-wing or rotary-wing aircraft. Each MALS (by type) has the same billet structure for core personnel and is augmented by squadron personnel. The total manpower requirement for the individual MALS is determined by the number of squadrons requiring support and the number of CASS stations on site.

**(2) Amphibious Assault Ships.** Marine Corps billets will be assigned to AV-8B squadrons (MALS augment) to support CASS stations during squadron deployments aboard LHAs and LHDs.

**c. Naval Air Maintenance Training Group Personnel.** The CASS training sites at Maintenance Training Unit (MTU) 3010, Naval Air Maintenance Training Unit (NAMTRAU) Oceana, Virginia, and MTU 3011, Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Miramar, California, currently have Navy and Marine Corps billets assigned as CASS instructors. Support personnel requirements required to maintain the CASS stations used for training are included in element II.A.3 of this NTSP.

**4. Training Concept.** CASS training has been established to ensure that qualified personnel are available to operate, maintain, calibrate, and troubleshoot CASS in support of fleet activities. CASS follow-on courses were Ready For Training (RFT) at MTU 3010, NAMTRAU Oceana, in January 1994 and at MTU 3011, NAMTRAGRU DET Miramar, in January 1995.

Since CASS training became RFT, the MTUs have endeavored to keep pace with the program changes and fleet requirements. The CASS training concept of three training tracks that include either an Operator-Maintainer course, an Advanced Maintenance-Calibration Technician course, or both is currently being revised. These changes are the result of the Maintenance Training Requirements Reviews held in June 1997 and December 1998 that recommended several changes to improve CASS training. New courses and training tracks are being developed to support specialized training for the EO+ and HPDTS configurations and their new NECs and proposed MOSSs.

Although intermediate level "C" Schools are not normally separated into *Initial* and *Career* courses, the CASS training concept is very similar to that of an aircraft platform's. CASS Operator-Maintainer courses provide *Initial*-type entry-level skills and knowledge for students in paygrades E-4 and below. The CASS Advanced Maintenance-Calibration Technician course provides *Career*-type training to personnel, E-5 and above, with two years of CASS Operator-Maintainer experience. This training for senior, career-minded CASS personnel enhances their skills with advanced technical knowledge on the CASS system.

The Marine Corps does not employ the *Initial* and *Career* training concept since it does not meet their training objectives. Therefore, Marine Corps students attend both Operator-Maintainer and Advanced Maintenance-Calibration Technician courses consecutively and their training track has been established to provide all CASS training to E-1 and above personnel. When the new training tracks for the EO+ and HPDTS are established, they will follow this concept with an Operator-Maintainer course and the Advanced Maintenance-Calibration Technician course on each track.

**a. Initial Training.** CASS initial training was provided to NAMTRAGRU DET instructors, DT and OT personnel, NATEC personnel, NAVAVNDEPOTs North Island, Jacksonville, and Norfolk personnel as well as fleet personnel. Initial training was conducted first by GE and later by Martin-Marietta at the Daytona Beach, Florida facilities. It consisted of a three-week Operator and a seven-week Technician Course. GE and Martin-Marietta conducted six courses from February 1990 through March 1992 for DT and OT personnel. Additional courses were conducted from June 1991 through November 1993.

Initial training for the CASS EO+ was conducted for CASS class desk personnel who in turn provided EO+ training to OT personnel from TIF Jacksonville and the USS Abraham Lincoln in April 1998. Initial training for cadre personnel for the HPDTS configuration was conducted by Systems Electronics, Inc., and completed in June 2000. Cadre personnel included NAMTRAU instructors, NATEC personnel, and FST personnel. As new CASS configurations are developed, additional initial training may be required.

## **b. Follow-on Training**

**(1) Operation and Maintenance.** CASS follow-on training is currently evolving to keep pace with the changes in the CASS program including ECPs, new configurations, and input from the fleet with eight years of CASS experience. Existing courses and tracks have been modified to include several changes. New courses and training tracks are being developed to support the EO+ and HPDTS configurations and their new NECs and proposed MOSs. (Navy and Marine Corps personnel who have already attended CASS Operator-Maintainer and Advanced Maintenance-Calibration Technician courses will receive additional training from NATEC teams as needed.)

First, *C-198-3044, AN/USM-636A(V) CASS Operator/Maintainer Intermediate Maintenance*, has been divided into two courses. One course is now *C-198-3044, CASS Common Core* training, and the other, *C-198-3069*, pertains mainly to the operation and maintenance of the HYB, RF, and CNI configurations. These courses have been updated with ECP differences data and some subjects have been moved to *C-198-3043, Advanced Maintenance-Calibration Technician* course. These courses will remain in the same track and are currently RFT.

Second, two new courses are being written for specialized CASS training. One course, *C-198-3070*, will provide training on the EO+ configuration and specific FLIR systems. When this course is RFT in September 2001 (estimated), either *C-602-3770, Laser Safety Fundamentals* course will be added to the training track or a CASS-specific Laser Safety course will be developed and added to the EO+ training track. The other course, *C-198-3071*, will provide training on the HPDTS and specific radar equipment. This course will be RFT in December 2001 (estimated). All students will attend the *C-198-3044, Common Core* course, then attend one of the three specific CASS Operator-Maintainer courses, either *C-198-3069, C-198-3070, or C-198-3071*.

Third, revisions to *C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance/Calibration Intermediate Maintenance* course include increasing the course length by two weeks and adding advanced ATLAS lessons, Pneumatic Function Generator lessons, instructions on SOS lab time, advanced troubleshooting techniques, and ECP configurations changes.

The Marine Corps training track will be modified to include *C-198-3044, Common Core* course, *C-198-3069, CASS Common Operator-Maintainer* course, and *C-198-3043, Advanced Maintenance-Calibration Technician* course. Two new training tracks will be established for the new EO+ and HPDTS courses, *C-198-3070* and *C-198-3071*, respectively, to support the proposed MOSs and will include calibration and advanced maintenance training. The EO+ and HPDTS training tracks will be RFT in September 2001 and December 2001, respectively.

In addition to these revisions and new courses, the Fleet Replacement Enlisted Skills Training (FREST) at Marine Corps Air Station New River is developing a course

for V-22 support on the RTCASS. This course will be added to the Marine Corps training tracks when it becomes RFT. (Due to the early stage of this configuration, no date is currently available but will be included in future updates to this NTSP.)

**Title .....** **Consolidated Automated Support System (CASS)  
Advanced Maintenance/Calibration Technician**

CIN ..... D/E-198-6101

Model Manager ... NAMTRAU Oceana

Description ..... The course provides training to the second tour Aviation Electronics Technician, including:

- Pneumatic Function Generator maintenance
- ATLAS Programming Language
- CASS Debug
- CASS Direct Instrument Control Software (DICONS)
- CASS Advanced Maintenance and Asset Calibration

Upon completion, the student will be able to perform as an AN/USM-636A(V) CASS Advanced Maintenance / Calibration Technician in a shop environment under limited supervision.

Locations..... ◦ MTU 3010 NAMTRAU Oceana  
◦ MTU 3011 NAMTRAGRU DET Miramar

Length ..... 30 days

RFT date ..... Currently available

Skill identifier..... AT 6705 (E-5 and above)

TTE/TD..... AN/USM-636(V) CASS HYB, CNI, RF, HPDTS, and EO+ stations

Prerequisites ..... ◦ D/E-198-6102, CASS Common Configurations Operator/Maintainer Intermediate Maintenance  
or  
◦ D/E-198-6104, CASS HPDTS/Radar Operator/Maintainer Intermediate Maintenance  
Or  
◦ D/E-198-6105, CASS EO+/FLIR Operator/Maintainer Intermediate Maintenance  
◦ E-5 and above  
◦ Two years of 6704, 6723, or 6724 experience

**Title .....** **Consolidated Automated Support System (CASS)  
Common Configurations Operator/Maintainer  
Intermediate Maintenance**

CIN ..... D/E-198-6102

Model Manager ... NAMTRAU Oceana

Description ..... The course provides training to the first tour Aviation Electronics Technician, including:

- Introduction to the AN/USM-636A(V) CASS System
- CASS Station Operation
- CASS Power Subsystem
- CASS Station Control Subsystem
- CASS Stimulus and Measurement Subsystem
- RF and CNI Station Operation and Maintenance
- OTPS Familiarization and Publications
- UUT and TPS Operation and Maintenance

Upon completion, the student will be able to perform as an AN/USM-636A(V) CASS Operator / Maintainer in a shop environment under direct supervision.

Locations..... ◦ MTU 3010 NAMTRAU Oceana  
◦ MTU 3011 NAMTRAGRU DET Miramar

Length ..... 72 days

RFT date ..... Currently available

Skill identifier..... AT 6704 (E-1 through E-4)

TTE/TD..... AN/USM-636(V) CASS HYB, RF, and CNI stations

Prerequisite..... C-100-2017 Avionics Technician I Level Class A1 or equivalent fleet experience

**Title .....** **USMC Consolidated Automated Support System (CASS) Common Configurations Test Station Operator/Maintainer/Technician**

CIN ..... D/E-198-6103

Model Manager ... NAMTRAU Oceana

Description ..... The course provides training to the first tour Aviation Electronics Technician, including:

- Introduction to the AN/USM-636A(V) CASS System
- CASS Station Operation
- CASS Station Control Subsystem
- CASS Stimulus and Measurement Subsystem
- RF and CNI Station Operation and Maintenance
- OTPS Familiarization and Publications
- UUT and TPS Operation and Maintenance
- Pneumatic Function Generator Maintenance
- ATLAS Programming Language
- CASS Debug
- CASS DICONs
- CASS Advanced Maintenance and Asset Calibration

Upon completion, the student will be able to perform as an AN/USM-636A(V) CASS Operator / Maintainer / Technician in a shop environment under direct supervision.

Locations..... ◦ MTU 3010 NAMTRAU Oceana  
◦ MTU 3011 NAMTRAGRU DET Miramar

Length ..... 93 days

RFT date ..... Currently available

Skill identifier..... MOS 6467

TTE/TD..... AN/USM-636(V) CASS HYB, CNI, and RF stations

Prerequisite..... C-100-2017 Avionics Technician I Level Class A1 or equivalent fleet experience

**Title .....** **CASS High Power Configuration Operator/Maintainer**

CIN ..... D/E-198-6104

Model Manager ... NAMTRAU Oceana

Description ..... The course provides training to the first tour Aviation Electronics Technician, including:

- Introduction to the AN/USM-636A(V) CASS System
- CASS Station Operation
- CASS Station Control Subsystem
- CASS Stimulus and Measurement Subsystem
- RF and CNI Station Operation and Maintenance
- HPDTS Station Operation and Maintenance
- Additions to Existing RF Station
- OTPS Functional Theory Overview
- UUT and TPS Operation and Maintenance

Upon completion, the student will be able to perform as an AN/USM-636A(V) CASS Operator / Maintainer in a shop environment under direct supervision.

Locations.....	◦ MTU 3010 NAMTRAU Oceana ◦ MTU 3011 NAMTRAGRU DET Miramar
Length.....	86 days
RFT date .....	December 2001
Skill identifier.....	AT 6723 (E-1 through E-4)
TTE/TD.....	AN/USM-636(V) CASS HYB, RF, CNI, and HPDTS stations
Prerequisite.....	C-100-2017 Avionics Technician I Level Class A1 or equivalent fleet experience

**Title .....** **CASS EO+ Configuration Operation/Maintainer**

**CIN .....** D/E-198-6105

**Model Manager ...** NAMTRAU Oceana

**Description .....** The course provides training to the first tour Aviation Electronics Technician, including:

- Introduction to the AN/USM-636A(V) CASS System
- CASS Station Operation
- CASS Station Control Subsystem
- CASS Stimulus and Measurement Subsystem
- Introduction to EO+ Station
- Infrared Radiation Theory
- Laser Theory
- EO+ Station Operation, Maintenance, and Testing
- AV-8B FLIR Familiarization and Testing
- F/A-18 FLIR Familiarization and Testing

Upon completion, the student will be able to perform as an AN/USM-636A(V) CASS Operator / Maintainer in a shop environment under direct supervision.

**Locations.....** ◦ MTU 3010 NAMTRAU Oceana  
◦ MTU 3011 NAMTRAGRU DET Miramar

**Length .....** 79 days

**RFT date .....** September 2001

**Skill identifier.....** AT 6724 (E-1 through E-4)

**TTE/TD.....** AN/USM-636(V) CASS HYB, CNI, RF, and EO+ stations

**Prerequisite.....** C-100-2017 Avionics Technician I Level Class A1 or equivalent fleet experience

<b>Title .....</b>	<b>USMC Consolidated Automated Support System (CASS) High Powered Device Test/Radar Test Station Operator/Maintainer/Technician</b>
CIN .....	D/E-198-610X
Model Manager ...	NAMTRAU Oceana
Description .....	<p>The course provides training to the first tour Aviation Electronics Technician, including:</p> <ul style="list-style-type: none"> <li>◦ Introduction to the AN/USM-636A(V) CASS System</li> <li>◦ HYB, RF, and CNI Station Operation and Maintenance</li> <li>◦ CASS Station Control Subsystem</li> <li>◦ CASS Stimulus and Measurement Subsystem</li> <li>◦ HPDTS Station Operation and Maintenance</li> <li>◦ Additions to Existing RF Station</li> <li>◦ OTPS Functional Theory Overview</li> <li>◦ UUT and TPS Operation and Maintenance</li> <li>◦ Pneumatic Function Generator Maintenance</li> <li>◦ ATLAS Programming Language</li> <li>◦ CASS Debug</li> <li>◦ CASS DICONs</li> <li>◦ CASS Advanced Maintenance and Asset Calibration</li> </ul> <p>Upon completion, the student will be able to perform as an AN/USM-636A(V) CASS Operator / Maintainer / Technician in a shop environment under direct supervision.</p>
Locations.....	<ul style="list-style-type: none"> <li>◦ MTU 3010 NAMTRAU Oceana</li> <li>◦ MTU 3011 NAMTRAGRU DET Miramar</li> </ul>
Length .....	107 days
RFT date .....	December 2001
Skill identifier.....	MOS 646X
TTE/TD.....	AN/USM-636(V) CASS HYB, RF, CNI, and HPDTS stations
Prerequisite.....	C-100-2017 Avionics Technician I Level Class A1 or equivalent fleet experience

**Title .....** **USMC Consolidated Automated Support System (CASS) Electro-Optics Support System Plus/FLIR Test Station Operator/Maintainer/ Technician**

**CIN .....** D/E-198-610Y

**Model Manager ...** NAMTRAU Oceana

**Description .....** The course provides training to the first tour Aviation Electronics Technician, including:

- Introduction to the AN/USM-636A(V) CASS System
- HYB, CNI, and RF Station Operation and Maintenance
- CASS Station Control Subsystem
- CASS Stimulus and Measurement Subsystem
- Introduction to EO+ Station
- Infrared Radiation Theory
- Laser Theory
- EO+ Station Operation, Maintenance, and Testing
- AV-8B FLIR Familiarization and Testing
- F/A-18 FLIR Familiarization and Testing
- UUT and TPS Operation and Maintenance
- Pneumatic Function Generator Maintenance
- ATLAS Programming Language
- CASS Debug
- CASS DICONs
- CASS Advanced Maintenance and Asset Calibration

Upon completion, the student will be able to perform as an AN/USM-636A(V) CASS Operator / Maintainer / Technician in a shop environment under direct supervision.

**Locations.....** ◦ MTU 3010 NAMTRAU Oceana  
◦ MTU 3011 NAMTRAGRU DET Miramar

**Length .....** 114 days

**RFT date .....** December 2001

**Skill identifier.....** MOS 646Y

**TTE/TD.....** AN/USM-636(V) CASS HYB, RF, CNI, and EO+ stations

**Prerequisite.....** C-100-2017 Avionics Technician I Level Class A1 or equivalent fleet experience

**(2) Industrial Personnel.** The NAVAVNDEPOTs, NWSs, and NATEC are required to maintain a trained manpower pool to support CASS. The follow-on training of industrial personnel is accomplished using organic CASS assets or a combination of organic,

commercial, and NAMTRAGRU training. Industrial personnel compete for NAMTRAGRU quotas on a priority basis. Specific training requirements are determined by the individual industrial activities.

**(3) Selected Reserve Training.** Due to the training time required to attain NECs 6704, 6723, 6724, and 6705, CASS NECs are not awardable to Selected Reserve personnel except on an individual basis.

**c. Student Profiles**

<b>SKILL IDENTIFIER</b>	<b>PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS</b>
AT 6704, 6723, 6724	<ul style="list-style-type: none"> <li>° C-100-2020, Avionics Common Core Class A1</li> <li>° C-100-2017, Avionics Technician I Level Class A1</li> </ul>
AT 6705	<ul style="list-style-type: none"> <li>° C-100-2020, Avionics Common Core Class A1</li> <li>° C-100-2017, Avionics Technician I Level Class A1</li> <li>° C-198-3069, CASS Common Operator/Maintainer Intermediate Maintenance</li> <li style="padding-left: 40px;">Or</li> <li>° C-198-3071, CASS HPDTS/Radar Subsystem Operator/Maintainer Intermediate Maintenance</li> <li style="padding-left: 40px;">Or</li> <li>° C-198-3071, CASS EO+/FLIR Subsystem Operator/Maintainer Intermediate Maintenance</li> </ul>
MOS 6467, 646X, 646Y	<ul style="list-style-type: none"> <li>° C-100-2020, Avionics Common Core Class A1</li> <li>° C-100-2017, Avionics Technician I Level Class A1</li> </ul>

**d. Training Pipelines.** Existing CASS training tracks, available in the Office of the Chief of Naval Operations (OPNAV) Aviation Training Management System, will be revised to reflect the changes discussed above. New training tracks will be established for the new NECs and proposed MOSs and their new training courses currently in development. A graphic illustration of the revised and new training pipelines is depicted below.

# NAVY CASS TRAINING PROGRESSION

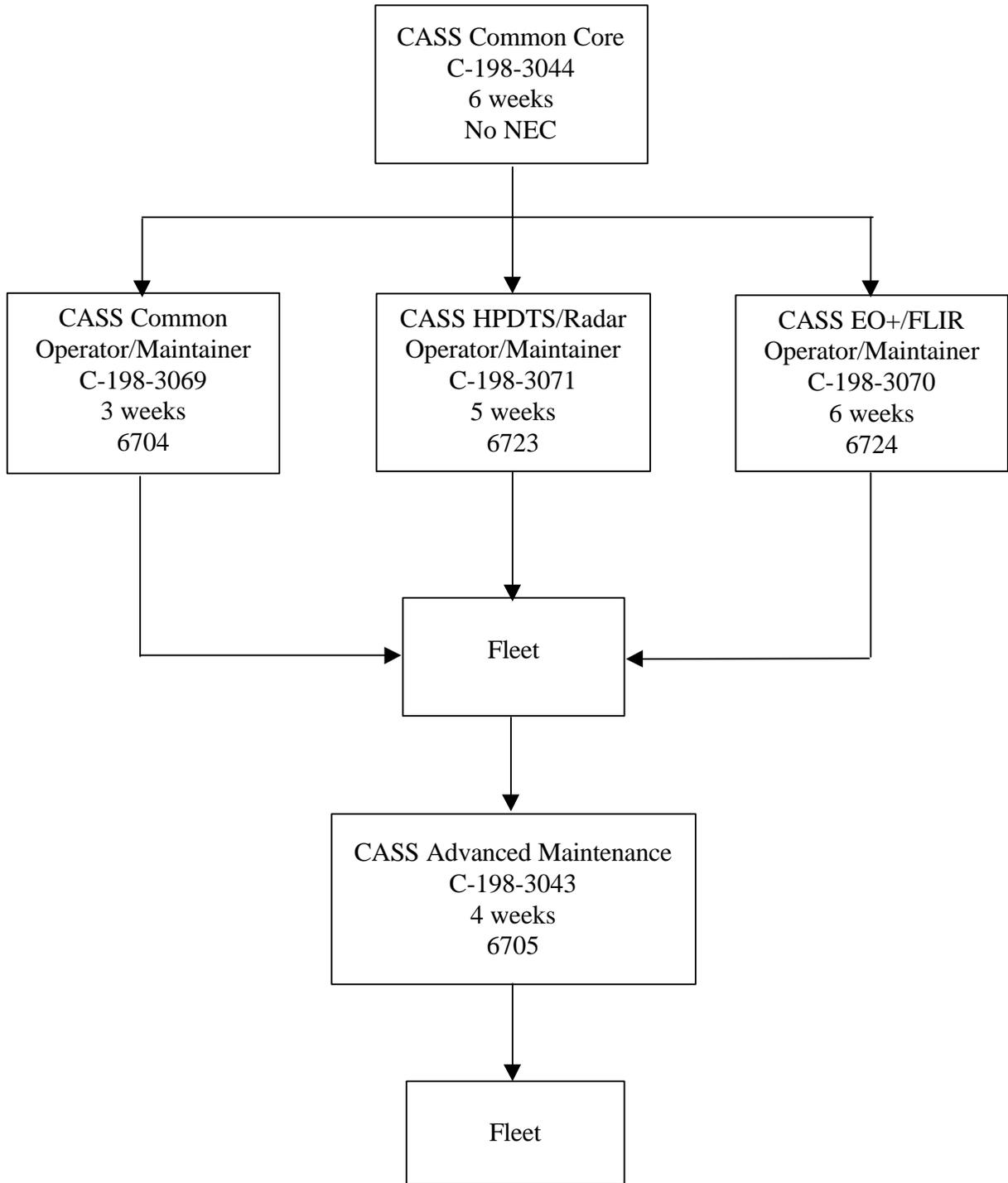


Figure I-1

# MARINE CORPS CASS TRAINING PROGRESSION

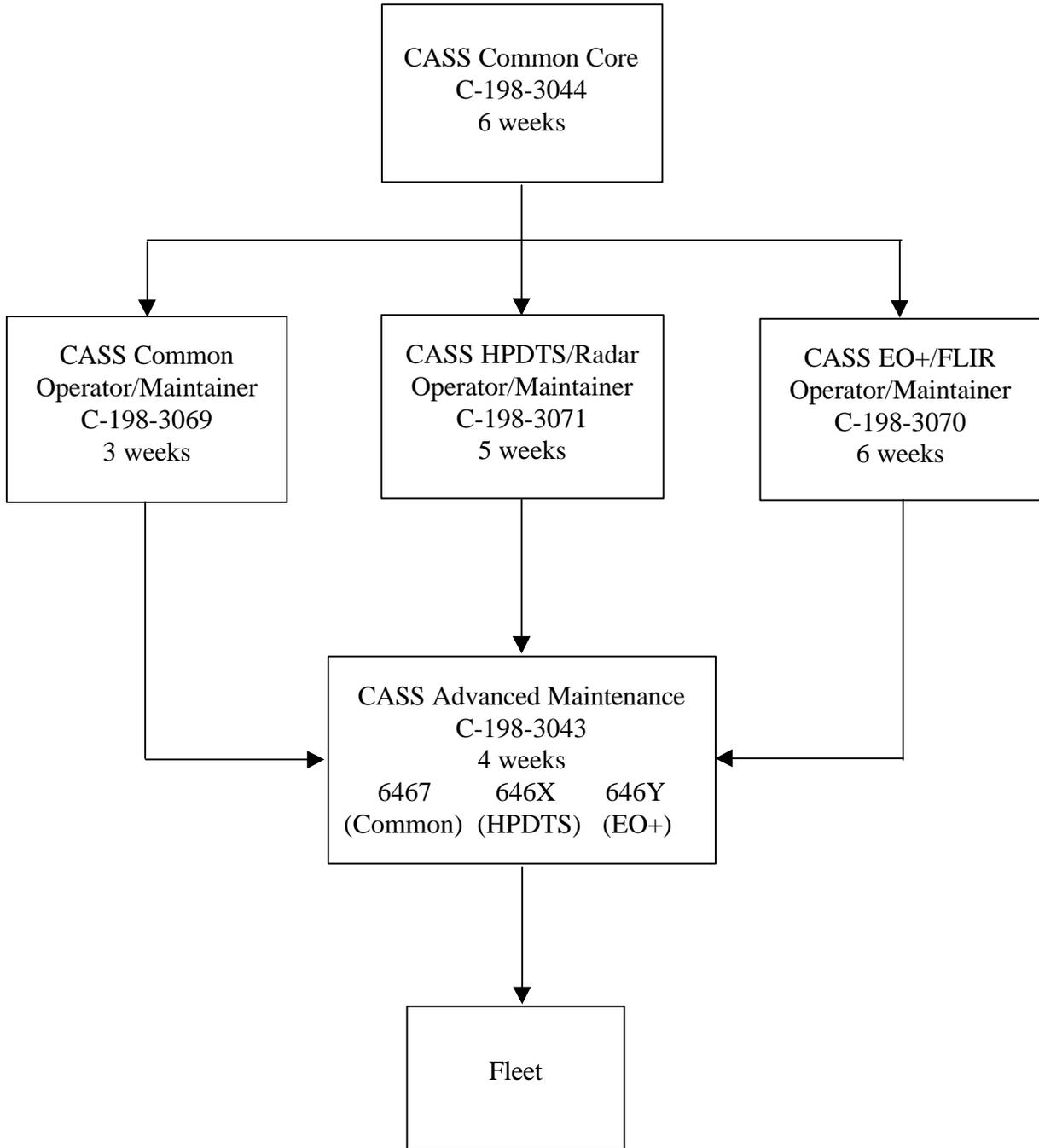


Figure I-2

## **I. ONBOARD (IN-SERVICE) TRAINING**

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

#### **a. Maintenance Training Improvement Program. NA**

**b. Aviation Maintenance Training Continuum System.** The Aviation Maintenance Training Continuum System (AMTCS) will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is planned to be an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. By capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the Chief of Naval Operations (CNO) mandated “just-in-time” training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Computer-Based Training for the technicians in the fleet in the form of Interactive Courseware with Computer Managed Instruction and Computer Aided Instruction for the schoolhouse.

