



**NAVY TRAINING SYSTEM PLAN**

**FOR THE**

**H-1 UPGRADES PROGRAM**

**(AH-1Z and UH-1Y)**

**N88-NTSP-A-50-9602B/D**

**MARCH 2004**

**H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)****EXECUTIVE SUMMARY**

The United States Marine Corps Aviation Plan requires H-1 Helicopters to operate through Fiscal Year (FY) 25 while providing a bridge until the introduction of the Joint Common Attack/Armed Reconnaissance (JCAAR) aircraft. Both the AH-1W and UH-1N Helicopters require a comprehensive upgrade to effectively meet the Marine Corps Attack Helicopter/Marine Air-Ground Task Force warfighting and assault support/combat utility requirements. Additionally, the requirement for an AH-1W and UH-1N Helicopter mid-life upgrade was validated and approved by the Assistant Commandant of the Marine Corps in April 1994 and September 1993, respectively.

The AH-1W and UH-1N Helicopters are currently being upgraded, remanufactured with a “zero-time” airframe, and re-designated as the AH-1Z and the UH-1Y Helicopters. Currently, the AH-1Z and UH-1Y Helicopters are undergoing Engineering Manufacturing Development (EMD)/Integrated Test and Evaluation (IT&E) testing at NAVAIR Patuxent River, Maryland. A major benefit of the H-1 Upgrade Program is the commonality of approximately 84 percent of the major components between both models, thereby reducing logistics support, maintenance workload, and training requirements. The AH-1Z and the UH-1Y Helicopters will have common T700-GE-401 Engines, Auxiliary Power Units, gearboxes, drivetrains, and tail booms. Both the AH-1Z and UH-1Y Helicopters will incorporate a modified four-bladed main and tail rotor system. The replacement of the two-bladed rotor system with a common four-bladed rotor system will achieve improved performance, reliability, and maintainability.

The H-1 Upgrade Program is an Acquisition Category 1D program, and is in the Production and Deployment Phase of the Defense Acquisition System. In October 2003, the Defense Acquisition Board authorized the H-1 Upgrades Program to proceed and enter into the first of two Limited Rate Initial Production (LRIP) lots. The LRIP Lot I decision specifically gave Bell Helicopter Textron, Incorporated (BHTI) approval to remanufacture three AH-1W and six UH-1N Helicopters to the AH-1Z and UH-1Y Helicopter configuration. An LRIP Lot II decision is expected to occur in first quarter FY05, and an H-1 Upgrades Program Full-Rate Production decision (Milestone III) is expected in FY06. Initial Operational Capability (IOC) for the AH-1Z Helicopter is expected in FY09 while IOC for the UH-1Y Helicopter is expected in FY08.

The maintenance concept for the H-1 Upgrades Program is not expected to change and will continue to be performed by Marine Corps personnel at the organizational and intermediate levels. However, a Level of Repair Analysis will continue to be performed during EMD/IT&E and Operational Test and Evaluation (OT&E) phases. A Performance Based Logistics (PBL) Program will be used as part of the H-1 Upgrades Program support package.

Based on a comprehensive analysis of the design improvements of AH-1Z and UH-1Y Helicopter components, a typical Marine Light Attack Helicopter (HMLA) squadron's

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manpower requirements will not be increased. The HMLA Marine Aviation Logistics Squadron augment manpower requirements will not change.

AH-1W and UH-1N Helicopter pilot and aircrew training is provided by Marine Helicopter Training Squadron (HMT)-303, Marine Corps Air Station (MCAS) Camp Pendleton, California. AH-1W and UH-1N Helicopter maintenance training is provided by Naval Aviation Maintenance Training Marine Unit (CNATT MARUNIT), MCAS Camp Pendleton. All H-1 Upgrades Program training will continue to be provided by HMT-303 and CNATT MARUNIT MCAS Camp Pendleton. BHTI is contracted to provide initial aircrew and maintenance OT&E training, as well as cadre training, and to develop or modify existing AH-1W and UH-1N training courses for follow-on training.

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**LIST OF ACRONYMS**

ACDU	Active Duty
ADC	Air Data Computer
AFCS	Automatic Flight Control System
AGO	Aerial Gunner/Observer
ALSP	Acquisition Logistics Support Plan
AM/FM	Amplitude Modulation/Frequency Modulation
AMTCS	Aviation Maintenance Training Continuum System
AMU	Advanced Memory Unit
ANDVT	Advanced Narrowband Digital Voice Terminal
AOB	Average Onboard
APT	Aircrew Procedures Trainer
APU	Auxiliary Power Unit
AR	Active Reserve
ATIR	Annual Training Input Requirement
AVT	Avionics Trainer
AWIRT	Aircraft Wiring Interface Remote Terminal
BHTI	Bell Helicopter Textron Incorporated
BIT	Built-In Test
CAI	Computer-Aided Instruction
CBT	Computer-Based Training
CETS	Contractor Engineering Technical Services
CFY	Current Fiscal Year
CID	Cockpit Integration Development
CIN	Course Identification Number
CM	Countermeasures
CMC	Commandant of the Marine Corps
CMS	Cockpit Management System
CMT	Composite Maintenance Trainer
CNATT	Center for Naval Aviation Technical Training
CNATT MARUNIT	Naval Aviation Maintenance Training Marine Unit
CNATTU	Naval Aviation Maintenance Training Unit
CNO	Chief of Naval Operations
COMLANTFLT	Commander, Atlantic Fleet
COMM/NAV	Communication/Navigation
COMPACFLT	Commander, Pacific Fleet
COMSEC	Communication Security
COTS	Commercial Off-The-Shelf

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**LIST OF ACRONYMS**

DET	Detachment
DoD	Department of Defense
EAT	Electrical/Armament Trainer
ECM	Electronic Countermeasures
ECP	Engineering Change Proposal
EGI	Embedded GPS and Inertial Navigation System
EMD	Engineering and Manufacturing Development
EMI	Electromagnetic Interference
ERRT	Engine Remove/Replace Trainer
ESM	Electronic System Countermeasures
ESOH	Environment, Safety, and Occupational Health
EW	Electronic Warfare
FDR	Flight Data Recorder
FFS	Full Flight Simulator
FIR	Flight Incident Recorder
FLIR	Forward Looking Infrared
FMS	Foreign Military Sales
FOC	Full Operational Capability
FOT&E	Follow-on Operational Test and Evaluation
FRS	Fleet Readiness Squadron
FTD	Flight Training Device
FY	Fiscal Year
GPETE	General Purpose Electronic Test Equipment
GPS	Global Positioning System
GPTE	General Purpose Test Equipment
HMD	Helmet Mounted Display
HMLA	Marine Light Attack Helicopter
HMT	Marine Helicopter Training Squadron
HMX	Marine Helicopter Squadron
HOD	Head-Out Display
HOTT	H-1 Operational Test Team
HSI	Human Systems Integration
HUD	Head-Up Display
HX	Air Test and Evaluation Squadron
IAS	Integrated Avionics Suite

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**LIST OF ACRONYMS**

ICW	Interactive Courseware
IEWS	Integrated Electronic Warfare Suite
IFF	Identification Friend or Foe
IHDSS	Integrated Helmet Display and Sight System
IMA	Intermediate Maintenance Activity
IMC	Integrated Maintenance Concept
IMD/HUMS	Integrated Mechanical Diagnostics/Health and Monitoring System
INS	Inertial Navigation System
IOC	Initial Operational Capability
IOS	Instructor Operator Station
IPT	Integrated Product Team
IR	Infrared
ISS	Interim Supply Support
IT&E	Integrated Test and Evaluation
JCAAR	Joint Common Attack/Armed Reconnaissance
JTF	Joint Task Force
kHz	kilohertz
LAAD	Low Airspeed Air Data
LDS	Laser Detecting Set
LORA	Level Of Repair Analysis
LRIP	Limited Rate Initial Production
LSAR	Logistics Support Analysis Requirements
LWS	Laser Warning System
MAG	Marine Corps Air Group
MAGTF	Marine Air-Ground Task Force
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MFD	Multi-Functional Display
MOS	Military Occupational Specialty
MPT	Manpower, Personnel, and Training
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit

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### LIST OF ACRONYMS

MWS	Missile Warning System
NA	Not Applicable
NAMP	Naval Aviation Maintenance Program
NAS	Naval Air Station
NATEC	Naval Air Technical Data and Engineering Services Command
NATOPS	Naval Air Training and Operating Procedures Standardization
NAVAIR	Naval Air Systems Command
NAVPERSCOM	Navy Personnel Command
NEC	Navy Enlisted Classification
NETC	Naval Education and Training Command
NSD	Navy Support Date
NTIS	Night Thermal Imaging System
NTS	Night Targeting System
NTSP	Navy Training System Plan
NVD	Night Vision Device
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
ORD	Operational Requirements Document
OT&E	Operational Test and Evaluation
PA	Practical Application
PBL	Performance Based Logistics
PDA	Principal Development Activity
PFY	Previous Fiscal Year
PGM	Precision Guided Missile
PJT	Practical Job Training
PMA	Program Manager, Air
PMOS	Primary Military Occupational Specialty
PNEC	Primary Navy Enlisted Classification
POE	Projected Operational Environment
PTT	Part Task Trainer
RADALT	Radar Altimeter
RFT	Ready For Training
ROC	Required Operational Capability
RSDS	Radar Signal Detection System
SA	Supportability Analysis

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**LIST OF ACRONYMS**

SATCOM	Satellite Communications
SCAS	Stability Control Augmentation System
SCORM	Sharable Content Object Reference Model
SDLM	Standard Depot Level Maintenance
SE	Support Equipment
SELRES	Selected Reserves
SMCR	Selected Marine Corps Reserve
SMOS	Secondary Military Occupational Specialty
SNEC	Secondary Navy Enlisted Classification
SRA	Shop Replacement Assembly
STAR SAFIRE	Staring Array Shipboard/Airborne Forward Looking Infrared Equipment
TACAN	Tactical Air Communication and Navigation
TAMMAC	Tactical Moving Map Capability
TAR	Training and Administration of Reserves
TBD	To Be Determined
TD	Training Device
T/O	Table of Organization
T&R	Training and Readiness
TSA	Training Support Activity
TSEC	Transmission Security
TSS	Target Sight System
TTE	Technical Training Equipment
UHF	Ultra High Frequency
UIC	Unit Identification Code
USMC	United States Marine Corps
USN	United States Navy
VHF	Very High Frequency
VMAT	Fixed Wing Marine Attack Training Squadron
VMF	Variable Message Format
VX	Air Flight Test and Evaluation Squadron
WRA	Weapon Replaceable Assembly
WSPD	Weapon System Planning Document
WST	Weapon System Trainer

**H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)****PREFACE**

This Draft Navy Training System Plan (NTSP) for the H-1 Upgrades Program (AH-1Z and UH-1Y) has been updated to comply with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97. This NTSP has been developed to update the previous version, H-1 Upgrades Program (AH-1Z and UH-1Y) NTSP, N78-NTSP-A-50-9602A/A, dated January 2002. Changes and updates are:

- The latest H-1 Upgrades Program training curriculum and Training Device acquisition/development information, as well as a Fleet training transition schedule are included.
- Human Systems Integration (HSI) considerations and the results of Human Factors Engineering analyses are added.
- H-1 Upgrades information, Program Milestones, and schedules are updated.
- Points of Contact are updated.
- The term “Naval Aviation Maintenance Training” (CNATT) has been replaced by the “Center for Naval Aviation Technical Training” (CNATT).

Two variations of the H-1N are currently in use in the services. The UH-1N Helicopter is used by the Marine Corps as a tactical and assault platform and the HH-1N is used by the Navy as a search and rescue vehicle. The HH-1N Helicopter will not receive the four-blade rotor system or combat modifications; therefore, this NTSP primarily addresses the United States Marine Corps (USMC) H-1 Upgrades Program. However, the HH-1N pilot and maintenance training is provided by Marine Helicopter Training Squadron (HMT) 303 Naval Aviation Maintenance Training Marine Unit (CNATT MARUNIT) and HMT-303 Fleet Readiness Squadron (FRS) located at Marine Corps Air Station (MCAS) Camp Pendleton, California. CNATT MARUNIT MCAS Camp Pendleton, in conjunction with the FRS, will be the H-1 Helicopter Model Manager and training site for inter-service training at MCAS Camp Pendleton.

**PART I - TECHNICAL PROGRAM DATA**

**A. NOMENCLATURE-TITLE-PROGRAM**

1. **Nomenclature-Title-Acronym.** H-1 Upgrades Program (AH-1Z and UH-1Y)

2. **Program Element.** 0603266N

**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 (N780F4)

OPO Resource Sponsor..... CNO (N785D1)

Functional Mission Sponsor ..... CNO (N789H)

Marine Corps Program Sponsor ..... CMC (APW-53)

Developing Agency ..... NAVAIR (PMA276)

Training Agency ..... COMLANTFLT (N72, N731)  
 COMPACFLT (N70)  
 CNATT (FID N5)  
 MCCDC (C473)

Training Support Agency..... NAVAIR (PMA205)

Manpower and Personnel Mission Sponsor..... CNO (N12)  
 NAVPERSCOM (PERS-4, PERS-404)  
 CMC (ASM-1, ASL-33)

Director of Naval Training ..... CNO (N00T)

Marine Corps Force Structure..... MCCDC (C53)  
 CMC (ASM-1)

## D. SYSTEM DESCRIPTION

**1. Operational Uses.** The USMC Aviation Plan requires H-1 Helicopters to operate through Fiscal Year (FY) 25 when the Joint Common Attack/Armed Reconnaissance (JCAAR) aircraft is expected to be available. To be operationally effective through FY25, both the AH-1W and UH-1N require performance improvements. The Department of the Navy has determined that the H-1 Upgrades Program is the most cost-effective alternative that meets the Marine Corps attack and utility helicopter requirements until the introduction of the JCAAR aircraft. The H-1 Upgrades Program is a key modernization effort designed to resolve existing safety deficiencies and significantly enhance the operational effectiveness of both the AH-1W and UH-1N Helicopters. One hundred eighty AH-1W and 100 UH-1N Helicopters will be upgraded, remanufactured with a “zero-time” airframe, and re-designated as AH-1Z and the UH-1Y Helicopters. The H-1 Helicopter upgrades include 10,000 flight hour airframes, new completely integrated glass cockpits, and a highly maneuverable and reliable four-bladed rotor system with an upgraded drivetrain common to both models. A major benefit of the H-1 Upgrades Program is the commonality of approximately 84 percent of the major components between the two models. The upgraded and re-designated AH-1Z and UH-1Y Helicopters will not change the operational use of either helicopter. Both helicopters will realize dramatic performance improvements over the existing platforms to include increased range, payload, speed, crash survivability, ballistic tolerance, high altitude, and hot day performance. The AH-1W and the UH-1N Helicopters have, and the AH-1Z and UH-1Y Helicopters will have the following missions:

**a. AH-1Z.** The primary mission of the AH-1Z Helicopter will be to provide armed reconnaissance, combat support, anti-armor, anti-helicopter, and anti-fixed wing defense. This includes threats from surface-to-air missiles, anti-aircraft artillery, and anti-helicopter mines, while also providing landing zone fire suppression, forward and rear area fire support, and search and rescue augmentation. The AH-1Z Helicopter will be an armed tactical helicopter able to control air, artillery, mortar, and naval gunfire support, while capable of operating at night and in adverse weather conditions and capable of operating from ships and remote bases.

**b. UH-1Y.** The primary mission of the UH-1Y Helicopter will be to provide airborne control and coordination for assault support operations, aeromedical evacuation of casualties, and augmented search and rescue assets. The UH-1Y Helicopter will provide combat assault and assault support for evacuation and other maritime special operations; control coordination and terminal guidance for supporting arms to include close air support, artillery, and naval gunfire; armed escort for assault support operations; fire support; and security for forward and rear area forces. The UH-1Y Helicopter will also be capable of operating at night and in adverse weather conditions.

**2. Foreign Military Sales.** Other United States military services and foreign governments with potential interest in the AH-1Z and UH-1Y Helicopters include:

- U.S. Air Force - Joint Interest
- U.S. Navy - Joint Interest
- U.S. Army - Independent Interest

- Taiwan
- Turkey

The Department of Defense (DoD) intends to pursue an aggressive Foreign Military Sales (FMS) program. For information concerning FMS contact Program Manager, Air (PMA) 276, the H-1 Upgrades Program (AH-1Z and UH-1Y) Office.

**E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** The H-1 Upgrades Program is currently undergoing Engineering and Manufacturing Development (EMD)/ Integrated Test and Evaluation (IT&E) flight testing at Air Test and Evaluation Squadron (HX)-21, Naval Air Station (NAS) Patuxent River, Maryland. Three AH-1Z (one AH-1Z Helicopter is not production representative) and two UH-1Y Helicopters began EMD/IT&E testing in FY01 and will be completed in third quarter FY04.

Following the EMD/IT&E test phase, Operational Test and Evaluation (OT&E) will begin, and the direct participation of the contractor in the Flight Test IPT will terminate. OT&E is scheduled to begin in first quarter FY05. The primary site for the H-1 Upgrades Program OT&E will be NAS Patuxent River. During OT&E, the AH-1Z and UH-1Y Helicopters will be operated and maintained by the H-1 Operational Test Team (HOTT), comprised of personnel from Air Flight Test and Evaluation Squadron (VX) 9, Marine Helicopter Squadron (HMX) 1, and fleet augmentation personnel. OT&E for both the AH-1Z and UH-1Y Helicopters will be conducted simultaneously. Follow-on Operational Test and Evaluation (FOT&E) is scheduled to begin in FY05. FOT&E events, scope of testing, and scenarios will be determined in the future.

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

**1. AH-1Z and UH-1Y Common Equipment Additions and Modifications.** The AH-1Z and UH-1Y Helicopter system upgrades consists of improved ergonomic design, communications, navigation, night and adverse weather capability, performance, weapons, and survivability. Identical components include, but are not limited to:

- T700-GE-401/401C Engines
- Main, Tail Rotor, and Intermediate Gearboxes
- Main and Tail Rotor Systems, Composite (ballistically tolerant) Four-Bladed Rotor (Main and Tail Rotors) System, Semi-Automatic Blade Fold System
- Auxiliary Power Unit (APU) and Starter
- Tailboom Empennage
- Integrated Avionics Suites (IAS)
- Dual Redundant Mission and Weapons Computers
- Eight inch by six inch Color Multi-Functional Cockpit Displays (MFD)

- Tactical Moving Map Capability (TAMMAC) Navy Standard Digital Moving Map Set
- Digital Communications System DCS-2000 with Embedded Satellite Communication (SATCOM) Capability
- Embedded Global Positioning System (GPS) and Inertial Navigation System (INS) (EGI) and AN/APX-100 Identification Friend or Foe (IFF)
- Four-Axis Automatic Flight Control System (AFCS)
- Common, Integrated Electronic Warfare (EW) Suites
- Integrated Wiring System
- Integrated Mechanical Diagnostics/Health and Monitoring System (IMD/HUMS)
- Ground-Based Mission Planning
- Crashworthy Crew Seats
- New Hydraulic Components
- Integrated Helmet Display and Sight System (IHDSS)

**2. Aircraft Equipment Comparison.** The following table depicts the production configuration of the AH-1Z and UH-1Y Helicopters.