Included in the AMTCS development effort is the AMTCS - Software Module which provides testing (Test and Evaluation), recording (Electronic Training Jacket), and a feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate COTS hardware and software, i.e., Fleet Training Devices such as laptop computers, desktop computers, electronic classrooms, Learning Resource Centers, operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing Maintenance Training Improvement Program and Maintenance Training Management and Evaluation Program (MATMEP) programs. AMTCS implementation will begin with the F-14, E-2C, and all models F/A-18 aircraft. For more information on AMTCS refer to PMA205-3D3.

A database of CASS logistic support analyses will be used, in conjunction with course information, to develop a proficiency training program to be employed at the local level. This training program will conform to the AMTCS program. Currently, NAMTRAGRU Headquarters Pensacola is in the process of identifying candidate subjects for AMTCS development.

**c. Naval Air Technical Data And Engineering Service Command.** To fill the skill and knowledge gaps caused by the changes in the CASS program, NATEC has been tasked to provide

on-site CASS training using NAMTRAGRU curricula information for their lessons. NATEC training will be provided on an as required basis.

**2. Personnel Qualification Standards.** NA

**3. Other Onboard or In-Service Training Packages.** Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System and MATMEP. This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, 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. (MATMEP is planned to be replaced by AMTCS.)

**J. LOGISTICS SUPPORT**

**1. Manufacturer and Contract Numbers**

<b>CONTRACT NUMBER</b>	<b>MANUFACTURER</b>	<b>ADDRESS</b>
N00019-85-C-0439	Lockheed Martin Information Services *	12506 Lake Underhill Road Orlando, FL 32825-5002

\* The Automated Systems Department of GE developed CASS and conducted much of the initial training along with Lockheed Martin-Marietta.

**2. Program Documentation.** The CASS Integrated Logistics Support Plan was first published in May 1992 and has subsequently been updated. This document is now the Acquisition Logistic Support Plan (ALSP), numbered NAWCADLKE- I75094007 Revision B, and was last updated 24 March 1998.

Other program documents include the Operational Requirement Document, Logistic Support Analysis (LSA), User Logistic Support Summaries (ULSS), Logistic Requirements and Funding Summaries, and Maintenance Plans.

**3. Technical Data Plan.** CASS contains digitally formatted technical manuals, known as ATI, and provides the ability to print a paper copy of the technical information. Updates of CASS ATI will be provided for upload to the system as needed to maintain technical manual accuracy. Manuals for TPSs may or may not be in ATI format. Due to the high cost of producing ATI updates and the availability of current digital-format technology, CASS has started transitioning from the ATI format to an HTML/CD-ROM format. Refer to the CASS ALSP, NAWCADLKE- I75094007 Revision B, for a complete list of the technical manuals on disk available to support the CASS. Refer to element IV.B.3 for the manual titles required for training.

**4. Test Sets, Tools, and Test Equipment.** Special tools and test equipment requirements were identified as part of the CASS LSA process. All support equipment is listed and periodically updated in the Consolidated Support Equipment List. Each activity's ULSS lists the CASS support equipment required by that activity.

**5. Repair Parts.** CASS spare and repair parts requirements have been determined through the LSA process and are contained in the support material list. Interim support spare and repair parts are managed under the NAVAIR Interim Supply Support Program. The Naval Inventory Control Point at Philadelphia, Pennsylvania, (Code 03321.3) assumes responsibility after the NSDs and MSDs are achieved. MSD is concurrent with the NSD: Lot 1 HYB, CNI, and RF in February 1997, Lot 2 HYB, CNI, and RF in September 2000, and EO+ in July 2000.

**6. Human Systems Integration.** NA

## **K. SCHEDULES**

**1. Installation and Delivery Schedules.** Detailed information on CASS program objectives and policies, performance requirements, test results, and implementation planning including weapon system transition to CASS support is contained in the PMA 260 CIP. The schedules used to develop this NTSP are from the CIP, and address the years 1992 to 2012.

Parts II and III of this NTSP are based on completed deliveries prior to FY01 and the scheduled delivery dates for the years FY01 through FY05. The CIP schedule for FY06 and beyond provides projected dates for planning purposes only and is subject to change. Refer to element II.A.1.a for the CASS delivery schedule, by activity, at Navy, Marine Corps, and NAVAVNDEPOT sites through FY05. Refer to the most current CIP for CASS delivery schedules by configuration, all post-FY05 deliveries, TPS delivery dates, and the delivery schedules for TIF, Product Support Development, and contractor sites.

Aboard carriers, CASS installations are replacing obsolete ATE on a system-for-system basis. Aboard LHAs and LHDs, CASS will be installed to support Marine Corps AV-8B aircraft deployed with the ship. At shore AIMDs and MALS, both CASS and obsolete ATE may be supported until the particular IMA no longer requires the obsolete ATE to support its normal complement of aircraft. The various training activities will phase out the obsolete ATE when there is no longer a training requirement. Obsolete non-ATE will phase out in accordance with new emerging system acquisition schedules. Future deliveries of CASS will include SIMAs and other surface ships.

**2. Ready For Operational Use Schedule.** CASS stations will be ready for operational use within ten days of delivery after system installation checkout and acceptance. Initial Operating Capability was achieved in October 1993.

**3. Time Required to Install at Operational Sites.** CASS installation and verification requires 10 days. Approximately six months prior to station delivery to a particular activity, a

site-specific ULSS is delivered. The ULSS addresses peculiar issues, supply support, personnel and training, support and test equipment, technical publications, and facilities.

**4. Foreign Military Sales and Other Source Delivery Schedule.** NOAA Kansas City received CASS in January 1994 to support its electronic weather monitoring systems. FMS are planned for Malaysia, Finland, Spain, Switzerland, and Italy during the next three years. For specific delivery schedules, refer to the CIP or contact PMA260A1.

**5. Training Device and Technical Training Equipment Delivery Schedule**

**a. CASS Stations.** MTU 3010 NAMTRAU Oceana, and MTU 3011 NAMTRAGRU DET Miramar, have received nine CASS stations each and the associated ancillary equipment as TTE. One additional CASS station, the EO+ configuration, was delivered to MTU 3010 in January 2000; MTU 3011 will receive an EO+ station in January 2001.

**TABLE I-4 - TTE DELIVERY SCHEDULE**

ACTIVITY	TYPE OF STATION	NUMBER OF STATIONS	DELIVERY DATE	STATUS
MTU 3010 NAMTRAU Oceana	HYB	1	FY92	Delivered
		1	FY94	Delivered
		1	FY95	Delivered
		3	FY96	Delivered
	CNI	2	FY94	Delivered
	RF	1	FY96	Delivered
		1	FY99	Delivered
	EO+	1	Jan 00	Delivered
HPDTS	1	Aug 00	Delivered	
MTU 3011 NAMTRAGRU DET Miramar	HYB	2	FY94	Delivered
		1	FY95	Delivered
		3	FY97	Delivered
	CNI	1	FY94	Delivered
		1	FY95	Delivered
	RF	1	FY97	Delivered
		1	FY99	Delivered
	EO+	1	Jan 01	
HPDTS	1	2 <sup>nd</sup> Qtr FY 01		

**b. Optical Reader System.** To keep all the CASS stations at the training activities available for laboratory instruction, ORs were procured to allow viewing of the ATI in the classroom environment. The prototype OR was evaluated by NAMTRAU Oceana for fleet and classroom use. Currently, MTUs 3010 and 3011 have a total of forty eight Optical Readers for classroom use. Due to the CASS program starting to transition from the ATI format to an HTML/CD-ROM format and the impending obsolescence and supportability issues of the OR, PMA 260 has begun the replacement of classroom OLRs by funding the procurement of 30 desktop PCs.

**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>
CASS ALSP	I75094007-ILSP-CASS	PMA260	Draft Apr 98
User Logistics Support Summary for CASS AN/USM-636A(V) (for each activity)	Varies for each site	NAWCAD Lakehurst	Delivered six months prior to first CASS delivery
CASS Implementation Plan		PMA260	30 Nov 99
Advanced Tactical Airborne Reconnaissance System (ATARS)	A-50-9101/A	PMA253	Approved Aug 91
AGM-88 HARM System	A-50-8101B/A	PMA242	Approved Sep 99
AIM-120 Advanced Medium Range Air-to-Air Missile (AMRAAM)	A-50-8111C/A	PMA268	Approved Jun 98
AN/ALE-47 Countermeasures Dispensing System	A-50-9001A/A	PMA272	Approved Mar 94
TS-3846A/ASM-608(V) Inertial Measurement Unit Test Set (IMUTS III)	A-50-8116B/A	PMA260	Proposed Nov 99

<b>DOCUMENT OR NTSP TITLE</b>	<b>DOCUMENT OR NTSP NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
AN/USM-429(V)1 Computerized Automatic Tester (CAT-IIID(V)1)	A-50-8709B/A	PMA260	Approved May 99
AN/USM-467 Weapon System Test Station - RADCOR	A-50-8710A/A	PMA260	Approved Jul 93
AN/USM-470(V)1 Avionics Test Set [ATS(V)1]	A-50-8706B/D	PMA260	Draft Feb 98
AN/USM-470(V)2 Avionics Test Set [ATS(V)2]	A-50-8707B/D	PMA260	Draft Feb 98
AN/USM-484 Hybrid Test System (HTS)	A-50-8708C/A	PMA260	Approved Jun 99
T/AV-8B Harrier II Weapon System	A-50-8210D/D	PMA257	Draft Aug 99
E-2C Hawkeye 2000	A-50-8716D/A	PMA231	Approved Nov 97
EA-6B Improved Capability (ICAP) Modification II and III	A-50-7904D/D	PMA234	Draft Feb 00
F-14A/B/D Aircraft	A-50-8511B/P	PMA241	Proposed Aug 99
F/A-18 Aircraft	A-50-9201B/D	PMA265	Draft Mar 00
Joint Tactical Information Distribution System (JTIDS)	E-70-8214B/A	PMW159	Approved Jul 94
LHD-1 Class Amphibious Assault Ship (Multi-Purpose)	S-30-8510D/D	PMS3771	Draft Oct 95
S-3B Aircraft	A-50-8310D/D	PMA244	Draft Jan 98
Light Airborne Multi-Purpose System (LAMPS) MK-III	A-50-7702D/D	PMA299	Draft Nov 97

<b>DOCUMENT OR NTSP TITLE</b>	<b>DOCUMENT OR NTSP NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
SH-60F Carrier Inner-Zone ASW Helicopter	A-50-8508D/D	PMA299	Draft Dec 99
SH-60R Multi-Mission Helicopter (MMH)	A-50-9403	PMA299	Initial Apr 99

**PART II - BILLET AND PERSONNEL REQUIREMENTS**

**II.A. BILLET REQUIREMENTS**

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

**SCHEDULE SOURCE:** PMA260 **DATE:** 12/1/99  
**MANPOWER SOURCE:** Total Force Manpower Management System, Table of Manpower Requirements **DATE:** 10/3/00

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
<b>OPERATIONAL ACTIVITIES - NAVY</b>							
CV 67, USS John F. Kennedy	03367	9	0	0	5	0	0
CVN 65, USS Enterprise	03365	8	9	7	0	3	0
CVN 68, USS Nimitz	03368	11	4	0	0	0	0
CVN 69, USS Dwight D. Eisenhower	03369	8	0	0	6	0	4
CVN 71, USS Theodore Roosevelt	21247	9	0	5	0	4	0
CVN 73, USS George Washington	21412	9	6	0	1	0	3
CVN 75, USS Harry S. Truman	21853	8	1	4	2	0	0
LHA 2, USS Saipan	20632	0	2	0	0	0	0
LHA 4, USS Nassau	20725	0	2	0	0	0	0
LHD 1, USS Wasp	21560	0	2	0	0	0	0
LHD 3, USS Kearsarge	21700	0	0	2	0	0	0
LHD 5, USS Bataan	21879	2	0	0	0	0	0
LHD 7, USS Iwo Jima	23027	0	0	0	2	0	0
CV 63, USS Kitty Hawk	03363	9	1	3	3	1	0
CV 64, USS Constellation	03364	11	0	0	0	0	0
CVN 70, USS Carl Vinson	20993	10	0	4	0	0	5
CVN 72, USS Abraham Lincoln	21297	8	6	0	1	0	0
CVN 74, USS John C. Stennis	21847	9	5	0	4	0	0
CVN 76, USS Ronald Reagan	22178	0	0	18	0	0	0
LHA 1, USS Tarawa	20550	0	2	0	0	0	0
LHA 3, USS Belleau Wood	20633	0	2	0	0	0	0
LHA 5, USS Peleliu	20748	0	0	2	0	0	0
LHD 2, USS Essex	21533	0	2	0	0	0	0
LHD 4, USS Boxer	21808	0	2	0	0	0	0
LHD 6, USS Bonhomme Richard	39477	2	0	0	0	0	0
<b>TOTAL:</b>		113	46	45	24	8	12
<b>FLEET SUPPORT ACTIVITIES - NAVY</b>							
AIMD Brunswick	44314	0	0	1	0	0	0
AIMD Cecil Field	44315	1	0	0	0	0	0
AIMD Jacksonville	44319	8	1	0	0	0	0
AIMD Mayport	45459	1	0	1	1	0	1
AIMD Norfolk	44325	0	0	0	4	0	0
AIMD Oceana	44327	27	6	4	0	0	2
AIMD Sigonella	44330	1	0	0	1	0	0
AIMD Washington, DC	44492	1	0	1	0	0	0
NADEP Cherry Point	65923	7	0	0	0	0	0
NADEP Jacksonville	65886	12	1	0	2	0	0
NAS Meridian	63043	0	1	0	0	0	0

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

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
NAVTESTWINGLANT Patuxent River	39782	1	0	0	0	0	0
NAWCAD Lakehurst	68335	2	0	0	0	0	0
NAWCAD Patuxent River	49860	9	0	1	0	0	0
NSWC Crane	47611	1	1	0	1	0	0
AIMD Atsugi	44323	1	0	0	0	0	1
AIMD Barbers Point	44312	0	0	1	0	0	0
AIMD Fallon	44317	2	2	0	0	0	2
AIMD Lemoore	44321	9	1	2	1	0	8
AIMD North Island	44326	12	0	1	0	0	0
AIMD Point Mugu	44328	2	0	0	0	0	0
AIMD Whidbey Island	44329	6	2	3	3	0	0
JRB Fort Worth	44487	3	0	0	0	0	0
Mobile Maintenance Facility 1	00000	1	1	0	0	0	0
Mobile Maintenance Facility 2	00000	1	1	0	0	0	0
NADEP North Island	65888	15	1	0	1	0	0
NAS Kingsville	60241	0	0	0	1	0	0
NISE West San Diego	68944	1	0	0	0	0	0
NUWC Keyport	00253	4	0	0	0	0	0
<b>TOTAL:</b>		128	18	15	15	0	14
<b>FLEET SUPPORT ACTIVITIES - USMC</b>							
MALS-14 Cherry Point	09114	8	2	0	2	0	1
MALS-26 New River	09167	0	0	0	6	0	0
MALS-29 New River	09167	0	0	0	0	0	3
MALS-31 Beaufort	09131	6	2	2	0	0	4
MCAS Quantico	00262	0	0	0	0	0	3
MALS-11 Miramar	09111	7	3	1	2	0	2
MALS-12 Iwakuni	09112	6	0	1	1	0	1
MALS-13 Yuma	57082	6	0	1	1	0	1
MALS-16 Tustin	55583	0	0	0	0	3	0
MALS-41 Fort Worth	67239	4	1	3	0	0	1
<b>TOTAL:</b>		37	8	8	12	3	16

**Note:** The numbers depicted above indicate the number of CASS stations that will be delivered to those activities. Element II.A.1.b contains additional activities that require billets to support CASS but will not receive CASS stations. These additional activities are listed below.

**ACTIVITY, UIC**

**FLEET SUPPORT ACTIVITIES - NAVY**

NAVAIRSYSCOM, AIR 1.0	68346
Naval Force Aircraft Test Squadron, Pax River	39785
NAVTESTWINGLANT Patuxent River	39782
NAWCAD Patuxent River	49860
SEAOPDET Beaufort	46961
SEAOPDET Jacksonville	46965
SEAOPDET Norfolk	46966

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

### ACTIVITY, UIC

SEAOPDET Oceana	46963
NAS Whidbey Island Van OpDet	31179
SEAOPDET Lemoore	46964
SEAOPDET North Island	46968
SEAOPDET Point Mugu	46962
SEAOPDET Whidbey Island	46967

### FLEET SUPPORT ACTIVITIES - USMC

VMFA CV Deployment	00000
VMFA CV MALS Augment	00000
MALS-29 New River	09167

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>CV 67, USS John F. Kennedy, 03367</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6704	
	0	1	AT2	6705	
	0	3	AT3	6704	
	0	3	ATAN	6704	
TAR	0	1	ATAN	6704	
<b>CV 67, USS John F. Kennedy, 03367, FY01 Increment</b>					
ACDU	0	1	ATAN	6704	
	0	2	AT	6705	
<b>CV 67, USS John F. Kennedy, 03367, FY03 Increment</b>					
ACDU	0	1	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	16			
<b>CVN 65, USS Enterprise, 03365</b>					
ACDU	0	2	AT1	6705	
	0	1	AT2	6704	
	0	1	AT2	6705	
	0	2	AT3	6704	
	0	2	ATAN	6704	
<b>CVN 65, USS Enterprise, 03365, FY01 Increment</b>					
ACDU	0	8	AT	6704	
	0	5	AT	6705	
<b>CVN 65, USS Enterprise, 03365, FY02 Increment</b>					
ACDU	0	4	AT	6704	
	0	2	AT	6705	
<b>CVN 65, USS Enterprise, 03365, FY04 Increment</b>					
ACDU	0	2	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	31			
<b>CVN 68, USS Nimitz, 03368</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6704	
	0	1	AT2	6705	
	0	2	AT3	6704	
	0	1	ATAN	6704	

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 68, USS Nimitz, 03368, FY01 Increment</b>					
ACDU	0	6	AT	6704	
	0	4	AT	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>16</b>			
<b>CVN 69, USS Dwight D. Eisenhower, 03369</b>					
ACDU	0	1	AT1	6704	
	0	1	AT1	6705	
	0	1	AT2	6705	
	0	2	AT3	6704	
	0	3	ATAN	6704	
<b>CVN 69, USS Dwight D. Eisenhower, 03369, FY01 Increment</b>					
ACDU	0	2	AT	6705	
<b>CVN 69, USS Dwight D. Eisenhower, 03369, FY03 Increment</b>					
ACDU	0	3	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>15</b>			
<b>CVN 71, USS Theodore Roosevelt, 21247</b>					
ACDU	0	1	AT1	6705	
	0	2	AT2	6704	
	0	1	AT2	6705	
	0	2	AT3	6704	
	0	2	ATAN	6704	
<b>CVN 71, USS Theodore Roosevelt, 21247, FY01 Increment</b>					
ACDU	0	4	AT	6704	
	0	6	AT	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>18</b>			
<b>CVN 73, USS George Washington, 21412</b>					
ACDU	0	1	AT1	6704	
	0	2	AT1	6705	
	0	2	AT2	6704	
	0	1	AT2	6705	
	0	2	AT3	6704	
	0	2	ATAN	6704	
<b>CVN 73, USS George Washington, 21412, FY01 Increment</b>					
ACDU	0	3	AT	6704	
	0	3	AT	6705	

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 George Washington, 21412, FY03 Increment</b>					
ACDU	0	1	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>19</b>			
<b>CVN 75, USS Harry S. Truman, 21853</b>					
ACDU	0	1	AT1	6704	
	0	2	AT1	6705	
	0	3	AT2	6704	
	0	2	AT3	6704	
<b>CVN 75, USS Harry S. Truman, 21853, FY01 Increment</b>					
ACDU	0	2	AT	6705	
<b>CVN 75, USS Harry S. Truman, 21853, FY02 Increment</b>					
ACDU	0	3	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>15</b>			
<b>LHA 2, USS Saipan, 20632, FY01 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHA 4, USS Nassau, 20725, FY01 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHD 1, USS Wasp, 21560, FY01 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHD 3, USS Kearsarge, 21700, FY02 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHD 5, USS Bataan, 21879, FY00 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	

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			
ACTIVITY TOTAL:	0	2			
LHD 7, USS Iwo Jima, 23027, FY03 Increment ACDU	0	2	AT	6705	
ACTIVITY TOTAL:	0	2			
CV 63, USS Kitty Hawk, 03363 ACDU	0	1	AT1	6705	
	0	5	AT2	6704	
	0	1	AT2	6705	
	0	9	AT3	6704	
	0	9	ATAN	6704	
CV 63, USS Kitty Hawk, 03363, FY01 Increment ACDU	0	2	AT	6705	
CV 63, USS Kitty Hawk, 03363, FY02 Increment ACDU	0	6	AT	6704	
	0	2	AT	6705	
CV 63, USS Kitty Hawk, 03363, FY03 Increment ACDU	0	5	AT	6704	
	0	2	AT	6705	
ACTIVITY TOTAL:	0	42			
CV 64, USS Constellation, 03364 ACDU	0	1	AT1	6705	
	0	3	AT2	6705	
	0	3	AT3	6704	
	0	3	ATAN	6704	
CV 64, USS Constellation, 03364, FY01 Increment ACDU	0	2	AT	6704	
	0	2	AT	6705	
ACTIVITY TOTAL:	0	14			
CVN 70, USS Carl Vinson, 20993 ACDU	0	1	AT1	6704	
	0	1	AT1	6705	
	0	3	AT2	6705	
	0	2	AT3	6704	
	0	4	ATAN	6704	
CVN 70, USS Carl Vinson, 20993, FY02 Increment					

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			
ACDU	0	2	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	15			
<b>CVN 72, USS Abraham Lincoln, 21297</b>					
ACDU	0	1	AT1	6704	
	0	1	AT1	6705	
	0	1	AT2	6704	
	0	1	AT2	6705	
	0	2	AT3	6704	
	0	2	ATAN	6704	
<b>CVN 72, USS Abraham Lincoln, 21297, FY01 Increment</b>					
ACDU	0	3	AT	6704	
	0	4	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	15			
<b>CVN 74, USS John C. Stennis, 21847</b>					
ACDU	0	1	AT1	6704	
	0	1	AT1	6705	
	0	3	AT2	6705	
	0	2	AT3	6704	
	0	3	ATAN	6704	
<b>CVN 74, USS John C. Stennis, 21847, FY01 Increment</b>					
ACDU	0	3	AT	6704	
	0	2	AT	6705	
<b>CVN 74, USS John C. Stennis, 21847, FY03 Increment</b>					
ACDU	0	3	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	20			
<b>CVN 76, USS Ronald Reagan, 22178, FY03 Increment</b>					
ACDU	0	12	AT	6704	
	0	8	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	20			
<b>LHA 1, USS Tarawa, 20550, FY01 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<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>LHA 3, USS Belleau Wood, 20633, FY01 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHA 5, USS Peleliu, 20748, FY02 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHD 2, USS Essex, 21533, FY01 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHD 4, USS Boxer, 21808, FY01 Increment</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>LHD 6, USS Bonhomme Richard, 39477, FY00 Increment</b>					
ACDU	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
OPERATIONAL ACTIVITIES - USMC					
<b>VMA Squadron (East Coast), 00000</b>					
USMC	0	2	CPL	6467	
	0	1	LCPL	6463	
	0	2	LCPL	6467	
<b>VMA Squadron (East Coast), 00000, FY01 Increment</b>					
USMC	0	4		6467	
<b>VMA Squadron (East Coast), 00000, FY03 Increment</b>					
USMC	0	3		6463	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>12</b>			
<b>VMFA (AW) Squadron (East Coast), 00000</b>					
USMC	0	2	CPL	6466	
	0	2	LCPL	6466	
	0	4	LCPL	6467	

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			
USMC	0	2	SGT	6466	
	0	1	SGT	6467	
<b>ACTIVITY TOTAL:</b>	0	11			
<b>VMFA 142, 67243</b>					
USMC	0	1	LCPL	6466	
	0	1	LCPL	6467	
	0	1	SGT	6463	
	0	1	SGT	6466	
AR	0	1	CPL	6463	
	0	1	LCPL	6463	
	0	1	LCPL	6466	
<b>ACTIVITY TOTAL:</b>	0	7			
<b>VMFA 321, 00000</b>					
USMC	0	1	LCPL	6466	
	0	1	LCPL	6467	
	0	1	SGT	6463	
	0	1	SGT	6466	
AR	0	1	CPL	6463	
	0	1	LCPL	6463	
	0	1	LCPL	6466	
<b>ACTIVITY TOTAL:</b>	0	7			
<b>VMFA Squadron (East Coast), 00000</b>					
USMC	0	1	CPL	6463	
	0	2	LCPL	6466	
	0	2	LCPL	6467	
	0	1	SGT	6463	
	0	1	SGT	6466	
<b>VMFA Squadron (East Coast), 00000, FY01 Increment</b>					
USMC	0	1	CPL	6463	
	0	2	LCPL	6463	
	0	1	SGT	6463	
<b>ACTIVITY TOTAL:</b>	0	11			
<b>VMM 12, 00000</b>					
USMC	0	2	CPL	6467	
	0	2	LCPL	6467	

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>ACTIVITY TOTAL:</b>	0	4			
<b>VMA Squadron (West Coast), 00000</b>					
USMC	0	2	CPL	6467	
	0	1	LCPL	6463	
	0	2	LCPL	6467	
<b>VMA Squadron (West Coast), 00000, FY01 Increment</b>					
USMC	0	4		6467	
<b>VMA Squadron (West Coast), 00000, FY03 Increment</b>					
USMC	0	3		6463	
<b>ACTIVITY TOTAL:</b>	0	12			
<b>VMFA (AW) Squadron (West Coast), 00000</b>					
USMC	0	2	CPL	6466	
	0	2	LCPL	6466	
	0	4	LCPL	6467	
	0	2	SGT	6466	
	0	1	SGT	6467	
<b>ACTIVITY TOTAL:</b>	0	11			
<b>VMFA 112, 00000</b>					
USMC	0	1	LCPL	6466	
	0	1	LCPL	6467	
	0	1	SGT	6463	
	0	1	SGT	6466	
AR	0	1	CPL	6463	
	0	1	LCPL	6463	
	0	1	LCPL	6466	
<b>ACTIVITY TOTAL:</b>	0	7			
<b>VMFA 134, 00000</b>					
USMC	0	1	LCPL	6466	
	0	1	LCPL	6467	
	0	1	SGT	6463	
	0	1	SGT	6466	
AR	0	1	CPL	6463	
	0	1	LCPL	6463	
	0	1	LCPL	6466	
<b>ACTIVITY TOTAL:</b>	0	7			

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>VMFA Squadron (West Coast), 00000</b>					
USMC	0	1	CPL	6463	
	0	2	LCPL	6466	
	0	2	LCPL	6467	
	0	1	SGT	6463	
	0	1	SGT	6466	
<b>VMFA Squadron (West Coast), 00000, FY01 Increment</b>					
USMC	0	1	CPL	6463	
	0	2	LCPL	6463	
	0	2	LCPL	6466	
	0	1	SGT	6463	
	0	1	SGT	6466	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>14</b>			
<b>VMFAT-101, 09965</b>					
USMC	0	4	CPL	6466	
	0	5	CPL	6467	
	0	3	LCPL	6466	
	0	2	SGT	6467	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>14</b>			
FLEET SUPPORT ACTIVITIES - NAVY					
<b>AIMD Brunswick, 44314, FY02 Increment</b>					
ACDU	0	1	AT	6705	
	0	2	AT	6723	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>3</b>			
<b>AIMD Cecil Field, 44315</b>					
ACDU	0	2	AT3	6704	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>AIMD Jacksonville, 44319</b>					
ACDU	0	1	AT1	6704	
	0	1	AT1	6705	
	0	9	AT2	6704	
	0	2	AT2	6705	
	0	13	AT3	6704	
	0	4	ATAN	6704	
<b>AIMD Jacksonville, 44319, FY01 Increment</b>					
ACDU	0	1	AT	6705	
	0	3	AT	6724	

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>AIMD Jacksonville, 44319, FY02 Increment</b>					
ACDU	0	3	AT	6723	
<b>ACTIVITY TOTAL:</b>	0	37			
<b>AIMD Mayport, 45459, FY00 Increment</b>					
ACDU	0	1	AT1	6704	
	0	1	AT2	6704	
	0	2	AT2	6705	
	0	1	AT3	6704	
<b>AIMD Mayport, 45459, FY02 Increment</b>					
ACDU	0	2	AT	6704	
<b>AIMD Mayport, 45459, FY03 Increment</b>					
ACDU	0	3	AT	6704	
<b>ACTIVITY TOTAL:</b>	0	10			
<b>AIMD Norfolk, 44325, FY03 Increment</b>					
ACDU	0	3	AT	6704	
	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	5			
<b>AIMD Oceana, 44327</b>					
ACDU	0	2	AT1	6704	
	0	1	AT1	6705	
	0	41	AT2	6704	
	0	6	AT2	6705	
	0	31	AT3	6704	
	0	13	ATAN	6704	
SELRES	0	1	AT2	6704	
	0	3	AT3	6704	
<b>AIMD Oceana, 44327, FY01 Increment</b>					
ACDU	0	2	AT2	6705	
	0	5	AT	6705	
	0	11	AT	6723	
	0	6	AT	6724	
<b>AIMD Oceana, 44327, FY02 Increment</b>					
ACDU	0	2	AT	6705	
	0	2	AT	6724	

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>ACTIVITY TOTAL:</b>	0	126			
<b>AIMD Sigonella, 44330</b>					
ACDU	0	1	AT2	6705	
	0	1	AT3	6704	
<b>AIMD Sigonella, 44330, FY01 Increment</b>					
ACDU	0	1	AT	6704	
<b>AIMD Sigonella, 44330, FY03 Increment</b>					
ACDU	0	3	AT	6704	
	0	1	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	7			
<b>AIMD Washington, DC, 44492, FY01 Increment</b>					
ACDU	0	1	AT	6705	
TAR	0	2	AT	6704	
<b>AIMD Washington, DC, 44492, FY02 Increment</b>					
ACDU	0	1	AT	6723	
TAR	0	1	AT	6705	
	0	2	AT	6723	
<b>ACTIVITY TOTAL:</b>	0	7			
<b>NAVAIRSYSCOM, AIR 1.0, 68346</b>					
ACDU	0	2	AT2	6653	6705
<b>ACTIVITY TOTAL:</b>	0	2			
<b>Naval Force Aircraft Test Squadron, Patuxent River, 39785</b>					
ACDU	0	3	AT1	6704	
	0	2	AT1	6705	
	0	1	AT2	6704	
<b>ACTIVITY TOTAL:</b>	0	6			
<b>NAVTESTWINGLANT Patuxent River, 39782, FY01 Increment</b>					
ACDU	0	1	AT2	6704	
	0	1	AT2	6705	
	0	1	AT3	6704	
<b>ACTIVITY TOTAL:</b>	0	3			
<b>NAWCAD Patuxent River, 49860</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			
ACDU	0	2	AT2	6704	
	0	1	AT2	6705	
<b>NAWCAD Patuxent River, 49860, FY00 Increment</b>					
ACDU	0	3	AT1	6704	
	0	2	AT1	6705	
	0	1	AT2	6704	
<b>ACTIVITY TOTAL:</b>	0	9			
<b>SEAOPDET Beaufort, 46961</b>					
ACDU	0	2	AT2	6704	
	0	2	AT3	6704	
<b>ACTIVITY TOTAL:</b>	0	4			
<b>SEAOPDET Jacksonville, 46965</b>					
ACDU	0	5	AT2	6705	
	0	17	AT3	6704	
	0	15	ATAN	6704	
<b>SEAOPDET Jacksonville, 46965, FY01 Increment</b>					
ACDU	0	2	ATAN	6704	
	0	1	AT	6704	
<b>SEAOPDET Jacksonville, 46965, FY02 Increment</b>					
ACDU	0	4	AT	6704	
<b>SEAOPDET Jacksonville, 46965, FY03 Increment</b>					
ACDU	0	1	AT	6704	
	0	2	AT	6724	
<b>SEAOPDET Jacksonville, 46965, FY04 Increment</b>					
ACDU	0	2	AT	6724	
<b>ACTIVITY TOTAL:</b>	0	49			
<b>SEAOPDET Norfolk, 46966</b>					
ACDU	0	5	AT3	6704	
<b>ACTIVITY TOTAL:</b>	0	5			
<b>SEAOPDET Oceana, 46963</b>					
ACDU	0	19	AT2	6704	
	0	29	AT3	6704	
	0	17	ATAN	6704	
<b>SEAOPDET Oceana, 46963, FY01 Increment</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			
ACDU	0	4	AT	6704	
	0	4	AT	6723	
	0	14	AT	6724	
<b>SEAOPDET Oceana, 46963, FY02 Increment</b>					
ACDU	0	3	AT	6704	
	0	2	AT	6723	
<b>SEAOPDET Oceana, 46963, FY03 Increment</b>					
ACDU	0	4	AT	6704	
	0	2	AT	6723	
	0	4	AT	6724	
<b>SEAOPDET Oceana, 46963, FY04 Increment</b>					
ACDU	0	2	AT	6724	
<b>ACTIVITY TOTAL:</b>					
	0	104			
<b>AIMD Atsugi, 44323, FY01 Increment</b>					
ACDU	0	2	AT	6704	
	0	1	AT	6705	
<b>ACTIVITY TOTAL:</b>					
	0	3			
<b>AIMD Barbers Point, 44312, FY02 Increment</b>					
ACDU	0	1	AT	6705	
	0	2	AT	6723	
<b>ACTIVITY TOTAL:</b>					
	0	3			
<b>AIMD Fallon, 44317</b>					
ACDU	0	3	AT2	6704	
	0	1	AT2	6705	
	0	2	AT3	6704	
<b>AIMD Fallon, 44317, FY01 Increment</b>					
ACDU	0	1	AT	6705	
<b>AIMD Fallon, 44317, FY02 Increment</b>					
ACDU	0	3	AT	6723	
	0	3	AT	6724	
<b>ACTIVITY TOTAL:</b>					
	0	13			
<b>AIMD Lemoore, 44321</b>					
ACDU	0	2	AT1	6705	
	0	1	AT2	6704	
	0	1	AT2	6705	

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			
ACDU	0	2	AT3	6704	
	0	1	ATAN	6704	
<b>AIMD Lemoore, 44321, FY01 Increment</b>					
ACDU	0	2	AT	6704	
	0	1	AT	6705	
	0	3	AT	6723	
	0	6	AT	6724	
<b>AIMD Lemoore, 44321, FY02 Increment</b>					
ACDU	0	2	AT	6705	
	0	3	AT	6723	
<b>AIMD Lemoore, 44321, FY03 Increment</b>					
ACDU	0	1	AT	6704	
<b>ACTIVITY TOTAL:</b>					
	0	25			
<b>AIMD North Island, 44326</b>					
ACDU	0	1	AT1	6704	
	0	2	AT1	6705	
	0	7	AT2	6704	
	0	2	AT2	6705	
	0	7	AT3	6704	
	0	3	ATAN	6704	
<b>AIMD North Island, 44326, FY01 Increment</b>					
ACDU	0	2	AT	6705	
	0	3	AT	6723	
<b>AIMD North Island, 44326, FY02 Increment</b>					
ACDU	0	3	AT	6724	
<b>ACTIVITY TOTAL:</b>					
	0	30			
<b>AIMD Point Mugu, 44328</b>					
ACDU	0	1	AT2	6704	
	0	1	AT2	6705	
	0	1	AT3	6704	
<b>AIMD Point Mugu, 44328, FY01 Increment</b>					
ACDU	0	1	AT	6705	
<b>ACTIVITY TOTAL:</b>					
	0	4			
<b>AIMD Whidbey Island, 44329</b>					
ACDU	0	3	AT2	6705	

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>AIMD Whidbey Island, 44329, FY01 Increment</b>					
ACDU	0	1	AT	6705	
	0	6	AT	6723	
<b>AIMD Whidbey Island, 44329, FY02 Increment</b>					
ACDU	0	2	AT	6705	
<b>ACTIVITY TOTAL:</b>	0	12			
<b>JRB Fort Worth, 44487</b>					
ACDU	0	1	AT2	6704	
<b>JRB Fort Worth, 44487, FY00 Increment</b>					
ACDU	0	1	AT1	6704	
TAR	0	2	AT2	6705	
	0	1	AT3	6704	
	0	1	ATAN	6704	
<b>JRB Fort Worth, 44487, FY01 Increment</b>					
ACDU	0	1	AT	6724	
TAR	0	1	AT	6704	
	0	2	AT	6724	
<b>JRB Fort Worth, 44487, FY02 Increment</b>					
ACDU	0	1	AT	6723	
TAR	0	2	AT	6723	
<b>ACTIVITY TOTAL:</b>	0	13			
<b>NAS Whidbey Island Van OpDet, 31179</b>					
ACDU	0	1	AT1	6705	
	0	1	AT2	6705	
	0	1	AT3	6704	
<b>ACTIVITY TOTAL:</b>	0	3			
<b>SEAOPDET Lemoore, 46964</b>					
ACDU	0	7	AT2	6705	
	0	11	AT3	6704	
	0	3	ATAN	6704	
<b>SEAOPDET Lemoore, 46964, FY00 Increment</b>					
ACDU	0	4	AT	6724	
<b>SEAOPDET Lemoore, 46964, FY01 Increment</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			
ACDU	0	2	AT3	6723	
	0	4	AT	6723	
	0	4	AT	6724	
<b>SEAOPDET Lemoore, 46964, FY02 Increment</b>					
ACDU	0	1	AT	6704	
	0	4	AT	6723	
	0	1	AT	6724	
<b>SEAOPDET Lemoore, 46964, FY03 Increment</b>					
ACDU	0	2	AT	6704	
	0	3	AT	6724	
<b>ACTIVITY TOTAL:</b>	0	46			
<b>SEAOPDET North Island, 46968</b>					
ACDU	0	4	AT2	6704	
	0	14	AT3	6704	
	0	14	ATAN	6704	
<b>SEAOPDET North Island, 46968, FY02 Increment</b>					
ACDU	0	7	AT	6704	
	0	1	AT	6724	
<b>SEAOPDET North Island, 46968, FY03 Increment</b>					
ACDU	0	3	AT	6704	
	0	3	AT	6724	
<b>ACTIVITY TOTAL:</b>	0	46			
<b>SEAOPDET Point Mugu, 46962</b>					
ACDU	0	5	AT3	6704	
<b>ACTIVITY TOTAL:</b>	0	5			
<b>SEAOPDET Whidbey Island, 46967</b>					
ACDU	0	9	ATAN	6704	
<b>SEAOPDET Whidbey Island, 46967, FY01 Increment</b>					
ACDU	0	2	AT2	6723	
	0	4	AT	6723	
<b>SEAOPDET Whidbey Island, 46967, FY02 Increment</b>					
ACDU	0	3	AT	6723	
<b>SEAOPDET Whidbey Island, 46967, FY03 Increment</b>					
ACDU	0	2	AT	6723	

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>ACTIVITY TOTAL:</b>	0	20			
FLEET SUPPORT ACTIVITIES - USMC					
<b>MALS-14 Cherry Point, 09114</b>					
USMC	0	3	LCPL	6467	
	0	1	SGT	6467	
<b>MALS-14 Cherry Point, 09114, FY01 Increment</b>					
USMC	0	8		6463	
	0	8		6466	
	0	12		6467	
<b>MALS-14 Cherry Point, 09114, FY03 Increment</b>					
USMC	0	4		6463	
<b>MALS-14 Cherry Point, 09114, FY05 Increment</b>					
USMC	0	4		6467	
<b>ACTIVITY TOTAL:</b>	0	40			
<b>MALS-31 Beaufort, 09131</b>					
USMC	0	1	CPL	6467	
	0	3	LCPL	6467	
<b>MALS-31 Beaufort, 09131, FY01 Increment</b>					
USMC	0	4		6463	
	0	12		6467	
<b>MALS-31 Beaufort, 09131, FY05 Increment</b>					
USMC	0	16		6467	
<b>ACTIVITY TOTAL:</b>	0	36			
<b>VMFA CV Deployment, 00000</b>					
USMC	0	1	CPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
<b>ACTIVITY TOTAL:</b>	0	3			
<b>VMFA CV MALS Augment, 00000</b>					
USMC	0	2	LCPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
	0	1	SGT	6466	

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			
ACTIVITY TOTAL:	0	5			
<b>MALS-11 Miramar, 09111</b>					
USMC	0	1	CPL	6467	
	0	3	LCPL	6467	
<b>MALS-11 Miramar, 09111, FY01 Increment</b>					
USMC	0	4		6463	
	0	12		6467	
<b>MALS-11 Miramar, 09111, FY03 Increment</b>					
USMC	0	4		6463	
<b>MALS-11 Miramar, 09111, FY05 Increment</b>					
USMC	0	8		6467	
ACTIVITY TOTAL:	0	32			
<b>MALS-12 Iwakuni, 09112</b>					
USMC	0	1	CPL	6467	
	0	3	LCPL	6467	
<b>MALS-12 Iwakuni, 09112, FY01 Increment</b>					
USMC	0	12		6467	
<b>MALS-12 Iwakuni, 09112, FY03 Increment</b>					
USMC	0	4		6463	
<b>MALS-12 Iwakuni, 09112, FY05 Increment</b>					
USMC	0	4		6467	
ACTIVITY TOTAL:	0	24			
<b>MALS-13 Yuma, 57082</b>					
USMC	0	1	CPL	6467	
	0	3	LCPL	6467	
<b>MALS-13 Yuma, 57082, FY01 Increment</b>					
USMC	0	4		6466	
	0	12		6467	
<b>MALS-13 Yuma, 57082, FY02 Increment</b>					
USMC	0	4		6463	
<b>MALS-13 Yuma, 57082, FY05 Increment</b>					
USMC	0	4		6467	

**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>ACTIVITY TOTAL:</b>	0	28			
<b>MALS-41 Fort Worth, 67239, FY01 Increment</b>					
USMC	0	4		6466	
	0	12		6467	
<b>MALS-41 Fort Worth, 67239, FY02 Increment</b>					
USMC	0	8		6463	
	0	4		6467	
<b>MALS-41 Fort Worth, 67239, FY05 Increment</b>					
USMC	0	4		6467	
<b>ACTIVITY TOTAL:</b>	0	32			
<b>VMFA CV Deployment, 00000</b>					
USMC	0	1	CPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
<b>ACTIVITY TOTAL:</b>	0	3			
<b>VMFA CV MALS Augment, 00000</b>					
USMC	0	2	LCPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
	0	1	SGT	6466	
<b>ACTIVITY TOTAL:</b>	0	5			

**Note:** The Navy billets depicted by rate (i.e., AT1, ATAN) indicate programmed billets from Total Force Manpower System databases. Billets depicted by rating only (i.e., AT) indicate projected billet requirements. All billets are based on 1.3 Operator-Maintainers per station per shift and one Advanced Maintenance Technician per five stations per shift.

**Note:** The Marine Corps billets depicted above by rank (i.e., SGT, LCPL) indicate programmed billets from Tables of Organization databases. Billets depicted without a rank depicted (blank) indicate projected billet requirements.

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY OPERATIONAL ACTIVITIES - ACDU													
AT1	6704		6		0		0		0		0		0
AT1	6705		16		7		2		0		0		0
AT2	6704		16		0		0		0		0		0
AT2	6705		18		7		2		0		0		0
AT3	6704		33		0		0		0		0		0
ATAN	6704		34		1		0		0		0		0
AT	6704		0		29		15		25		2		0
AT	6705		2		34		8		20		2		0
NAVY OPERATIONAL ACTIVITIES - TAR													
ATAN	6704		1		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC													
CPL	6463		4		4		0		0		0		0
CPL	6466		16		0		0		0		0		0
CPL	6467		21		0		0		0		0		0
LCPL	6463		7		8		0		0		0		0
LCPL	6466		27		4		0		0		0		0
LCPL	6467		52		0		0		0		0		0
SGT	6463		8		4		0		0		0		0
SGT	6466		20		2		0		0		0		0
SGT	6467		8		0		0		0		0		0
	6463		0		0		0		21		0		0
	6467		0		28		0		0		0		0
USMC OPERATIONAL ACTIVITIES - AR													
CPL	6463		4		0		0		0		0		0
LCPL	6463		4		0		0		0		0		0
LCPL	6466		4		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AT1	6704		9		0		0		0		0		0
AT1	6705		13		0		0		0		0		0
AT2	6653 6705		2		0		0		0		0		0
AT2	6704		92		1		0		0		0		0
AT2	6705		37		3		0		0		0		0
AT2	6723		0		2		0		0		0		0
AT3	6704		148		1		0		0		0		0
AT3	6723		0		2		0		0		0		0
ATAN	6704		79		2		0		0		0		0
AT	6704		0		10		17		20		0		0
AT	6705		0		14		8		3		0		0
AT	6723		0		35		24		4		0		0
AT	6724		4		34		10		12		4		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY FLEET SUPPORT ACTIVITIES - TAR													
AT2	6704		0		0		0		0		0		0
AT2	6705		2		0		0		0		0		0
AT3	6704		1		0		0		0		0		0
ATAN	6704		1		0		0		0		0		0
AT	6704		0		3		0		0		0		0
AT	6705		0		0		1		0		0		0
AT	6723		0		0		4		0		0		0
AT	6724		0		2		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
AT2	6704		1		0		0		0		0		0
AT3	6704		3		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	6463		4		0		0		0		0		0
CPL	6467		4		0		0		0		0		0
LCPL	6463		8		0		0		0		0		0
LCPL	6466		8		0		0		0		0		0
LCPL	6467		15		0		0		0		0		0
SGT	6463		8		0		0		0		0		0
SGT	6466		4		0		0		0		0		0
SGT	6467		1		0		0		0		0		0
	6463		0		16		12		12		0		0
	6466		0		16		0		0		0		0
	6467		0		72		4		0		0		40
<b>SUMMARY TOTALS:</b>													
NAVY OPERATIONAL ACTIVITIES - ACDU													
			125		78		29		45		4		0
NAVY OPERATIONAL ACTIVITIES - TAR													
			1		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC													
			163		50		0		21		0		0
USMC OPERATIONAL ACTIVITIES - AR													
			12		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			384		104		59		39		4		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY FLEET SUPPORT ACTIVITIES - TAR													
			4		5		5		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
			4		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
			52		104		16		12		0		40
<b>GRAND TOTALS:</b>													
NAVY - ACDU													
			509		182		88		84		8		0
NAVY - TAR													
			5		5		5		0		0		0
NAVY - SELRES													
			4		0		0		0		0		0
USMC - USMC													
			215		154		16		33		0		40
USMC - AR													
			12		0		0		0		0		0

**Note:** The PFY depicts the current manpower requirements. The proposed changes to the Marine Corps manpower concept addressed in Part I have been included in FY01 through FY05.