AIRCRAFT SYSTEMS AND EQUIPMENT	AH-1Z	UH-1Y
<b>Engines</b>		
	T700-GE-401/401C	T700-GE-401/401C
<b>Communications</b>		
Secure Voice	Embedded Communication Security (COMSEC)	Embedded COMSEC
IFF Transponder	RT-1716/APX-100(V)	RT-1716/APX-100(V)
SATCOM	-	AN/ARC-210(V) RT-1794C/ARC AM-7526 and LNA Diplexer MX-11745
Internal Communications	C-11746A/(V)4	C-11746A/(V)4
Ultra High Frequency (UHF) Very High Frequency (VHF) Single Channel Ground and Airborne Radio System	AN/ARC-210 (RT-1794C)	AN/ARC-210 (RT-1794C)

<b>AIRCRAFT SYSTEMS AND EQUIPMENT</b>	<b>AH-1Z</b>	<b>UH-1Y</b>
Secure IFF	Embedded Mode 4 Mode S	Embedded Mode 4 Mode S
<b>Navigation</b>		
Tactical Air Communication And Navigation (TACAN)	RT-1798 AN/ARN-153(V)4	RT-1798 AN/ARN-153(V)4
INS/GPS	CN-1689(V) 13/ASN EGI	CN-1689(V) 13/ASN EGI
Air Data System Primary/Alternate	Low Airspeed Air Data (LAAD) Computer/Air Data Computer (ADC) To Be Determined (TBD)	ADC TBD
Radar Altimeter (RADALT)	Embedded RADALT in EGI	Embedded RADALT in EGI
Mission Data Storage	Advanced Memory Unit (AMU)	AMU
Digital Mapping	TAMMAC	TAMMAC
<b>Flight Instruments</b>		
Vertical Gyro	Standby Attitude Sensor	Standby Attitude Sensor
Encoder Altimeter	Functionality Embedded into Aircraft Wiring Interface Remote Terminal (AWIRTS)	
<b>Aircraft Survivability Equipment</b>		
Electronic System Countermeasures (CM) (ESM) CM Dispensing System	AN/ALE-47	AN/ALE-47
ESM-Radar Signal Detection System (RSDS)	AN/APR-39(V)2	AN/APR-39(V)2
ESM-Laser Warning System (LWS)/Missile Warning System (MWS)	Embedded in AN/AAR-47(V)2	Embedded in AN/AAR-47(V)2
ESM-Infrared (IR) Jammer	TBD	TBD

<b>AIRCRAFT SYSTEMS AND EQUIPMENT</b>	<b>AH-1Z</b>	<b>UH-1Y</b>
Forward Looking Infrared (FLIR) System	AN/AAQ-30 Target Sight System (TSS)	Night Thermal Imaging System (NTIS) AN/AAQ-22C Staring Array Shipboard/Airborne Forward Looking Infrared Equipment (STAR SAFIRE) or AN/AAQ-22D BRITESTAR
<b>Displays/Controls</b>		
Head-Up Display (HUD)	Helmet Mounted Display (HMD)	HMD
Mission Computer	Litton 8920570	Litton 8920570
MFD	Collins 998-5385-001	Collins 998-5385-001
Limited Functional Display	Collins 998-3142-001	Collins 998-3142-001
<b>Weapon Control</b>		
Armament Control	MFD	-
Sight System	HMD	HMD
Gun Turret System	A/A49-7(V)4	-
Hellfire Missile System	AGM-114 Hellfire Missile (with M299 Launcher)	-
AIM-9/122 Missile System	AIM-9/122A Missile System (with LAU-7 Launcher and ADU-299 Series Missile Launcher Adapter)	-
Stores Management System	Smith Industries 173949/80594	-
Machine Gun	M-197 w/Linkless Feed	M-240D (7.62mm) GAU-16/A (.50 Cal) GAU-17A (7.62mm)
Rockets (2.75 inch)	LAU-61/68 Launchers	LAU-61/68 Launchers
Rockets (5.00 inch)	LAU-10 Launcher	LAU-10 Launcher
Bomb Racks	BRU-59/A	BRU-59/A
<b>Miscellaneous</b>		
A/D Converter	AWIRT	AWIRT

AIRCRAFT SYSTEMS AND EQUIPMENT	AH-1Z	UH-1Y
Digital Data Loader/ Flight Data Recorder (FDR)	AMU	AMU
Maintenance Data Recorder	IMD/HUMS	IMD/HUMS
Video Recorder	TEAC VCR V-80AB-F-NTSC	TEAC VCR V-80AB-F-NTSC
Search, Spot, Landing Lights	IR/White Spot/Landing Light	IR/White Spot/Landing Light
Operational Flight Program/Software Build	Build 4.X	Build 4.X

## G. DESCRIPTION OF NEW DEVELOPMENT

**1. Functional Description.** The AH-1Z and UH-1Y Helicopters will be remanufactured concurrently by Bell Helicopter Textron Incorporated (BHTI). The goal of the USMC H-1 Upgrades Program (AH-1Z and UH-1Y) is to achieve a platform that meets the growing needs of the Marine Corps at an affordable cost. The AH-1Z and UH-1Y will incorporate a common engine, APU, four-bladed main and tail rotor system, transmission, drivetrain, rotor drive, and tail boom. The purpose of these modifications is to achieve commonality in models, thereby reducing logistics support, maintenance workload, and training requirements. The replacement of the two-bladed rotor system with a common four-bladed rotor system will achieve improved performance, reliability, and maintainability. The addition of an IR suppresser to the helicopters will improve survivability.

**a. AH-1Z.** The AH-1Z Helicopter upgrade will improve helicopter performance, survivability, availability, and maintainability. Further, the AH-1Z will reduce Pilot workload and fully integrate state-of-the-art weapons, communication, and navigation systems. The AH-1Z will also include the Cockpit Integration Development (CID). CID will result in near mirror image crew stations for the AH-1Z, simplifying operator and maintainer training. CID will also integrate communications, fire control, navigation, and Night Targeting System (NTS). The AH-1Z will incorporate a new TSS that uses a third generation FLIR detector and an automatic bore sight. The automatic bore sight will be incorporated into the EGI system, providing precise weapons delivery.

Other AH-1Z Helicopter unique components include the Hellfire II Electro-Optical Counter Countermeasure (alternate laser coding). The AH-1Z will improve and upgrade engine, drivetrain, rotor system, and gearbox components, providing the following performance capabilities: a payload sufficient to enable a wide variety of ordnance and external fuel configurations and an attack payload of 2,500 pounds (3,500 pounds is desired). The AH-1Z maneuverability and agility will be sufficient to enhance obstacle avoidance and defensive maneuvers against threat systems while operating in nap of the Earth and Terrain Flight. It will have a minimum maneuverability and agility “G” range of -0.5 to +2.5 with an attack payload.

AH-1Z airspeed will be sufficient to maintain airspeed compatibility with existing Marine Corps Assault Support Helicopter forces. A cruise speed with an attack to 140 knots and a dash speed of 160 knots are an objective. The AH-1Z will also have full shipboard compatibility to include a blade-fold system. The AH-1Z Helicopter acquisition requirements and improvements also include:

**(1) Ergonomic and Safety Cockpit Design.** The ergonomic and safety cockpit design will:

- Enhance situational awareness through Human Engineering cockpit design in the consolidation and placement of multiple control panels for communication, navigation, mission support, and weapon systems management.
- Fully integrate mission management avionics to include communication, navigation, flight systems, EW systems, tactical targeting, and the weapons system. The AH-1Z will have an onboard data processing capability, digital target data system, fire control, and weapons management system.
- Ensure a fully integrated, Night Vision Device (NVD)-compatible, glass cockpit to enhance situational awareness. The AH-1Z cockpit will be capable of displaying consolidated information from weapon, navigation, and communication systems on MFD screens.
- Integrate navigational and targeting FLIR imagery capabilities.
- Display critical mission and system performance information via HUD/Head-Out Display (HOD) systems.
- Enhance the coupled approach, hover, and wave-off capability to enable the helicopter to perform all missions in day, night, and adverse weather conditions.
- Integrate a ground proximity and low altitude warning system that is capable of vertical and forward looking obstacle avoidance that integrates airspeed, rate of descent, power requirements, and altitude information for a HUD/HOD. The system will be compatible with NVDs and FLIR displays for terrain flight profiles during day or night operations and in adverse weather conditions.
- Incorporate a Flight Incident Recorder (FIR) and FDR.
- Incorporate an IMD/HUMS System.

**(2) Communication.** The AH-1Z communication systems will include:

- UHF, VHF, Amplitude Modulation and Frequency Modulation (AM/FM), and a DoD established joint-use radio.

- Secure data communications circuits. Circuits will be compliant with the Joint Staff directive to be demand assigned, multiple access capable, and five-kilohertz (kHz) compatible.
- Fully integrated, secure voice and data burst communications capable of processing targeting information in an ESM environment.
- Variable Message Format (VMF) digital modem with software and a joint interoperable datalink circuit capable of transmitting, receiving, and displaying digital information simultaneously from aircraft or ground units of the Marine Air-Ground Task Force (MAGTF) and Joint Task Force (JTF).

**(3) Navigation.** The AH-1Z navigation systems will include:

- A pre-programmable, fully integrated, long-range, self-contained precision navigation system.
- A mission planning system with the following capabilities: pre-mission aircraft data loading, manual in-flight updates to navigation and mission plan, a TAMMAC display with depiction of threat systems along intended flight profiles, and information updates via data burst transmissions to accommodate digital target data systems.

**(4) Night and Adverse Weather Capability.** The AH-1Z night and adverse weather capability will include:

- A lightweight, navigational FLIR tactical day and Night Targeting System (NTS) with Laser Range Finder and designator, and an enhanced night and adverse weather Pilot assist capability. HUD/HOD helmet mounted display capability is desired.
- NVD compatible cockpit, external formation, blade tip, and anti-collision lighting.

**(5) Weapons.** The AH-1Z will be capable of offensive air support throughout its full mission spectrum. The upgraded gun system and fire control enhancements will improve weapon reliability, maintainability, and effectiveness. Weapon system improvements include:

- Increased wing stores stations (from the current configuration of four) to six wing stations, four of which are universal.
- The capability to carry 12 Precision Guided Missiles (PGM) (16 PGMs are desired).
- An upgraded gun system capable of a low rate of fire of 600 to 750 rounds per minute, and a high rate of fire of 1,200 to 1,500 rounds per minute. Increased onboard ammunition storage capability of at least 1,000 rounds is desired.
- NVD-FLIR compatible pointing system for the Pilot and Gunner to calculate "point-of-aim" and "point-of-impact" with Helmet Sight Subsystem.

**(6) Survivability.** The AH-1Z will provide improved airframe ballistic tolerance, aircrew protection, and reduced vulnerability. Survivability improvements include:

- Airframe ballistic tolerance against 12.7-millimeter (mm) artillery, with an improved ballistic tolerance for flight critical systems.
- Integrated active and passive countermeasures for an autonomous self-protection capability, to include cost-effective low observable radar, IR, and acoustic features.
- Ensure aircrew protection from advanced, directed energy weapon technology through the combination of crew equipment and hardening of flight critical sensors and mission support systems.
- Incorporate stroking, crashworthy Pilot seats. A crashworthy internal fuel system is required; a crashworthy internal and external fuel system is desired.
- Incorporate landing gear improvements to sustain maximum gross weight shipboard and land-based operations, while maximizing gross weight for towing operations.

**(7) Electronic Countermeasures.** The Electronic Countermeasures (ECM) will be performed in the most practical combination for signature management. The AH-1Z must provide an integrated EW suite, free of Electromagnetic Interference (EMI) with all systems operating, to include the following:

- MWS receiver.
- Increased capacity to carry expendables.
- Radar/plume detector and laser warning.
- Receivers capable of integrated operations with expendables in a dense signal environment.
- Missile approach warning system with selectable and automatic capabilities.
- Reduced IR and acoustic signature.
- Reduced vulnerability and susceptibility to radar threats.

**b. UH-1Y.** The UH-1N to the UH-1Y Helicopter upgrade will improve safety, performance, survivability, availability, and maintainability. Further, the UH-1Y will reduce Pilot workload and fully integrate state-of-the-art avionics, communication, navigation, and defensive weapons systems. The UH-1Y will include the upgraded version of the NTIS, BRITESTAR, and the AN/AVS-7 Night Vision Goggles-HUD carried forward from the UH-1N. The BRITESTAR navigation FLIR will also incorporate a third generation FLIR detector.

The UH-1Y Helicopter will improve and upgrade engine, drivetrain, rotor system, and gearbox components as required, to provide the following performance capabilities: a payload sufficient to fulfill the wide range of utility missions and a utility payload of 2,800 pounds (4,500 pounds is desired). The UH-1Y maneuverability and agility will be sufficient to enhance obstacle avoidance and defensive maneuvers against threat systems while operating in nap of the Earth and Terrain Flight. It will have a minimum maneuverability and agility “G” range of  $-0.5$  to  $+2.5$  with a utility payload. The airspeed will be sufficient to maintain airspeed compatibility with existing Marine Corps Assault Support Helicopter forces; a cruise speed in a slick configuration of 140 knots is required (165 knots desired). The UH-1Y cargo doors must be structurally rated to withstand the normal operating airspeed limitations of the helicopter in either an open or closed configuration. The UH-1Y will also have full shipboard compatibility to include a blade-fold system. UH-1Y upgrade acquisition requirements and improvements include:

**(1) Ergonomic and Safety Cockpit Design.** The UH-1Y ergonomic and safety cockpit design will:

- Enhance situational awareness through human engineering cockpit design in the consolidation and placement of multiple control panels for communication, navigation, mission support, and weapon systems management.
- Fully integrate mission management avionics, to include communication, navigation, flight systems, EW systems, tactical targeting, and weapon systems.
- Integrate an onboard digital target data system, fire control, data processing capability, and weapons management system.
- Incorporate a fully integrated, NVD-compatible cockpit capable of displaying consolidated information from navigation, communication, and defensive weapon systems on MFD screens.
- Integrate navigational and targeting FLIR imagery capabilities.
- Display critical mission and system performance information via HUD/HOD systems.
- Enhance the coupled approach, hover, and wave-off capability to enable the helicopter to perform all missions in day, night, and adverse weather conditions.
- Integrate a ground proximity and low altitude warning system and altitude information for a HUD/HOD.
- Integrate a system that is NVD and FLIR compatible.
- Incorporate a FIR and FDR.
- Incorporate an IMD/HUMS System.

**(2) Communication.** The UH-1Y communication systems will include:

- UHF, VHF, AM/FM, and SATCOM using a DoD established joint-use radio.
- Aircraft intercom.
- Secure data communications circuits. Circuits must be compliant with the joint staff directive to be demand assigned, multiple access capable, and five-kHz compatible.
- Fully integrated, long-range secure voice and data burst communications, including targeting information in an ECM environment.
- VMF digital modem with software and a joint interoperable datalink circuit capable of transmitting, receiving, and displaying digital information simultaneously from aircraft or ground units of the MAGTF and JTFs.

**(3) Navigation.** The UH-1Y navigation systems include:

- A pre-programmable, fully integrated, long-range, self-contained precision navigation system.
- A mission planning system with the following capabilities: pre-mission aircraft data loading, manual in-flight updates to navigation and mission plans, a digital moving map situational display, and information updates via data burst transmissions to accommodate digital target data systems.

**(4) Night and Adverse Weather Capability.** The UH-1Y night and adverse weather capability will include:

- An integrated, lightweight, navigational FLIR with enhanced night and adverse weather pilot assist capability.
- A tactical day and night sensor system.
- A laser designator/range finder and NVD-visible laser pointer.
- NVD-compatible cockpit lighting and external formation, blade tip, and anti-collision lighting.
- A full HUD/HOD helmet mounted display capability is desired.

**(5) Weapons.** The UH-1Y will be capable of self-protection throughout its full mission spectrum. The UH-1Y weapon systems improvements include:

- An NVD-compatible gun sighting system useable by Pilots, Crew Chiefs, and Aerial Gunner/Observer (AGO) that will increase crew served weapon accuracy and effectiveness.

- A light (7.62 mm) gun system with a minimum rate of fire of 1,500 rounds per minute and a heavy (.50 caliber) pintle-mounted gun system. Total weight of the gun system will not exceed 600 pounds.
- Provide “point-of-aim” and “point-of-impact” accuracy without the aid of tracer rounds.
- An external stores system capable of carrying fuel tanks, 2.75-inch rocket pods, and crew served weapons. Two hard mounts are required and a follow-on universal mount capable of accepting weapons or fuel is desired.

**(6) Survivability.** The UH-1Y Helicopter will provide improved airframe ballistic tolerance, aircrew protection, and reduced vulnerability. Survivability improvements include:

- Ballistic tolerance against 12.7 mm artillery, helicopter survivability to standard threats up to 23 mm shells, and improved ballistic tolerance for flight critical systems.
- Integrated active and passive countermeasures for an autonomous self-protection capability, to include cost-effective low observable radar, IR, and acoustic features.
- Aircrew protection from advanced, directed energy weapon technology through the combination of crew equipment and hardening of flight critical sensors and mission support systems.
- Incorporate stroking, crashworthy pilot seats. A crashworthy internal fuel system is required. A crashworthy internal and external fuel system is desired.
- Incorporate landing gear improvements to sustain maximum gross weight shipboard and land-based operations, while maximizing gross weight for towing operations.

**(7) Electronic Countermeasures.** ECM will be performed in the most practical combination for signature management. The UH-1Y will provide an integrated EW suite, free of EMI with all systems operating, to include:

- MWS receiver.
- Increased capacity to carry expendables.
- Radar/plume detector and laser warning.
- Receivers capable of integrated operations with expendables in a dense signal environment.
- Missile approach warning system with selectable and automatic capabilities.
- Reduced IR and acoustic signature.

- Reduced vulnerability and susceptibility to radar threats.

**(8) Landing Gear and Airframe.** The skid type landing gear will be upgraded to withstand a 12-foot per second vertical sink rate. The tail boom will be modified with a more effective elevator and will be common for both helicopters. The UH-1Y airframe length will be increased approximately 10 to 15 inches to accommodate avionics equipment.

## 2. Physical Description

PARAMETER	AH-1W	AH-1Z	UH-1N	UH-1Y
Empty Weight (pounds)	10,920	12,200	7,345	11,400
Maximum Gross Weight (pounds)	14,750	18,500	10,500	18,500
Maximum Useful Load (pounds)	3,828	6,300	3,155	7,100
Internal Fuel (pounds)	2,086	2,766	1,381	2,584
Maximum Continuous Power (knots)	129	146	110	148
Maximum Range (nautical miles) *	280	370	230	350
Endurance Hours (hours) *	2.8	3.5	2.18	3.2
Maximum Gs	+2.5	+3.0	+2.4	+3.0
Minimum Gs	+0.5	-0.5	+0.5	-0.5

\* 20-minute reserve fuel

**3. New Development Introduction.** The new equipment will be introduced through the H-1 Upgrades Program (AH-1Z and UH-1Y). The program entails remanufacturing the USMC fleet of AH-1W and UH-1N Helicopters to an advanced configuration featuring common engines and flight dynamics. These helicopters will have “zero-time” airframes remanufactured with the latest technology. BHTI will use cost as an independent variable, commercial practices, Commercial Off-The-Shelf (COTS) items, and non-developmental item. The installation of the new equipment will be performed at the contractor’s facilities in Fort Worth, Texas.

**4. Significant Interfaces.** NA

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

## H. CONCEPTS

**1. Operational Concept.** The AH-1Z and UH-1Y Helicopters will be operated in the exact same capacity as the AH-1W and UH-1N Helicopters which are operated from MCASs, forward bases overseas, and the following ships: Landing Ship Dock, Amphibious Transport Helicopter, Amphibious Assault Ship Helicopter, and Amphibious Assault Ship Multipurpose. AH-1Z and UH-1Y Helicopters operational and training missions will be flown continuously by six Marine Helicopter Light Attack (HMLA) squadrons and one HMT squadron. The operational squadrons will be assigned to four Marine Corps Air Groups (MAG). Additionally, two Detachments (DET) of MAG of the Marine Corps Reserve Component, and Marine Helicopter Squadron (HMX) 1 located at MCAS Quantico, Virginia also utilize the AH-1W and UH-1N Helicopters. Marine Aviation Logistics Squadron (MALS) and reserve MALS units provide HMLA squadrons support. HMLA squadrons consist of 18 AH-1W and nine UH-1N helicopters, and are deployed in detachments consisting of six AH-1W and three UH-1N helicopters.