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

**SOURCE:** PMA260

**DATE:** 12/1/99

<b>ACTIVITY, UIC</b>		<b>PFYs</b>	<b>CFY01</b>	<b>FY02</b>	<b>FY03</b>	<b>FY04</b>	<b>FY05</b>
OPERATIONAL ACTIVITIES - NAVY CV 64, USS Constellation	03364	0	0	11	0	0	0
<b>TOTAL:</b>		0	0	11	0	0	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - NAVY					
CV 67, USS John F. Kennedy, 03367, FY00 Increment ACDU	0	1	AT3	6631	
CV 67, USS John F. Kennedy, 03367, FY01 Increment TAR	0	1	ATAN	6704	
CV 67, USS John F. Kennedy, 03367, FY02 Increment ACDU	0	1	AT1	6684	
	0	1	AT3	7984	
CV 67, USS John F. Kennedy, 03367, FY03 Increment ACDU	0	1	AT1	7978	
	0	1	AT2	6647	
	0	1	AT3	7978	
	0	1	AT3	7988	
CV 67, USS John F. Kennedy, 03367, FY04 Increment ACDU	0	1	AT3	7989	
	0	1	AT3	7991	
<b>ACTIVITY TOTAL:</b>	0	10			
CVN 65, USS Enterprise, 03365, FY00 Increment ACDU	0	1	AT1	6631	
CVN 65, USS Enterprise, 03365, FY02 Increment ACDU	0	1	AT1	7978	
	0	1	AT2	6684	
	0	1	AT3	7978	
	0	1	AT3	7984	
	0	1	AT3	7988	
	0	1	AT3	7989	
	0	1	AT3	7991	
<b>ACTIVITY TOTAL:</b>	0	8			
CVN 68, USS Nimitz, 03368, FY01 Increment ACDU	0	1	AT1	7978	
	0	1	AT2	6631	
	0	1	AT3	7978	
	0	1	AT3	7984	
	0	1	AT3	7988	
	0	1	AT3	7989	
	0	1	AT3	7991	
	0	1	ATAN	7978	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
CVN 68, USS Nimitz, 03368, FY02 Increment ACDU	0	1	AT1	6684	
CVN 68, USS Nimitz, 03368, FY04 Increment ACDU	0	1	AT3	6704	
<b>ACTIVITY TOTAL:</b>	0	10			
CVN 69, USS Dwight D. Eisenhower, 03369, FY00 Increment ACDU	0	1	AT3	6631	
CVN 69, USS Dwight D. Eisenhower, 03369, FY02 Increment ACDU	0	1	AT1	6684	
CVN 69, USS Dwight D. Eisenhower, 03369, FY03 Increment ACDU	0	1	AT1	7978	
	0	1	AT2	6647	
	0	1	AT3	7978	
	0	1	AT3	7984	
	0	1	AT3	7988	
	0	1	AT3	7989	
	0	1	AT3	7991	
<b>ACTIVITY TOTAL:</b>	0	9			
CVN 71, USS Theodore Roosevelt, 21247, FY00 Increment ACDU	0	1	AT3	6631	
CVN 71, USS Theodore Roosevelt, 21247, FY01 Increment ACDU	0	1	AT3	7984	
CVN 71, USS Theodore Roosevelt, 21247, FY02 Increment ACDU	0	1	AT1	6684	
	0	1	AT1	7978	
	0	1	AT3	7988	
	0	1	ATAN	7978	
CVN 71, USS Theodore Roosevelt, 21247, FY03 Increment ACDU	0	1	AT1	7991	
	0	1	AT3	7989	
	0	1	ATAN	6647	
CVN 71, USS Theodore Roosevelt, 21247, FY04 Increment ACDU	0	1	ATAN	6704	
<b>ACTIVITY TOTAL:</b>	0	10			
CVN 73, USS George Washington, 21412, FY01 Increment					

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACDU	0	1	AT1	7978	
	0	1	AT3	6631	
	0	1	AT3	7978	
	0	1	AT3	7988	
<b>CVN 73, USS George Washington, 21412, FY02 Increment</b>					
ACDU	0	1	AT2	6647	
	0	1	AT3	7984	
	0	1	AT3	7989	
	0	1	AT3	7991	
<b>CVN 73, USS George Washington, 21412, FY03 Increment</b>					
ACDU	0	1	AT1	6684	
<b>ACTIVITY TOTAL:</b>					
	0	9			
<b>CVN 75, USS Harry S. Truman, 21853, FY01 Increment</b>					
ACDU	0	1	AT3	6631	
<b>CVN 75, USS Harry S. Truman, 21853, FY02 Increment</b>					
ACDU	0	1	AT1	7978	
	0	1	AT2	6647	
	0	1	AT3	7978	
	0	1	AT3	7984	
	0	1	AT3	7988	
	0	1	AT3	7989	
	0	1	AT3	7991	
<b>CVN 75, USS Harry S. Truman, 21853, FY03 Increment</b>					
ACDU	0	1	AT1	6684	
<b>ACTIVITY TOTAL:</b>					
	0	9			
<b>CV 63, USS Kitty Hawk, 03363, FY00 Increment</b>					
ACDU	0	1	AT2	6631	
	0	1	AT3	7978	
	0	2	ATAN	7978	
<b>CV 63, USS Kitty Hawk, 03363, FY01 Increment</b>					
ACDU	0	3	AT3	6631	
<b>CV 63, USS Kitty Hawk, 03363, FY02 Increment</b>					
ACDU	0	1	AT1	6684	
	0	1	AT1	7978	
	0	1	AT2	7978	
	0	1	AT2	7984	
	0	1	AT2	7989	
	0	1	AT3	6647	

II.A.2.b. BILLETTS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACDU	0	1	AT3	6715	
	0	1	AT3	7978	
	0	1	AT3	7984	
	0	2	AT3	7988	
	0	1	AT3	7989	
	0	2	AT3	7991	
	0	1	ATAN	6647	
	0	1	ATAN	7978	
<b>ACTIVITY TOTAL:</b>	0	23			
<b>CV 64, USS Constellation, 03364, FY00 Increment</b>					
ACDU	0	1	AT3	6631	
	0	1	AT3	7984	
<b>ACTIVITY TOTAL:</b>	0	2			
<b>CVN 70, USS Carl Vinson, 20993, FY00 Increment</b>					
ACDU	0	1	AT3	6631	
	0	1	AT3	7984	
<b>CVN 70, USS Carl Vinson, 20993, FY01 Increment</b>					
ACDU	0	1	ATAN	7978	
<b>CVN 70, USS Carl Vinson, 20993, FY02 Increment</b>					
ACDU	0	1	AT1	6684	
	0	1	AT1	7978	
	0	1	AT3	7978	
	0	1	AT3	7991	
<b>ACTIVITY TOTAL:</b>	0	7			
<b>CVN 72, USS Abraham Lincoln, 21297, FY01 Increment</b>					
ACDU	0	1	AT1	7978	
	0	1	AT2	6647	
	0	1	AT3	6631	
	0	1	AT3	7978	
<b>CVN 72, USS Abraham Lincoln, 21297, FY02 Increment</b>					
ACDU	0	2	AT3	7984	
	0	1	AT3	7991	
<b>CVN 72, USS Abraham Lincoln, 21297, FY03 Increment</b>					
ACDU	0	1	AT1	6684	
<b>ACTIVITY TOTAL:</b>	0	8			
<b>CVN 74, USS John C. Stennis, 21847, FY01 Increment</b>					

II.A.2.b. BILLETTS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACDU	0	1	AT1	7978	
	0	1	AT2	6631	
	0	1	AT2	6647	
	0	1	AT3	7978	
	0	1	AT3	7984	
	0	1	AT3	7988	
	0	1	AT3	7989	
	0	1	AT3	7991	
<b>CVN 74, USS John C. Stennis, 21847, FY03 Increment</b>					
ACDU	0	1	AT1	6684	
<b>ACTIVITY TOTAL:</b>	0	9			
OPERATIONAL ACTIVITIES - USMC					
<b>VMA Squadron (East Coast), 00000, FY02 Increment</b>					
USMC	0	2	CPL	6468	
	0	4	LCPL	6468	
	0	1	SGT	6468	
<b>VMA Squadron (East Coast), 00000, FY03 Increment</b>					
USMC	0	4		6467	
<b>ACTIVITY TOTAL:</b>	0	11			
<b>VMAT-203, 09821, FY02 Increment</b>					
USMC	0	3	LCPL	6468	
	0	4	SGT	6468	
<b>ACTIVITY TOTAL:</b>	0	7			
<b>VMFA (AW) Squadron (East Coast), 00000, FY02 Increment</b>					
USMC	0	1	LCPL	6466	
	0	1	SGT	6466	
<b>ACTIVITY TOTAL:</b>	0	2			
<b>VMA Squadron (West Coast), 00000, FY02 Increment</b>					
USMC	0	2	CPL	6468	
	0	4	LCPL	6468	
	0	1	SGT	6468	
<b>VMA Squadron (West Coast), 00000, FY03 Increment</b>					
USMC	0	4		6467	
<b>ACTIVITY TOTAL:</b>	0	11			

II.A.2.b. BILLETTS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>VMFA (AW) Squadron (West Coast), 00000, FY02 Increment</b>					
USMC	0	1	LCPL	6466	
	0	1	SGT	6466	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>FLEET SUPPORT ACTIVITIES - NAVY</b>					
<b>AIMD Brunswick, 44314, FY02 Increment</b>					
ACDU	0	1	AT1	6664	
	0	2	AT2	6664	
	0	1	AT3	6664	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>4</b>			
<b>AIMD Jacksonville, 44319, FY02 Increment</b>					
ACDU	0	2	AT1	6664	
	0	1	AT2	6664	
	0	2	AT2	6684	
	0	1	AT3	6664	
	0	1	AT3	6715	
	0	1	ATAN	6715	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>8</b>			
<b>AIMD Oceana, 44327, FY00 Increment</b>					
ACDU	0	1	AT1	6631	
	0	1	AT1	6653	
	0	1	AT1	7978	
	0	1	AT1	7984	
	0	3	AT2	6631	
	0	2	AT2	6653	
	0	14	AT2	7978	
	0	12	AT2	7984	
	0	2	AT3	6631	
	0	15	AT3	7978	
	0	12	AT3	7984	
	0	4	ATAN	7978	
SELRES	0	3	AT2	6631	
	0	1	AT3	6631	
<b>AIMD Oceana, 44327, FY01 Increment</b>					
ACDU	0	1	AT1	6631	
	0	3	AT2	6631	
	0	4	AT2	7988	
	0	1	AT2	7989	
	0	2	AT2	7991	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACDU	0	2	AT3	6631	
	0	8	AT3	7988	
	0	2	AT3	7989	
	0	2	AT3	7991	
SELRES	0	3	AT2	6631	
	0	1	AT3	6631	
<b>AIMD Oceana, 44327, FY02 Increment</b>					
ACDU	0	1	AT1	7988	
	0	1	AT1	7989	
	0	1	AT1	7991	
	0	1	AT2	7988	
	0	1	AT2	7989	
	0	2	AT2	7991	
	0	1	AT3	7988	
	0	4	AT3	7989	
	0	4	AT3	7991	
<b>ACTIVITY TOTAL:</b>	0	117			
<b>AIMD Washington, DC, 44492, FY02 Increment</b>					
ACDU	0	1	ATAN	6647	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>Naval Force Aircraft Test Squadron, Pax River, 39785, FY00 Increment</b>					
ACDU	0	3	AT1	6704	
	0	2	AT1	6705	
	0	1	AT2	6704	
<b>ACTIVITY TOTAL:</b>	0	6			
<b>NAVTESTWINGLANT Patuxent River, 39782, FY02 Increment</b>					
ACDU	0	3	AT2	7978	
	0	2	AT3	7978	
<b>ACTIVITY TOTAL:</b>	0	5			
<b>SEAOPDET Beaufort, 46961, FY00 Increment</b>					
ACDU	0	1	AT3	6631	
	0	2	ATAN	6631	
<b>SEAOPDET Beaufort, 46961, FY03 Increment</b>					
ACDU	0	1	AT2	7978	
	0	1	AT3	7978	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACTIVITY TOTAL:	0	5			
SEAOPDET Jacksonville, 46965, FY02 Increment ACDU	0	3	AT3	6715	
SEAOPDET Jacksonville, 46965, FY03 Increment ACDU	0	2	AT3	6715	
ACTIVITY TOTAL:	0	5			
SEAOPDET Oceana, 46963, FY00 Increment ACDU	0	2	AT2	6631	
	0	2	AT2	7984	
	0	4	AT3	6631	
SEAOPDET Oceana, 46963, FY01 Increment ACDU	0	3	AT2	6631	
	0	1	AT2	7978	
	0	2	AT2	7984	
	0	1	AT2	7989	
	0	1	AT2	7991	
	0	4	AT3	6631	
	0	1	AT3	7978	
	0	2	AT3	7984	
	0	2	AT3	7988	
	0	1	AT3	7991	
SEAOPDET Oceana, 46963, FY02 Increment ACDU	0	2	AT2	7978	
	0	4	AT2	7984	
	0	1	AT2	7989	
	0	2	AT2	7991	
	0	1	AT3	7978	
	0	3	AT3	7984	
	0	3	AT3	7988	
	0	4	AT3	7991	
	0	1	ATAN	7978	
SEAOPDET Oceana, 46963, FY03 Increment ACDU	0	1	AT2	7978	
	0	1	AT2	7984	
	0	4	AT2	7989	
	0	1	AT2	7991	
	0	1	AT3	7978	
	0	1	AT3	7984	
	0	2	AT3	7988	
	0	3	AT3	7991	

II.A.2.b. BILLETTS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>SEAOPDET Oceana, 46963, FY04 Increment</b>					
ACDU	0	1	AT2	7989	
	0	1	AT2	7991	
	0	1	AT3	7991	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>64</b>			
<b>AIMD Lemoore, 44321, FY00 Increment</b>					
ACDU	0	1	ATC	7978	
	0	1	AT1	6631	
	0	2	AT1	7978	
	0	2	AT2	6631	
	0	8	AT2	7978	
	0	2	AT3	6631	
	0	1	AT3	6659	
	0	9	AT3	7978	
<b>AIMD Lemoore, 44321, FY01 Increment</b>					
ACDU	0	1	AT1	6631	
	0	4	AT2	6631	
	0	3	AT3	6631	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>34</b>			
<b>AIMD North Island, 44326, FY00 Increment</b>					
ACDU	0	2	AT1	6653	
	0	6	AT2	6653	
	0	2	AT3	6659	
	0	1	ATAN	6659	
<b>AIMD North Island, 44326, FY02 Increment</b>					
ACDU	0	2	AT2	6684	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>13</b>			
<b>AIMD Whidbey Island, 44329, FY01 Increment</b>					
ACDU	0	1	ATC	6647	
	0	1	AT1	6647	
	0	2	AT2	6647	
	0	3	AT3	6647	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>7</b>			
<b>JRB Fort Worth, 44487, FY00 Increment</b>					
ACDU	0	1	AT1	6659	
TAR	0	1	AT1	6659	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>JRB Fort Worth, 44487, FY01 Increment</b>					
TAR	0	1	AT2	6631	
	0	1	AT3	6631	
<b>JRB Fort Worth, 44487, FY02 Increment</b>					
ACDU	0	1	AT1	7978	
	0	1	AT2	7978	
TAR	0	1	ATC	7978	
	0	1	AT2	6704	
	0	1	AT2	7978	
	0	1	AT3	6704	
	0	2	AT3	7978	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>12</b>			
<b>NAS Whidbey Island Van OpDet, 31179, FY01 Increment</b>					
ACDU	0	5	AT2	6647	
	0	5	AT3	6647	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>10</b>			
<b>SEAOPDET Lemoore, 46964, FY00 Increment</b>					
ACDU	0	5	AT2	6631	
	0	6	AT3	6631	
<b>SEAOPDET Lemoore, 46964, FY01 Increment</b>					
ACDU	0	2	AT2	6631	
	0	2	AT2	7978	
	0	2	AT3	6631	
	0	2	AT3	7978	
<b>SEAOPDET Lemoore, 46964, FY02 Increment</b>					
ACDU	0	1	AT2	7978	
	0	1	ATAN	7978	
<b>SEAOPDET Lemoore, 46964, FY04 Increment</b>					
ACDU	0	1	AT2	7978	
	0	1	ATAN	7978	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>23</b>			
<b>SEAOPDET North Island, 46968, FY02 Increment</b>					
ACDU	0	1	AT3	6715	
<b>SEAOPDET North Island, 46968, FY03 Increment</b>					
ACDU	0	2	AT3	6715	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>ACTIVITY TOTAL:</b>	0	3			
<b>SEAOPDET Whidbey Island, 46967, FY01 Increment</b>					
ACDU	0	2	AT3	6647	
	0	2	ATAN	6647	
<b>SEAOPDET Whidbey Island, 46967, FY02 Increment</b>					
ACDU	0	3	AT3	6647	
	0	2	ATAN	6647	
<b>SEAOPDET Whidbey Island, 46967, FY03 Increment</b>					
ACDU	0	4	AT3	6647	
	0	2	ATAN	6647	
<b>ACTIVITY TOTAL:</b>	0	15			
FLEET SUPPORT ACTIVITIES - USMC					
<b>VMFA CV Deployment, 00000, FY01 Increment</b>					
USMC	0	1	CPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
<b>ACTIVITY TOTAL:</b>	0	3			
<b>VMFA CV MALS Augment, 00000, FY01 Increment</b>					
USMC	0	2	LCPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
	0	1	SGT	6466	
<b>ACTIVITY TOTAL:</b>	0	5			
<b>VMFA CV Deployment, 00000, FY01 Increment</b>					
USMC	0	1	CPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
<b>ACTIVITY TOTAL:</b>	0	3			
<b>VMFA CV MALS Augment, 00000, FY01 Increment</b>					
USMC	0	2	LCPL	6463	
	0	1	LCPL	6466	
	0	1	SGT	6463	
	0	1	SGT	6466	
<b>ACTIVITY TOTAL:</b>	0	5			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY OPERATIONAL ACTIVITIES - ACDU													
AT1	6684		10	0	-6	-4	0	0	0	0	0	0	0
AT1	6705		1	0	-1	0	0	0	0	0	0	0	0
AT1	7978		11	-4	-5	-2	0	0	0	0	0	0	0
AT1	7991		1	0	0	-1	0	0	0	0	0	0	0
AT2	6631		2	-2	0	0	0	0	0	0	0	0	0
AT2	6647		6	-2	-2	-2	0	0	0	0	0	0	0
AT2	6684		1	0	-1	0	0	0	0	0	0	0	0
AT2	6705		3	0	-3	0	0	0	0	0	0	0	0
AT2	7978		1	0	-1	0	0	0	0	0	0	0	0
AT2	7984		1	0	-1	0	0	0	0	0	0	0	0
AT2	7989		1	0	-1	0	0	0	0	0	0	0	0
AT3	6631		6	-6	0	0	0	0	0	0	0	0	0
AT3	6647		1	0	-1	0	0	0	0	0	0	0	0
AT3	6704		5	0	-3	0	-1	0	0	0	0	0	0
AT3	6715		1	0	-1	0	0	0	0	0	0	0	0
AT3	7978		10	-4	-4	-2	0	0	0	0	0	0	0
AT3	7984		11	-3	-7	-1	0	0	0	0	0	0	0
AT3	7988		10	-3	-5	-2	0	0	0	0	0	0	0
AT3	7989		9	-2	-4	-2	-1	0	0	0	0	0	0
AT3	7991		11	-2	-7	-1	-1	0	0	0	0	0	0
ATAN	6647		2	0	-1	-1	0	0	0	0	0	0	0
ATAN	6704		5	0	-3	0	-1	0	0	0	0	0	0
ATAN	7978		4	-2	-2	0	0	0	0	0	0	0	0
AT	6704		0	0	-2	0	0	0	0	0	0	0	0
AT	6705		0	0	-2	0	0	0	0	0	0	0	0
NAVY OPERATIONAL ACTIVITIES - TAR													
ATAN	6704		1	-1	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - USMC													
CPL	6468		14	0	-14	0	0	0	0	0	0	0	0
LCPL	6466		12	0	-6	0	0	0	0	0	0	0	0
LCPL	6468		31	0	-31	0	0	0	0	0	0	0	0
SGT	6466		12	0	-6	0	0	0	0	0	0	0	0
SGT	6468		11	0	-11	0	0	0	0	0	0	0	0
	6467		0	0	0	-28	0	0	0	0	0	0	0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
ATC	6647		1	-1	0	0	0	0	0	0	0	0	0
ATC	7978		-1	0	0	0	0	0	0	0	0	0	0
AT1	6631		2	-2	0	0	0	0	0	0	0	0	0
AT1	6647		1	-1	0	0	0	0	0	0	0	0	0
AT1	6653		-3	0	0	0	0	0	0	0	0	0	0
AT1	6659		-1	0	0	0	0	0	0	0	0	0	0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
AT1	6664		3		0		-3		0		0		0
AT1	7978		1		0		-1		0		0		0
AT1	7984		-1		0		0		0		0		0
AT1	7988		1		0		-1		0		0		0
AT1	7989		1		0		-1		0		0		0
AT1	7991		1		0		-1		0		0		0
AT2	6631		12		-12		0		0		0		0
AT2	6647		27		-27		0		0		0		0
AT2	6653		-8		0		0		0		0		0
AT2	6664		3		0		-3		0		0		0
AT2	6684		4		0		-4		0		0		0
AT2	7978		13		-3		-7		-2		-1		0
AT2	7984		7		-2		-4		-1		0		0
AT2	7988		5		-4		-1		0		0		0
AT2	7989		9		-2		-2		-4		-1		0
AT2	7991		9		-3		-4		-1		-1		0
AT3	6631		11		-11		0		0		0		0
AT3	6647		37		-30		-3		-4		0		0
AT3	6659		-3		0		0		0		0		0
AT3	6664		2		0		-2		0		0		0
AT3	6715		9		0		-5		-4		0		0
AT3	7978		8		-3		-3		-2		0		0
AT3	7984		6		-2		-3		-1		0		0
AT3	7988		16		-10		-4		-2		0		0
AT3	7989		8		-2		-4		0		0		0
AT3	7991		15		-3		-8		-3		-1		0
ATAN	6631		-2		0		0		0		0		0
ATAN	6647		7		-2		-3		-2		0		0
ATAN	6659		-1		0		0		0		0		0
ATAN	6715		1		0		-1		0		0		0
ATAN	7978		3		0		-2		0		-1		0
NAVY FLEET SUPPORT ACTIVITIES - TAR													
ATC	7978		1		0		-1		0		0		0
AT1	6659		-1		0		0		0		0		0
AT2	6631		1		-1		0		0		0		0
AT2	6704		1		0		-1		0		0		0
AT2	7978		1		0		-1		0		0		0
AT3	6631		1		-1		0		0		0		0
AT3	6704		1		0		-1		0		0		0
AT3	7978		2		0		-2		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
AT2	6631		3		-3		0		0		0		0
AT3	6631		1		-1		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	6463		4		-4		0		0		0		0
LCPL	6463		8		-8		0		0		0		0
LCPL	6466		8		-8		0		0		0		0
SGT	6463		8		-8		0		0		0		0
SGT	6466		4		-4		0		0		0		0
<b>SUMMARY TOTALS:</b>													
NAVY OPERATIONAL ACTIVITIES - ACDU													
			117		-30		-63		-18		-4		0
NAVY OPERATIONAL ACTIVITIES - TAR													
			1		-1		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC													
			120		0		-68		-28		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			221		-120		-70		-26		-5		0
NAVY FLEET SUPPORT ACTIVITIES - TAR													
			8		-2		-6		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
			4		-4		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
			32		-32		0		0		0		0
<b>GRAND TOTALS:</b>													
NAVY - ACDU													
			338		-150		-133		-44		-9		0
NAVY - TAR													
			9		-3		-6		0		0		0
NAVY - SELRES													
			4		-4		0		0		0		0
USMC - USMC													
			152		-32		-68		-28		0		0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** MTU 3010 NAMTRAU Oceana, 66045

**INSTRUCTOR BILLETS**

ACDU														
AT1	6705	9502	0	18	0	18	0	18	0	18	0	18	0	18
AT2	6705	9502	0	4	0	4	0	4	0	4	0	4	0	4
USMC														
SGT	6467		0	3	0	3	0	3	0	3	0	3	0	3

**SUPPORT BILLETS**

USMC														
SGT	6467		0	1	0	1	0	1	0	1	0	1	0	1
<b>TOTAL:</b>			0	26	0	26	0	26	0	26	0	26	0	26

**TRAINING ACTIVITY, LOCATION, UIC:** MTU 3011 NAMTRAGRU DET Miramar, 42148

**INSTRUCTOR BILLETS**

ACDU														
AT1	6705	9502	0	11	0	11	0	11	0	11	0	11	0	11
AT2	6705	9502	0	6	0	6	0	6	0	6	0	6	0	6
USMC														
SGT	6467		0	2	0	2	0	2	0	2	0	2	0	2

**SUPPORT BILLETS**

USMC														
SGT	6467		0	1	0	1	0	1	0	1	0	1	0	1
<b>TOTAL:</b>			0	20	0	20	0	20	0	20	0	20	0	20

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

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana, 66045													
	NAVY		19.3		30.2		30.2		31.0		28.5		27.8
	USMC		5.1		14.6		10.9		13.2		12.0		14.8
MTU 3011 NAMTRAGRU DET Miramar, 42148													
	NAVY		11.4		17.2		22.9		24.3		20.1		20.1
	USMC		7.9		23.0		17.4		18.4		16.3		18.8
<b>SUMMARY TOTALS:</b>													
	NAVY		30.7		47.4		53.1		55.3		48.6		47.9
	USMC		13.0		37.6		28.3		31.6		28.3		33.6
<b>GRAND TOTALS:</b>													
			43.7		85.0		81.4		86.9		76.9		81.5

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/- CUM	FY02 +/- CUM	FY03 +/- CUM	FY04 +/- CUM	FY05 +/- CUM
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a. OFFICER - USN Not Applicable

b. ENLISTED - USN

Operational Billets ACDU and TAR

AT1	6684		10	0	10	-6	4	-4	0	0	0	0	0
AT1	6704		6	0	6	0	6	0	6	0	6	0	6
AT1	6705		16	7	23	1	24	0	24	0	24	0	24
AT1	7978		11	-4	7	-5	2	-2	0	0	0	0	0
AT1	7991		1	0	1	0	1	-1	0	0	0	0	0
AT2	6631		2	-2	0	0	0	0	0	0	0	0	0
AT2	6647		6	-2	4	-2	2	-2	0	0	0	0	0
AT2	6684		1	0	1	-1	0	0	0	0	0	0	0
AT2	6704		16	0	16	0	16	0	16	0	16	0	16
AT2	6705		18	7	25	-1	24	0	24	0	24	0	24
AT2	7978		1	0	1	-1	0	0	0	0	0	0	0
AT2	7984		1	0	1	-1	0	0	0	0	0	0	0
AT2	7989		1	0	1	-1	0	0	0	0	0	0	0
AT3	6631		6	-6	0	0	0	0	0	0	0	0	0
AT3	6647		1	0	1	-1	0	0	0	0	0	0	0
AT3	6704		33	0	33	-3	30	0	30	-1	29	0	29
AT3	6715		1	0	1	-1	0	0	0	0	0	0	0
AT3	7978		10	-4	6	-4	2	-2	0	0	0	0	0
AT3	7984		11	-3	8	-7	1	-1	0	0	0	0	0
AT3	7988		10	-3	7	-5	2	-2	0	0	0	0	0
AT3	7989		9	-2	7	-4	3	-2	1	-1	0	0	0
AT3	7991		11	-2	9	-7	2	-1	1	-1	0	0	0
ATAN	6647		2	0	2	-1	1	-1	0	0	0	0	0
ATAN	6704		35	0	35	-3	32	0	32	-1	31	0	31
ATAN	7978		4	-2	2	-2	0	0	0	0	0	0	0
AT	6704		0	29	29	13	42	25	67	2	69	0	69
AT	6705		2	34	36	6	42	20	62	2	64	0	64