The AH-1Z Helicopter will be operated by Marine Corps Pilots with Military Occupational Specialty (MOS) 7565. The UH-1Y Helicopter will be operated by Marine Corps Pilots with MOS 7563. Additionally, the UH-1Y Helicopter will also employ an enlisted Crew Chief MOS 6174, and depending on the mission, an enlisted aircrew AGO is employed (MOS 6174 AGO qualified).

**2. Maintenance Concept.** General direction and guidance concerning the maintenance concept for the AH-1Z and the UH-1Y Helicopters is provided by the Naval Aviation Maintenance Program (NAMP), OPNAV Instruction (OPNAVINST) 4790.2 series. The NAMP prescribes the concept of three levels of maintenance: organizational, intermediate, and depot. The AH-1Z and UH-1Y Helicopter maintenance concept will be based on these three levels of maintenance. An H-1 Upgrades Program Level Of Repair Analysis (LORA) is currently being performed concurrently with the EMD/IT&E phase. During EMD/IT&E testing and prior to complete development of the product support, the contractor except for OT&E is maintaining the system. During OT&E, the Marine Corps organizational level maintenance personnel will maintain the AH-1Z and UH-1Y Helicopters. Contractor assistance will include intermediate and depot level maintenance repair. Contractor organizational level maintenance support will end after OT&E. However, the contractor will continue to provide intermediate maintenance support until the Material Support Date (MSD) is attained FY10, and depot level support until the Navy Support Date (NSD) is attained FY12. At that time AH-1Z and UH-1Y Helicopter organizational, intermediate, and depot level maintenance will have been established in accordance with OPNAVINST 4790.2 series.

**a. Organizational.** AH-1Z and UH-1Y Helicopter organizational level maintenance will be performed by USMC enlisted maintenance personnel on a day-to-day basis in support of HMLA operations. These actions will include inspections, servicing, handling, fault isolation, removal and replacement of Weapon Replaceable Assembly (WRA) or major aircraft components, and on-helicopter corrective maintenance and repairs. Built-In Test (BIT)

equipment will be used to the maximum extent. Organizational level maintenance will be performed by Marine Corps enlisted personnel from various aviation maintenance ratings.

**(1) Preventive Maintenance.** AH-1Z and UH-1Y Helicopter preventive maintenance will be the care and servicing needed to maintain aircraft equipment, Support Equipment (SE), and facilities in satisfactory operating condition by providing for systematic inspection, detection, and correction of maintenance failures either before they occur or before they develop into major defects. Preventive maintenance on the AH-1Z and UH-1Y Helicopters will be conducted at specific intervals per established procedures outlined by Maintenance Requirement Card decks.

**(2) Corrective Maintenance.** Corrective maintenance will be the set of actions needed to maintain aircraft equipment and SE to improve, change, or restore their capability to perform specific missions or functions by replacement, removal, addition, alteration, or repair of parts, equipment, or aircraft without particular regard to flying hours, operating hours, calendar days, or operating periods. Corrective maintenance will include, but will not be limited to, modification, repair, and unscheduled inspection, replacement, or testing. The AH-1Z and UH-1Y Helicopter corrective maintenance procedures will encompass aircraft repair and the replacement of WRA determined as faulty by use of BIT or procedural troubleshooting.

**b. Intermediate.** Intermediate level maintenance in support of the AH-1Z and UH-1Y Helicopters will be performed by MALS designated for AH-1Z and UH-1Y Helicopter support of Marine Aircraft Groups. Maintenance at the intermediate level will be conducted per specific instructions contained in the maintenance instruction manuals for each aircraft system. Intermediate maintenance consists of repair, test, and calibration of WRAs, Shop Replacement Assemblies (SRA), and SE. The designated AH-1Z and UH-1Y Helicopter MALS are:

- MALS-24
- MALS-26
- MALS-29
- MALS-36
- MALS-39

The MALS also perform first-degree repairs on the T700-GE-401/401C Engines. The contractor is currently performing a LORA for H-1 Upgrades Program system repair candidates as part of the 300-Level Supportability Analysis (SA). For commercial items that have an existing maintenance concept, that concept will continue to be used. During Limited Rate Initial Production (LRIP), due to a change in support concept, those items will be re-evaluated utilizing economic criteria, and organic capabilities will be developed to the greatest extent possible. This information will be updated in future iterations of this NTSP.

**c. Depot.** Depot level maintenance will consist of major overhaul or complete rebuilding, manufacture, or modification of parts, assemblies, subassemblies, and end items that are beyond the capabilities of Intermediate Maintenance Activities (IMA). Naval Aviation

Depot Cherry Point, North Carolina, is the coordinating depot for AH-1Z and UH-1Y Helicopters.

**d. Interim Maintenance.** BHTI will provide interim support until the MSD is achieved in FY10. BHTI will also provide Contractor Engineering Technical Services (CETS) for one year after initial fielding of the AH-1Z and UH-1Y Helicopters, including engineering liaison and logistics support (sustaining). Naval Air Technical Data and Engineering Services Command (NATEC) Naval Engineering Technical Specialists will support the AH-1Z and UH-1Y Helicopters after one year of CETS support.

**e. Life Cycle Maintenance Plan.** The AH-1W and UH-1N Helicopters no longer utilizes the Standard Depot Level Maintenance (SDLM) process. The SDLM concept for both aircraft was replaced by the Integrated Maintenance Concept (IMC). Under Integrated Maintenance Plans, the AH-1Z and UH-1Y Helicopters will receive required maintenance on a 78-month calendar period. AH-1Z and UH-1Y Helicopters IMC will be divided by three separate 26-month phase intervals thus providing 24-months of operational service to the HMLAs. AH-1Z and UH-1Y Helicopters will be inducted at one of the following four IMC locations:

- MCAS Futenma, Japan
- MCAS Camp Pendleton
- Corpus Christi Army Depot
- MCAS Cherry Point, North Carolina

**3. Manning Concept.** Qualitative and quantitative manpower requirements for the AH-1Z and UH-1Y Helicopters will be driven by total preventive and corrective maintenance requirements and the Required Operational Capabilities/Projected Operational Environment (ROC/POE). The number of positions requiring manning for deploying squadrons are dictated by a deployment workload demanding 24-hour organizational level servicing during cyclic flight operations with a basic watch condition consisting of two sections, each responsible for a 12-hour period. Maintenance personnel requirements were derived from analysis of projected AH-1Z and UH-1Y Helicopters reliability and maintainability data and predecessor system ROC/POE data. AH-1W and UH-1N manpower requirements are contained in the HMLA and MALS Tables of Organization (T/O). The following table depicts HMLA squadrons, MALS, and infrastructure T/O.

ACTIVITY	T/O
HMLA Squadrons	8970
HMLA-775 MCAS Camp Pendleton, California	8970A
HMLA-775 MCAS Belle Chase, Louisiana	8970B
HMLA-773 NAS Atlanta, Georgia	8970C

ACTIVITY	T/O
HMLA-775 NAS Johnstown, Pennsylvania	8970D
MALS Rotary Wing	8910
MALS-42 NAS Atlanta, Georgia	8910A
MALS-49 MCAS Fort Stewart, New York	8910B
HMX-1 MCAS Quantico, Virginia	8990
HMT-303 MCAS Camp Pendleton, California	8590

HMLA squadrons will receive 18 AH-1Z and 9 UH-1Y Helicopters, while HMT-303 will receive 20 AH-1Z and 10 UH-1Y Helicopters. Units in the infrastructure that provide support are MALS-39 at Camp Pendleton, MALS-26 and MALS-29 at New River, North Carolina, and MALS-36 located in Okinawa, Japan. The Reserve MALS that provide support are MALS-42 at NAS Atlanta, Georgia, and MALS-46 at MCAS Camp Pendleton. It was determined that the AH-1Z and UH-1Y Helicopters will not change the operational use or generate a need for additional skills. AH-1W and UH-1N squadron manpower was taken from the Marine Corps Total Force Structure in October 2003. Total officer and enlisted personnel are depicted in the following table:

SQUADRON	OFFICERS	ENLISTED
HMT-303 FRS	7	288
HMLA (18 AH-1W and 6 UH-1N) (Two Active Duty Squadrons: HMLA-167, HMLA-269)	72	369
HMLA (Six AH-1W and three UH-1N) (Two Reserve DETs: HMLA-773 Det, HMLA-775 Det)	20	120
HMLA-773 Reserve Squadron	52	266
HMLA (18 AH-1W and 6 UH-1N) (Four Reserve Squadrons: HMLA-169, HMLA-267, HMLA-367, HMLA-369)	72	389
HMLA-775 Reserve Squadron	50	266
HMX-1	95	612

**4. Training Concept.** Training system life cycle support for the H-1 Upgrades Program will be provided through a combination of contractors, Government civilians, and active duty military. This support includes in-service engineering, operation and maintenance of Training Devices (TD), revisions and maintenance of curriculum, and schoolhouse instruction. Currently, maintaining the AH-1W and UH-1N training material consists of replacing and modifying existing curriculum. Additionally, there is a limited number of AH-1W and UH-1N Helicopter Computer-Based Training (CBT) assets used to present courseware material in the classroom; thus, PowerPoint presentations are the most common media utilized for instructional purposes. The introduction of the AH-1Z and UH-1Y Helicopter training material into CNATT MARUNIT MCAS Camp Pendleton will include the delivery of electronic classrooms and Learning Resource centers. The exact configuration and numbers to be delivered have not yet been determined. However, it will include a high speed central processing unit, desktop front lens projector, cordless mouse, and electronic whiteboard with print capability and electronic interface to store information written on the whiteboard. The AH-1Z and UH-1Y Helicopter aircrew and maintenance training curriculum will be developed in FY05, and delivered to HMT-303 and CNATT MARUNIT MCAS Camp Pendleton in FY08.

**a. Aircrew.** AH-1Z and UH-1Y Helicopter Pilot and enlisted Crew Chief training is dictated by Marine Corps Order (MCO) P3500.16C, Aviation Training and Readiness (T&R) Manual. Aircrew will receive H-1 familiarization, ground training, and approximately sixty percent of their combat training at HMT-303 MCAS Camp Pendleton, then continue on to their permanent HMLA squadrons to complete combat and qualifications training. Aircrew refresher (Category 3) and modified refresher (Category 4) training are conducted depending on how long the aircrew member has been without H-1 proficiency training. Additionally, UH-1Y Helicopter enlisted aircrewman will attend Course Identification Number (CIN) *M-601-2014, AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance*, as part of their Phase I Aircraft/Ground Training prior to starting the HMT-303 Phase II Flight Training syllabus.

**b. Maintenance.** AH-1Z and UH-1Y Helicopters maintenance follow-on training will be provided by the CNATT MARUNIT MCAS Camp Pendleton, resulting in the award of an MOS. Additionally, United States Navy (USN) enlisted personnel attached to CNATT MARUNIT MCAS Camp Pendleton will assist in instructing the AH-1Z and UH-1Y Helicopters organizational level maintenance follow-on training and intermediate level maintenance at various Naval Air Maintenance Training Units (CNATTU) and Maintenance Training Units (MTU).

The established training concept for most aviation maintenance training divides "A" School courses into two or more segments called *Core* and *Strand*. Many organizational level "C" School courses are also divided into separate *Initial* and *Career* training courses. "A" School *Core* courses include general knowledge and skills training for the particular rating, while "A" School *Strand* courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student's fleet activity destination. *Strand* training immediately follows *Core* training and is part of the "A" School.

Marine Corps graduates of *Core* and *Strand* "A" school attend the appropriate *Career* "C" School for additional training on a specific type of aircraft or equipment, and to

enhance skills and knowledge within their field. Marine Corps graduates from “C” School receive their primary MOS. Intermediate level “C” Schools are not separated into *Initial* and *Career* courses.

**c. Human Performance.** During the 1970s and 1980s when the UH-1N and AH-1W Helicopters was procured, a modified Instructional Systems Design approach of tasks and learning analysis was performed during the Logistics Support Analysis. UH-1N and AH-1W Helicopter training and media were developed based on human performance requirements and training technology at that time.

**d. Training System Management and Support.** The training courseware and media have been updated over the ensuing years to maintain UH-1N Aircraft configuration concurrence through the Naval Air Systems Command (NAVAIR) Engineering Change Proposal (ECP) process. The ECP process, in accordance with NAVAIR Instruction 4130.1C, is utilized to initiate upgrades to operational and training systems and allows for inputs to the affect on the human and Manpower, Personnel, and Training (MPT). All new ECPs take into consideration the human-machine interface for operators, maintainers, and support personnel. The UH-1N Aircraft courseware configuration control is maintained by the Course Model Manager, CNATT MARUNIT MCAS Camp Pendleton.

**e. Training Delivery Method and Evaluation.** The H-1 Upgrades Program Pilot training will include an integrated sequence of CBT, simulator exercises, and flight regimes. It will consist of both self-paced lessons and instructor presented phase lectures. Maintenance training will include a blend of Interactive Courseware (ICW) and paper-based instruction. The existing courses were developed prior to promulgation of the Sharable Content Object Reference Model (SCORM), and have not been updated to SCORM conformance. Upon modification to the UH-1Y and AH-1Z Helicopter configurations, all courseware will be updated and made SCORM conformant where applicable. All future CBT, Computer-Aided Instruction (CAI), and ICW training material will conform with the technical standards to run in the intended environment, i.e., classroom, automated electronic classroom or learning resource center, Navy e-learning, Aviation Maintenance Training Continuum System (AMTCS), or desktop (Navy Marine Corps Intranet ashore or Information Technology for the 21st Century afloat).

The Naval Education and Training Command (NETC) (via Chief of Naval Education and Training Instruction 1500.30) established policy, procedures, and responsibility for the administration and operation of the NETC training feedback program. This program provides a web-based homepage template containing a training feedback form icon. Each school is to develop a form following this format with a link back to the NETC homepage at <https://www.cnet.navy.mil>. This web page form is used to receive feedback on any training issue, training concerns, or to make recommendations that are general in nature. A fleet partnership program is established to maintain a close relationship with representative samples of AH-1W and UH-1N Helicopter operators and maintainers to evaluate the quality of the trained graduates and the relevance of skills trained. As aircrew and maintainers for the AH1Z and UH-1Y Helicopters complete training they will provide feedback.

**f. Initial Training.** Training on new systems can be broken down into two types, initial training and follow-on training. AH-1Z and UH-1Y Helicopter initial training will cover the training prior to and up to fielding the first systems, while follow-on training will include the incorporation of the new system into schoolhouse training. AH-1Z and UH-1Y Helicopter initial training will consist of OT&E Training, and Cadre Training.

AH-1Z and UH-1Y Helicopter OT&E training will have two functions. The first function will be to train the OT&E personnel on operation and maintenance of the AH-1Z and UH-1Y Helicopter system being tested, so they will be qualified to operate the system during testing. The second function will be to evaluate the training and recommend any changes necessary to make the training suitable for the Fleet. BHTI will provide AH-1W/Z and UH-1N/Y Helicopter difference training prior to OT&E in August 2004 at NAS Patuxent River to the HOTT. The HOTT consists of 12 experienced AH-1W and UH-1N Pilots and Crew Chiefs, and 55 maintenance personnel, who will then participate in OT&E. The OT&E training will primarily provide difference data training between the AH-1W/Z and UH-1N/Y Helicopters.

Cadre training (“training the trainers”) will be provided to a small group of instructors, both aircrew and maintenance. This cadre of instructors will establish a program to train the personnel that will be introducing the new system into the Fleet. Cadre training will be developed from OT&E training through OT&E input. NATEC representatives and HMT-303/CNATT MARUNIT MCAS Camp Pendleton instructors will also attend cadre training, and begin to integrate the new system into the schoolhouse curriculum for follow-on training. AH-1Z and UH-1Y Helicopter Cadre training will occur at HMT-303 MCAS Camp Pendleton prior to the delivery of the AH-1Z and UH-1Y Helicopters to the Fleet, and is scheduled for FY06.

(1) Aircrew

<b>Title.....</b>	<b>H-1 Pilot Training</b>
Description .....	<p>This course will provide AH-1Z and UH-1Y difference data (AH-1W and UH-1N) flight training for OT&amp;E maintenance personnel including:</p> <ul style="list-style-type: none"> <li>◦ Cockpit Management System (CMS)</li> <li>◦ IAS/Mission Management</li> <li>◦ Airframes/Hydraulic/Flight Control Systems</li> <li>◦ Power Train, Rotors, and Related Systems</li> <li>◦ Electrical and Avionics Systems</li> <li>◦ APU Operations/Indications</li> <li>◦ Communication Systems</li> <li>◦ TSS/NTIS/HMD</li> <li>◦ Integrated Electronic Warfare Suite (IEWS) Components and Controls</li> <li>◦ Navigation/Moving Map System</li> <li>◦ Fuel Management</li> <li>◦ AFCS/Stability Control Augmentation System (SCAS) and EW Systems</li> <li>◦ Armament/Fire Control Systems</li> </ul> <p>Upon completion, the graduate will be able to perform as an H-1 Pilot during OT&amp;E.</p>
Delivery Method .	<p>Total Course of Instruction .....149 hours          Instructor-Led Classroom .....56 hours          Instructor-Led with CAI .....0 hours          ICW (not Instructor-Led).....0 periods          PA/Laboratory .....0 hours          Total PJT (Flight Time).....93 hours</p>
Length.....	26 days
Location.....	HX-21, NAS Patuxent River
RFT Date .....	August 2004
Prerequisite.....	<ul style="list-style-type: none"> <li>◦ MOS 7563</li> <li>◦ MOS 7565</li> <li>◦ MOS 6174</li> </ul>

(2) Maintenance

Title.....	<b>H-1 Power Trains, Rotors, and Related Systems Difference Data Maintenance Training</b>
Description .....	<p>This course will provide AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for OT&amp;E maintenance personnel including:</p> <ul style="list-style-type: none"> <li>◦ CMS Displays and Controls System Maintenance</li> <li>◦ Forward/Aft Drive Train System Maintenance</li> <li>◦ Main Rotor and Tail Rotor Hub, Control, and Blade Fold System Maintenance</li> <li>◦ Fuel System Maintenance</li> <li>◦ CMS Interface with Fuel System Maintenance</li> <li>◦ Warning, Caution, and Advisory System Operation</li> <li>◦ APU Operation, Maintenance, and Troubleshooting</li> <li>◦ Ground Handling and Aircraft Inspections</li> <li>◦ Safety</li> </ul> <p>Upon completion the graduate will be able to perform maintenance during OT&amp;E.</p>
Delivery Method .	<p>Total Course of Instruction ..... 140 hours          Instructor-Led Classroom ..... 50 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 0 hours          PJT (On-Aircraft Repair)..... 90 hours</p>
Length.....	25 days
Location.....	HX-21, NAS Patuxent River
RFT Date .....	August 2004
TTE/TD .....	TBD
Prerequisite.....	MOS 6114

<b>Title.....</b>	<b>H-1 Airframe and Hydraulic Systems Difference Data Maintenance Training</b>
<b>Description .....</b>	<p>This course will provide AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for OT&amp;E maintenance personnel including:</p> <ul style="list-style-type: none"> <li>◦ CMS Displays and Controls Operation</li> <li>◦ Forward Fuselage, Tailboom, Pylons, and Landing Gear System Maintenance</li> <li>◦ PC-1/PC-2 Maintenance and Servicing</li> <li>◦ Main and Tail Rotor System Maintenance</li> <li>◦ Hydraulic and Fixed Flight Control System Maintenance</li> <li>◦ Cyclic, Collective, and Directional Control System Maintenance</li> <li>◦ Force Trim System Maintenance</li> <li>◦ Rotor Brake System Maintenance</li> <li>◦ APU Operation and Maintenance</li> <li>◦ Ground Handling and Aircraft Inspections</li> <li>◦ Safety</li> </ul> <p>Upon completion the graduate will be able to perform maintenance during OT&amp;E.</p>
<b>Delivery Method .</b>	<p>Total Course of Instruction .....104 hours          Instructor-Led Classroom .....36 hours          Instructor-Led with CAI .....0 hours          ICW (not Instructor-Led).....0 periods          PA/Laboratory .....0 hours          PJT (On-Aircraft Repair).....68 hours</p>
<b>Length.....</b>	18 days
<b>Location.....</b>	HX-21, NAS Patuxent River
<b>RFT Date .....</b>	August 2004
<b>TTE/TD .....</b>	TBD
<b>Prerequisite.....</b>	MOS 6154

Title.....	<b>H-1 Electrical SCAS/AFCS Systems Difference Data Maintenance Training</b>
Description .....	<p>This course will provide AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for OT&amp;E maintenance personnel including:</p> <ul style="list-style-type: none"> <li>◦ CMS Displays and Controls</li> <li>◦ APU Controls and Indications</li> <li>◦ Aircraft Power Systems Maintenance</li> <li>◦ Engine and Drive Electrical Systems Maintenance</li> <li>◦ SCAS/AFCS Systems Maintenance</li> <li>◦ H-1 Utility Systems Maintenance</li> <li>◦ Airframe Fuel and Fuel Quantity Systems Maintenance</li> <li>◦ Interior and Exterior System Lighting Maintenance</li> <li>◦ Blade Fold System Maintenance</li> <li>◦ Safety</li> </ul> <p>Upon completion the graduate will be able to perform maintenance during OT&amp;E.</p>
Delivery Method .	<p>Total Course of Instruction .....100 hours</p> <p>Instructor-Led Classroom .....30 hours</p> <p>Instructor-Led with CAI .....0 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>PA/Laboratory .....0 hours</p> <p>PJT (On-Aircraft Repair).....70 hours</p>
Length.....	18 days
Location.....	HX-21, NAS Patuxent River
RFT Date .....	August 2004
TTE/TD .....	TBD
Prerequisite.....	MOS 6433

<b>Title.....</b>	<b>H-1 Communication/Navigation Identification and Fire Control Systems Difference Data Maintenance Training</b>
Description .....	<p>This course will provide AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for OT&amp;E maintenance personnel including:</p> <ul style="list-style-type: none"> <li>◦ CMS Displays and Controls</li> <li>◦ APU Controls and Indications</li> <li>◦ IAS System Maintenance</li> <li>◦ Mission Management Control Functions and Data Entry</li> <li>◦ Digital Map Description and Maintenance</li> <li>◦ Communication/Navigation (COMM/NAV) System Maintenance</li> <li>◦ IEWS System Maintenance</li> <li>◦ Armament System Interface/Maintenance</li> <li>◦ Safety</li> </ul> <p>Upon completion the graduate will be able to perform maintenance during OT&amp;E.</p>
Delivery Method .	<p>Total Course of Instruction .....124 hours          Instructor-Led Classroom .....37 hours          Instructor-Led with CAI .....0 hours          ICW (not Instructor-Led).....0 periods          PA/Laboratory .....0 hours          PJT (On-Aircraft Repair).....87 hours</p>
Length.....	24 days
Location.....	HX-21, NAS Patuxent River
RFT Date .....	August 2004
TTE/TD .....	TBD
Prerequisite.....	MOS 6324

Title.....	<b>H-1 Armament Systems Difference Data Maintenance Training</b>
Description .....	This course will provide AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for OT&E maintenance personnel including: <ul style="list-style-type: none"> <li>◦ CMS Displays and Controls</li> <li>◦ APU Controls and Indications</li> <li>◦ Armament and Fire Control Systems Description, Symbology, and Controls Maintenance</li> <li>◦ H-1 Ground Handling and Mooring</li> <li>◦ Safety</li> </ul> Upon completion the graduate will be able to perform maintenance during OT&E.
Delivery Method .	Total Course of Instruction .....40 hours Instructor-Led Classroom .....15 hours Instructor-Led with CAI .....0 hours ICW (not Instructor-Led).....0 periods PA/Laboratory .....0 hours PJT (On-Aircraft Repair).....25 hours
Length.....	5 days
Location.....	HX-21, NAS Patuxent River
RFT Date .....	August 2004
TTE/TD .....	TBD
Prerequisite.....	MOS 6531

**g. Follow-on Training.** For the H-1 Upgrade Program, follow-on training will consist of CBT for all classroom portions, primarily Computer-Aided Instruction (CAI) for maintenance (organizational and intermediate) and ICW for operator. Training will also include maintenance laboratory time and aircrew simulator/flight time. The CBT will be network-based, using a central/master server. The network design will consist of servers, an Instructor Operator Station (IOS) (maintenance classrooms only), off-line development stations, and classrooms (pilot and maintenance). Servers include an H-1 Master Server (system administration functions), a Pilot Server (pilot administration functions), and Maintenance Server (maintenance administration functions). AH-1Z and UH-1Y Helicopter follow-on training will use the cadre training package as source data for incorporation into the curricula. The Ready For Training (RFT) date for both aircrew and maintenance personnel at HMT-303 and CNATT MARUNIT MCAS Camp Pendleton is scheduled for FY08.

**(1) Aircrew.** H-1 Helicopter aircrew training is dictated by the Aviation T&R Manual, Volume III, Tactical Helicopter 100 series for the AH-1 Pilots, 600 series for the

UH-1 Pilots, and 700 series for UH-1 Crew Chiefs and AGOs. Therefore, the following aircrew courses do not have official CINs assigned, although some courses within the pipeline may have a CIN. To ease tracking throughout this NTSP, aircrew courses have been assigned NA1 through NA13.

The following aircrew pipelines for training on the AH-1W and the UH-1N Helicopters are already established at HMT-303, MCAS Camp Pendleton. The AH-1Z and UH-Y Helicopter Aircrew training curriculum is scheduled to be developed in FY05.

<b>Title.....</b>	<b>AH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline</b>
CIN .....	NA1
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the first tour or transition AH-1 Pilot, including:</p> <ul style="list-style-type: none"> <li>◦ AH-1 Familiarization</li> <li>◦ AH-1 NTS/Laser/FLIR Theory</li> <li>◦ AH-1 Interactive Courseware (ICW)</li> <li>◦ AH-1 Combat Capable</li> <li>◦ Crew Tactics and Safety</li> <li>◦ COMM/NAV</li> <li>◦ Naval Air Training and Operating Procedures Standardization (NATOPS)</li> </ul> <p>Upon completion, the graduate will be able to perform as an AH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....208.0 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....28.5 hours</p> <p>Total PJT (Flight Time).....146.0 hours</p>
Length.....	152 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier.....	MOS 7565
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ Weapon System Trainer (WST) 2F136</li> <li>◦ Aircrew Procedures Trainer (APT) 2F170</li> </ul>
Prerequisite .....	Graduate of Naval Flight School

Title.....	<b>AH-1 Conversion Pilot</b>
CIN .....	NA2
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the conversion AH-1 Pilot including:</p> <ul style="list-style-type: none"> <li>◦ AH-1 Familiarization</li> <li>◦ AH-1 NTS/Laser/FLIR Theory</li> <li>◦ AH-1 ICW</li> <li>◦ AH-1 Combat Capable</li> <li>◦ Crew Tactics and Safety</li> <li>◦ COMM/NAV</li> <li>◦ NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as an AH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....196.5 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....27.0 hours</p> <p>Total PJT (Flight Time).....136.0 hours</p>
Length.....	110 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7565
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ WST 2F136</li> <li>◦ APT 2F170</li> </ul>
Prerequisite.....	Graduate of Naval Flight School

Title.....	<b>AH-1 Fleet Replacement Refresher Pilot Category III Pipeline</b>
CIN .....	NA3
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the refresher AH-1 Pilot including:</p> <ul style="list-style-type: none"> <li>◦ AH-1 Familiarization</li> <li>◦ AH-1 NTS/Laser/FLIR Theory</li> <li>◦ AH-1 ICW</li> <li>◦ AH-1 Combat Capable</li> <li>◦ Crew Tactics and Safety</li> <li>◦ COMM/NAV</li> <li>◦ NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as an AH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....120.0 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....15.0 hours</p> <p>Total PJT (Flight Time).....71.5 hours</p>
Length.....	54 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7565
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ WST 2F136</li> <li>◦ APT 2F170</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ Graduate of Naval Flight School</li> <li>◦ AH-1 Fleet Replacement Pilot Category I/II Pipeline</li> </ul>

Title.....	<b>AH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline</b>
CIN.....	NA4
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the refresher AH-1 Pilot including:</p> <ul style="list-style-type: none"> <li>° AH-1 Familiarization</li> <li>° AH-1 NTS/Laser/FLIR Theory</li> <li>° AH-1 ICW</li> <li>° AH-1 Combat Capable</li> <li>° Crew Tactics and Safety</li> <li>° COMM/NAV</li> <li>° NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as an AH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....59.5 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....6.0 hours</p> <p>Total PJT (Flight Time).....20.0 hours</p>
Length.....	33 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7565
TTE/TD .....	<ul style="list-style-type: none"> <li>° WST 2F136</li> <li>° APT 2F170</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>° Graduate of Naval Flight School</li> <li>° AH-1 Fleet Replacement Pilot Category I/II Pipeline</li> </ul>

Title.....	<b>AH-1 FRS Instructor Pilot</b>
CIN .....	NA5
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the AH-1 Instructor Pilot including:</p> <ul style="list-style-type: none"> <li>◦ Instructional Techniques</li> <li>◦ Flight Training</li> <li>◦ Crew Tactics and Safety</li> <li>◦ Instructor Pilot Flight Training</li> <li>◦ COMM/NAV</li> <li>◦ NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as an AH-1 Instructor Pilot in a training squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....54.0 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....4.5 hours</p> <p>Total PJT (Flight Time).....16.0 hours</p>
Length.....	28 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7565
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ WST 2F136</li> <li>◦ APT 2F170</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ Graduate of Naval Flight School</li> <li>◦ AH-1 Fleet Replacement Pilot Category I/II Pipeline</li> </ul>

Title.....	<b>UH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline</b>
CIN.....	NA6
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the first tour or transition UH-1 Pilot, including:</p> <ul style="list-style-type: none"> <li>° UH-1 Familiarization</li> <li>° UH-1 NTS/Laser/FLIR Theory</li> <li>° UH-1 ICW</li> <li>° Crew Tactics and Safety</li> <li>° COMM/NAV</li> <li>° NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as a UH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....197.0 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....21.0 hours</p> <p>Total PJT (Flight Time).....142.5 hours</p>
Length.....	138 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7563
TTE/TD .....	<ul style="list-style-type: none"> <li>° WST 2F161</li> <li>° APT 2F175</li> </ul>
Prerequisite.....	Graduate of Naval Flight School

Title.....	<b>UH-1 Conversion Pilot</b>
CIN .....	NA7
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the conversion UH-1 Pilot, including:</p> <ul style="list-style-type: none"> <li>° UH-1 Familiarization</li> <li>° UH-1 NTS/Laser/FLIR Theory</li> <li>° UH-1 ICW</li> <li>° Crew Tactics and Safety</li> <li>° COMM/NAV</li> </ul> <p>NATOPS Upon completion, the graduate will be able to perform as a UH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....141.5 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....21.0 hours</p> <p>Total PJT (Flight Time).....87.0 hours</p>
Length.....	68 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7563
TTE/TD .....	<ul style="list-style-type: none"> <li>° WST 2F161</li> <li>° APT 2F175</li> </ul>
Prerequisite.....	Graduate of Naval Flight School

Title.....	<b>UH-1 Fleet Replacement Refresher Pilot Category III Pipeline</b>
CIN.....	NA8
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides refresher training to the UH-1 Pilot, including:</p> <ul style="list-style-type: none"> <li>° UH-1 Familiarization</li> <li>° UH-1 NTS/Laser/FLIR Theory</li> <li>° UH-1 ICW</li> <li>° UH-1 Combat Capable</li> <li>° Crew Tactics and Safety</li> <li>° COMM/NAV</li> <li>° NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as a UH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....103.0 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....14.5 hours</p> <p>Total PJT (Flight Time).....55.0 hours</p>
Length.....	61 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7563
TTE/TD .....	<ul style="list-style-type: none"> <li>° WST 2F161</li> <li>° APT 2F175</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>° Graduate of Naval Flight School</li> <li>° UH-1 Fleet Replacement Pilot Category I/II Pipeline</li> </ul>

Title.....	<b>UH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline</b>
CIN.....	NA9
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides modified refresher training to the UH-1 Pilot, including:</p> <ul style="list-style-type: none"> <li>◦ Instructional Techniques</li> <li>◦ Flight Training</li> <li>◦ Crew Tactics and Safety</li> <li>◦ Instructor Pilot Flight Training</li> <li>◦ COMM/NAV</li> <li>◦ NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as a UH-1 Pilot in a squadron environment.</p>
Delivery Method .	<p>Total Course of Instruction .....55.5 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....7.5 hours</p> <p>Total PJT (Flight Time).....14.5 hours</p>
Length.....	40 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7563
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ WST 2F161</li> <li>◦ APT 2F175</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ Graduate of Naval Flight School</li> <li>◦ UH-1 Fleet Replacement Pilot Category I/II Pipeline</li> </ul>

Title .....	<b>UH-1 FRS Instructor Pilot</b>
CIN .....	NA10
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the UH-1 Instructor Pilot, including:</p> <ul style="list-style-type: none"> <li>◦ UH-1 Ground School</li> <li>◦ Instructional and Flight Training Techniques</li> <li>◦ Crew Tactics and Safety</li> <li>◦ COMM/NAV</li> <li>◦ NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as a UH-1 Instructor Pilot in a training squadron environment.</p>
Delivery Method ..	<p>Total Course of Instruction .....48.0 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....1.5 hours</p> <p>Total PJT (Flight Time).....13.0 hours</p>
Length.....	28 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 7563
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ WST 2F161</li> <li>◦ APT 2F175</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ Graduate of Naval Flight School</li> <li>◦ Security Clearance-Secret</li> <li>◦ UH-1 Fleet Replacement Pilot Category I/II Pipeline</li> </ul>

Title.....	<b>UH-1 Basic and Transition Crew Chief Category I and II Pipeline</b>
CIN.....	NA11
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the first tour or transition UH-1 Crew Chief, including:</p> <ul style="list-style-type: none"> <li>° UH-1 Familiarization</li> <li>° Ground School</li> <li>° Flight Training</li> <li>° Combat Capable Phase</li> <li>° Crew Tactics and Safety</li> <li>° COMM/NAV</li> <li>° NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as a UH-1 Crew Chief in a squadron environment.</p>
Delivery Method ..	<p>Total Course of Instruction .....105.0 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....2.0 hours</p> <p>Total PJT (Flight Time).....69.5 hours</p>
Length.....	149 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 6174
TTE/TD .....	<ul style="list-style-type: none"> <li>° WST 2F161</li> <li>° APT 2F175</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>° C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School</li> <li>° E-2D-0032, Survival Evasion Resistance and Escape</li> <li>° D-9E-1225, Naval Aviation Water Survival Program R2</li> <li>° Q-050-1500, Naval Aircrewman Candidate School</li> <li>° B-322-0040, Refresher Aerospace Physiology Maritime</li> <li>° Security Clearance-Secret</li> </ul>

Title.....	<b>UH-1 Conversion Crew Chief</b>
CIN .....	NA12
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the conversion UH-1 Crew Chief, including:</p> <ul style="list-style-type: none"> <li>◦ UH-1 Ground School</li> <li>◦ Instructional Techniques</li> <li>◦ Flight Training</li> <li>◦ Crew Tactics and Safety</li> <li>◦ COMM/NAV</li> <li>◦ NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as a UH-1 Crew Chief in a squadron environment.</p>
Delivery Method ..	<p>Total Course of Instruction .....88.5 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....2.0 hours</p> <p>Total PJT (Flight Time).....53.0 hours</p>
Length.....	138 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 6174
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ WST 2F161</li> <li>◦ APT 2F175</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School</li> <li>◦ E-2D-0032, Survival Evasion Resistance and Escape</li> <li>◦ D-9E-1225, Naval Aviation Water Survival Program R2</li> <li>◦ Q-050-1500, Naval Aircrewman Candidate School</li> <li>◦ B-322-0040, Refresher Aerospace Physiology Maritime</li> <li>◦ Security Clearance-Secret</li> </ul>

Title.....	<b>UH-1 Crew Chief Instructor</b>
CIN .....	NA13
Model Manager ...	HMT-303
Description .....	<p>This pipeline provides training to the UH-1 Crew Chief Instructor, including:</p> <ul style="list-style-type: none"> <li>◦ Ground School</li> <li>◦ Weapons and Tactics</li> <li>◦ Night Systems</li> <li>◦ Terrain Flight</li> <li>◦ Air Combat Maneuver/Aerial Gunnery</li> <li>◦ Instructional Techniques</li> <li>◦ Crew Tactics and Safety</li> <li>◦ COMM/NAV</li> <li>◦ NATOPS</li> </ul> <p>Upon completion, the graduate will be able to perform as a UH-1 Crew Chief Instructor in a training squadron environment.</p>
Delivery Method ..	<p>Total Course of Instruction .....37.5 hours</p> <p>Instructor-Led Classroom .....33.5 hours</p> <p>Instructor-Led with CAI .....33.5 hours</p> <p>ICW (not Instructor-Led).....0 periods</p> <p>Simulator .....1.0 hour</p> <p>Total PJT (Flight Time).....3.0 hours</p>
Length.....	124 days
Location.....	HMT-303, MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 6177
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ WST 2F161</li> <li>◦ APT 2F175</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School</li> <li>◦ E-2D-0032, Survival Evasion Resistance and Escape</li> <li>◦ D-9E-1225, Naval Aviation Water Survival Program R2</li> <li>◦ Q-050-1500, Naval Aircrewman Candidate School</li> <li>◦ B-322-0040, Refresher Aerospace Physiology Maritime</li> <li>◦ Security Clearance-Secret</li> </ul>

**(2) Maintenance Training.** The following organizational level maintenance courses are already established at CNATT MARUNIT MCAS Camp Pendleton, for

training requirements on the AH-1W and the UH-1N Helicopters. Thirteen H-1 organizational level courses are taught at CNATT MARUNIT MCAS Camp Pendleton. At the current time, no new training pipelines or tracks will be required to support the AH-1Z and UH-1Y Helicopter. However, AH-1Z and UH-1Y Helicopter organizational level maintenance training modules are scheduled for development in FY05 with delivery to CNATT MARUNIT MCAS Camp Pendleton in FY08.