Fleet Support Billets ACDU and TAR

ATC	6647		1	-1	0	0	0	0	0	0	0	0	0
ATC	7978		1	0	1	-1	0	0	0	0	0	0	0
AT1	6631		2	-2	0	0	0	0	0	0	0	0	0
AT1	6647		1	-1	0	0	0	0	0	0	0	0	0
AT1	6664		3	0	3	-3	0	0	0	0	0	0	0
AT1	6704		9	0	9	0	9	0	9	0	9	0	9
AT1	6705		13	0	13	0	13	0	13	0	13	0	13
AT1	7978		1	0	1	-1	0	0	0	0	0	0	0
AT1	7988		1	0	1	-1	0	0	0	0	0	0	0
AT1	7989		1	0	1	-1	0	0	0	0	0	0	0

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
AT1	7991		1	0	1	-1	0	0	0	0	0	0	0
AT2	6631		13	-13	0	0	0	0	0	0	0	0	0
AT2	6647		27	-27	0	0	0	0	0	0	0	0	0
AT2	6653	6705	2	0	2	0	2	0	2	0	2	0	2
AT2	6664		3	0	3	-3	0	0	0	0	0	0	0
AT2	6684		4	0	4	-4	0	0	0	0	0	0	0
AT2	6704		92	1	93	-1	92	0	92	0	92	0	92
AT2	6705		39	3	42	0	42	0	42	0	42	0	42
AT2	7978		14	-3	11	-8	3	-2	1	-1	0	0	0
AT2	7984		7	-2	5	-4	1	-1	0	0	0	0	0
AT2	7988		5	-4	1	-1	0	0	0	0	0	0	0
AT2	7989		9	-2	7	-2	5	-4	1	-1	0	0	0
AT2	7991		9	-3	6	-4	2	-1	1	-1	0	0	0
AT3	6631		12	-12	0	0	0	0	0	0	0	0	0
AT3	6647		37	-30	7	-3	4	-4	0	0	0	0	0
AT3	6664		2	0	2	-2	0	0	0	0	0	0	0
AT3	6704		149	1	150	-1	149	0	149	0	149	0	149
AT3	6715		9	0	9	-5	4	-4	0	0	0	0	0
AT3	7978		10	-3	7	-5	2	-2	0	0	0	0	0
AT3	7984		6	-2	4	-3	1	-1	0	0	0	0	0
AT3	7988		16	-10	6	-4	2	-2	0	0	0	0	0
AT3	7989		8	-2	6	-4	2	0	2	0	2	0	2
AT3	7991		15	-3	12	-8	4	-3	1	-1	0	0	0
ATAN	6647		7	-2	5	-3	2	-2	0	0	0	0	0
ATAN	6704		80	2	82	0	82	0	82	0	82	0	82
ATAN	6715		1	0	1	-1	0	0	0	0	0	0	0
ATAN	7978		3	0	3	-2	1	0	1	-1	0	0	0
AT	6704		0	13	13	17	30	20	50	0	50	0	50
AT	6705		0	14	14	9	23	3	26	0	26	0	26
AT	6723		0	39	39	28	67	4	71	0	71	0	71
AT	6724		4	36	40	10	50	12	62	4	66	0	66
Staff Billets ACDU and TAR													
AT1	6705	9502	29	0	29	0	29	0	29	0	29	0	29
AT2	6705	9502	10	0	10	0	10	0	10	0	10	0	10
Chargeable Student Billets ACDU and TAR													
			31	17	48	5	53	2	55	-6	49	-1	48
SELRES Billets													
AT2	6631		3	-3	0	0	0	0	0	0	0	0	0
AT2	6704		1	0	1	0	1	0	1	0	1	0	1
AT3	6631		1	-1	0	0	0	0	0	0	0	0	0
AT3	6704		3	0	3	0	3	0	3	0	3	0	3

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

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
<b>TOTAL USN ENLISTED BILLETS:</b>													
Operational			225	47	272	-36	236	27	263	0	263	0	263
Fleet Support			617	-13	604	-12	592	13	605	-1	604	0	604
Staff			39	0	39	0	39	0	39	0	39	0	39
Chargeable Student			31	17	48	5	53	2	55	-6	49	-1	48
SELRES			8	-4	4	0	4	0	4	0	4	0	4

**c. OFFICER - USMC**      Not Applicable

**d. ENLISTED - USMC**

Operational Billets USMC and AR

CPL	6463	8	4	12	0	12	0	12	0	12	0	12
CPL	6466	16	0	16	0	16	0	16	0	16	0	16
CPL	6467	21	0	21	0	21	0	21	0	21	0	21
CPL	6468	14	0	14	-14	0	0	0	0	0	0	0
LCPL	6463	11	8	19	0	19	0	19	0	19	0	19
LCPL	6466	31	4	35	-6	29	0	29	0	29	0	29
LCPL	6467	52	0	52	0	52	0	52	0	52	0	52
LCPL	6468	31	0	31	-31	0	0	0	0	0	0	0
SGT	6463	8	4	12	0	12	0	12	0	12	0	12
SGT	6466	20	2	22	-6	16	0	16	0	16	0	16
SGT	6467	8	0	8	0	8	0	8	0	8	0	8
SGT	6468	11	0	11	-11	0	0	0	0	0	0	0
	6463	0	0	0	0	0	21	21	0	21	0	21
	6467	0	28	28	0	28	-28	0	0	0	0	0

Fleet Support Billets USMC and AR

CPL	6463	4	-4	0	0	0	0	0	0	0	0	0
CPL	6467	4	0	4	0	4	0	4	0	4	0	4
LCPL	6463	8	-8	0	0	0	0	0	0	0	0	0
LCPL	6466	8	-8	0	0	0	0	0	0	0	0	0

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

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
LCPL	6467		15	0	15	0	15	0	15	0	15	0	15
SGT	6463		8	-8	0	0	0	0	0	0	0	0	0
SGT	6466		4	-4	0	0	0	0	0	0	0	0	0
SGT	6467		1	0	1	0	1	0	1	0	1	0	1
	6463		0	16	16	12	28	12	40	0	40	0	40
	6466		0	16	16	0	16	0	16	0	16	0	16
	6467		0	72	72	4	76	0	76	0	76	40	116
Staff Billets USMC and AR													
SGT	6467		7	0	7	0	7	0	7	0	7	0	7
Chargeable Student Billets USMC and AR													
			13	25	38	-10	28	4	32	-4	28	6	34
<b>TOTAL USMC ENLISTED BILLETS:</b>													
Operational			231	50	281	-68	213	-7	206	0	206	0	206
Fleet Support			52	72	124	16	140	12	152	0	152	40	192
Staff			7	0	7	0	7	0	7	0	7	0	7
Chargeable Student			13	25	38	-10	28	4	32	-4	28	6	34

**Note:** The Billet Base depicts the current manpower requirements. The proposed changes to the Marine Corps manpower concept addressed in Part I have been included in FY01 through FY05.

**II.B. PERSONNEL REQUIREMENTS**

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

**CIN, COURSE TITLE:** D-198-6101, CASS Advanced Maintenance / Calibration / Technician  
**COURSE LENGTH:** 4.4 Weeks **NAVY TOUR LENGTH:** 36 Months  
**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.09

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana												
	NAVY	ACDU		39		28		31		28		27
		TAR		0		1		0		0		0
		TOTAL:		39		29		31		28		27

**CIN, COURSE TITLE:** E-198-6101, CASS Advanced Maintenance / Calibration / Technician  
**COURSE LENGTH:** 4.4 Weeks **NAVY TOUR LENGTH:** 36 Months  
**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.09

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET Miramar												
	NAVY	ACDU		30		23		28		23		23
		TAR		0		0		0		0		0
		TOTAL:		30		23		28		23		23

**CIN, COURSE TITLE:** D-198-6102, CASS Common Configurations Operator / Maintainer Intermediate Maintenance  
**COURSE LENGTH:** 10.4 Weeks **NAVY TOUR LENGTH:** 36 Months  
**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.21

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana												
	NAVY	ACDU		120		117		122		111		111
		TAR		1		1		1		1		1
		SELRES		1		0		1		0		1
		TOTAL:		122		118		124		112		113

**CIN, COURSE TITLE:** E-198-6102, CASS Common Configurations Operator / Maintainer Intermediate Maintenance  
**COURSE LENGTH:** 10.4 Weeks **NAVY TOUR LENGTH:** 36 Months  
**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.21

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET Miramar												
	NAVY	ACDU		62		67		81		66		66
		TAR		2		1		1		1		1
		TOTAL:		64		68		82		67		67

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

**CIN, COURSE TITLE:** D-198-6103, USMC CASS Common Configurations Test Station Operator / Maintainer / Technician

**COURSE LENGTH:** 13.4 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.27

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana												
	USMC	USMC		40		20		19		22		33
		TOTAL:		40		20		19		22		33

**CIN, COURSE TITLE:** E-198-6103, USMC CASS Common Configurations Test Station Operator / Maintainer / Technician

**COURSE LENGTH:** 13.4 Weeks

**ATTRITION FACTOR:** USMC: 0%

**NAVY TOUR LENGTH:** 36 Months

**BACKOUT FACTOR:** 0.27

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET Miramar												
	USMC	USMC		66		33		29		32		42
		TOTAL:		66		33		29		32		42

**CIN, COURSE TITLE:** D-198-6104, CASS High Power Configuration Operator / Maintainer

**COURSE LENGTH:** 12.4 Weeks

**ATTRITION FACTOR:** Navy: 10%

**NAVY TOUR LENGTH:** 36 Months

**BACKOUT FACTOR:** 0.25

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana												
	NAVY	ACDU		0		14		10		9		9
		TAR		0		2		1		1		1
		TOTAL:		0		16		11		10		10

**CIN, COURSE TITLE:** E-198-6104, CASS High Power Configuration Operator / Maintainer

**COURSE LENGTH:** 12.4 Weeks

**ATTRITION FACTOR:** Navy: 10%

**NAVY TOUR LENGTH:** 36 Months

**BACKOUT FACTOR:** 0.25

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET Miramar												
	NAVY	ACDU		0		22		15		14		14
		TAR		0		2		1		1		1
		TOTAL:		0		24		16		15		15

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

**CIN, COURSE TITLE:** D-198-6105, CASS EO+ Configuration Operation / Maintainer  
**COURSE LENGTH:** 11.4 Weeks **NAVY TOUR LENGTH:** 36 Months  
**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.23

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana												
	NAVY	ACDU		22		11		15		15		12
		TOTAL:		22		11		15		15		12

**CIN, COURSE TITLE:** E-198-6105, CASS EO+ Configuration Operation / Maintainer  
**COURSE LENGTH:** 11.4 Weeks **NAVY TOUR LENGTH:** 36 Months  
**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.23

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET Miramar												
	NAVY	ACDU		12		14		14		11		11
		TAR		2		1		1		1		1
		TOTAL:		14		15		15		12		12

**CIN, COURSE TITLE:** D-198-610X, USMC CASS High Powered Device Test / Radar Test Station Operation / Maintainer / Technician  
**COURSE LENGTH:** 15.4 Weeks **BACKOUT FACTOR:** 0.31  
**ATTRITION FACTOR:** USMC: 0%

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana												
	USMC	USMC		0		8		18		11		11
		AR		0		1		1		1		1
		TOTAL:		0		9		19		12		12

**CIN, COURSE TITLE:** E-198-610X, USMC CASS High Powered Device Test / Radar Test Station Operation / Maintainer / Technician  
**COURSE LENGTH:** 15.4 Weeks **BACKOUT FACTOR:** 0.31  
**ATTRITION FACTOR:** USMC: 0%

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET Miramar												
	USMC	USMC		0		16		24		14		14
		AR		0		1		1		1		1
		TOTAL:		0		17		25		15		15

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

**CIN, COURSE TITLE:** D-198-610Y, USMC CASS EO+ / FLIR Test Station Operator / Maintainer / Technician

**COURSE LENGTH:** 16.4 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.33

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3010 NAMTRAU Oceana												
	USMC	USMC		13		9		8		8		8
		AR		1		1		1		1		1
		TOTAL:		14		10		9		9		9

**CIN, COURSE TITLE:** E-198-610Y, USMC CASS EO+ / FLIR Test Station Operator / Maintainer / Technician

**COURSE LENGTH:** 16.4 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.33

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3011 NAMTRAGRU DET Miramar												
	USMC	USMC		19		12		11		11		11
		AR		1		1		1		1		1
		TOTAL:		20		13		12		12		12

### **PART III - TRAINING REQUIREMENTS**

The following elements are not affected by the AN/USM-363A(V) CASS Program 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.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-198-6101, CASS Advanced Maintenance / Calibration / Technician  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC:** Oceana, 66045

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	39		29		31		28		27	ATIR
	35		26		28		25		24	Output
	3.0		2.3		2.4		2.2		2.1	AOB
	3.0		2.3		2.4		2.2		2.1	Chargeable

**CIN, COURSE TITLE:** E-198-6101, CASS Advanced Maintenance / Calibration / Technician  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC:** Miramar, 42148

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	30		23		28		23		23	ATIR
	27		21		25		21		21	Output
	2.3		1.8		2.2		1.8		1.8	AOB
	2.3		1.8		2.2		1.8		1.8	Chargeable

**CIN, COURSE TITLE:** D-198-6102, CASS Common Configurations Operator / Maintainer Intermediate Maintenance  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC:** Oceana, 66045

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	121		118		123		112		112	ATIR
	109		106		111		101		101	Output
	22.7		22.1		23.1		21.0		21.0	AOB
	22.7		22.1		23.1		21.0		21.0	Chargeable

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		0		1		0		1	ATIR
	1		0		1		0		1	Output
	0.2		0.0		0.2		0.0		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

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

**CIN, COURSE TITLE:** E-198-6102, CASS Common Configurations Operator / Maintainer Intermediate Maintenance  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC:** Miramar, 42148

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	64		68		82		67		67	ATIR
	58		61		74		60		60	Output
	12.0		12.8		15.4		12.6		12.6	AOB
	12.0		12.8		15.4		12.6		12.6	Chargeable

**CIN, COURSE TITLE:** D-198-6103, USMC CASS Common Configurations Test Station Operator / Maintainer / Technician  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC:** Oceana, 66045

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	40		20		19		22		33	ATIR
	40		20		19		22		33	Output
	10.2		5.1		4.8		5.6		8.4	AOB
	10.2		5.1		4.8		5.6		8.4	Chargeable

**CIN, COURSE TITLE:** E-198-6103, USMC CASS Common Configurations Test Station Operator / Maintainer / Technician  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC:** Miramar, 42148

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	66		33		29		32		42	ATIR
	66		33		29		32		42	Output
	16.8		8.4		7.4		8.2		10.7	AOB
	16.8		8.4		7.4		8.2		10.7	Chargeable

**III.A.2.b. PLANNED COURSES**

**CIN, COURSE TITLE:** D-198-6104, CASS High Power Configuration Operator / Maintainer  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC:** Oceana, 66045

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		16		11		10		10	ATIR
	0		14		10		9		9	Output
	0.0		3.5		2.4		2.2		2.2	AOB
	0.0		3.5		2.4		2.2		2.2	Chargeable

**CIN, COURSE TITLE:** E-198-6104, CASS High Power Configuration Operator / Maintainer  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC:** Miramar, 42148

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		24		16		15		15	ATIR
	0		22		14		13		13	Output
	0.0		5.3		3.6		3.3		3.3	AOB
	0.0		5.3		3.6		3.3		3.3	Chargeable

**CIN, COURSE TITLE:** D-198-6105, CASS EO+ Configuration Operation / Maintainer  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC:** Oceana, 66045

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	22		11		15		15		12	ATIR
	20		10		14		13		11	Output
	4.5		2.3		3.1		3.1		2.5	AOB
	4.5		2.3		3.1		3.1		2.5	Chargeable

**CIN, COURSE TITLE:** E-198-6105, CASS EO+ Configuration Operation/Maintainer  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC:** Miramar, 42148

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	14		15		15		12		12	ATIR
	13		14		14		11		11	Output
	2.9		3.0		3.1		2.4		2.4	AOB
	2.9		3.0		3.1		2.4		2.4	Chargeable

**III.A.2.b. PLANNED COURSES**

**CIN, COURSE TITLE:** D-198-610X, USMC CASS High Powered Device Test / Radar Test Station Operator / Maintainer / Technician

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		9		19		12		12	ATIR
	0		9		19		12		12	Output
	0.0		2.7		5.6		3.6		3.6	AOB
	0.0		2.7		5.6		3.6		3.6	Chargeable

**CIN, COURSE TITLE:** E-198-610X, USMC CASS High Powered Device Test / Radar Test Station Operator / Maintainer / Technician

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		17		25		15		15	ATIR
	0		17		25		15		15	Output
	0.0		5.0		7.3		4.4		4.4	AOB
	0.0		5.0		7.3		4.4		4.4	Chargeable

**CIN, COURSE TITLE:** D-198-610Y, USMC CASS EO+ / FLIR Test Station Operator / Maintainer / Technician

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	14		10		9		9		9	ATIR
	14		10		9		9		9	Output
	4.4		3.1		2.8		2.8		2.8	AOB
	4.4		3.1		2.8		2.8		2.8	Chargeable

**CIN, COURSE TITLE:** E-198-610Y, USMC CASS EO+ / FLIR Test Station Operator / Maintainer / Technician

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	20		13		12		12		12	ATIR
	20		13		12		12		12	Output
	6.2		4.0		3.7		3.7		3.7	AOB
	6.2		4.0		3.7		3.7		3.7	Chargeable

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

The following elements are not affected by the AN/USM-636A(V) CASS Program and, therefore, are not included in Part IV of this NTSP:

IV.B.1. Training Services

**IV.A. TRAINING HARDWARE**

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

**Note:** All CASS training uses the CASS Test Stations listed under C-198-3043. This course will be in Tracks D-198-610X and D-198-610Y when they are available in December 2001.

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance/Calibration Intermediate Maintenance  
(Tracks D-198-6101, D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
001	Hybrid Test Station	1	Jan 95	GFE	Onboard
001	Hybrid Test Station	1	Sep 92	GFE	Onboard
001	Hybrid Test Station	1	Nov 93	GFE	Onboard
001	Hybrid Test Station	3	Sep 96	GFE	Onboard
002	CNI Test Station	1	Oct 93	GFE	Onboard
002	CNI Test Station	1	Apr 94	GFE	Onboard
003	RF Station	1	Oct 98	GFE	Onboard
003	RF Station	1	Nov 96	GFE	Onboard
004	EO+ Station	1	Jan 00	GFE	Onboard
005	Pneumatic Function Generator, 1895AS565-01	1	Nov 93	GFE	Onboard
006	Printer, CI-2500	1	Nov 93	GFE	Onboard
007	1397 CCA Bus, 1896AS980-01	1	Nov 93	GFE	Onboard
008	DTU Channel Card, 2044AS737-01	1	Nov 93	GFE	Onboard
009	Inertial Navigation System Interface	1	Nov 93	GFE	Onboard
010	EO Cart	1	Dec 98	GFE	Onboard
011	Video Pattern Generator	1	Dec 98	GFE	Onboard
012	Advanced Communications Interface Bus	1	Nov 93	GFE	Onboard
132	Adapter, Connector, PE9011	2	Nov 93	GFE	Onboard
144	Adapter Connector, OJB	2	Nov 93	GFE	Onboard

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

155	Multimeter, Digital 3458A-CS	2	Nov 93	GFE	Onboard
172	Adapter, Test 1269	2	Nov 93	GFE	Onboard
173	Adapter, Connector 4290	2	Nov 93	GFE	Onboard
175	Adapter, Connector 1250-1743	2	Nov 93	GFE	Onboard
182	Fixture Test Set, 2053AS574-01	2	Nov 93	GFE	Onboard
184	Common ID, 2051AS610-01	2	Nov 93	GFE	Onboard
185	Gage, Profile 85054-60024	2	Nov 93	GFE	Onboard
187	Electrical Conn. Contact Gage A-034A	2	Nov 93	GFE	Onboard
194	Fixture, Aircraft Maintenance, 910104116	2	Nov 93	GFE	Onboard
197	Terminal Crimping Tool, Hand 910101103	2	Nov 93	GFE	Onboard
199	Crimping Tool Die, 910104107	2	Nov 93	GFE	Onboard
200	Terminal Crimping Tool, Hand, 910 101 115	2	Nov 93	GFE	Onboard
202	Inspection Gage Set, 910121155	1	Nov 93	GFE	Onboard
204	Profile Gage, 910121131	1	Nov 93	GFE	Onboard
205	Female Resizing Tool, 910121143	2	Nov 93	GFE	Onboard
289	Electrical Conn. Contact Gage Set, A027	2	Nov 93	GFE	Onboard
<b>SPTE</b>					
013	CAL OTPS Interface Device, 2042AS005-01	1	Nov 93	GFE	Onboard
014	CAL OTPS Interface Device, 2043AS302-01	1	Nov 93	GFE	Onboard
015	CAL OTPS Interface Device, 2043AS649-01	1	Nov 93	GFE	Onboard
016	CAL OTPS Interface Device, 2046AS337-01	1	Nov 93	GFE	Onboard
017	SOS OTPS 1 ID, 2043AS265-01	1	Nov 93	GFE	Onboard
018	SOS OTPS 1 Cable Set, 2043AS650-01	1	Nov 93	GFE	Onboard
019	ADPT Set OTPS 1, 2043AS651-01	1	Nov 93	GFE	Onboard
020	SOS OTPS 2 ID, 2043AS008-01	1	Nov 93	GFE	Onboard
021	SOS OTPS 2 Cable Set, 2043AS653-01	1	Nov 93	GFE	Onboard

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

022	ADPT Set OTPS 2, 2043AS654-01	1	Nov 93	GFE	Onboard
023	SOS OTPS 3 ID, 2043AS009-01	1	Nov 93	GFE	Onboard
024	SOS OTPS 3 Cable Set, 2043AS656-01	1	Nov 93	GFE	Onboard
025	ADPT Set OTPS 3, 2043AS657-01	1	Nov 93	GFE	Onboard
026	SOS OTPS 4 ID, 2043AS087-01	1	Nov 93	GFE	Onboard
027	SOS OTPS 4 Cable Set, 2043AS658-01	1	Nov 93	GFE	Onboard
028	ADPT Set OTPS 4, 2043AS659-01	1	Nov 93	GFE	Onboard
029	SOS OTPS 5 ID, 2047AS297-01	1	Nov 93	GFE	Onboard
030	SOS OTPS 5 Cable Set, 2047AS303-01	1	Nov 93	GFE	Onboard
031	ADPT Set OTPS 5, 2047AS304-01	1	Nov 93	GFE	Onboard
032	SOS OTPS 6 ID, 2047AS298-01	1	Nov 93	GFE	Onboard
033	SOS OTPS 6 Cable Set, 2047AS306-01	1	Nov 93	GFE	Onboard
034	ADPT Set OTPS 6, 2047AS307-01	1	Nov 93	GFE	Onboard
035	10x10 PGA Extraction Tool, 1000014	1	Nov 93	GFE	Onboard
036	15x15 PGA Extraction Tool 1000019	1	Nov 93	GFE	Onboard
037	16x16 PGA Extraction Tool, 1000048	1	Nov 93	GFE	Onboard
038	2.4mm(f) to Type N(m) Adapter, 1250-1744	1	Nov 93	GFE	Onboard
039	BNC(f) to Banana Plug, 1246	1	Nov 93	GFE	Onboard
040	APC-3.5mm(f) to Type N(m) Adapter, 1250-1744	1	Nov 93	GFE	Onboard
041	APC-3.5mm(m) to Type N(f) Adapter, 1250-1750	1	Nov 93	GFE	Onboard
042	10x10 PGA Insertion Tool, 1624	1	Nov 93	GFE	Onboard
043	15x15 PGA Insertion Tool, 167	1	Nov 93	GFE	Onboard
044	16x16 PGA Insertion Tool, 168	1	Nov 93	GFE	Onboard
045	SMAT Interface Device, 2042AS006-01	1	Nov 93	GFE	Onboard
046	SMAT Cable Set, 2043AS303-01	1	Nov 93	GFE	Onboard

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

047	SMAT Adapter Set, 2047AS258-01	1	Nov 93	GFE	Onboard
048	BNC to BNC Cable, 2249-C-48	1	Nov 93	GFE	Onboard
049	Drawer Removal Fixture, 47C479831	1	Nov 93	GFE	Onboard
050	CCA Extraction Tool, 6126-978	1	Nov 93	GFE	Onboard
051	7mm to APC-3.5mm(f), 8022A1	1	Nov 93	GFE	Onboard
052	26.5 Ghz DC Attenuator, 8493C/OPT.30	1	Nov 93	GFE	Onboard
053	DTU Card Puller, 854-605-00	1	Nov 93	GFE	Onboard
054	DTU Ground Strap, 854-895-54	1	Nov 93	GFE	Onboard
055	Coaxial Fixed Terminator, 909D	1	Nov 93	GFE	Onboard
056	Contact Pin Extraction Tool, 910110102	1	Nov 93	GFE	Onboard
057	Mini Coax/Mini Power Extraction Tool, 910121104	1	Nov 93	GFE	Onboard
058	Center Conductor Forming Tool, 910121119	1	Nov 93	GFE	Onboard
059	RF Cable, FBOHGOHG038.0	1	Nov 93	GFE	Onboard
060	Presto Hydraulic Lift, M866-2000-MODGE	1	Nov 93	GFE	Onboard
061	Planar Crown to N(m) Connector Adapter, OJT	1	Nov 93	GFE	Onboard
062	Planar Crown to 3.5(m) Connector Adapter, OJF	1	Nov 93	GFE	Onboard
063	24/28 Pin Dip Insertion Tool, P/N-113	1	Nov 93	GFE	Onboard
064	24/28 Pin Dip Extraction Tool, P/N-203	1	Nov 93	GFE	Onboard
065	BNC Termination Feed-Through, 4119-50	1	Nov 93	GFE	Onboard
066	SMA(m) to BNC(f) Adapter, 4260	1	Nov 93	GFE	Onboard
067	BNC Shorting Plug, 5085	1	Nov 93	GFE	Onboard
068	Portable Pressure Gauge, 6220-19	1	Nov 93	GFE	Onboard
069	Portable Pressure Gauge, 6220-50	1	Nov 93	GFE	Onboard
070	Fixed Attenuator, 8493C/OPT.30	1	Nov 93	GFE	Onboard
071	Planar Crown Connector, 2.4mm(m), OJK	1	Nov 93	GFE	Onboard

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

072	IEEE-448 Cable, 10833A	1	Nov 93	GFE	Onboard
073	2.4mm to APC-3.5 Connector Adapter, 119010	1	Nov 93	GFE	Onboard
074	2.4mm(m) to Type N(f) Adapter, 11903C	1	Nov 93	GFE	Onboard
075	Type N(f) to BNC(m) Adapter, 1250-0077	1	Nov 93	GFE	Onboard
076	Type N(m) to BNC(f) Adapter, 1250-0780	1	Nov 93	GFE	Onboard
077	SMA(m) to BNC(m) Adapter, 1250-1787	1	Nov 93	GFE	Onboard
078	Pressure Hose, 35.5, PFFJ-4SSW/ME	1	Nov 93	GFE	Onboard
079	Pressure Hose, 36.0, PFMEFP9100	1	Nov 93	GFE	Onboard
080	28.5 psi Relief Valve, SS4CPA2-3	1	Nov 93	GFE	Onboard
081	75 psi Relief Valve, SS4CPA2-50	1	Nov 93	GFE	Onboard
082	Multimeter, 77/AN	1	Nov 93	GFE	Onboard
083	Time Domain Reflector, 1502-04	1	Nov 93	GFE	Onboard
084	Thermistor Cable, 81020-1082	1	Nov 93	GFE	Onboard
085	Thermistor Mount, 478A-H-76	1	Nov 93	GFE	Onboard
129	Synchro Calibrator, 5300-S3412-CS	2	Nov 93	GFE	Onboard

#### SPETE

086	AC Measurement Standard, 4920M	1	Nov 93	GFE	Onboard
087	Power Splitter, 11667B	1	Nov 93	GFE	Onboard
088	Power Sensor, 8482A	1	Nov 93	GFE	Onboard
089	Adapter, 1296	1	Nov 93	GFE	Onboard
090	Sensor Module, 11722A	1	Nov 93	GFE	Onboard
091	Power Sensor, 8487A	1	Nov 93	GFE	Onboard
092	Probe, 4853-36-0	1	Nov 93	GFE	Onboard
093	DMM OPT 100, 3458A	1	Nov 93	GFE	Onboard
094	HP-436A Power Meter w/OPT 022, 436A-488	1	Nov 93	GFE	Onboard
095	Synthesized RF Signal Generator, 6060B-488	1	Nov 93	GFE	Onboard

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

096	DC Referenced Standard, 732B	1	Nov 93	GFE	Onboard
097	1 ohm Resistor Standard, 742A-1	1	Nov 93	GFE	Onboard
098	10 ohm Resistor Standard, 742A	1	Nov 93	GFE	Onboard
099	Shunt Instrument, Y5020-115	1	Nov 93	GFE	Onboard
100	Measuring Receiver, 8902A-E02	1	Nov 93	GFE	Onboard
101	Range Calibrator, 11683A	1	Nov 93	GFE	Onboard
102	Power Meter, 432A	1	Nov 93	GFE	Onboard
103	Synchro/Resolver Simulator, L200-U1S	1	Nov 93	GFE	Onboard
104	Pneumatic Function Transfer Standard, 6260-801-C	1	Nov 93	GFE	Onboard
105	Calibration Interface Device, 1902AS000	1	Nov 93	GFE	Onboard
106	Signal Generator, 8662A	1	Nov 93	GFE	Onboard

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance/Calibration Intermediate Maintenance  
(Tracks E-198-6101, E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
001	Hybrid Test Station	1	Feb 98	GFE	Onboard
001	Hybrid Test Station	1	Jan 95	GFE	Onboard
001	Hybrid Test Station	2	Oct 96	GFE	Onboard
001	Hybrid Test Station	1	Feb 94	GFE	Onboard
001	Hybrid Test Station	1	Jan 94	GFE	Onboard
002	CNI Test Station	1	Mar 94	GFE	Onboard
002	CNI Test Station	1	Mar 95	GFE	Onboard
003	RF Station	1	Oct 98	GFE	Onboard
003	RF Station	1	Nov 96	GFE	Onboard
004	EO+ Station	1	Jan 01	GFE	Pending

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

005	Pneumatic Function Generator, 1895AS565-01	1	Nov 94	GFE	Onboard
006	Printer, CI-2500	1	Nov 94	GFE	Onboard
007	1397 CCA Bus, 1896AS980-01	1	Nov 94	GFE	Onboard
008	DTU Channel Card, 2044AS737-01	1	Nov 94	GFE	Onboard
009	Inertial Navigation System Interface	1	Nov 94	GFE	Onboard
010	EO Cart	1	Dec 94	GFE	Onboard
011	Video Pattern Generator	1	Dec 94	GFE	Onboard
012	Advanced Communications Interface Bus	1	Nov 94	GFE	Onboard
132	Adapter, Connector, PE9011	2	Nov 94	GFE	Onboard
144	Adapter Connector, OJB	2	Nov 94	GFE	Onboard
155	Multimeter, Digital 3458A-CS	2	Nov 94	GFE	Onboard
172	Adapter, Test 1269	2	Nov 94	GFE	Onboard
173	Adapter, Connector 4290	2	Nov 94	GFE	Onboard
175	Adapter, Connector 1250-1743	2	Nov 94	GFE	Onboard
182	Fixture Test Set, 2053AS574-01	2	Nov 94	GFE	Onboard
184	Common ID, 2051AS610-01	2	Nov 94	GFE	Onboard
185	Gage, Profile 85054-60024	2	Nov 94	GFE	Onboard
187	Electrical Conn. Contact Gage A-034A	2	Nov 94	GFE	Onboard
194	Fixture, Aircraft Maintenance, 910104116	2	Nov 94	GFE	Onboard
197	Terminal Crimping Tool, Hand 910101103	2	Nov 94	GFE	Onboard
199	Crimping Tool Die, 910104107	2	Nov 94	GFE	Onboard
200	Terminal Crimping Tool, Hand, 910 101 115	2	Nov 94	GFE	Onboard
202	Inspection Gage Set, 910121155	1	Nov 94	GFE	Onboard
204	Profile Gage, 910121131	1	Nov 94	GFE	Onboard
205	Female Resizing Tool, 910121143	2	Nov 94	GFE	Onboard

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

289	Electrical Conn. Contact Gage Set, A027	2	Nov 94	GFE	Onboard
<b>SPTE</b>					
013	CAL OTPS Interface Device, 2042AS005-01	1	Nov 94	GFE	Onboard
014	CAL OTPS Interface Device, 2043AS302-01	1	Nov 94	GFE	Onboard
015	CAL OTPS Interface Device, 2043AS649-01	1	Nov 94	GFE	Onboard
016	CAL OTPS Interface Device, 2046AS337-01	1	Nov 94	GFE	Onboard
017	SOS OTPS 1 ID, 2043AS265-01	1	Nov 94	GFE	Onboard
018	SOS OTPS 1 Cable Set, 2043AS650-01	1	Nov 94	GFE	Onboard
019	ADPT Set OTPS 1, 2043AS651-01	1	Nov 94	GFE	Onboard
020	SOS OTPS 2 ID, 2043AS008-01	1	Nov 94	GFE	Onboard
021	SOS OTPS 2 Cable Set, 2043AS653-01	1	Nov 94	GFE	Onboard
022	ADPT Set OTPS 2, 2043AS654-01	1	Nov 94	GFE	Onboard
023	SOS OTPS 3 ID, 2043AS009-01	1	Nov 94	GFE	Onboard
024	SOS OTPS 3 Cable Set, 2043AS656-01	1	Nov 94	GFE	Onboard
025	ADPT Set OTPS 3, 2043AS657-01	1	Nov 94	GFE	Onboard
026	SOS OTPS 4 ID, 2043AS087-01	1	Nov 94	GFE	Onboard
027	SOS OTPS 4 Cable Set, 2043AS658-01	1	Nov 94	GFE	Onboard
028	ADPT Set OTPS 4, 2043AS659-01	1	Nov 94	GFE	Onboard
029	SOS OTPS 5 ID, 2047AS297-01	1	Nov 94	GFE	Onboard
030	SOS OTPS 5 Cable Set, 2047AS303-01	1	Nov 94	GFE	Onboard
031	ADPT Set OTPS 5, 2047AS304-01	1	Nov 94	GFE	Onboard
032	SOS OTPS 6 ID, 2047AS298-01	1	Nov 94	GFE	Onboard
033	SOS OTPS 6 Cable Set, 2047AS306-01	1	Nov 94	GFE	Onboard
034	ADPT Set OTPS 6, 2047AS307-01	1	Nov 94	GFE	Onboard
035	10x10 PGA Extraction Tool, 1000014	1	Nov 94	GFE	Onboard
036	15x15 PGA Extraction Tool 1000019	1	Nov 94	GFE	Onboard

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

037	16x16 PGA Extraction Tool, 1000048	1	Nov 94	GFE	Onboard
038	2.4mm(f) to Type N(m) Adapter, 1250-1744	1	Nov 94	GFE	Onboard
039	BNC(f) to Banana Plug, 1246	1	Nov 94	GFE	Onboard
040	APC-3.5mm(f) to Type N(m) Adapter, 1250-1744	1	Nov 94	GFE	Onboard
041	APC-3.5mm(m) to Type N(f) Adapter, 1250-1750	1	Nov 94	GFE	Onboard
042	10x10 PGA Insertion Tool, 1624	1	Nov 94	GFE	Onboard
043	15x15 PGA Insertion Tool, 167	1	Nov 94	GFE	Onboard
044	16x16 PGA Insertion Tool, 168	1	Nov 94	GFE	Onboard
045	SMAT Interface Device, 2042AS006-01	1	Nov 94	GFE	Onboard
046	SMAT Cable Set, 2043AS303-01	1	Nov 94	GFE	Onboard
047	SMAT Adapter Set, 2047AS258-01	1	Nov 94	GFE	Onboard
048	BNC to BNC Cable, 2249-C-48	1	Nov 94	GFE	Onboard
049	Drawer Removal Fixture, 47C479831	1	Nov 94	GFE	Onboard
050	CCA Extraction Tool, 6126-978	1	Nov 94	GFE	Onboard
051	7mm to APC-3.5mm(f), 8022A1	1	Nov 94	GFE	Onboard
052	26.5 Ghz DC Attenuator, 8493C/OPT.30	1	Nov 94	GFE	Onboard
053	DTU Card Puller, 854-605-00	1	Nov 94	GFE	Onboard
054	DTU Ground Strap, 854-895-54	1	Nov 94	GFE	Onboard
055	Coaxial Fixed Terminator, 909D	1	Nov 94	GFE	Onboard
056	Contact Pin Extraction Tool, 910110102	1	Nov 94	GFE	Onboard
057	Mini Coax/Mini Power Extraction Tool, 910121104	1	Nov 94	GFE	Onboard
058	Center Conductor Forming Tool, 910121119	1	Nov 94	GFE	Onboard
059	RF Cable, FBOHGOHG038.0	1	Nov 94	GFE	Onboard
060	Presto Hydraulic Lift, M866-2000-MODGE	1	Nov 94	GFE	Onboard
061	Planar Crown to N(m) Connector Adapter, OJT	1	Nov 94	GFE	Onboard

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

062	Planar Crown to 3.5(m) Connector Adapter, OJF	1	Nov 94	GFE	Onboard
063	24/28 Pin Dip Insertion Tool, P/N-113	1	Nov 94	GFE	Onboard
064	24/28 Pin Dip Extraction Tool, P/N-203	1	Nov 94	GFE	Onboard
065	BNC Termination Feed-Through, 4119-50	1	Nov 94	GFE	Onboard
066	SMA(m) to BNC(f) Adapter, 4260	1	Nov 94	GFE	Onboard
067	BNC Shorting Plug, 5085	1	Nov 94	GFE	Onboard
068	Portable Pressure Gauge, 6220-19	1	Nov 94	GFE	Onboard
069	Portable Pressure Gauge, 6220-50	1	Nov 94	GFE	Onboard
070	Fixed Attenuator, 8493C/OPT.30	1	Nov 94	GFE	Onboard
071	Planar Crown Connector, 2.4mm(m), OJK	1	Nov 94	GFE	Onboard
072	IEEE-448 Cable, 10833A	1	Nov 94	GFE	Onboard
073	2.4mm to APC-3.5 Connector Adapter, 119010	1	Nov 94	GFE	Onboard
074	2.4mm(m) to Type N(f) Adapter, 11903C	1	Nov 94	GFE	Onboard
075	Type N(f) to BNC(m) Adapter, 1250-0077	1	Nov 94	GFE	Onboard
076	Type N(m) to BNC(f) Adapter, 1250-0780	1	Nov 94	GFE	Onboard
077	SMA(m) to BNC(m) Adapter, 1250-1787	1	Nov 94	GFE	Onboard
078	Pressure Hose, 35.5, PFFJ-4SSW/ME	1	Nov 94	GFE	Onboard
079	Pressure Hose, 36.0, PFMEFP9100	1	Nov 94	GFE	Onboard
080	28.5 psi Relief Valve, SS4CPA2-3	1	Nov 94	GFE	Onboard
081	75 psi Relief Valve, SS4CPA2-50	1	Nov 94	GFE	Onboard
082	Multimeter, 77/AN	1	Nov 94	GFE	Onboard
083	Time Domain Reflector, 1502-04	1	Nov 94	GFE	Onboard
084	Thermistor Cable, 81020-1082	1	Nov 94	GFE	Onboard
085	Thermistor Mount, 478A-H-76	1	Nov 94	GFE	Onboard
129	Synchro Calibrator, 5300-S3412-CS	2	Nov 94	GFE	Onboard

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

##### SPETE

086	AC Measurement Standard, 4920M	1	Nov 94	GFE	Onboard
087	Power Splitter, 11667B	1	Nov 94	GFE	Onboard
088	Power Sensor, 8482A	1	Nov 94	GFE	Onboard
089	Adapter,1296	1	Nov 94	GFE	Onboard
090	Sensor Module, 11722A	1	Nov 94	GFE	Onboard
091	Power Sensor, 8487A	1	Nov 94	GFE	Onboard
092	Probe, 4853-36-0	1	Nov 94	GFE	Onboard
093	DMM OPT 100,3458A	1	Nov 94	GFE	Onboard
094	HP-436A Power Meter w/OPT 022, 436A-488	1	Nov 94	GFE	Onboard
095	Synthesized RF Signal Generator, 6060B-488	1	Nov 94	GFE	Onboard
096	DC Referenced Standard, 732B	1	Nov 94	GFE	Onboard
097	1 ohm Resistor Standard, 742A-1	1	Nov 94	GFE	Onboard
098	10 ohm Resistor Standard, 742A	1	Nov 94	GFE	Onboard
099	Shunt Instrument, Y5020-115	1	Nov 94	GFE	Onboard
100	Measuring Receiver, 8902A-E02	1	Nov 94	GFE	Onboard
101	Range Calibrator, 11683A	1	Nov 94	GFE	Onboard
102	Power Meter, 432A	1	Nov 94	GFE	Onboard
103	Synchro/Resolver Simulator, L200-U1S	1	Nov 94	GFE	Onboard
104	Pneumatic Function Transfer Standard, 6260-801-C	1	Nov 94	GFE	Onboard
105	Calibration Interface Device, 1902AS000	1	Nov 94	GFE	Onboard
106	Signal Generator, 8662A	1	Nov 94	GFE	Onboard

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

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course (Tracks D-198-6102, D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
115	Common Interface Device Assembly, 2051AS610-01	2	Nov 93	GFE	Onboard
117	Power Supply, 1896AS300-03	1	Nov 93	GFE	Onboard
125	CCA, M7516-PA	1	Nov 93	GFE	Onboard
126	Test Accessory Kit, 2053AS340-01	2	Nov 93	GFE	Onboard
128	Power Supply, 1896AS501-01	1	Nov 93	GFE	Onboard
130	Multimeter, 77/BN	3	Nov 93	GFE	Onboard
131	CCA, 1897AS165-01	1	Nov 93	GFE	Onboard
134	CCA, 2044AS737-01	1	Nov 93	GFE	Onboard
136	Plug In Unit, 70900B	1	Nov 93	GFE	Onboard
139	Scope Adapter, 1688	2	Nov 93	GFE	Onboard
140	Wrist Strap, 2214	10	Nov 93	GFE	Onboard
141	Plug In Unit, HP70100A	1	Nov 93	GFE	Onboard
142	CCA, 1896AS889-01	1	Nov 93	GFE	Onboard
143	CCA, 1896AS960-001	1	Nov 93	GFE	Onboard
144	Pneumatic Console, 2051AS163-05	1	Nov 93	GFE	Onboard
145	Buffer Storage Unit, 2044AS734-01	1	Nov 93	GFE	Onboard
150	CCA, 2048AS464-01	1	Nov 93	GFE	Onboard
152	Battery Assembly, 2049AS026-01	1	Nov 93	GFE	Onboard
156	Indicator Data, A51A9010-11	1	Nov 93	GFE	Onboard
160	CCA, A51A9011-5	1	Nov 93	GFE	Onboard
161	Control Generator, A51A9147-5	1	Nov 93	GFE	Onboard

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

164	Gyroscope Assembly, A51A9002-29	1	Nov 93	GFE	Onboard
181	Power Supply, LVSS (MAMS), 1896AS501-04	1	Nov 93	GFE	Onboard
183	Power Supply, LVSS (MAMS), 1896AS501-05	1	Nov 93	GFE	Onboard
186	Power Supply, LVSS (MAMS), 1896AS501-10	1	Nov 93	GFE	Onboard
188	CCA, Asset Cont (MAMS), 1896AS889-02	1	Nov 93	GFE	Onboard
190	CCA, Asset Cont (MAMS), 1896AS889-03	1	Nov 93	GFE	Onboard
191	CCA, Asset Cont (MAMS), 1896AS889-04	1	Nov 93	GFE	Onboard
192	Distributing System, Electrical, 2049AS482-01	1	Nov 93	GFE	Onboard
193	CCA, Power Cont #1 (MAMS), 2048AS464-01	1	Nov 93	GFE	Onboard
195	CCA, Power Cont #2 (MAMS), 2048AS821-01	1	Nov 93	GFE	Onboard
196	CCA, Power Cont #3 (MAMS), 2048AS824-01	1	Nov 93	GFE	Onboard
198	CCA, Power Cont #4 (MAMS), 2049AS498-01	1	Nov 93	GFE	Onboard
201	CCA, DTU CT 511 (MAMS), 859-511-00	1	Nov 93	GFE	Onboard
203	Receiver Sub Assembly, CCA (MAMS), M7625-AA	1	Nov 93	GFE	Onboard
206	CPU Receiver Sub Assembly, M7625-AA	1	Nov 93	GFE	Onboard
207	Power Supply DC, 0-32V, 1896AS300-01	1	Nov 93	GFE	Onboard
208	Power Supply DC, 1-100V, 1896AS300-02	1	Nov 93	GFE	Onboard
209	AC Switcher, Power Supply, 1896AS200-02	1	Nov 93	GFE	Onboard
210	Generator, AWFG, 1897AS080-01	1	Nov 93	GFE	Onboard
211	CCA, DC Couple Base, M719	1	Nov 93	GFE	Onboard
212	Interface Unit, Comm, 2T-22477-01	1	Nov 93	GFE	Onboard
213	CFSD Distributing System, 2049AS82-01	1	Nov 93	GFE	Onboard
214	CCA (MAMS), M7622	1	Nov 93	GFE	Onboard
215	DMM Multimeter, 70110A-H10	1	Nov 93	GFE	Onboard
216	Slot O Controller, 2056AS362-01	1	Nov 93	GFE	Onboard

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

217	PWR Switch CCA, 1897AS159-01	1	Nov 93	GFE	Onboard
218	External Hard Drive, 2056AS137-01	1	Nov 93	GFE	Onboard
219	Coax Switch CCA, 1897AS162-01	1	Nov 93	GFE	Onboard
220	Housekeeper CCA, 859-815-00	1	Nov 93	GFE	Onboard
221	MS 1553 CCA	1	Nov 93	GFE	Onboard
222	WDDA CCA, 2048AS996-01	1	Nov 93	GFE	Onboard
223	LVSS, 1896AS501-01	1	Nov 93	GFE	Onboard
224	ASSCON, 1896AS889-01	1	Nov 93	GFE	Onboard
225	Power Supply, 1896AS300-03	1	Nov 93	GFE	Onboard
226	GPI Coax Switch, 1897AS165-01	1	Nov 93	GFE	Onboard
227	SGMA, 2036AS002-01	1	Nov 93	GFE	Onboard
228	Channel CCA, M-890-03	1	Nov 93	GFE	Onboard
229	LWPL, 1897AS247-01	1	Nov 93	GFE	Onboard
230	Battery Assembly, 2049AS026-01	1	Nov 93	GFE	Onboard
231	DTU Back Plane, 854-895-75	1	Nov 93	GFE	Onboard
<b>ST</b>					
158	Cable Assembly, Special Purpose, 854-895-54	4	Nov 93	GFE	Onboard

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator/Maintainer Intermediate Maintenance Course  
(Tracks D-198-6102, D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
109	Allimeter, Pressure NV1650AM3	1	Jun 00	GFE	Onboard
116	CCA, 2048AS300-03	1	Jun 00	GFE	Onboard
124	CCA, 131675-4	1	Jun 00	GFE	Onboard
127	CCA, 859-815-00	1	Jun 00	GFE	Onboard

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

137	CFSD	1	Jun 00	GFE	Onboard
138	CCA, M7169	1	Jun 00	GFE	Onboard
171	Multi-Purpose Color Display	1	Jun 00	GFE	Onboard
232	VAST Lot 2 TPS, G81S0001 (20 WRAs)	2 sets	Mar 00	GFE	Onboard
233	VAST Lot 2 TPS, G81S0002 (20 WRAs)	1 set	Mar 00	GFE	Onboard
234	VAST Lot 6 TPS, 137919000 (13 WRAs)	1 set	Mar 00	GFE	Onboard
235	EETS Lots 1 and 3, #TBD	1 set	Mar 00	GFE	Delayed
236	ATS Lot 1 OTPS 2, G81S00004-1 (Alternate for EETS Lot1/3)	1	Mar 00	GFE	Delayed
237	Rate Gyroscope, 123D7323G7	1	Mar 00	GFE	Delayed
238	VAST Lot 4 TPS, # TBD (21 WRAs)	1 set	Mar 00	GFE	Onboard
239	S-3B General Control Unit, 946F288-4	1	Mar 00	GFE	Onboard
240	S-3B RT-1016, 787-6568-004	1	Mar 00	GFE	Onboard
241	S-3B RT-1017, 792-6390-008	1	Mar 00	GFE	Onboard
242	S-3B Speed Brake, 2100674-8-1	1	Mar 00	GFE	Onboard
246	APG-73 TPS, 512110/5121210	1	Mar 00	GFE	Onboard
247	APG-73 RDP, 3525046-110	1	Mar 00	GFE	Onboard
248	APG-73 Receiver, 3525026-110	1	Mar 00	GFE	Onboard
249	RFTS Lot 1 TPS, AWG-9, # TBD	1	Mar 00	GFE	Delayed
251	RFTS Lot 1 TPS, APG-65, 200200-2001	1	Mar 00	GFE	Onboard
252	APG-65 Radar Antenna, 3525031-140/145/150	1	Mar 00	GFE	Onboard
253	APG-65 Radar Servo, 3472409-50	1	Mar 00	GFE	Onboard
254	RSTS Lot 1 TPS, APG-65 Radar, # TBD	1	Mar 00	GFE	Delayed
255	APG-65 Radar, Receiver-Exciter, 3525022-150	1	Mar 00	GFE	Delayed
256	APG-65 Radar, Radar Target Data Processor, 3525041-150 or 3525048-100	1	Mar 00	GFE	Delayed
<b>ST</b>					
121	Puller Mechanical, 854-605-1	3	Jun 00	GFE	Onboard