**(a) Organizational Level Maintenance**

Title .....	<b>H-1 Communication Navigation Identification System Maintenance</b>
CIN .....	M-102-2024
Model Manager ...	CNATT MARUNIT
Description .....	<p>This track provides training to the Aircraft Communications/ Navigation/Electrical/Weapon Systems Technician, U/AH-1, including:</p> <ul style="list-style-type: none"> <li>◦ H-1 Communication, Navigation, and Identification System Maintenance</li> <li>◦ H-1 Electrical and SCAS Maintenance</li> <li>◦ AH-1W Tube-Launched Optically Tracked Wire-Guided and Hellfire Control and Display System Maintenance</li> <li>◦ H-1 Wire Bundle Repair</li> <li>◦ AH-1W NTS and NTIS Maintenance</li> <li>◦ Publications and Safety Precautions</li> </ul> <p>Upon completion, the graduate will be able to perform as an H-1 Aircraft Communications/ Navigation/Electrical/Weapon Systems Technician in a squadron environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-602-9360</b></p> <p>Total Course of Instruction ..... 252 hours</p> <p>Instructor-Led Classroom ..... 130 hours</p> <p>Instructor-Led with CAI ..... 0 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 122 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-198-9351</b></p> <p>Total Course of Instruction ..... 48 hours</p> <p>Instructor-Led Classroom ..... 26 hours</p> <p>Instructor-Led with CAI ..... 0 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 22 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p>

<b>Title.....</b>	<b>H-1 Communication Navigation Identification System Maintenance</b>
	<p><b>Course C-104-3351</b>  Total Course of Instruction ..... 40 hours  Instructor-Led Classroom ..... 25 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 15 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-102-9354</b>  Total Course of Instruction ..... 192 hours  Instructor-Led Classroom ..... 140 hours  Instructor-Led with CAI ..... 103 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 52 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-602-3357</b>  Total Course of Instruction ..... 48 hours  Instructor-Led Classroom ..... 31 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 17 hours  PJT (On-Aircraft Repair)..... 0 hours</p>
<b>Length.....</b>	114 days
<b>Location.....</b>	CNATT MARUNIT MCAS Camp Pendleton
<b>RFT Date .....</b>	Currently available
<b>Skill Identifier .....</b>	MOS 6324
<b>TTE/TD .....</b>	<ul style="list-style-type: none"> <li>° AH-1W Composite Maintenance Trainer (CMT) 410101 and 111101</li> <li>° UH-1N CMT 310101 and 110201</li> <li>° UH-1N Electrical/Armament Trainer (EAT) 142301</li> </ul>
<b>Prerequisites .....</b>	<ul style="list-style-type: none"> <li>° C-100-2018, Avionics Technician Organizational Level Class A1</li> <li>° C-100-2020, Avionics Common Core Class A1</li> </ul>

Title.....	<b>AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance</b>
CIN .....	M-601-2014
Model Manager ...	CNATT MARUNIT
Description .....	<p>This track provides training to the Helicopter Mechanic, UH/AH-1, or Helicopter Crew Chief, UH-1, including:</p> <ul style="list-style-type: none"> <li>◦ AH-1W Power Trains, Rotors, and Related System Maintenance</li> <li>◦ UH-1N Power Trains, Rotors, and Related System Maintenance</li> <li>◦ H-1 Combined Maintenance</li> <li>◦ Corrosion Control Treatment and Prevention</li> <li>◦ Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as an H-1 Helicopter Mechanic in a squadron environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-601-9352</b></p> <p>Total Course of Instruction ..... 62 hours</p> <p>Instructor-Led Classroom ..... 41 hours</p> <p>Instructor-Led with CAI ..... 0 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 16 hours</p> <p>PJT (On-Aircraft Repair)..... 5 hours</p> <p><b>Course C-601-9351</b></p> <p>Total Course of Instruction ..... 160 hours</p> <p>Instructor-Led Classroom ..... 62 hours</p> <p>Instructor-Led with CAI ..... 62 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 98 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-600-9355</b></p> <p>Total Course of Instruction ..... 200 hours</p> <p>Instructor-Led Classroom ..... 49 hours</p> <p>Instructor-Led with CAI ..... 49 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 56 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-600-3180</b></p> <p>Total Course of Instruction ..... 14 hours</p> <p>Instructor-Led Classroom ..... 14 hours</p> <p>Instructor-Led with CAI ..... 0 hours</p>

Title.....	<b>AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance</b>
	ICW (not Instructor-Led)..... 0 periods PA/Laboratory ..... 0 hours PJT (On-Aircraft Repair)..... 0 hours
Length.....	60 days
Location.....	CNATT MARUNIT MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	° MOS 6114 ° MOS 6174
TTE/TD .....	° AH-1W CMT 410101 and 111101 ° UH-1N CMT 110201 and 310101 ° Engine Remove/Replace Trainer (ERRT)
Prerequisites .....	° C-601-2011, Aviation Machinist's Mate Common Core Class A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1

Title.....	<b>Helicopter Airframe Mechanic A/UH-1</b>
CIN .....	M-602-2081
Model Manager ...	CNATT MARUNIT
Description .....	<p>This track provides training to the Helicopter Airframe Mechanic, UH/AH-1, including:</p> <ul style="list-style-type: none"> <li>◦ H-1 Airframes Systems</li> <li>◦ AH-1W and UH-1N Hydraulic System Maintenance</li> <li>◦ SCAS Maintenance</li> <li>◦ Stubwing, Tailboom, and Elevator System Maintenance</li> <li>◦ AH-1W Canopy System Maintenance</li> <li>◦ Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as a UA/UH-1 Helicopter Airframe Mechanic in a squadron environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-600-9363</b></p> <p>Total Course of Instruction ..... 176 hours</p> <p>Instructor-Led Classroom ..... 92 hours</p> <p>Instructor-Led with CAI ..... 92 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 84 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p>
Length.....	30 days
Location.....	CNATT MARUNIT MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 6154
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ AH-1W CMT 410101 and 111101</li> <li>◦ UH-1N CMT 310101 and 110201</li> <li>◦ ERRT 222101</li> <li>◦ UH-1N Avionics Trainer (AVT) 142401</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Class A1</li> <li>◦ C-603-0176, Aviation Structural Mechanic Organizational Level Strand</li> </ul>

Title.....	<b>Rotary Wing (H-1/CH-46/CH-53) Armament Systems Maintenance</b>
CIN .....	M-646-2044
Model Manager ...	CNATT MARUNIT
Description .....	<p>This course provides training to the Aircraft Ordnance Technician, including:</p> <ul style="list-style-type: none"> <li>° AH-1W Armament Repair System Maintenance</li> <li>° AH-1W Turret/M197/M89/20MM Feed System Maintenance</li> <li>° UH-1N Armament System Maintenance</li> <li>° H-1 Conventional Weapons Loading Maintenance</li> <li>° Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as an Aircraft Ordnance Technician in a squadron environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-646-3363</b></p> <p>Total Course of Instruction ..... 80 hours</p> <p>Instructor-Led Classroom ..... 27 hours</p> <p>Instructor-Led with CAI ..... 27 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 53 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-646-3364</b></p> <p>Total Course of Instruction ..... 69 hours</p> <p>Instructor-Led Classroom ..... 24 hours</p> <p>Instructor-Led with CAI ..... 24 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 45 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-646-3341</b></p> <p>Total Course of Instruction ..... 63 hours</p> <p>Instructor-Led Classroom ..... 27 hours</p> <p>Instructor-Led with CAI ..... 27 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 36 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-646-3342</b></p> <p>Total Course of Instruction ..... 87 hours</p> <p>Instructor-Led Classroom ..... 20 hours</p> <p>Instructor-Led with CAI ..... 20 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 67 hours</p>

Title.....	<b>Rotary Wing (H-1/CH-46/CH-53) Armament Systems Maintenance</b>
	PJT (On-Aircraft Repair)..... 0 hours
Length.....	54 days
Location.....	CNATT MARUNIT MCAS Camp Pendleton
RFT Date .....	Currently available
Skill Identifier .....	MOS 6531
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ EAT 142301</li> <li>◦ AH-1W CMT 410101 and 111101</li> <li>◦ UH-1N CMT 310101 and 110201</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ C-646-2011, Aviation Ordnanceman Class A1</li> <li>◦ C-646-2012, Aviation Ordnanceman Airwing Strand Class A1</li> </ul>

**(b) Intermediate Level Maintenance.** AH-1W and UH-1N Helicopter intermediate level maintenance follow-on training is provided by various CNATTU MTUs and CNATT MARUNITs, including five at CNATT MARUNIT MCAS Camp Pendleton. Pending final approval, course *C-646-3105 (Track M-646-7026), Aviation Ordnance Technician Intermediate Maintenance*, will be replaced with *C-646-3111, Aviation Ordnance Systems Technician Core* and *C-646-3112, Aviation Ordnance Systems Technician Strand* for MOS 6541. At this time, no decision has been made concerning intermediate level maintenance courses and AH-1Z and UH-1Y Helicopter component applicability. However, it is possible that the following AH-1Z and UH-1Y Helicopter intermediate level maintenance courses might be effected:

- Armament Systems Organizational Maintenance
- Dynamic Components Intermediate Maintenance
- Composite Repair Intermediate Maintenance
- Avionics Systems Intermediate Maintenance

Title.....	<b>Cryptographic Equipment Intermediate Maintenance</b>
CIN .....	D/E-102-6122
Model Manager ...	MTU 1039 CNATTU Oceana
Description .....	<p>This course provides training to the Aircraft Cryptographic Systems Technician, IMA, including:</p> <ul style="list-style-type: none"> <li>◦ Transmission Security (TSEC)/KI-1C Maintenance</li> <li>◦ TSEC/KY-58 Maintenance</li> <li>◦ AN/USC-43(V) Advanced Narrowband Digital Voice Terminal (ANDVT)</li> <li>◦ TSEC/KG-40A Maintenance</li> <li>◦ Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as an Aircraft Cryptographic Systems Technician a shop environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-160-3016</b></p> <p>Total Course of Instruction ..... 56 hours</p> <p>Instructor-Led Classroom ..... 32 hours</p> <p>Instructor-Led with CAI ..... 0 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 24 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-160-3017</b></p> <p>Total Course of Instruction ..... 24 hours</p> <p>Instructor-Led Classroom ..... 15 hours</p> <p>Instructor-Led with CAI ..... 0 hours</p> <p>ICW (not Instructor-Led)..... 0 periods</p> <p>PA/Laboratory ..... 9 hours</p> <p>PJT (On-Aircraft Repair)..... 0 hours</p>
Length.....	22 days
Location.....	<ul style="list-style-type: none"> <li>◦ MTU 1039 CNATTU Oceana</li> <li>◦ MTU 1038 CNATTU Lemoore</li> </ul>
RFT Date .....	Currently available
Skill Identifier .....	MOS 6422
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ KI-1C, KY-58, and ANDVT Equipment</li> <li>◦ TSEC/KG-40A</li> <li>◦ Cryptographic Unit</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>◦ C-100-2017, Avionics Technician Intermediate Level Class A1</li> <li>◦ C-100-2020, Avionics Common Core Class A1</li> </ul>

<b>Title.....</b>	<b>Helicopter Deceptive Electronic Countermeasures Intermediate Maintenance</b>
<b>CIN .....</b>	M-102-6483
<b>Model Manager ...</b>	VMAT-203 CNATT MARUNIT
<b>Description .....</b>	<p>This course provides training to the Aircraft Electronic Countermeasures Systems Technician, Helicopter, IMA, including:</p> <ul style="list-style-type: none"> <li>◦ AN/AAR-47 MWS Maintenance</li> <li>◦ AN/AVS-6 Aviators Night Vision Imaging System Maintenance</li> <li>◦ AN/AVR-2 LDS System Maintenance</li> <li>◦ AN/ALE-39 CM Dispensing System</li> <li>◦ AN/APR-39(V)1 RSDS Maintenance</li> <li>◦ AN/ALQ-144(V) CM Set Maintenance</li> <li>◦ AN/ALQ-157(V) IR CM Set Maintenance</li> <li>◦ Laser Safety Fundamentals</li> <li>◦ Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as an Aircraft Electronic Countermeasures Systems Technician in a shop environment under limited supervision.</p>
<b>Delivery Method...</b>	<p><b><i>Course C-102-3112</i></b>  Total Course of Instruction ..... 32 hours  Instructor-Led Classroom ..... 11 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 21 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b><i>Course C-198-3059</i></b>  Total Course of Instruction ..... 32 hours  Instructor-Led Classroom ..... 15 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 17 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b><i>Course C-102-4023</i></b>  Total Course of Instruction ..... 76 hours  Instructor-Led Classroom ..... 18 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 58 hours  PJT (On-Aircraft Repair)..... 0 hours</p>

	<p><b>Course C-102-3107</b></p> <p>Total Course of Instruction ..... 53 hours          Instructor-Led Classroom ..... 22 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 31 hours          PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-102-4019</b></p> <p>Total Course of Instruction ..... 74 hours          Instructor-Led Classroom ..... 28 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 46 hours          PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-102-4020</b></p> <p>Total Course of Instruction ..... 53 hours          Instructor-Led Classroom ..... 22 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 31 hours          PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-102-4022</b></p> <p>Total Course of Instruction ..... 86 hours          Instructor-Led Classroom ..... 19 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 67 hours          PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-602-3770</b></p> <p>Total Course of Instruction ..... 8 hours          Instructor-Led Classroom ..... 8 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 0 hours          PJT (On-Aircraft Repair)..... 0 hours</p>
Length.....	88 days
Location.....	VMAT-203 CNATT MARUNIT, MCAS Cherry Point
RFT Date .....	Currently available
Skill Identifier .....	MOS 6483

TTE/TD .....	<ul style="list-style-type: none"> <li>◦ AN/AAR-47 Receiver</li> <li>◦ AN/AVS-6 Receiver</li> <li>◦ AN/AVR-2 Receiver</li> <li>◦ AN/ALE-39 Receiver</li> <li>◦ AN/APR-39(V)1 Receiver</li> <li>◦ AN/ALQ-144(V) Receiver</li> <li>◦ AN/ALQ-157(V) Receiver</li> </ul>
Prerequisite.....	C-100-2017, Avionics Technician Intermediate Level Class A1

Title.....	<b>T-400/T-700 Engine First Degree Intermediate Maintenance</b>
CIN .....	M-601-3027
Model Manager ...	CNATT MARUNIT
Description .....	<p>This track provides training to the Helicopter Power Plants Mechanic, T-400/T-700, including:</p> <ul style="list-style-type: none"> <li>◦ T-400/T-700 Engine First Degree Intermediate Maintenance Procedures</li> <li>◦ T-400 Series Engine First Degree Intermediate Maintenance Procedures</li> <li>◦ Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as a Helicopter Power Plants Mechanic, T-400/T-700, in a shop environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-601-3137</b></p> <p>Total Course of Instruction ..... 120 hours          Instructor-Led Classroom ..... 30 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 90 hours          PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-601-4408</b></p> <p>Total Course of Instruction ..... 184 hours          Instructor-Led Classroom ..... 36 hours          Instructor-Led with CAI ..... 0 hours          ICW (not Instructor-Led)..... 0 periods          PA/Laboratory ..... 148 hours          PJT (On-Aircraft Repair)..... 0 hours</p>
Length.....	64 days
Location.....	<ul style="list-style-type: none"> <li>◦ CNATT MARUNIT MCAS Camp Pendleton</li> <li>◦ MTU 1067 CNATTU NAS North Island</li> </ul>
RFT Date .....	Currently available
Skill Identifier .....	MOS 6124
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ T400 Reduction Gearbox</li> <li>◦ T400-CP-400 Power Section</li> <li>◦ T400-WV-402 Power Section</li> <li>◦ T700-GE-401 Engine Assembly</li> </ul>
Prerequisite.....	C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1

Title.....	<b>Helicopter Dynamic Component Intermediate Maintenance</b>
CIN .....	M-601-3090
Model Manager ...	HMT-302 CNATT MARUNIT
Description .....	<p>This track provides training to the Helicopter/Tiltrotor Dynamic Components Mechanic, including:</p> <ul style="list-style-type: none"> <li>◦ Helicopter Dynamic Component Repair System Maintenance</li> <li>◦ Basic Corrosion Control Prevention and Treatment</li> <li>◦ Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as a Helicopter/Tiltrotor Dynamic Components Mechanic in a shop environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-602-3457</b></p> <p>Total Course of Instruction ..... 184 hours  Instructor-Led Classroom ..... 83 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 101 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-600-3180</b></p> <p>Total Course of Instruction ..... 14 hours  Instructor-Led Classroom ..... 14 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 148 hours  PJT (On-Aircraft Repair)..... 0 hours</p>
Length.....	37 days
Location.....	HMT-302 CNATT MARUNIT, MCAS New River
RFT Date .....	Currently available
Skill Identifier .....	MOS 6132
TTE/TD .....	<ul style="list-style-type: none"> <li>◦ Rotor Head Assembly</li> <li>◦ Swashplate Assembly</li> <li>◦ Scissors and Sleeve Assembly</li> <li>◦ Tail Rotor Assembly</li> </ul>
Prerequisite.....	C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1

Title.....	<b>USMC Aircraft Hydraulic Components Intermediate Maintenance</b>
CIN .....	D/E-602-4013
Model Manager ...	MTU 1039 CNATTU Oceana
Description .....	<p>This track provides training to the Aircraft Intermediate Level Hydraulic/Pneumatic Mechanic, including:</p> <ul style="list-style-type: none"> <li>° Aircraft Hydraulic and Pneumatic Test Stand (HCT-10) Maintenance</li> <li>° Limited Aircraft Component Intermediate Maintenance</li> <li>° Servo-Cylinder Test Station Operator and Maintainer Intermediate Maintenance</li> <li>° A/F-27T-10 Test Stand Maintenance</li> <li>° Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as an Aircraft Intermediate Level Hydraulic/Pneumatic Mechanic in a shop environment under limited supervision.</p>
Delivery Method...	<p><b>Course C-602-3191</b>            Total Course of Instruction ..... 51 hours            Instructor-Led Classroom ..... 36 hours            Instructor-Led with CAI ..... 0 hours            ICW (not Instructor-Led)..... 0 periods            PA/Laboratory ..... 15 hours            PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-602-4867</b>            Total Course of Instruction ..... 14 hours            Instructor-Led Classroom ..... 143 hours            Instructor-Led with CAI ..... 106 hours            ICW (not Instructor-Led)..... 0 periods            PA/Laboratory ..... 37 hours            PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-690-3211</b>            Total Course of Instruction ..... 96 hours            Instructor-Led Classroom ..... 82 hours            Instructor-Led with CAI ..... 106 hours            ICW (not Instructor-Led)..... 0 periods            PA/Laboratory ..... 14 hours            PJT (On-Aircraft Repair)..... 0 hours</p>
Length.....	75 days
Location.....	<ul style="list-style-type: none"> <li>° MTU 1039 CNATTU Oceana</li> <li>° MTU 1038 CNATTU Lemoore</li> </ul>

RFT Date .....	Currently available
Skill Identifier .....	MOS 6062
TTE/TD .....	<ul style="list-style-type: none"> <li>° Hydraulic Horizontal Stabilizer Servo-Cylinder</li> <li>° Servo-Cylinder Test Station</li> <li>° Hydraulic Drive Unit Servo-Valve Assembly</li> </ul>
Prerequisites .....	<ul style="list-style-type: none"> <li>° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulic) Class A1</li> <li>° C-603-0176, Aviation Structural Mechanic Organizational Level Strand</li> </ul>

Title.....	<b>H-1 Aircraft Electrical Instrument/Automatic Flight Control System Equipment Intermediate Maintenance</b>
CIN .....	M-602-5811
Model Manager .....	CNATT MARUNIT
Description .....	<p>This course provides training to the Aircraft Electrical/ Instrument/Flight Control Systems Technician, Helicopter, IMA, including:</p> <ul style="list-style-type: none"> <li>◦ H-1 AFCS SCAS Maintenance H-1 Rotary Wing Electrical Systems Maintenance</li> <li>◦ H-1 Armament Control Maintenance</li> <li>◦ Aircraft Nickel-Cadmium Battery System Maintenance</li> <li>◦ Publications and Safety Procedures</li> </ul> <p>Upon completion, the graduate will be able to perform as an Aircraft Electrical/ Instrument/Flight Control Systems Technician, Helicopter, IMA in a shop environment under limited supervision</p>
Delivery Method.....	<p><b>Course C-602-3342</b>  Total Course of Instruction ..... 80 hours  Instructor-Led Classroom ..... 60 hours  Instructor-Led with CAI ..... 0 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 19 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-602-3358</b>  Total Course of Instruction ..... 138 hours  Instructor-Led Classroom ..... 92 hours  Instructor-Led with CAI ..... 106 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 46 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-646-3346</b>  Total Course of Instruction ..... 79 hours  Instructor-Led Classroom ..... 48 hours  Instructor-Led with CAI ..... 106 hours  ICW (not Instructor-Led)..... 0 periods  PA/Laboratory ..... 31 hours  PJT (On-Aircraft Repair)..... 0 hours</p> <p><b>Course C-646-3362</b>  Total Course of Instruction ..... 125 hours  Instructor-Led Classroom ..... 91 hours  Instructor-Led with CAI ..... 106 hours</p>

	ICW (not Instructor-Led)..... 0 periods PA/Laboratory ..... 34 hours PJT (On-Aircraft Repair)..... 0 hours  <b>Course C-600-3177</b> Total Course of Instruction ..... 40 hours Instructor-Led Classroom ..... 8 hours Instructor-Led with CAI ..... 106 hours ICW (not Instructor-Led)..... 0 periods PA/Laboratory ..... 32 hours PJT (On-Aircraft Repair)..... 0 hours
Length.....	68 days
Location.....	CNATT MARUNIT, MCAS Camp Pendleton
RFT Date.....	Currently available
Skill Identifier .....	MOS 6433
TTE/TD .....	° AH-1W CMT 410101 and 111101 ° UH-1N CMT 310101 and 110201 ° EAT 142301 ° AVT 142401 ° ERRT 222101
Prerequisite.....	C-602-2039, Aviation Electrician's Mate Strand Class A1

The following intermediate level maintenance tracks are illustrated in detail in other NTSPs and therefore, will not be duplicated in Part I of this NTSP; however, they will be included in Part II of this NTSP to identify the student throughput as a result of the H-1 Upgrades Program.

MOS	CIN	TRACK TITLE	APPLICABLE NTSP	STATUS / SOURCE
6033	C-603-3191	Aircraft Nondestructive Inspection Technician Class C2	Non-Destructive Inspection Program N88-NTSP-A-50-8518B/A	Approved May 00
6043	N-701-0007	Aircraft/Support Equipment Basic Welding Certification	NA	OATMS
6048	C-602-2040	Aircrew Survival Equipment Intermediate Maintenance Activity (IMA)	Aviation Life Support Systems N88-NTSP-A-50-9503C/D	Draft Aug 01

<b>MOS</b>	<b>CIN</b>	<b>TRACK TITLE</b>	<b>APPLICABLE NTSP</b>	<b>STATUS / SOURCE</b>
6062	D/E-602-4008	A/F 27T-10 Hydraulic Component Test Stand Type 1, IMA	A/F 27T-10 Hydraulic Component Test Stand N88-NTSP-A-50-9503/A	Approved Feb 01
6072	D-602-7040	Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance	Tow Tractors N88-NTSP-A-50-8411B	Approved Jun 98
6073	D/E-602-7032	Support Equipment Electrical/Refrigeration Intermediate Maintenance	NA	OATMS
6092	D/E-603-4007	Airframes Intermediate Maintenance, IMA	Advanced Composite Material Repair Program N88-NTSP-A-50-8404D/A	Approved May 01
6412	M-102-6412	Communications Equipment Intermediate Maintenance	AN/ARC-182(V) Radio Set N88-NTSP-A-50-8115D/A	Approved Mar 00
6413	M-102-6413	Aircraft Navigation Systems, IMA	AN/APX-100(V) Transponder Set N88-NTSP-A-50-8305D	Approved Mar 00
6423	M-102-6423	Miniature/Instrument Cable Repair, IMA	Instrument Repair Program N88-NTSP-A-50-8310/A	Approved Apr 02
6483	M-102-6483	Helo Deceptive Electronic Countermeasures Intermediate Maintenance	NA	OATMS
6492	C-198-2011	Advanced Calibration Technician	Metrology and Calibration Program N88-NTSP-A-50-8701B/A	Approved Oct 00
6541	M-646-7026	Aviation Ordnance Technician Intermediate Maintenance	NA	OATMS

**h. Student Profiles**

<b>SKILL IDENTIFIER</b>	<b>PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS</b>
MOS 7563	◦ Graduate of Naval Aviation Flight School
MOS 7565	◦ Graduate of Naval Aviation Flight School
MOS 6062	◦ C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ◦ C-603-0176, Aviation Structural Mechanic Organizational Level Strand Class A1
MOS 6114	◦ C-601-2011, Aviation Machinist's Mate Common A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6124	◦ C-601-2011, Aviation Machinist's Mate Common Core Class A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6132	◦ C-601-2011, Aviation Machinist's Mate Common Core Class A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1 ◦ C-600-2010, Basic Helicopter Class M1
MOS 6154	◦ C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ◦ C-603-0176, Aviation Structural Mechanic Organizational Level Strand Class A1
MOS 6174	◦ C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School ◦ E-2D-0032, Survival Evasion Resistance and Escape ◦ D-9E-1225, Naval Aviation Water Survival Program R2 ◦ Q-050-1500, Naval Aircrewman Candidate School ◦ B-322-0040, Refresher Aerospace Physiology Maritime

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6177	<ul style="list-style-type: none"> <li>◦ C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School</li> <li>◦ E-2D-0032, Survival Evasion Resistance and Escape</li> <li>◦ D-9E-1225, Naval Aviation Water Survival Program R2</li> <li>◦ Q-050-1500, Naval Aircrewman Candidate School</li> <li>◦ B-322-0040, Refresher Aerospace Physiology Maritime</li> </ul>
MOS 6324	<ul style="list-style-type: none"> <li>◦ C-100-2020, Avionics Common Core Class A1</li> <li>◦ C-100-2018, Avionics Technician O Level Class A1</li> </ul>
MOS 6413	<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>
MOS 6422	<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>◦ MOS 6412</li> </ul>
MOS 6433	<ul style="list-style-type: none"> <li>◦ C-100-2020, Avionics Common Core Class A1</li> <li>◦ C-602-2039, Aviation Electricians Mate O Level Strand Class A1</li> </ul>
MOS 6483	<ul style="list-style-type: none"> <li>◦ C-100-2020, Avionics Common Core Class A1</li> </ul>
MOS 6531	<ul style="list-style-type: none"> <li>◦ C-646-2011, Aviation Ordnanceman Common Core Class A1</li> <li>◦ C-646-2012, Aviation Ordnanceman Airwing Strand Class A1</li> </ul>
MOS 6541	<ul style="list-style-type: none"> <li>◦ C-646-2012, Aviation Ordnanceman Airwing Strand A1</li> </ul>

**h. Training Pipelines.** At the current time, no new training pipelines or tracks will be required to support the AH-1Z and UH-1Y Helicopter. However, AH-1Z and UH-1Y Helicopter Pilot and organizational level maintenance training modules are scheduled for development in FY05 and delivery to HMT-303 and CNATT MARUNIT MCAS Camp Pendleton in FY08. At this time, no decision has been made concerning intermediate level maintenance courses and AH-1Z and UH-1Y Helicopter component applicability. This information will be updated in future iterations of this NTSP. The following organizational level maintenance tracks are expected to be effected by the H-1 Program Update:

- *M-601-2014, AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance*
- *M-602-2081, Helicopter Airframe Mechanic A/UH-1*

- *M-102-2024, H-1 Communication Navigation Identification System Maintenance*

## I. ONBOARD (IN-SERVICE) TRAINING

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

**a. Maintenance Training Improvement Program.** Current planning is to adopt the AMTCS concepts to replace Maintenance Training Improvement Program (MTIP). AMTCS is scheduled to begin full implementation for fleet deployment in FY05.

**b. 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 concepts will provide 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. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Interactive Multimedia Instruction for the technicians in the Fleet in the form of ICW with Computer Managed Instruction and CAI for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module, which provides testing (Test and Evaluation), recording (Electronic Certification Qualification Records), 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 - Laptops, Personal Computers, Electronic Classrooms, Learning Resource Centers, operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are 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 MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

### 2. Personnel Qualification Standards. NA

**3. Other Onboard or In-Service Training Packages.** Marine Corps onboard training is based on the current series of Marine Corps Order P4790.12, Individual Training Standards System and MATMEP. This program is designed to meet Marine Corps, as well as 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. MTIP questions coupled to MATMEP tasks helped identify training deficiencies that can be enhanced with refresher training. (MATMEP is planned to be replaced by AMTCS in FY05.)

## J. LOGISTICS SUPPORT

### 1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00019-96-C-0128	Bell Helicopter Textron, Inc	P.O. Box 482 Fort Worth, TX 76101

**2. Program Documentation.** The following table depicts H-1 Upgrades Program documentation.

DOCUMENT TITLE	RESPONSIBLE AGENCY	DATE
Statement of Work for the H-1 Upgrades Program Revision 2	PMA276	9 Oct 96
Weapon System Planning Document (WSPD) UH-1N/Y	PMA276	31 Jan 01
WSPD AH-1W/Z	PMA276	7 Feb 01
Operational Requirements Document (ORD) for the Mid-Life Upgrade to the UH-1N (UH-1Y) No. ASS-51, Change 3	PMA276	8 Oct 02
ORD for the Mid-Life Upgrade to the AH-1W (AH-1Z) No. ASS-35, Change 3	PMA276	8 Oct 02
H-1 Upgrade ALSP Low Rate Initial Production II, Draft, 02-016	PMA276	14 Dec 02
Test and Evaluation Master Plan No 1435 for the USMC H-1 Upgrades Revision A	PMA276	17 Mar 03
Acquisition Logistics Support Plan (ALSP) USMC H-1 Upgrades	PMA276	15 May 03
USMC H-1 Upgrades Program (AH-1Z and UH-1Y) Manpower Estimate Report (Approved)	PMA205	Sep 03

**3. Technical Data Plan.** The AH-1Z and UH-1Y Helicopter technical manuals are currently being developed and are in the technical publication validation process, with an estimated completion date of third quarter FY04.

**4. Test Sets, Tools, and Test Equipment.** Existing DoD and Navy SE will be used to the maximum extent practicable. BHTI has recommended tools, test sets, and test equipment to support the AH-1Z and UH-1Y Helicopter program. This list is being analyzed through the Logistics Support Analysis Requirements (LSAR) process and reviewed by the Support Equipment Integrated Product Team, comprised of PMA276 and BHTI personnel. Approved tools, test sets, and test equipment to support training activities will be included in updates to this NTSP.

**5. Repair Parts.** The contractor will provide Interim Supply Support (ISS), including vendor items required to support the AH-1Z and UH-1Y Helicopters until MSD and NSD is achieved.

The MSD, estimated for FY10, is the date when the Inventory Control Point is responsible for providing material support for wholesale requirements from the supply system. The period occurring from production delivery of LRIP I to MSD is the ISS period. During the ISS period, the Naval Inventory Control Point will procure the spares and repair parts required to support the AH-1Z and UH-1Y Helicopters via an Interim Support List. Spares and repair parts are screened for stock numbers and requirements procured to support site operation throughout the ISS period. During the pre-MSD period, the Government will procure and maintain provisioning data and an adequate inventory of interim spares or repair parts for production AH-1Z and UH-1Y Helicopters to support OT&E and site activation. Post MSD supply support will be provided under a Performance Based Logistics (PBL) contract. The options include variations that will have labor performed by an organic depot(s) and supply chain management performed by a private logistics management activity that specializes in supply chain management. The PBL program will also include incentive laden contracts to increase reliability.

The NSD, estimated for FY12, is the date when all logistics support is in place for the AH-1Z and UH-1Y Helicopter and includes full depot support.

**6. Human Systems Integration.** Human Systems Integration (HSI) establishes the basis for effective integration of Human Engineering; Manpower; Personnel; Training and Performance Support; Environment, Safety, and Health; Habitability; Systems Safety; and Survivability considerations into the acquisition of the new development as outlined in the DOD Instruction 5000.2R. The H-1 Upgrades Program currently does not have an HSI plan; however, HSI is being executed through the NAVAIR Systems Engineering process. The HSI process is one of engineering coordination, facilitation, and advocacy with each NAVAIR competency participating in the design and logistics engineering processes.

**a. Human Engineering.** The AH-1W and UH-1N Helicopters are legacy aircraft. Their replacement with the AH-1Z and UH-1Y, respectively, will correct some of the Human Engineering deficiencies as addressed in their ORDs, each updated in October 2002.

Currently, all new design systems and software address the human-machine interface for operators, maintainers, and support personnel. For each aircraft, the cockpit layout and lack of avionics interface design causes high aircrew workload that degrades safety-of-flight and mission effectiveness. It also lacks integrated onboard mission planning, automatic target hands-off, fire control, and weapons management capabilities, thereby increasing Pilot workload. Under the aircraft support concept, the essential capabilities required will be divided into four categories and will be incorporated through a phased series of Preplanned Product Improvements and implemented through multiple Program Objective Memorandums initiatives. Required improvements include the following areas:

- Aircraft performance to meet mission requirements
- Random Access Memory
- Cockpit Human Engineering and integrated avionics designs to reduce Pilot workload
- Safety

The AH-1Z and UH-1Y Helicopters will incorporate the latest technologies and improvements including enhanced cockpit Human Engineering by fully consolidating and replacing multiple control panels, thus, maximizing mission essential systems management.

**b. Manpower, Personnel, and Training.** Details concerning the AH-1Z and UH-1Y Helicopters MPT domains of HSI are provided in the manning and training concepts in this NTSP.

**c. Habitability.** The AH-1Z and UH-1Y Helicopters will incorporate an advanced integrated cockpit, with commonality for 84 percent of the components between the AH-1Z and UH-1Y, providing Pilots the ability to fly either aircraft without requiring separate training. The H-1 Upgrade will enable interchangeable duty functions and allows Pilots to perform most functions without removing their hands from the collective and cyclic flight controls.

**d. Environment, Safety, and Occupational Health.** Environment, Safety, and Occupational Health (ESOH) issues associated with the AH-1W and UH-1N include inadequate aircrew and passenger protection due to a lack of a crashworthy aircrew and troop seats and a crashworthy auxiliary fuel system. The H-1 Upgrade corrects significant structural and dynamic component deficiencies that adversely affect safety of flight and operational readiness. After fleet introduction, ESOH factors will be continually evaluated, and any impact noted and corrected if required through the NAVAIR ECP review and approval process.

**e. Survivability.** Details regarding structural and dynamic component deficiencies impacting survivability are covered under the Description of New Development in this NTSP.

**K. SCHEDULES**

**1. Installation and Delivery Schedules.** Initial Operational Capability (IOC) for the H-1 Upgrades Program will be achieved when the first HMLA squadron receives a detachment of six AH-1Z and three UH-1Y Helicopters with required SE, technical publications, trained operators and aircrew, maintenance personnel, and initial spares with interim repair support in place. IOC for the AH-1Z Helicopter is expected to be achieved in FY09 while IOC for the UH-1Y Helicopter is expected to be achieved in FY08.

Full Operational Capability (FOC) for the H-1 Upgrades Program will be achieved when all maintenance and repair support, test equipment, and spares are in place; active force Primary Aircraft Authorization to include training, research and development aircraft are modified to a final, fully integrated configuration; and all personnel are trained. The AH-1Z and UH-1Y FOC quantity will be 132 AH-1Z and 66 UH-1Y Helicopters (inventory objective of 180 AH-1Z and 100 UH-1Y Helicopters). FOC for the AH-1Z Helicopter is expected to be achieved in FY15 while FOC for the UH-1Y Helicopter is expected to be achieved in FY12.

<b>UPGRADES SCHEDULE BY TYPE AIRCRAFT</b>											
	<b>FY06</b>	<b>FY07</b>	<b>FY08</b>	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>FY14</b>	<b>FY15</b>	<b>FY16</b>
<b>AH-1Z</b>	2	3	5	6	10	11	30	30	33	38	12
<b>UH-1Y</b>	3	7	10	15	14	14	14	14	9	-	-

The following table depicts an AH-1Z and UH-1Y Upgrade schedule by Lot number:

<b>TYPE</b>	<b>LOT NUMBER</b>	<b>FY</b>
AH-1Z	LOT I	FY06-07
UH-1Y	LOT I	FY06-07
AH-1Z	LOT II	FY07-08
UH-1Y	LOT II	FY07-08
AH-1Z	LOT III	FY08-09
UH-1Y	LOT III	FY08-09
AH-1Z	LOT IV	FY09
UH-1Y	LOT IV	FY09-10
AH-1Z	LOT V	FY10-11
UH-1Y	LOT V	FY10
AH-1Z	LOT VI	FY11

TYPE	LOT NUMBER	FY
UH-1Y	LOT VI	FY11
AH-1Z	LOT VII	FY12
UH-1Y	LOT VII	FY12
AH-1Z	LOT VIII	FY13
UH-1Y	LOT VIII	FY13
AH-1Z	LOT IX	FY14
UH-1Y	LOT IX	FY14
AH-1Z	LOT X	FY15
UH-1Y	LOT X	FY15
AH-1Z	LOT XI	FY16
UH-1Y	LOT XI	FY16

**2. Ready For Operational Use Schedule.** All HMLA squadrons will be Ready For Operational Use upon receipt of AH-1Z and UH-1Y Helicopters and when all Fleet Transition Training is complete. Current plans indicate that all AH-1Z and UH-1Y Helicopters will be accepted by HMT-303 prior to transferring helicopters to the transitioning HMLA squadron. A specific HMLA aircraft delivery schedule has not been identified, but current plans indicate that all West Coast HMLA squadrons will transition prior to the East Coast and Reserve HMLA squadrons. The following table depicts the AH-1Z and UH-1Y Helicopter Fleet Transition Training schedule:

**AH-1Z and UH-1Y Helicopter Fleet Introduction/Transition Training**

ACTIVITY	FY
HMT-303	FY06-07
HMLA-1 West	FY08
HMLA-2 West	FY08
HMLA-3 West	FY09
HMLA-4 West	FY09
HMLA-1 East	FY11
HMLA-2 East	FY11

**3. Time Required to Install at Operational Sites. NA**

**4. Foreign Military Sales and Other Source Delivery Schedule.** The DoD intends to pursue an aggressive FMS program; however, no FMS schedule has been developed. For information concerning FMS contact PMA276.

**5. Training Device and Technical Training Equipment Delivery Schedule.** AH-1W and UH-1N Helicopter legacy training systems must continue supporting fleet training throughout the AH-1Z and UH-1Y Upgrade Program transition period, currently scheduled to begin in FY06. The AH-1W and UH-1N Helicopter trainers are reaching the stage of obsolescence, and are in need of hardware and software configuration updates. Currently, through an AH-1W and UH-1N Helicopter TD acquisition effort, AH-1W and UH-1N TDs are being upgraded and modified. For further information concerning AH-1W and UH-1N Helicopter TD modifications refer to the AH-1W Aircraft NTSP, N78-NTSP-A-50-8520A/D, and UH-1N Aircraft NTSP, N78-NTSP-A-50-9404A/D.

#### **a. Weapons System Trainers**

**(1) AH-1W WST 2F136.** AH-1W WST 2F136 provides a realistic flight environment in which a Pilot and Gunner can develop the skills and techniques needed to efficiently and safely fly the AH-1W Helicopter throughout the spectrum of the AH-1W Helicopter missions. Currently, there are two AH-1W WST 2F136; one is located at Camp Pendleton, the second at New River. There will be no more AH-1W WSTs developed; new AH-1Z Helicopter Full Flight Simulators (FFS) will begin development in FY08 and be delivered to HMT-303 in FY10. The FFS will be a high fidelity motion flight simulator, self-contained, and networked (including tactical environment).