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

122	Ground Strap, 854-895-54	4	Jun 00	GFE	Onboard
174	Bus Interface, 2051AS163-03	2	Jun 00	GFE	Onboard
176	Soldering Station	1	Jun 00	GFE	Onboard
177	Soldering Iron, 1121-0360	1	Jun 00	GFE	Onboard
178	Soldering Iron, 1121-0358	1	Jun 00	GFE	Onboard
179	Test Set, Huntron, 2000A	1	Jun 00	GFE	Onboard
180	Surgical Knife, GGH0080	1	Jun 00	GFE	Onboard

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course (Tracks E-198-6102, E-198-6103, E-198-6104, E-198-6105 and will be in E-198-610X and E-198-610Y in Dec 2001)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
115	Common Interface Device Assembly, 2051AS610-01	2	Nov 94	GFE	Onboard
117	Power Supply, 1896AS300-03	1	Nov 94	GFE	Onboard
125	CCA, M7516-PA	1	Nov 94	GFE	Onboard
126	Test Accessory Kit, 2053AS340-01	2	Nov 94	GFE	Onboard
128	Power Supply, 1896AS501-01	1	Nov 94	GFE	Onboard
130	Multimeter, 77/BN	3	Nov 94	GFE	Onboard
131	CCA, 1897AS165-01	1	Nov 94	GFE	Onboard
134	CCA, 2044AS737-01	1	Nov 94	GFE	Onboard
136	Plug In Unit, 70900B	1	Nov 94	GFE	Onboard
139	Scope Adapter, 1688	2	Nov 94	GFE	Onboard
140	Wrist Strap, 2214	10	Nov 94	GFE	Onboard
141	Plug In Unit, HP70100A	1	Nov 94	GFE	Onboard
142	CCA, 1896AS889-01	1	Nov 94	GFE	Onboard
143	CCA, 1896AS960-001	1	Nov 94	GFE	Onboard

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

144	Pneumatic Console, 2051AS163-05	1	Nov 94	GFE	Onboard
145	Buffer Storage Unit, 2044AS734-01	1	Nov 94	GFE	Onboard
150	CCA, 2048AS464-01	1	Nov 94	GFE	Onboard
152	Battery Assembly, 2049AS026-01	1	Nov 94	GFE	Onboard
156	Indicator Data, A51A9010-11	1	Nov 94	GFE	Onboard
160	CCA, A51A9011-5	1	Nov 94	GFE	Onboard
161	Control Generator, A51A9147-5	1	Nov 94	GFE	Onboard
164	Gyroscope Assembly, A51A9002-29	1	Nov 94	GFE	Onboard
181	Power Supply, LVSS (MAMS), 1896AS501-04	1	Nov 94	GFE	Onboard
183	Power Supply, LVSS (MAMS), 1896AS501-05	1	Nov 94	GFE	Onboard
186	Power Supply, LVSS (MAMS), 1896AS501-10	1	Nov 94	GFE	Onboard
188	CCA, Asset Cont (MAMS), 1896AS889-02	1	Nov 94	GFE	Onboard
190	CCA, Asset Cont (MAMS), 1896AS889-03	1	Nov 94	GFE	Onboard
191	CCA, Asset Cont (MAMS), 1896AS889-04	1	Nov 94	GFE	Onboard
192	Distributing System, Electrical, 2049AS482-01	1	Nov 94	GFE	Onboard
193	CCA, Power Cont #1 (MAMS), 2048AS464-01	1	Nov 94	GFE	Onboard
195	CCA, Power Cont #2 (MAMS), 2048AS821-01	1	Nov 94	GFE	Onboard
196	CCA, Power Cont #3 (MAMS), 2048AS824-01	1	Nov 94	GFE	Onboard
198	CCA, Power Cont #4 (MAMS), 2049AS498-01	1	Nov 94	GFE	Onboard
201	CCA, DTU CT 511 (MAMS), 859-511-00	1	Nov 94	GFE	Onboard
203	Receiver Sub Assembly, CCA (MAMS), M7625-AA	1	Nov 94	GFE	Onboard
206	CPU Receiver Sub Assembly, M7625-AA	1	Nov 94	GFE	Onboard
207	Power Supply DC, 0-32V, 1896AS300-01	1	Nov 94	GFE	Onboard
208	Power Supply DC, 1-100V, 1896AS300-02	1	Nov 94	GFE	Onboard
209	AC Switcher, Power Supply, 1896AS200-02	1	Nov 94	GFE	Onboard

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

210	Generator, AWFG, 1897AS080-01	1	Nov 94	GFE	Onboard
211	CCA, DC Couple Base, M719	1	Nov 94	GFE	Onboard
212	Interface Unit, Comm, 2T-22477-01	1	Nov 94	GFE	Onboard
213	CFSD Distributing System, 2049AS82-01	1	Nov 94	GFE	Onboard
214	CCA (MAMS), M7622	1	Nov 94	GFE	Onboard
215	DMM Multimeter, 70110A-H10	1	Nov 94	GFE	Onboard
216	Slot O Controller, 2056AS362-01	1	Nov 94	GFE	Onboard
217	PWR Switch CCA, 1897AS159-01	1	Nov 94	GFE	Onboard
218	External Hard Drive, 2056AS137-01	1	Nov 94	GFE	Onboard
219	Coax Switch CCA, 1897AS162-01	1	Nov 94	GFE	Onboard
220	Housekeeper CCA, 859-815-00	1	Nov 94	GFE	Onboard
221	MS 1553 CCA	1	Nov 94	GFE	Onboard
222	WDDA CCA, 2048AS996-01	1	Nov 94	GFE	Onboard
223	LVSS, 1896AS501-01	1	Nov 94	GFE	Onboard
224	ASSCON, 1896AS889-01	1	Nov 94	GFE	Onboard
225	Power Supply, 1896AS300-03	1	Nov 94	GFE	Onboard
226	GPI Coax Switch, 1897AS165-01	1	Nov 94	GFE	Onboard
227	SGMA, 2036AS002-01	1	Nov 94	GFE	Onboard
228	Channel CCA, M-890-03	1	Nov 94	GFE	Onboard
229	LWPL, 1897AS247-01	1	Nov 94	GFE	Onboard
230	Battery Assembly, 2049AS026-01	1	Nov 94	GFE	Onboard
231	DTU Back Plane, 854-895-75	1	Nov 94	GFE	Onboard
<b>ST</b>					
158	Cable Assembly, Special Purpose, 854-895-54	4	Nov 94	GFE	Onboard

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

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator/Maintainer Intermediate Maintenance Course  
(Tracks E-198-6102, E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
109	Altimeter, Pressure NV1650AM3	1	Jun 00	GFE	Onboard
116	CCA, 2048AS300-03	1	Jun 00	GFE	Onboard
124	CCA, 131675-4	1	Jun 00	GFE	Onboard
127	CCA, 859-815-00	1	Jun 00	GFE	Onboard
137	CFSD	1	Jun 00	GFE	Onboard
138	CCA, M7169	1	Jun 00	GFE	Onboard
171	Multi-Purpose Color Display	1	Jun 00	GFE	Onboard
232	VAST Lot 2 TPS, G81S0001 (20 WRAs)	2 sets	Mar 00	GFE	Onboard
233	VAST Lot 2 TPS, G81S0002 (20 WRAs)	1 set	Mar 00	GFE	Onboard
234	VAST Lot 6 TPS, 137919000 (13 WRAs)	1 set	Mar 00	GFE	Onboard
235	EETS Lots 1 and 3, #TBD	1 set	Mar 00	GFE	Delayed
236	ATS Lot 1 OTPS 2, G81S00004-1 (Alternate for EETS Lot1/3)	1	Mar 00	GFE	Delayed
237	Rate Gyroscope, 123D7323G7	1	Mar 00	GFE	Delayed
238	VAST Lot 4 TPS, # TBD (21 WRAs)	1 set	Mar 00	GFE	Onboard
239	S-3B General Control Unit, 946F288-4	1	Mar 00	GFE	Onboard
240	S-3B RT-1016, 787-6568-004	1	Mar 00	GFE	Onboard
241	S-3B RT-1017, 792-6390-008	1	Mar 00	GFE	Onboard
242	S-3B Speed Brake, 2100674-8-1	1	Mar 00	GFE	Onboard
246	APG-73 TPS, 512110/5121210	1	Mar 00	GFE	Onboard
247	APG-73 RDP, 3525046-110	1	Mar 00	GFE	Onboard
248	APG-73 Receiver, 3525026-110	1	Mar 00	GFE	Onboard

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

249	RFTS Lot 1 TPS, AWG-9, # TBD	1	Mar 00	GFE	Delayed
251	RFTS Lot 1 TPS, APG-65, 200200-2001	1	Mar 00	GFE	Onboard
252	APG-65 Radar Antenna, 3525031-140/145/150	1	Mar 00	GFE	Onboard
253	APG-65 Radar Servo, 3472409-50	1	Mar 00	GFE	Onboard
254	RSTS Lot 1 TPS, APG-65 Radar, # TBD	1	Mar 00	GFE	Delayed
255	APG-65 Radar, Receiver-Exciter, 3525022-150	1	Mar 00	GFE	Delayed
256	APG-65 Radar, Radar Target Data Processor, 3525041-150 or 3525048-100	1	Mar 00	GFE	Delayed

**ST**

121	Puller Mechanical, 854-605-1	3	Jun 00	GFE	Onboard
122	Ground Strap, 854-895-54	4	Jun 00	GFE	Onboard
174	Bus Interface, 2051AS163-03	2	Jun 00	GFE	Onboard
176	Soldering Station	1	Jun 00	GFE	Onboard
177	Soldering Iron, 1121-0360	1	Jun 00	GFE	Onboard
178	Soldering Iron, 1121-0358	1	Jun 00	GFE	Onboard
179	Test Set, Huntron, 2000A	1	Jun 00	GFE	Onboard
180	Surgical Knife, GGH0080	1	Jun 00	GFE	Onboard

**CIN, COURSE TITLE:** C-198-3071, AN/USM-636A(V) High Powered Device Test Subsystem Operator and Maintenance Course (Tracks D-198-6104, D-198-610X)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
243	APS-137 OTPS 2, 13702101TPH-1	1	Dec 01	GFE	Pending
244	APS-137 Synchro/Exciter, 2892600-2	1	Dec 01	GFE	Pending
245	APS-137 Receiver, 2892700-1	1	Dec 01	GFE	Pending
246	APG-73 TPS, 512110/5121210	1	Dec 01	GFE	Onboard
247	APG-73 RDP, 3525046-110	1	Dec 01	GFE	Onboard

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

248	APG-73 Receiver, 3525026-110	1	Dec 01	GFE	Onboard
249	RFTS Lot 1 TPS, AWG-9, # TBD	1	Dec 01	GFE	Pending
250	AWG-9 Radar Synchro/Transmitter, 481010-157	1	Dec 01	GFE	Pending
251	RFTS Lot 1 TPS, APG-65, 200200-2001	1	Dec 01	GFE	Onboard
252	APG-65 Radar Antenna, 3525031-140/145/150	1	Dec 01	GFE	Onboard
253	APG-65 Radar Servo, 3472409-50	1	Dec 01	GFE	Onboard
254	RSTS Lot 1 TPS, APG-65 Radar, # TBD	1	Dec 01	GFE	Pending
255	APG-65 Radar, Receiver-Exciter, 3525022-150	1	Dec 01	GFE	Pending
256	APG-65 Radar, Radar Target Data Processor, 3525041-150 or 3525048-100	1	Dec 01	GFE	Pending
279	NEWTS Lot 1 OTPS, # TBD	1	Dec 01	GFE	Pending
280	ALQ-126B CM Receiver-Transmitter, 5921489G2	1	Dec 01	GFE	Pending
281	NEWTS Lot 2 OTPS, # TBD	1	Dec 01	GFE	Pending
282	ALQ-162 Receiver-Transmitter, 001-007245-002	1	Dec 01	GFE	Pending
283	ALR-67 CM Computer, 31-052170-08	1	Dec 01	GFE	Pending
284	ALR-67 Control Indicator, 31-052176-03	1	Dec 01	GFE	Pending
285	ALR-67 Azimuth Indicator, 31-052173-02	1	Dec 01	GFE	Pending
286	ALR-67 Radar Warning Receiver, 31-052164-03	1	Dec 01	GFE	Pending
287	ALR-67 Quadrant Receiver, 31-053839-03	1	Dec 01	GFE	Pending
288	ALR-67 Integrated Antenna Array, 31-052179-03	1	Dec 01	GFE	Pending
289	HPDTS Lot 1A TPS, 734000-1	1	Dec 01	GFE	Pending
290	AWG-9 Radar Receiver, 481022-156	1	Dec 01	GFE	Pending
291	AWG-9 Radar Oscillator, 481001-155	1	Dec 01	GFE	Pending
292	AWG-9 Collector P/S, 481013-170	1	Dec 01	GFE	Pending
293	AWG-9 Beam P/S, 481014-170	1	Dec 01	GFE	Pending
294	AWG-9 Solenoid P/S, 481015-156	1	Dec 01	GFE	Pending

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

295	AWG-9 Antenna, 481031-158	1	Dec 01	GFE	Pending
296	AWG-9 Semi-Regulator P/S, 481601-151	1	Dec 01	GFE	Pending
297	AWG-9 Transmitter, 481011-161	1	Dec 01	GFE	Pending
298	AWG-9 Missile P/S, 481730-168	1	Dec 01	GFE	Pending
299	HPDTS Lot 1B TPS, # TBD	1	Dec 01	GFE	Pending
300	APS-137 Transmitter, 719214-3	1	Dec 01	GFE	Pending
301	HPDTS Lot 1C TPS, # TBD	1	Dec 01	GFE	Pending
302	APG-65 Transmitter, 3525011-150	1	Dec 01	GFE	Pending
303	APG-65 CPS, 3525681-155	1	Dec 01	GFE	Pending
304	HPDTS Lot 1D TPS, # TBD	1	Dec 01	GFE	Pending
305	ALQ-99 Transmitter Band 1, 446010-2	1	Dec 01	GFE	Pending
306	ALQ-99 Transmitter Band 2, 363404-4	1	Dec 01	GFE	Pending
307	ALQ-99 Transmitter/Antenna Band 4, 1037710-1	1	Dec 01	GFE	Pending
308	ALQ-99 Transmitter/Antenna Band 5/6, G555421-1	1	Dec 01	GFE	Pending
309	ALQ-99 Transmitter/Antenna Band 7, 958900-2	1	Dec 01	GFE	Pending
310	ALQ-99 Transmitter/Antenna Band 8, G555420-1	1	Dec 01	GFE	Pending
311	ALQ-99 Transmitter/Antenna Band 9/9E, 802025-443162-2E	1	Dec 01	GFE	Pending

**CIN, COURSE TITLE:** C-198-3071, AN/USM-636A(V) High Powered Device Test Subsystem Operator and Maintenance Course (Tracks E-198-6104, E-198-610X)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
243	APS-137 OTPS 2, 13702101TPH-1	1	Dec 01	GFE	Pending
244	APS-137 Synchro/Exciter, 2892600-2	1	Dec 01	GFE	Pending
245	APS-137 Receiver, 2892700-1	1	Dec 01	GFE	Pending
246	APG-73 TPS, 512110/5121210	1	Dec 01	GFE	Onboard

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

247	APG-73 RDP, 3525046-110	1	Dec 01	GFE	Onboard
248	APG-73 Receiver, 3525026-110	1	Dec 01	GFE	Onboard
249	RFTS Lot 1 TPS, AWG-9, # TBD	1	Dec 01	GFE	Pending
250	AWG-9 Radar Synchro/Transmitter, 481010-157	1	Dec 01	GFE	Pending
251	RFTS Lot 1 TPS, APG-65, 200200-2001	1	Dec 01	GFE	Onboard
252	APG-65 Radar Antenna, 3525031-140/145/150	1	Dec 01	GFE	Onboard
253	APG-65 Radar Servo, 3472409-50	1	Dec 01	GFE	Onboard
254	RSTS Lot 1 TPS, APG-65 Radar, # TBD	1	Dec 01	GFE	Pending
255	APG-65 Radar, Receiver-Exciter, 3525022-150	1	Dec 01	GFE	Pending
256	APG-65 Radar, Radar Target Data Processor, 3525041-150 or 3525048-100	1	Dec 01	GFE	Pending
279	NEWTS Lot 1 OTPS, # TBD	1	Dec 01	GFE	Pending
280	ALQ-126B CM Receiver-Transmitter, 5921489G2	1	Dec 01	GFE	Pending
281	NEWTS Lot 2 OTPS, # TBD	1	Dec 01	GFE	Pending
282	ALQ-162 Receiver-Transmitter, 001-007245-002	1	Dec 01	GFE	Pending
283	ALR-67 CM Computer, 31-052170-08	1	Dec 01	GFE	Pending
284	ALR-67 Control Indicator, 31-052176-03	1	Dec 01	GFE	Pending
285	ALR-67 Azimuth Indicator, 31-052173-02	1	Dec 01	GFE	Pending
286	ALR-67 Radar Warning Receiver, 31-052164-03	1	Dec 01	GFE	Pending
287	ALR-67 Quadrant Receiver, 31-053839-03	1	Dec 01	GFE	Pending
288	ALR-67 Integrated Antenna Array, 31-052179-03	1	Dec 01	GFE	Pending
289	HPDTS Lot 1A TPS, 734000-1	1	Dec 01	GFE	Pending
290	AWG-9 Radar Receiver, 481022-156	1	Dec 01	GFE	Pending
291	AWG-9 Radar Oscillator, 481001-155	1	Dec 01	GFE	Pending
292	AWG-9 Collector P/S, 481013-170	1	Dec 01	GFE	Pending
293	AWG-9 Beam P/S, 481014-170	1	Dec 01	GFE	Pending

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

294	AWG-9 Solenoid P/S, 481015-156	1	Dec 01	GFE	Pending
295	AWG-9 Antenna, 481031-158	1	Dec 01	GFE	Pending
296	AWG-9 Semi-Regulator P/S, 481601-151	1	Dec 01	GFE	Pending
297	AWG-9 Transmitter, 481011-161	1	Dec 01	GFE	Pending
298	AWG-9 Missile P/S, 481730-168	1	Dec 01	GFE	Pending
299	HPDTS Lot 1B TPS, # TBD	1	Dec 01	GFE	Pending
300	APS-137 Transmitter, 719214-3	1	Dec 01	GFE	Pending
301	HPDTS Lot 1C TPS, # TBD	1	Dec 01	GFE	Pending
302	APG-65 Transmitter, 3525011-150	1	Dec 01	GFE	Pending
303	APG-65 CPS, 3525681-155	1	Dec 01	GFE	Pending
304	HPDTS Lot 1D TPS, # TBD	1	Dec 01	GFE	Pending
305	ALQ-99 Transmitter Band 1, 446010-2	1	Dec 01	GFE	Pending
306	ALQ-99 Transmitter Band 2, 363404-4	1	Dec 01	GFE	Pending
307	ALQ-99 Transmitter/Antenna Band 4, 1037710-1	1	Dec 01	GFE	Pending
308	ALQ-99 Transmitter/Antenna Band 5/6, G555421-1	1	Dec 01	GFE	Pending
309	ALQ-99 Transmitter/Antenna Band 7, 958900-2	1	Dec 01	GFE	Pending
310	ALQ-99 Transmitter/Antenna Band 8, G555420-1	1	Dec 01	GFE	Pending
311	ALQ-99 Transmitter/Antenna Band 9/9E, 802025-443162-2E	1	Dec 01	GFE	Pending

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Tracks D-198-6105, D-198-610Y)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
111	Camera, Still Picture	1	Sep 01	GFE	Pending
135	Thermal Control Unit	1	Sep 01	GFE	Pending
149	FLIR Imaging	1	Sep 01	GFE	Pending

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

154	Pod, Aircraft, 260344	1	Sep 01	GFE	Pending
162	Hoisting Unit, M866-2000-MODG	1	Sep 01	GFE	Pending
257	OR-263 OTPS 1, ON-418	1	Sep 01	GFE	Onboard
258	S-3 Infrared Viewer, 708001-8	1	Sep 01	GFE	Pending
259	OR-263 OTPS 2, ON-502	1	Sep 01	GFE	Onboard
260	Receiver SRA, 2770627-1	1	Sep 01	GFE	Pending
261	Camera Head Assembly, 2000850-1	1	Sep 01	GFE	Pending
262	EOTS OTPS 1, 74D060308-1001	1	Sep 01	GFE	Pending
263	Advanced Control Processor, 260582	1	Sep 01	GFE	Pending
264	Servo Control, 3061270-2	1	Sep 01	GFE	Onboard
265	Control Processor, 242607-2	1	Sep 01	GFE	Onboard
266	EOTS OTPS 2, 74D060310-1001	1	Sep 01	GFE	Pending
267	Laser Power Supply, 66910600-29	1	Sep 01	GFE	Onboard
268	Digital Computer Converter, 6096500-110	1	Sep 01	GFE	Onboard
269	Thermal Control Unit, 6069400-110	1	Sep 01	GFE	Onboard
270	EOTS OTPS3	1	Sep 01	GFE	Pending
271	Optics Stabilizer, 260580	1	Sep 01	GFE	Pending
272	Infrared Receiver, 3061250-1	1	Sep 01	GFE	Pending
273	EOTS OTPS 4, 74D060312-1001	1	Sep 01	GFE	Pending
274	Infrared Converter, 6096300-113	1	Sep 01	GFE	Pending
275	Laser Detection Tracker, 71321200-019	1	Sep 01	GFE	Pending
278	Laser Transceiver, 66910100-29	1	Sep 01	GFE	Pending
<b>ST</b>					
108	Puller, Card, 854-605-01	1	Sep 01	GFE	Pending
110	Common ID Assembly, 2051AS400-04	1	Sep 01	GFE	Pending
112	Extraction Tool, 910110102	1	Sep 01	GFE	Pending

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

113	Test Accessory Kit, 2053AS340-01	1	Sep 01	GFE	Pending
118	Extraction Tool, 910110104	1	Sep 01	GFE	Pending
123	Extraction Tool, 6126-978	1	Sep 01	GFE	Pending
146	Minor Adapter A206, 2052AS593-01	1	Sep 01	GFE	Pending
147	Minor Adapter A203, 2052 AS594-01	1	Sep 01	GFE	Pending
148	Minor Adapter A205, 2052AS595-01	1	Sep 01	GFE	Pending
151	Minor Adapter, 2052AS596-01	1	Sep 01	GFE	Pending
157	Minor Adapter A204, 2052AS597-01	1	Sep 01	GFE	Pending
159	Minor Adapter A202, 2052AS598-01	1	Sep 01	GFE	Pending
163	Self Test ACO, Kit, 2051AS627-01	1	Sep 01	GFE	Pending
165	Adapter Set, 2053AS573-01	1	Sep 01	GFE	Pending
166	Dummy Load Set, 909D	1	Sep 01	GFE	Pending
167	O Scope, TDS-620A	1	Sep 01	GFE	Pending
168	UUT Power Cable Set, 000CT001	1	Sep 01	GFE	Pending
169	Cable Assy Set, Wire, TYPE 11-3-3	1	Sep 01	GFE	Pending
170	Fixture Test Set, 2053AS575-01	1	Sep 01	GFE	Pending

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Tracks E-198-6105, E-198-610Y)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
111	Camera, Still Picture	1	Sep 01	GFE	Pending
135	Thermal Control Unit	1	Sep 01	GFE	Pending
149	FLIR Imaging	1	Sep 01	GFE	Pending
154	Pod, Aircraft, 260344	1	Sep 01	GFE	Pending
162	Hoisting Unit, M866-2000-MODG	1	Sep 01	GFE	Pending