**(2) UH-1N WST 2F161.** UH-1N WST 2F161 has a fully instrumented cockpit that simulates Twin Huey operation on the ground, during takeoff, flight, and landing. UH-1N WST 2F161 is located at Camp Pendleton. There will be no more UH-1N WSTs developed; a new UH-1Y Helicopter FFS will begin to be developed in FY06 and delivered to HMT-303 in FY08. The FFS will be a high fidelity motion flight simulator, self-contained, and networked (including tactical environment).

#### **b. Aircrew Procedures Trainers**

**(1) AH-1W Aircrew Procedures Trainer (APT) 2F170.** AH-1W Aircrew Procedures Trainer (APT) 2F170 is a rugged, air-land-sea deployable flight, weapons, and procedure trainer for AH-1W Aircrew. The devices possess all the capabilities of the AH-1W WST, except for motion and simulated threat, and performs all functional checklists, including weapons systems and emergency procedures, both airborne and on the ground. Currently, there are three AH-1W APT 2F170s; they are located at Camp Pendleton, Johnstown, and Atlanta. There will be no more AH-1W APTs developed; new AH-1Z Helicopter Flight Training Devices (FTD) began development in FY04 and will be delivered to HMT-303 in FY07. The FTDs will be high fidelity flight simulators, self-contained, and networked (including tactical environment). The H-1 Upgrades Simulator Procurement Plan indicates funding for four AH-1Z FTDs to replace the AH-1W APTs. The new AH-1Z Helicopter FTD

will conform to the USMC Aviation Simulator Master Plan configuration. The first two AH-1Z Helicopter FTDs will be delivered to Camp Pendleton and New River.

**(2) UH-1N APT 2F175.** The UH-1N APT 2F175 is a deployable training system capable of simulating all ground, take-off, flight, operational, and landing characteristics of the UH-1N Helicopter. The APT device possesses all the capabilities of the UH-1N Aircraft WST, except for motion and simulated threat, and performs all functional checklists, including the weapons systems and emergency procedures, both airborne and on the ground. One UH-1N APT 2F175 is located at New River. There will be no more UH-1N APTs developed; new UH-1Y Helicopter FTDs began development in FY04 and will be delivered to HMT-303 in FY07. The FTD will be high fidelity flight simulators, self-contained, and networked (including tactical environment). The H-1 Upgrades Simulator Procurement Plan indicates funding for four UH-1Y FTDs to replace the UH-1N APT. The new UH-1Y Helicopter FTDs will conform to the USMC Aviation Simulator Master Plan configuration. The first two UH-1Y Helicopter FTDs will be delivered to Camp Pendleton and New River.

### c. Composite Maintenance Trainers

**(1) AH-1W CMT.** The AH-1W Composite Maintenance Trainer (CMT) consists of a complete AH-1W Helicopter airframe and avionics systems. There are currently two AH-1W CMTs located at CNATT MARUNIT MCAS Camp Pendleton. One AH-1Z EMD aircraft will be modified to CMT configuration and delivered CNATT MARUNIT MCAS Camp Pendleton in FY06. This AH-1Z EMD Aircraft will be “trainerized” with the incorporation of trainer unique modifications, installation of a power supply, and emergency/ safety stops. The instructor station, fault insertion, and AH-1Z production and trainer upgrades will start in FY07 and be completed in FY08. In FY07, the second AH-1Z EMD Aircraft will be modified to CMT configuration and delivered to CNATT MARUNIT MCAS Camp Pendleton. This second AH-1Z EMD Aircraft will also be “trainerized” with the incorporation of trainer unique modifications, installation of a power supply, and emergency/safety stops. The instructor station, fault insertion, and AH-1Z production and trainer upgrades will start in FY10 and be completed in FY11. A current AH-1W CMT will be updated and partially modified to the AH-1Z CMT configuration starting in FY11 and will be delivered in FY12, thus providing a total of two and a half AH-1Z CMTs for AH-1Z life cycle training requirements.

**(2) UH-1N CMT.** The UH-1N CMT consists of a complete UH-1N Helicopter airframe and avionics systems. There are currently three UH-1N CMTs located at CNATT MARUNIT MCAS Camp Pendleton. One UH-1Y EMD Aircraft will be modified to a CMT configuration and delivered CNATT MARUNIT MCAS Camp Pendleton in FY06. This UH-1Y EMD Aircraft will be “trainerized” with the incorporation of trainer unique modifications, installation of a power supply, and emergency/safety stops. The instructor station, fault insertion, and UH-1Y production and trainer upgrades will start in FY07 and be completed in FY08. In FY07, the second UH-1Y EMD Aircraft will be modified to CMT configuration and delivered to CNATT MARUNIT MCAS Camp Pendleton. This second UH-1Y EMD aircraft will also be “trainerized” with the incorporation of trainer unique modifications, installation of a power supply, and emergency/safety stops. The instructor station, fault insertion, and AH-1Z production and trainer upgrades will start in FY10 and be

completed in FY11. In FY09, one UH-1N CMT will be updated and modified to the UH-1Y CMT configuration, thus providing a total of three UH-1Y CMTs for UH-1Y life cycle training requirements.

**d. HMLA Part Task Trainer.** The HMLA Part Task Trainer (PTT) supports both AH-1W and UH-1N Helicopter training in the Fleet. The PTT is a personal computer, hosting software and hardware packages that allow system specific training. There are 35 HMLA PTTs throughout the Fleet. The HMLA PTTs will require AH-1Z and UH-1Y Helicopter upgrades. HMLA PTTs will begin to be developed in FY06.

**e. UH-1 Avionics Systems Trainer.** The AVT is a stricken helicopter modified for training. The AVT Device is located at CNATT MARUNIT MCAS Camp Pendleton and is used to conduct avionics maintenance training. At the current time there are no plans to modify the AVT to UH-1Y configuration. The AVT will continue to support UH-1N (two-bladed rotor system) as long as required and will be disposed of when UH-1N Helicopter requirements are complete in FY14.

**f. Electrical/Armament Trainer.** The EAT Device is a UH-1N Helicopter skeleton with electrical system and Improved Defense Armament System installed. The EAT is located at CNATT MARUNIT MCAS Camp Pendleton. At the current time there are no plans to modify the EAT to UH-1Y configuration. The EAT will continue to support UH-1N (two-bladed rotor system) as long as required and will be disposed of when UH-1N Helicopter requirements are complete in FY14.

**g. Engine Remove/Replace Trainer.** The ERRT Device is a skeleton AH-1W Helicopter that facilitates the removal and replacement of AH-1W engine, powertrain, combining gearboxes, transmission, main rotor mast, tail rotor driveshaft, and tail rotor systems maintenance. At the current time there are no plans to modify the ERRT to AH-1Z configuration. The ERT will continue to support AH-1W (two-bladed rotor system) as long as required and will be disposed of when AH-1W requirements are complete in FY14.

#### **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>NTSP NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
AH-1W Aircraft Navy System Training Plan	A-50-8520A/D	PMA205	Draft Jan 03
UH-1N Aircraft Navy System Training Plan	A-50-9404A/D	PMA205	Draft Jul 03
Non-Destructive Inspection Program Navy System Training Plan	A-50-8518B/A	AIR-522	Approved May 00
Aviation Life Support Systems Navy System Training Plan	A-50-9503C/D	PMA272	Draft Aug 01
A/F 27T-10 Hydraulic Component Test Stand Navy System Training Plan	A-50-9503/A	PMA260	Approved Feb 01
Advanced Composite Material repair Program Navy System Training Plan	A-50-8404D/A	PMA205	Approved May 01
AN/APX-100(V) Transponder Set	A-50-8305D	PMA209	Approved Mar 00
AN/ARC-182(V) Radio Set Navy System Training Plan	A-50-8115D/A	PMA209	Approved Mar 00
Tow Tractors	A-50-8411B	PMA260	Approved Jun 98
Instrument Repair Program Navy System Training Plan	A-50-8310/A	PMA260	Approved Apr 02
Metrology and Calibration Program Navy System Training Plan	A-50-8701B/A	AIR 3.6	Approved Oct 00

## PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the H-1 Upgrades Program (AH-1Z and UH-1Y) and, therefore, are not included in Part II of this NTSP:

### II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

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

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

The following billets are for existing AH-1W and UH-1N Helicopter manpower requirements. It was determined that the H-1 Upgrade Program will not change the operational use of the AH-1Z and UH-1Y Helicopters or generate a need for additional billets.

**II.A. BILLET REQUIREMENTS**

**SOURCE OF BILLETS**

Extracts from Tables of Organization  
Total Force Manpower Management System (TFMMS)

DATE: Nov 2003

DATE: Nov 2003

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

ACTIVITY, UIC		PFYs	CFY08	FY09	FY10	FY11	FY12
<b>OPERATIONAL ACTIVITIES - USMC</b>							
HMLA-167 MCAS New River	01167	1	0	0	0	0	0
HMLA-269 MCAS New River	01269	1	0	0	0	0	0
HMLA-773 (-) NAS Atlanta	01773	1	0	0	0	0	0
HMLA-773 Det A JRB Bell Chase	01767	1	0	0	0	0	0
HMLA-775 Det A JRB Johnstown	03017	1	0	0	0	0	0
HMX-1 MCB Quantico	02403	1	0	0	0	0	0
HMLA-169 MCAS Camp Pendleton	01173	1	0	0	0	0	0
HMLA-267 MCAS Camp Pendleton	01267	1	0	0	0	0	0
HMLA-367 MCAS Camp Pendleton	01367	1	0	0	0	0	0
HMLA-369 MCAS Camp Pendleton	01369	1	0	0	0	0	0
HMLA-775 (-) MCAS Camp Pendleton	04780	1	0	0	0	0	0
HMT-303 MCAS Camp Pendleton	01303	1	0	0	0	0	0
<b>TOTAL:</b>		12	0	0	0	0	0
<b>FLEET SUPPORT ACTIVITIES - USN</b>							
MC Special Assignment Navy Department	54008	1	0	0	0	0	0
Flag and Staff Allow, U.S. PAC FLT and NAVEUR	56001	1	0	0	0	0	0
Navy Fighter Weapons School, NAS Fallon	87237	1	0	0	0	0	0
<b>TOTAL:</b>		3	0	0	0	0	0
<b>FLEET SUPPORT ACTIVITIES - USMC</b>							
4th MAW HQ (-) JRB New Orleans	20016	1	0	0	0	0	0
4th MAW Training BR MATSG, NATTC	04160	1	0	0	0	0	0
CNARF, JRB New Orleans	20016	1	0	0	0	0	0
Defense Logistics Agency	45947	1	0	0	0	0	0
EAMTMU	06050	1	0	0	0	0	0
H&HS MCAS Beaufort	02031	1	0	0	0	0	0
H&HS NADEP MCAS Cherry Point	02016	1	0	0	0	0	0
HQMC, Aviation Department	00027	1	0	0	0	0	0
MAD, NAS Patuxent River	06040	1	0	0	0	0	0
MAG HQ (Rotary Wing)	00029	5	0	0	0	0	0
MAG-42 (RW) NAS Marietta	00049	1	0	0	0	0	0
MAG-49 (RW) JRB Willow Grove	00051	1	0	0	0	0	0
MALS (RW)	00001	1	0	0	0	0	0
MALS-26 MCAS New River	01074	1	0	0	0	0	0
MALS-29 MCAS New River	01227	1	0	0	0	0	0
MALS-36 MCAS Futenma, Japan	01024	1	0	0	0	0	0
MALS-39 MCAS Camp Pendleton	01158	1	0	0	0	0	0
MALS-42 (RW) NAS Marietta	04156	1	0	0	0	0	0
MALS-49 (RW) ANGB Fort Stewart	01197	1	0	0	0	0	0

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

ACTIVITY, UIC		PFYs	CFY08	FY09	FY10	FY11	FY12
MARCOR Asgn Allied/UN Cnds	XXXXX	1	0	0	0	0	0
MARCOR Asgn USA/USAF	00002	1	0	0	0	0	0
Marine Aviation Weapons and Tactics Squadron	01243	1	0	0	0	0	0
MASD Andrews AFB	04080	1	0	0	0	0	0
MAW HQ	00201	1	0	0	0	0	0
MC Personnel Asgn Joint and Unfied Cnds	XXXXX	1	0	0	0	0	0
MC Personnel Dept of Navy Non-Dept	65045	1	0	0	0	0	0
MC Systems Command, Quantico	XXXXX	1	0	0	0	0	0
MCCDC, Quantico	XXXXX	1	0	0	0	0	0
MTN Warfare Training Center	33610	1	0	0	0	0	0
NAMTRAGRU, MARCOR Pers	06050	1	0	0	0	0	0
Site Support, JRB Belle Chase	03017	1	0	0	0	0	0
US Joint Forces Command and Subordinates	00003	1	0	0	0	0	0
H&HS MCAS Camp Pendleton	02208	1	0	0	0	0	0
H&HS MCAS Yuma	02230	1	0	0	0	0	0
MAD, China Lake	XXXXX	1	0	0	0	0	0
MAD, NAS China Lake	06117	1	0	0	0	0	0
MAGTF Trng Com, 29 Palms	XXXXX	1	0	0	0	0	0
MALS-24 (-) MCBH Kaneohe Bay	01071	1	0	0	0	0	0
MARFORPAC HQ	67025	1	0	0	0	0	0
<b>TOTAL:</b>		43	0	0	0	0	0

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USMC					
<b>HMLA-167 MCAS New River, 01167</b>					
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	LT	6002	
	9	0	LT	7563	
	15	0	LT	7565	
USN ACDU	1	0	LT	2102	
USMC	1	0	CWO4	6004	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	0	1	SGTMAJ	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	3	GYSGT	6012	
	0	3	GYSGT	6114	
	0	3	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
	0	3	GYSGT	9954	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	3	SSGT	6012	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	6	SSGT	6114	
	0	3	SSGT	6124	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8711	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	6	SGT	6012	
	0	3	SGT	6033	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	3	SGT	6124	
	0	9	SGT	6154	
	0	3	SGT	6174	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	SGT	6177	6174
	0	9	SGT	6324	
	0	3	SGT	6413	
	0	6	SGT	6531	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	1	SGT	8421	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	6	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	3	CPL	6124	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	9	CPL	6531	
	0	6	CPL	6541	
	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	6	LCPL	6043	
	0	3	LCPL	6046	
	0	3	LCPL	6062	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	3	LCPL	6132	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	3	LCPL	6413	
	0	3	LCPL	6422	6412
0	3	LCPL	6433		
0	6	LCPL	6492		
0	12	LCPL	6531		
0	9	LCPL	6541		
0	3	LCPL	6672		
0	3	LCPL	7041		
USN ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
<b>ACTIVITY TOTAL:</b>	72	389			

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			
HMLA-269 MCAS New River, 01269					
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	LT	6002	
	9	0	LT	7563	
	15	0	LT	7565	
USN ACDU	1	0	LT	2102	
USMC	1	0	CWO4	6004	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	0	1	SGTMAJ	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	3	GYSGT	6012	
	0	3	GYSGT	6114	
	0	3	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
	0	3	GYSGT	9954	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	3	SSGT	6012	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	6	SSGT	6114	
	0	3	SSGT	6124	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8711	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	6	SGT	6012	
	0	3	SGT	6033	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	3	SGT	6124	
	0	9	SGT	6154	
	0	3	SGT	6174	

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	1	SGT	6177	6174
	0	9	SGT	6324	
	0	3	SGT	6413	
	0	6	SGT	6531	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	1	SGT	8421	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	6	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	3	CPL	6124	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	9	CPL	6531	
	0	6	CPL	6541	
	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	6	LCPL	6043	
	0	3	LCPL	6046	
	0	3	LCPL	6062	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	3	LCPL	6132	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	3	LCPL	6413	
	0	3	LCPL	6422	
0	3	LCPL	6433		
0	6	LCPL	6492		
0	12	LCPL	6531		
0	9	LCPL	6541		
0	3	LCPL	6672		
0	3	LCPL	7041		
USN ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
<b>ACTIVITY TOTAL:</b>	<b>72</b>	<b>389</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			
HMLA-773 (-) NAS Atlanta, 01773					
USMC	2	0	CAPT	7563	
	1	0	CAPT	7565	
	1	0	CAPT	7565	7577
	1	0	CWO3	6004	
	1	0	CWO2	6502	
USN ACDU	1	0	LT	2102	
USMC	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	1	GYSGT	6114	
	0	1	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
	0	1	SSGT	6046	
	0	2	SSGT	6048	
	0	2	SSGT	6114	
	0	1	SSGT	6124	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
	0	1	SSGT	8711	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	1	SGT	6012	
	0	1	SGT	6033	
	0	1	SGT	6072	
	0	2	SGT	6114	
	0	2	SGT	6124	
	0	3	SGT	6154	
	0	2	SGT	6174	
	0	1	SGT	6177	6174
	0	3	SGT	6324	
	0	1	SGT	6413	
	0	2	SGT	6531	
	0	1	SGT	6672	
	0	1	SGT	8421	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	2	CPL	6046	
	0	2	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6174	
	0	2	CPL	6324	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6541	

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	LCPL	0121		
	0	1	LCPL	0431		
	0	1	LCPL	2111		
	0	1	LCPL	6043		
	0	1	LCPL	6062		
	0	1	LCPL	6072		
	0	5	LCPL	6114		
	0	1	LCPL	6132		
	0	4	LCPL	6154		
	0	1	LCPL	6174		
	0	5	LCPL	6324		
	0	1	LCPL	6413		
	0	1	LCPL	6422		
	0	2	LCPL	6492		
	0	3	LCPL	6531		
	0	2	LCPL	6541		
	0	1	LCPL	6672		
	0	2	LCPL	7041		
	USN ACDU	0	1	HM1	8404	
		0	1	HM2	8406	
AR	2	0	MAJ	7565		
	1	0	CAPT	7563		
	1	0	CAPT	7565		
	1	0	CWO2	0170		
	0	1	MSGT	0193		
	0	1	GYSGT	6012		
	0	1	GYSGT	6531		
	0	1	GYSGT	9954		
	0	1	SSGT	6012		
	0	1	SSGT	6046		
	0	1	SSGT	7041		
	0	1	SGT	6012		
	0	1	SGT	6046		
	0	3	SGT	6114		
	0	1	SGT	6154		
	0	1	SGT	6531		
	0	1	SGT	6541		
	0	2	CPL	0121		
	0	1	CPL	6048		
	0	1	CPL	6073		
	0	2	CPL	6114		
	0	2	CPL	6154		
	0	1	CPL	6324		
0	4	CPL	6531			
0	2	LCPL	6114			

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			
SMCR	1	0	LTCOL	7563	7577
	1	0	LTCOL	7565	
	2	0	MAJ	7563	
	3	0	MAJ	7565	
	3	0	CAPT	7563	
	1	0	CAPT	7563	
	11	0	CAPT	7565	
	1	0	LT	6002	
	4	0	LT	7563	
	12	0	LT	7565	
	1	0	CWO2	6302	
	0	1	SGTMAJ	9999	
	0	1	GYSGT	6012	
	0	1	GYSGT	6114	
	0	2	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
	0	1	SSGT	0231	
	0	1	SSGT	6012	
	0	1	SSGT	6043	
	0	1	SSGT	6046	
	0	2	SSGT	6114	
	0	1	SSGT	6124	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	3	SSGT	6324	
	0	2	SSGT	6531	
	0	2	SGT	6012	
	0	1	SGT	6072	
	0	3	SGT	6114	
	0	2	SGT	6154	
	0	4	SGT	6324	
	0	1	SGT	6413	
	0	1	SGT	6531	
	0	1	SGT	6541	
	0	1	SGT	6672	
	0	3	CPL	6033	
	0	1	CPL	6046	
	0	1	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6073	
	0	9	CPL	6114	
	0	2	CPL	6124	
	0	8	CPL	6154	
	0	4	CPL	6174	
0	10	CPL	6324		
0	1	CPL	6433		