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

257	OR-263 OTPS 1, ON-418	1	Sep 01	GFE	Onboard
258	S-3 Infrared Viewer, 708001-8	1	Sep 01	GFE	Pending
259	OR-263 OTPS 2, ON-502	1	Sep 01	GFE	Onboard
260	Receiver SRA, 2770627-1	1	Sep 01	GFE	Pending
261	Camera Head Assembly, 2000850-1	1	Sep 01	GFE	Pending
262	EOTS OTPS 1, 74D060308-1001	1	Sep 01	GFE	Pending
263	Advanced Control Processor, 260582	1	Sep 01	GFE	Pending
264	Servo Control, 3061270-2	1	Sep 01	GFE	Onboard
265	Control Processor, 242607-2	1	Sep 01	GFE	Onboard
266	EOTS OTPS 2, 74D060310-1001	1	Sep 01	GFE	Pending
267	Laser Power Supply, 66910600-29	1	Sep 01	GFE	Onboard
268	Digital Computer Converter, 6096500-110	1	Sep 01	GFE	Onboard
269	Thermal Control Unit, 6069400-110	1	Sep 01	GFE	Onboard
270	EOTS OTPS3	1	Sep 01	GFE	Pending
271	Optics Stabilizer, 260580	1	Sep 01	GFE	Pending
272	Infrared Receiver, 3061250-1	1	Sep 01	GFE	Pending
273	EOTS OTPS 4, 74D060312-1001	1	Sep 01	GFE	Pending
274	Infrared Converter, 6096300-113	1	Sep 01	GFE	Pending
275	Laser Detection Tracker, 71321200-019	1	Sep 01	GFE	Pending
278	Laser Transceiver, 66910100-29	1	Sep 01	GFE	Pending
<b>ST</b>					
108	Puller, Card, 854-605-01	1	Sep 01	GFE	Pending
110	Common ID Assembly, 2051AS400-04	1	Sep 01	GFE	Pending
112	Extraction Tool, 910110102	1	Sep 01	GFE	Pending
113	Test Accessory Kit, 2053AS340-01	1	Sep 01	GFE	Pending
118	Extraction Tool, 910110104	1	Sep 01	GFE	Pending

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

123	Extraction Tool, 6126-978	1	Sep 01	GFE	Pending
146	Minor Adapter A206, 2052AS593-01	1	Sep 01	GFE	Pending
147	Minor Adapter A203, 2052 AS594-01	1	Sep 01	GFE	Pending
148	Minor Adapter A205, 2052AS595-01	1	Sep 01	GFE	Pending
151	Minor Adapter, 2052AS596-01	1	Sep 01	GFE	Pending
157	Minor Adapter A204, 2052AS597-01	1	Sep 01	GFE	Pending
159	Minor Adapter A202, 2052AS598-01	1	Sep 01	GFE	Pending
163	Self Test ACO, Kit, 2051AS627-01	1	Sep 01	GFE	Pending
165	Adapter Set, 2053AS573-01	1	Sep 01	GFE	Pending
166	Dummy Load Set, 909D	1	Sep 01	GFE	Pending
167	O Scope, TDS-620A	1	Sep 01	GFE	Pending
168	UUT Power Cable Set, 000CT001	1	Sep 01	GFE	Pending
169	Cable Assy Set, Wire, TYPE 11-3-3	1	Sep 01	GFE	Pending
170	Fixture Test Set, 2053AS575-01	1	Sep 01	GFE	Pending

**IV.A.2. TRAINING DEVICES**

**DEVICE:** Optical Reader System  
**DESCRIPTION:** The OR System provides access to the ATI without diverting a CASS station. It consists of a viewing screen, a micro-VAX, and an optical hard drive. The OR System is used both in the classroom and in the fleet for viewing the ATI.  
**MANUFACTURER:** NAWCAD Lakehurst  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC :** Oceana, 66045

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
6	Jul 94	Jul 94	Onboard	C-198-3043 (Track D-198-6101) C-198-3044 (Track D-198-6102) C-198-3069 (Track D-198-6102) C-198-3043 (Track D-198-6103) C-198-3044 (Track D-198-6103) C-198-3069 (Track D-198-6103) C-198-3044 (Track D-198-6104) C-198-3071 (Track D-198-6104) C-198-3044 (Track D-198-6105) C-198-3070 (Track D-198-6105) C-198-3043 (Track D-198-610X) C-198-3044 (Track D-198-610X) C-198-3071 (Track D-198-610X) C-198-3043 (Track D-198-610Y) C-198-3044 (Track D-198-610Y) C-198-3070 (Track D-198-610Y)
10	Sep 96	Sep 96	Onboard	C-198-3043 (Track D-198-6101) C-198-3044 (Track D-198-6102) C-198-3069 (Track D-198-6102) C-198-3043 (Track D-198-6103) C-198-3044 (Track D-198-6103) C-198-3069 (Track D-198-6103) C-198-3044 (Track D-198-6104) C-198-3071 (Track D-198-6104) C-198-3044 (Track D-198-6105) C-198-3070 (Track D-198-6105) C-198-3043 (Track D-198-610X) C-198-3044 (Track D-198-610X) C-198-3071 (Track D-198-610X) C-198-3043 (Track D-198-610Y) C-198-3044 (Track D-198-610Y) C-198-3070 (Track D-198-610Y)

**IV.A.2. TRAINING DEVICES**

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC :** Miramar, 42148

<b>QTY REQD</b>	<b>DATE REQD</b>	<b>RFT DATE</b>	<b>STATUS</b>	<b>COURSES SUPPORTED</b>
6	Sep 94	Sep 94	Onboard	C-198-3043 (Track E-198-6101) C-198-3044 (Track E-198-6102) C-198-3069 (Track E-198-6102) C-198-3043 (Track E-198-6103) C-198-3044 (Track E-198-6103) C-198-3069 (Track E-198-6103) C-198-3044 (Track E-198-6104) C-198-3071 (Track E-198-6104) C-198-3044 (Track E-198-6105) C-198-3070 (Track E-198-6105) C-198-3043 (Track E-198-610X) C-198-3044 (Track E-198-610X) C-198-3071 (Track E-198-610X) C-198-3043 (Track E-198-610Y) C-198-3044 (Track E-198-610Y) C-198-3070 (Track E-198-610Y)
10	Sep 96	Sep 96	Onboard	C-198-3043 (Track E-198-6101) C-198-3044 (Track E-198-6102) C-198-3069 (Track E-198-6102) C-198-3043 (Track E-198-6103) C-198-3044 (Track E-198-6103) C-198-3069 (Track E-198-6103) C-198-3044 (Track E-198-6104) C-198-3071 (Track E-198-6104) C-198-3044 (Track D-198-6105) C-198-3070 (Track E-198-6105) C-198-3043 (Track E-198-610X) C-198-3044 (Track E-198-610X) C-198-3071 (Track E-198-610X) C-198-3043 (Track E-198-610Y) C-198-3044 (Track E-198-610Y) C-198-3070 (Track E-198-610Y)

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

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance  
(Track D-198-6101)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 94	Onboard
Student Achievement Tests	6	Jan 94	Onboard
Student Guide	6	Jan 94	Onboard
Topical Outline	6	Jan 94	Onboard
Transparencies	2 sets	Jan 94	Onboard

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance  
(Track E-198-6101)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 95	Onboard
Student Achievement Tests	6	Jan 95	Onboard
Student Guide	6	Jan 95	Onboard
Topical Outline	6	Jan 95	Onboard
Transparencies	2 sets	Jan 95	Onboard

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course  
(Track D-198-6102)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 94	Onboard
Student Achievement Tests	6	Jan 94	Onboard
Student Guide	6	Jan 94	Onboard
Topical Outline	6	Jan 94	Onboard
Transparencies	2 sets	Jan 94	Onboard

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator / Maintainer Intermediate Maintenance Course  
(Track D-198-6102)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Mar 00	Onboard
Student Achievement Tests	6	Mar 00	Onboard
Student Guide	6	Mar 00	Onboard
Topical Outline	6	Mar 00	Onboard
Transparencies	2 sets	Mar 00	Onboard

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

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course  
(Track D-198-6102)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 95	Onboard
Student Achievement Tests	6	Jan 95	Onboard
Student Guide	6	Jan 95	Onboard
Topical Outline	6	Jan 95	Onboard
Transparencies	2 sets	Jan 95	Onboard

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator/Maintainer Intermediate Maintenance Course  
(Track E-198-6102)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Mar 00	Onboard
Student Achievement Tests	6	Mar 00	Onboard
Student Guide	6	Mar 00	Onboard
Topical Outline	6	Mar 00	Onboard
Transparencies	2 sets	Mar 00	Onboard

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance  
(Track D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 94	Onboard
Student Achievement Tests	6	Jan 94	Onboard
Student Guide	6	Jan 94	Onboard
Topical Outline	6	Jan 94	Onboard
Transparencies	2 sets	Jan 94	Onboard

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course  
(Track D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 94	Onboard
Student Achievement Tests	6	Jan 94	Onboard
Student Guide	6	Jan 94	Onboard
Topical Outline	6	Jan 94	Onboard
Transparencies	2 sets	Jan 94	Onboard

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

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator / Maintainer Intermediate Maintenance Course  
(Track D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Mar 00	Onboard
Student Achievement Tests	6	Mar 00	Onboard
Student Guide	6	Mar 00	Onboard
Topical Outline	6	Mar 00	Onboard
Transparencies	2 sets	Mar 00	Onboard

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance  
(Track E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 95	Onboard
Student Achievement Tests	6	Jan 95	Onboard
Student Guide	6	Jan 95	Onboard
Topical Outline	6	Jan 95	Onboard
Transparencies	2 sets	Jan 95	Onboard

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course  
(Track E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Jan 95	Onboard
Student Achievement Tests	6	Jan 95	Onboard
Student Guide	6	Jan 95	Onboard
Topical Outline	6	Jan 95	Onboard
Transparencies	2 sets	Jan 95	Onboard

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator / Maintainer Intermediate Maintenance Course  
(Track E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Mar 00	Onboard
Student Achievement Tests	6	Mar 00	Onboard
Student Guide	6	Mar 00	Onboard
Topical Outline	6	Mar 00	Onboard
Transparencies	2 sets	Mar 00	Onboard

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

**CIN, COURSE TITLE:** C-198-3071, AN/USM-636A(V) High Powered Device Test Subsystem Operator and Maintenance  
(Track D-198-6104)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Dec 01	Pending
Student Achievement Tests	6	Dec 01	Pending
Student Guide	6	Dec 01	Pending
Topical Outline	6	Dec 01	Pending
Transparencies	2 sets	Dec 01	Pending

**CIN, COURSE TITLE:** C-198-3071, AN/USM-636A(V) High Powered Device Test Subsystem Operator and Maintenance  
(Track E-198-6104)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Dec 01	Pending
Student Achievement Tests	6	Dec 01	Pending
Student Guide	6	Dec 01	Pending
Topical Outline	6	Dec 01	Pending
Transparencies	2 sets	Dec 01	Pending

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Track D-198-6105)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Sep 01	Pending
Student Achievement Tests	6	Sep 01	Pending
Student Guide	6	Sep 01	Pending
Topical Outline	6	Sep 01	Pending
Transparencies	2 sets	Sep 01	Pending

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Track E-198-6105)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Sep 01	Pending
Student Achievement Tests	6	Sep 01	Pending
Student Guide	6	Sep 01	Pending
Topical Outline	6	Sep 01	Pending
Transparencies	2 sets	Sep 01	Pending

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

**CIN, COURSE TITLE:** C-198-3071, AN/USM-636A(V) High Powered Device Test Subsystem Operator and Maintenance  
(Track D-198-610X)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Dec 01	Pending
Student Achievement Tests	6	Dec 01	Pending
Student Guide	6	Dec 01	Pending
Topical Outline	6	Dec 01	Pending
Transparencies	2 sets	Dec 01	Pending

**CIN, COURSE TITLE:** C-198-3071, AN/USM-636A(V) High Powered Device Test Subsystem Operator and Maintenance  
(Track E-198-610X)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Dec 01	Pending
Student Achievement Tests	6	Dec 01	Pending
Student Guide	6	Dec 01	Pending
Topical Outline	6	Dec 01	Pending
Transparencies	2 sets	Dec 01	Pending

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Track D-198-610Y)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC:** Oceana, 66045

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Sep 01	Pending
Student Achievement Tests	6	Sep 01	Pending
Student Guide	6	Sep 01	Pending
Topical Outline	6	Sep 01	Pending
Transparencies	2 sets	Sep 01	Pending

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Track E-198-610Y)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC:** Miramar, 42148

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guide	6	Sep 01	Pending
Student Achievement Tests	6	Sep 01	Pending
Student Guide	6	Sep 01	Pending
Topical Outline	6	Sep 01	Pending
Transparencies	2 sets	Sep 01	Pending

### IV.B.3. TECHNICAL MANUALS

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance  
(Tracks D-198-6101, D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC :** Oceana, 66045

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
ATLAS Training Manual ISBN 1-5 Handbook to IEEE C/ATLAS Std. 716	Hard copy	See Note	Nov 93	Onboard
DICONS 2.1 User Manual for the Direct Instrument Control Software	Hard copy	See Note	Nov 93	Onboard
DICONS 3.0 User Manual for the Direct Instrument Control Software	Hard copy	See Note	Nov 93	Onboard
Document NO. 2045AS063-TPSD Test Program Set Document (TPSD) for the Self-Maintenance Operational Test Program Set (OTPS)	Hard copy	See Note	Nov 93	Onboard
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-3-2 Calibration Support Equipment Intermediate Maintenance with IPB	CD ROM	See Note	Nov 93	Onboard
NA 16-35ON403-1 Intermediate Maintenance with IPB for Interface Device Set	Hard copy	See Note	Nov 93	Onboard
NA 16-35ON428-1 Intermediate Maintenance with IPB for Test Accessories Set	Hard copy	See Note	Nov 93	Onboard
TOOK/AU07 CASS User's Guide for TPS Developers	Hard copy	See Note	Nov 93	Onboard

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

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance  
(Tracks E-198-6101, E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC :** Miramar, 42148

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
ATLAS Training Manual ISBN 1-5 Handbook to IEEE C/ATLAS Std. 716	Hard copy	See Note	Nov 94	Onboard
DICONS 2.1 User Manual for the Direct Instrument Control Software	Hard copy	See Note	Nov 94	Onboard
DICONS 3.0 User Manual for the Direct Instrument Control Software	Hard copy	See Note	Nov 94	Onboard
Document NO. 2045AS063-TPSD Test Program Set Document (TPSD) for the Self-Maintenance Operational Test Program Set (OTPS)	Hard copy	See Note	Nov 94	Onboard
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 94	Onboard
NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 94	Onboard
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Nov 94	Onboard
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Nov 94	Onboard
NA 16-30USM636-3-2 Calibration Support Equipment Intermediate Maintenance with IPB	CD ROM	See Note	Nov 94	Onboard
NA 16-35ON403-1 Intermediate Maintenance with IPB for Interface Device Set	Hard copy	See Note	Nov 94	Onboard
NA 16-35ON428-1 Intermediate Maintenance with IPB for Test Accessories Set	Hard copy	See Note	Nov 94	Onboard
TOOK/AU07 CASS User's Guide for TPS Developers	Hard copy	See Note	Nov 94	Onboard

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

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course  
(Tracks D-198-6102, D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC :** Oceana, 66045

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
ISBN 0-47159-330-3 VAX/VMS Users Guide	Hard copy	See Note	Nov 93	Onboard
ISBN 1-55937-006-8 C/ATLAS Users Guide	Hard copy	See Note	Nov 93	Onboard
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-3-2 Calibration Support Equipment Intermediate Maintenance with IPB	CD ROM	See Note	Nov 93	Onboard

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator / Maintainer Intermediate Maintenance Course  
(Tracks D-198-6102, D-198-6103)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC :** Oceana, 66045

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
ISBN 0-47159-330-3 VAX/VMS Users Guide	Hard copy	See Note	Jun 00	Onboard
ISBN 1-55937-006-8 C/ATLAS Users Guide	Hard copy	See Note	Jun 00	Onboard
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Sep 00	Onboard

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

NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Jun 00	Onboard
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Jun 00	Onboard
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Jun 00	Onboard

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course  
(Tracks E-198-6102, E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC :** Miramar, 42148

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
ISBN 0-47159-330-3 VAX/VMS Users Guide	Hard copy	See Note	Nov 94	Onboard
ISBN 1-55937-006-8 C/ATLAS Users Guide	Hard copy	See Note	Nov 94	Onboard
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 94	Onboard
NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 94	Onboard
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Nov 94	Onboard
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Nov 94	Onboard

**CIN, COURSE TITLE:** C-198-3069, AN/USM-636A(V) Common Operator / Maintainer Intermediate Maintenance Course  
(Tracks E-198-6102, E-198-6103)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC :** Miramar, 42148

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
ISBN 0-47159-330-3 VAX/VMS Users Guide	Hard copy	See Note	Jun 00	Onboard

### IV.B.3. TECHNICAL MANUALS

ISBN 1-55937-006-8 C/ATLAS Users Guide	Hard copy	See Note	Jun 00	Onboard
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Nov 93	Onboard
NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Jun 00	Onboard
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Jun 00	Onboard
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Jun 00	Onboard
NA 16-30USM636-3-2 Calibration Support Equipment Intermediate Maintenance with IPB	CD ROM	See Note	Nov 94	Onboard

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Track D-198-6105)  
**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC :** Oceana, 66045

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
ISBN 0-47159-330-3 VAX/VMS Users Guide	Hard copy	See Note	Sep 01	Pending
ISBN 1-55937-006-8 C/ATLAS Users Guide	Hard copy	See Note	Sep 01	Pending
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Sep 01	Pending
NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Sep 01	Pending
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Sep 01	Pending
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Sep 01	Pending

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

**CIN, COURSE TITLE:** C-198-3070, AN/USM-636A(V) EO+ / FLIR Intermediate Maintenance Course (Track E-198-6105)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC :** Miramar, 42148

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
ISBN 0-47159-330-3 VAX/VMS Users Guide	Hard copy	See Note	Sep 01	Pending
ISBN 1-55937-006-8 C/ATLAS Users Guide	Hard copy	See Note	Sep 01	Pending
NA 16-30USM636-1-1 Operators Instruction for Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Sep 01	Pending
NA 16-30USM636-2-1 Intermediate Maintenance with IPB, Electrical Equipment Test Sets and Ancillary Equipment	CD ROM	See Note	Sep 01	Pending
NA 16-30USM636-2-2 Intermediate Maintenance with IPB, for Shop Replacement Assemblies	CD ROM	See Note	Sep 01	Pending
NA 16-30USM636-3-1 Intermediate Maintenance with IPB, for Self-Maintenance OTPS Support Equipment	CD ROM	See Note	Sep 01	Pending

**Note:** Each CASS station and Optical Reader System is equipped with all technical manuals in digital format.

**IV.C. FACILITY REQUIREMENTS**

**IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE / SUPPORT) BY ACTIVITY**

**CIN, TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance (Track D-198-6101)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC :** Oceana, 66045

**REQUIRED RFT DATE:** Dec 1993

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
3678	7312	10990	750	60	None	Fully	750	60	None

**CIN, TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance (Track E-198-6101)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC :** Miramar, 42148

**REQUIRED RFT DATE:** Dec 1994

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
3678	7312	10990	750	60	None	Fully	750	60	None

**IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY**

**CIN, TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course (Track D-198-6102)

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC :** Oceana, 66045

**REQUIRED RFT DATE:** Dec 1993

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
3678	7312	10990	750	60	None	Fully	750	60	None

**CIN, TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course (Track E-198-6102)

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET

**LOCATION, UIC :** Miramar, 42148

**REQUIRED RFT DATE:** Dec 1994

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
3678	7312	10990	750	60	None	Fully	750	60	None

#### IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC :** Oceana, 66045

**BUILDING AND ROOM NUMBER:** NA

**TYPE OF FACILITY PROJECT:** MILCON

**FACILITY PROJECT NUMBER:** P-185

**REQUIRED PROJECT AWARD:** Jan 1990

**REQUIRED UCD:** Sep 1991

**REQUIRED RFT:** Dec 1993

**STATUS:** Completed

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU

**LOCATION, UIC :** Oceana, 66045

**BUILDING AND ROOM NUMBER:** NA

**TYPE OF FACILITY PROJECT:** MILCON

**FACILITY PROJECT NUMBER:** P-185

**REQUIRED PROJECT AWARD:** Jan 1990

**REQUIRED UCD:** Sep 1991

**REQUIRED RFT:** Dec 1993

**STATUS:** Completed

**IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE**

**CIN, COURSE TITLE:** C-198-3043, AN/USM-636A(V) CASS Advanced Maintenance / Calibration Intermediate Maintenance  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC :** Miramar, 42148  
**BUILDING AND ROOM NUMBER:** NA.  
**TYPE OF FACILITY PROJECT:** MILCON  
**FACILITY PROJECT NUMBER:** P-350  
**REQUIRED PROJECT AWARD:** Jan 1991  
**REQUIRED UCD:** Jul 1992  
**REQUIRED RFT:** Dec 1994  
**STATUS:** Completed

**CIN, COURSE TITLE:** C-198-3044, AN/USM-636A(V) CASS Common Core Intermediate Maintenance Course  
**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC :** Miramar, 42148  
**BUILDING AND ROOM NUMBER:** NA.  
**TYPE OF FACILITY PROJECT:** MILCON  
**FACILITY PROJECT NUMBER:** P-350  
**REQUIRED PROJECT AWARD:** Jan 1991  
**REQUIRED UCD:** Jul 1992  
**REQUIRED RFT:** Dec 1994  
**STATUS:** Completed

**IV.C.3. FACILITY PROJECT SUMMARY BY PROGRAM**

**TRAINING ACTIVITY:** MTU 3010 NAMTRAU  
**LOCATION, UIC :** Oceana, 66045

PROJECT NUMBER	TOTAL SCOPE	PROJECTED AWARD DATE	PROJECTED UCD	STATUS
P-185	14600	Jan 1990	Sep 1991	Completed

**TRAINING ACTIVITY:** MTU 3011 NAMTRAGRU DET  
**LOCATION, UIC :** Miramar, 42148

PROJECT NUMBER	TOTAL SCOPE	PROJECTED AWARD DATE	PROJECTED UCD	STATUS
P-350	1460	Jan 1992	Sep 1992	Completed

**PART V - MPT MILESTONES**

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
DA	Conducted analysis of MPT requirements	Jan 83	Completed
DA	Distributed NTSP	Jun 87	Completed
DA	Updated manpower requirements analysis	Jun 89	Completed
OPO/CMC	Programmed training and training equipment plan	Jun 89	Completed
OPO	Approved and promulgated NTSP	Jan 90	Completed
DA	Began DT training	Feb 90	Completed
TSA	Began training services	Feb 90	Completed
DA	Began DT-IIC Phase I	Apr 90	Completed
DA	Began OT training	Apr 90	Completed
OPTEVFOR	Began OT-IIA on the HYB Configuration	Apr 90	Completed
OPO	Chaired NTSPC and issued resulting minutes	May 90	Completed
DA	Awarded production contract	Sep 90	Completed
DA	Distributed updated NTSP	Apr 91	Completed
TSA	Began initial training	May 91	Completed
DA	Introduced to fleet	May 93	Completed
TSA	Delivered curricula materials to MTU 3010	Sep 93	Completed
TSA	Delivered TTE to MTU 3010	Nov 93	Completed
TA	Began follow-on training at MTU 3010	Jan 94	Completed
OPO	Chaired NTSPC and issued resulting minutes	Feb 94	Completed
TSA	Delivered training devices (OR System)	Jul 94	Completed
TSA	Delivered curricula materials to MTU 3011	Sep 94	Completed
TSA	Delivered TTE to MTU 3011	Nov 94	Completed
TA	Began follow-on training at MTU 3011	Jan 95	Completed
OPO	Chaired NTSPC and issued resulting minutes	Apr 95	Completed
OPO	Approved and promulgated NTSP	Jul 95	Completed

OPO

Chaired NTSPC and issued resulting minutes

Mar 96

Completed

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
DA	Achieved MSD and NSD on Block 1 HYB, CNI, and RF	Feb 97	Completed
TA	Revised curricula materials and validated	May 98	Completed
TA	Revised curricula materials and validated	Mar 00	Completed
DA	Achieved MSD and NSD on the EO+	Jul 00	Completed
DA	Achieve NSD and MSD on Block 2 HYB, CNI, and RF	Sep 00	Completed
TA	Begin EO+ training courses	Sep 01	Pending
TA	Begin HPDTS training courses	Dec 01	Pending

**PART VI - DECISION ITEMS / ACTION REQUIRED**

<b>DECISION ITEM OR ACTION REQUIRED</b>	<b>COMMAND ACTION</b>	<b>DUE DATE</b>	<b>STATUS</b>
Expand NAMTRAGRU / NAESU partnership as follows: NAMTRAGRU to develop / maintain TPS specific curriculum (with NAESU assist). NAESU to provide on-site training to the fleet.	NAMTRAGRU / NAESU	None	Monitor
Provide the POA&M to the fleet - ASAP. The dates need to be adhered to NO MATTER WHAT.	PMA205 / NAMTRA	None	Monitor
Forward all information concerning OMS information and its capabilities to the NAMTRA site. This will allow the curriculum to be updated to provide "Just in time" training.	Lakehurst / FST	None	Monitor
Accelerate delivery of EOSS+ stations to NAMTRAGRU (NLT June 99). Provide temporary custody of AV-8B FLIR TPS/WRAs to NAMTRAGRU (NLT Jul 99) (to be returned upon receipt of F/A-18 FLIR TPS)	PMA260	None	Monitor
Provide listing of HPOC WRAs/UUTs to NAMTRAGRU.	PMA260	None	Open
Provide listing of WRAs/UUTs that will be provided to the NAMTRAGRU DETs.	Platform PMAs	None	Open
The OLRs, as a training aid, needs to be replaced by PCs. This is a long-term solution that will complement future computer based training.	PMA260 / PMA205	None	Open
Provide training for APS-137 SEAPODET technicians.	PMA205	None	Close

## PART VII - POINTS OF CONTACT

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