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			
SMCR	0	1	CPL	6483	
	0	2	CPL	6531	
	0	2	CPL	6541	
	0	1	LCPL	0151	
	0	2	LCPL	0231	
	0	2	LCPL	0431	
	0	1	LCPL	6042	
	0	2	LCPL	6046	
	0	1	LCPL	6062	
	0	1	LCPL	6072	
	0	13	LCPL	6114	
	0	1	LCPL	6132	
	0	14	LCPL	6154	
	0	3	LCPL	6174	
	0	6	LCPL	6324	
	0	1	LCPL	6413	
	0	1	LCPL	6422	
	0	2	LCPL	6433	
	0	2	LCPL	6492	
	0	5	LCPL	6531	
	0	4	LCPL	6541	
	0	1	LCPL	6672	
<b>ACTIVITY TOTAL:</b>	<b>52</b>	<b>266</b>			
<b>HMLA-773 Det A JRB Bell Chase, 01767</b>					
USMC	2	0	CAPT	7563	
	1	0	CAPT	7565	
	0	1	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
	0	1	SSGT	6012	
	0	1	SSGT	6046	
	0	1	SSGT	6048	
	0	2	SSGT	6114	
	0	1	SSGT	6124	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
	0	1	SGT	6012	
	0	1	SGT	6033	
	0	1	SGT	6062	
	0	1	SGT	6114	
	0	1	SGT	6124	

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	1	SGT	6174	
	0	1	SGT	6324	
	0	1	SGT	6413	
	0	1	SGT	6531	
	0	1	SGT	6672	
	0	1	CPL	6046	
	0	1	CPL	6048	
	0	1	CPL	6124	
	0	1	CPL	6174	
	0	2	CPL	6324	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6541	
	0	1	LCPL	0121	
	0	1	LCPL	0431	
	0	1	LCPL	6043	
	0	1	LCPL	6072	
	0	5	LCPL	6114	
	0	1	LCPL	6132	
	0	3	LCPL	6154	
	0	1	LCPL	6174	
	0	4	LCPL	6324	
	0	1	LCPL	6422	
	0	2	LCPL	6492	
	0	2	LCPL	6531	
	0	2	LCPL	6541	
	0	1	LCPL	6672	
0	1	LCPL	7041		
USN ACDU	0	1	HM2	8406	
AR	2	0	MAJ	7565	
	1	0	CAPT	7563	
	1	0	CAPT	7565	
	0	1	GYSGT	6012	
	0	1	GYSGT	6114	
	0	1	GYSGT	9954	
	0	1	SSGT	6531	
	0	1	SGT	6541	
	0	1	SGT	6012	
	0	1	SGT	6072	
	0	2	SGT	6114	
	0	3	SGT	6154	
	0	1	CPL	0121	
	0	1	CPL	6046	
	0	1	CPL	6048	
	0	1	CPL	6073	
	0	2	CPL	6114	
	0	2	CPL	6154	
	0	2	CPL	6531	
0	1	LCPL	6114		

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			
SMCR	1	0	MAJ	7563	
	4	0	CAPT	7565	
	2	0	LT	7563	
	6	0	LT	7565	
	0	1	SSGT	0193	
	0	1	SSGT	6324	
	0	1	SGT	6114	
	0	1	SGT	6324	
	0	1	SGT	6531	
	0	1	CPL	6033	
	0	3	CPL	6114	
	0	3	CPL	6154	
	0	1	CPL	6174	
	0	4	CPL	6324	
	0	1	CPL	6531	
	0	1	LCPL	0231	
	0	1	LCPL	6046	
	0	1	LCPL	6062	
	0	4	LCPL	6114	
	0	5	LCPL	6154	
	0	1	LCPL	6174	
	0	3	LCPL	6324	
	0	1	LCPL	6413	
	0	1	LCPL	6433	
	0	2	LCPL	6531	
	0	1	LCPL	6541	
<b>ACTIVITY TOTAL:</b>	<b>20</b>	<b>122</b>			
<b>HMLA-775 Det A JRB Johnstown, 03017</b>					
USMC	1	0	MAJ	7563	
	3	0	CAPT	7563	
	1	0	CAPT	7565	
	0	1	GYSGT	6114	
	0	1	GYSGT	6324	
	0	1	SSGT	6048	
	0	2	SSGT	6114	
	0	1	SSGT	6124	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
	0	2	SGT	6012	
	0	1	SGT	6033	
	0	1	SGT	6114	
	0	1	SGT	6124	
	0	2	SGT	6154	
	0	1	SGT	6174	
	0	1	SGT	6324	

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	1	SGT	6413	
	0	1	SGT	6531	
	0	1	SGT	6672	
	0	2	CPL	6046	
	0	2	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6073	
	0	3	CPL	6114	
	0	1	CPL	6124	
	0	3	CPL	6154	
	0	1	CPL	6174	
	0	2	CPL	6324	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6531	
	0	2	CPL	6541	
	0	1	LCPL	0121	
	0	1	LCPL	0431	
	0	1	LCPL	6043	
	0	1	LCPL	6072	
	0	6	LCPL	6114	
	0	1	LCPL	6132	
	0	3	LCPL	6154	
	0	1	LCPL	6174	
	0	4	LCPL	6324	
	0	1	LCPL	6422	
	0	2	LCPL	6492	
0	2	LCPL	6531		
0	2	LCPL	6541		
0	1	LCPL	6672		
0	1	LCPL	7041		
USN ACDU	0	1	HM2	8406	
AR	1	0	MAJ	7565	
	1	0	CAPT	7565	
	0	1	GYSGT	6012	
	0	1	GYSGT	6154	
	0	1	GYSGT	6531	
	0	1	GYSGT	9954	
	0	1	SSGT	0193	
	0	1	SSGT	6046	
	0	1	SSGT	6531	
	0	1	SGT	6072	
	0	1	SGT	6114	
	0	1	SGT	6154	
	0	1	SGT	6324	
	0	1	SGT	6541	
	0	1	CPL	0121	

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			
SMCR	1	0	MAJ	7565	
	4	0	CAPT	7565	
	2	0	LT	7563	
	6	0	LT	7565	
	0	1	SSGT	6012	
	0	1	SSGT	6324	
	0	2	SGT	6114	
	0	1	SGT	6531	
	0	1	CPL	6033	
	0	2	CPL	6114	
	0	2	CPL	6154	
	0	1	CPL	6174	
	0	4	CPL	6324	
	0	1	CPL	6531	
	0	1	LCPL	0231	
	0	1	LCPL	6046	
	0	1	LCPL	6062	
	0	4	LCPL	6114	
	0	5	LCPL	6154	
	0	1	LCPL	6174	
0	3	LCPL	6324		
0	1	LCPL	6413		
0	1	LCPL	6433		
0	2	LCPL	6531		
0	1	LCPL	6541		
<b>ACTIVITY TOTAL:</b>	<b>20</b>	<b>122</b>			
<b>HMX-1 MCB Quantico, 02403</b>					
USMC	3	0	MAJ	7563	
	2	0	MAJ	7565	
	7	0	CAPT	7563	
	1	0	CAPT	7565	
	0	1	GYSGT	6124	
	0	1	GYSGT	6174	
	0	1	GYSGT	6324	
	0	1	SSGT	6114	
	0	2	SSGT	6154	
	0	1	SSGT	6324	
	0	1	SGT	6154	
	0	2	SGT	6324	
	0	11	CPL	6154	
	0	2	CPL	6324	
	0	2	LCPL	6124	
	0	8	LCPL	6154	
	0	4	LCPL	6324	
<b>ACTIVITY TOTAL:</b>	<b>13</b>	<b>37</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			
HMLA-169 MCAS Camp Pendleton, 01173					
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	LT	6002	
	9	0	LT	7563	
	15	0	LT	7565	
USN ACDU	1	0	LT	2102	
USMC	1	0	CWO4	6004	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	0	1	SGTMAJ	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	3	GYSGT	6012	
	0	3	GYSGT	6114	
	0	3	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
	0	3	GYSGT	9954	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	3	SSGT	6012	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	6	SSGT	6114	
	0	3	SSGT	6124	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8711	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	6	SGT	6012	
	0	3	SGT	6033	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	3	SGT	6124	
	0	9	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	9	SGT	6324	

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	3	SGT	6413	
	0	6	SGT	6531	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	1	SGT	8421	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	6	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	3	CPL	6124	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	9	CPL	6531	
	0	6	CPL	6541	
	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	6	LCPL	6043	
	0	3	LCPL	6046	
	0	3	LCPL	6062	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	3	LCPL	6132	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	3	LCPL	6413	
	0	3	LCPL	6422	6412
	0	3	LCPL	6433	
	0	6	LCPL	6492	
0	12	LCPL	6531		
0	9	LCPL	6541		
0	3	LCPL	6672		
0	3	LCPL	7041		
USN ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
<b>ACTIVITY TOTAL:</b>	<b>72</b>	<b>389</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			
HMLA-267 MCAS Camp Pendleton, 01267					
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	LT	6002	
	9	0	LT	7563	
	15	0	LT	7565	
USN ACDU	1	0	LT	2102	
USMC	1	0	CWO4	6004	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	0	1	SGTMAJ	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	3	GYSGT	6012	
	0	3	GYSGT	6114	
	0	3	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
	0	3	GYSGT	9954	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	3	SSGT	6012	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	6	SSGT	6114	
	0	3	SSGT	6124	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8711	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	6	SGT	6012	
	0	3	SGT	6033	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	3	SGT	6124	
	0	9	SGT	6154	
	0	3	SGT	6174	

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	1	SGT	6177	6174
	0	9	SGT	6324	
	0	3	SGT	6413	
	0	6	SGT	6531	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	1	SGT	8421	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	6	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	3	CPL	6124	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	9	CPL	6531	
	0	6	CPL	6541	
	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	6	LCPL	6043	
	0	3	LCPL	6046	
	0	3	LCPL	6062	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	3	LCPL	6132	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	3	LCPL	6413	
	0	3	LCPL	6422	6412
0	3	LCPL	6433		
0	6	LCPL	6492		
0	12	LCPL	6531		
0	9	LCPL	6541		
0	3	LCPL	6672		
0	3	LCPL	7041		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USN ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
<b>ACTIVITY TOTAL:</b>	<b>72</b>	<b>389</b>			
<b>HMLA-367 MCAS Camp Pendleton, 01367</b>					
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	LT	6002	
	9	0	LT	7563	
	15	0	LT	7565	
USN ACDU	1	0	LT	2102	
USMC	1	0	CWO4	6004	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	0	1	SGTMAJ	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	3	GYSGT	9954	
	0	3	GYSGT	6012	
	0	3	GYSGT	6114	
	0	3	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	3	SSGT	6012	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	6	SSGT	6114	
	0	3	SSGT	6124	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8711	
	0	1	SGT	0151	
	0	1	SGT	0431	

**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	6	SGT	6012	
	0	3	SGT	6033	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	3	SGT	6124	
	0	9	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	9	SGT	6324	
	0	3	SGT	6413	
	0	6	SGT	6531	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	1	SGT	8421	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	6	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	3	CPL	6124	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	9	CPL	6531	
	0	6	CPL	6541	
	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	6	LCPL	6043	
	0	3	LCPL	6046	
	0	3	LCPL	6062	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	3	LCPL	6132	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	3	LCPL	6413	
	0	3	LCPL	6422	6412
0	3	LCPL	6433		
0	6	LCPL	6492		
0	12	LCPL	6531		

**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	9	LCPL	6541		
	0	3	LCPL	6672		
	0	3	LCPL	7041		
	USN ACDU	0	1	HM1	8404	
		0	3	HM2	8406	
<b>ACTIVITY TOTAL:</b>	<b>72</b>	<b>389</b>				
<b>HMLA-369 MCAS Camp Pendleton, 01369</b>						
USMC	1	0	LTCOL	7563		
	1	0	LTCOL	7565		
	3	0	MAJ	7563		
	6	0	MAJ	7565		
	9	0	CAPT	7563		
	1	0	CAPT	7563	7577	
	21	0	CAPT	7565		
	1	0	LT	6002		
	9	0	LT	7563		
	15	0	LT	7565		
	USN ACDU	1	0	LT	2102	
	USMC	1	0	CWO4	6004	
		1	0	CWO2	0170	
		1	0	CWO2	6302	
		1	0	CWO2	6502	
		0	1	SGTMAJ	9999	
		0	1	MSGT	0193	
		0	1	MSGT	6019	
		0	1	MSGT	6391	
		0	3	GYSGT	6012	
		0	3	GYSGT	6114	
		0	3	GYSGT	6154	
		0	3	GYSGT	6324	
0		4	GYSGT	6531		
0		3	GYSGT	9954		
0		1	SSGT	0193		
0		1	SSGT	0231		
0		3	SSGT	6012		
0		4	SSGT	6046		
0		3	SSGT	6048		
0		6	SSGT	6114		
0		3	SSGT	6124		
0		3	SSGT	6154		
0		3	SSGT	6174		
0	6	SSGT	6324			
0	3	SSGT	6531			
0	1	SSGT	7041			
0	1	SSGT	8711			
0	1	SGT	0151			
0	1	SGT	0431			
0	6	SGT	6012			

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	3	SGT	6033	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	3	SGT	6124	
	0	9	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	9	SGT	6324	
	0	3	SGT	6413	
	0	6	SGT	6531	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	1	SGT	8421	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	6	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	3	CPL	6124	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	9	CPL	6531	
	0	6	CPL	6541	
	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	6	LCPL	6043	
	0	3	LCPL	6046	
	0	3	LCPL	6062	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
0	3	LCPL	6132		
0	26	LCPL	6154		
0	6	LCPL	6174		
0	18	LCPL	6324		

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	3	LCPL	6413	6412
	0	3	LCPL	6422	
	0	3	LCPL	6433	
	0	6	LCPL	6492	
	0	12	LCPL	6531	
	0	9	LCPL	6541	
	0	3	LCPL	6672	
	0	3	LCPL	7041	
	0	3	LCPL	7041	
USN ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
<b>ACTIVITY TOTAL:</b>	<b>72</b>	<b>389</b>			
<b>HMLA-775 (-) MCAS Camp Pendleton, 04780</b>					
USMC	1	0	CAPT	7563	
	2	0	CAPT	7565	
USN ACDU	1	0	LT	2102	
USMC	1	0	CWO3	6004	6174
	1	0	CWO2	6502	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	1	GYSGT	6114	
	0	1	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
	0	1	SSGT	6046	
	0	2	SSGT	6048	
	0	2	SSGT	6114	
	0	1	SSGT	6124	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
	0	1	SSGT	8711	
	0	1	SGT	0431	
	0	1	SGT	6012	
	0	1	SGT	6033	
	0	1	SGT	6072	
	0	2	SGT	6114	
	0	2	SGT	6124	
	0	3	SGT	6154	
0	2	SGT	6174		
0	1	SGT	6177		
0	3	SGT	6324		
0	1	SGT	6413		
0	2	SGT	6531		
0	1	SGT	6672		
0	1	SGT	8421		

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	CPL	0151	
	0	1	CPL	6042	
	0	1	CPL	6046	
	0	2	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6174	
	0	2	CPL	6324	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6541	
	0	2	LCPL	0121	
	0	1	LCPL	0431	
	0	1	LCPL	2111	
	0	1	LCPL	6043	
	0	1	LCPL	6062	
	0	1	LCPL	6072	
	0	5	LCPL	6114	
	0	1	LCPL	6132	
	0	5	LCPL	6154	
	0	1	LCPL	6174	
	0	5	LCPL	6324	
	0	1	LCPL	6413	
	0	1	LCPL	6422	
	0	2	LCPL	6492	
	0	3	LCPL	6531	
	0	2	LCPL	6541	
	0	1	LCPL	6672	
0	2	LCPL	7041		
USN ACDU	0	1	HM1	8404	
	0	1	HM2	8406	
AR	2	0	MAJ	7565	
	1	0	CAPT	7563	
	1	0	CWO2	0170	
	0	1	MSGT	0193	
	0	1	GYSGT	6012	
	0	1	GYSGT	6531	
	0	1	GYSGT	9954	
	0	1	SSGT	0231	
	0	1	SSGT	6012	
	0	1	SSGT	6046	
	0	1	SSGT	7041	
	0	1	SGT	6012	
	0	3	SGT	6114	
	0	1	SGT	6154	
	0	1	SGT	6531	
	0	1	SGT	6541	
	0	2	CPL	0121	

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			
AR	0	1	CPL	6046	
	0	1	CPL	6048	
	0	1	CPL	6073	
	0	3	CPL	6114	
	0	1	CPL	6154	
	0	1	CPL	6324	
	0	4	CPL	6531	
	0	2	LCPL	6114	
SMCR	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	2	0	MAJ	7563	
	3	0	MAJ	7565	
	3	0	CAPT	7563	
	1	0	CAPT	7563	7577
	11	0	CAPT	7565	
	1	0	LT	6002	
	4	0	LT	7563	
	12	0	LT	7565	
	1	0	CWO2	6302	
	0	1	SGTMAJ	9999	
	0	1	GYSGT	6012	
	0	1	GYSGT	6114	
	0	2	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
	0	1	SSGT	6012	
	0	1	SSGT	6043	
	0	1	SSGT	6046	
	0	2	SSGT	6114	
	0	1	SSGT	6124	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	3	SSGT	6324	
	0	2	SSGT	6531	
	0	2	SGT	6012	
	0	1	SGT	6072	
	0	3	SGT	6114	
	0	2	SGT	6154	
	0	4	SGT	6324	
	0	1	SGT	6413	
	0	1	SGT	6531	
	0	1	SGT	6541	
	0	1	SGT	6672	
	0	3	CPL	6033	
0	2	CPL	6046		
0	1	CPL	6048		
0	1	CPL	6062		
0	1	CPL	6073		

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			
SMCR	0	7	CPL	6114	
	0	2	CPL	6124	
	0	9	CPL	6154	
	0	4	CPL	6174	
	0	10	CPL	6324	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6531	
	0	2	CPL	6541	
	0	1	LCPL	0151	
	0	2	LCPL	0231	
	0	2	LCPL	0431	
	0	1	LCPL	6042	
	0	2	LCPL	6046	
	0	1	LCPL	6062	
	0	1	LCPL	6072	
	0	14	LCPL	6114	
	0	1	LCPL	6132	
	0	13	LCPL	6154	
	0	3	LCPL	6174	
	0	6	LCPL	6324	
	0	1	LCPL	6413	
	0	1	LCPL	6422	
	0	2	LCPL	6433	
	0	2	LCPL	6492	
	0	5	LCPL	6531	
	0	4	LCPL	6541	
0	1	LCPL	6672		
<b>ACTIVITY TOTAL:</b>	<b>50</b>	<b>266</b>			
<b>HMT-303 MCAS Camp Pendleton, 01303</b>					
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	1	0	CAPT	6002	
	1	0	CAPT	6004	
	1	0	CWO3	6302	
	1	0	CWO2	0170	
	1	0	CWO2	6502	
	0	1	SGTMAJ	9999	
	0	2	MGYSGT	6019	
	0	1	MGYSGT	6391	
	0	1	MSGT	6019	
	0	1	GYSGT	0193	
	0	2	GYSGT	6114	
	0	2	GYSGT	6174	
	0	2	GYSGT	6324	
	0	1	GYSGT	6531	
	0	1	SSGT	0193	
	0	1	SSGT	6012	

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	SSGT	6046	
	0	1	SSGT	6048	
	0	4	SSGT	6114	
	0	5	SSGT	6154	
	0	2	SSGT	6174	
	0	5	SSGT	6324	
	0	2	SSGT	6483	
	0	4	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8711	
	0	1	SGT	0151	
	0	3	SGT	6012	
	0	1	SGT	6033	
	0	1	SGT	6046	
	0	2	SGT	6048	
	0	1	SGT	6062	
	0	2	SGT	6072	
	0	3	SGT	6114	
	0	1	SGT	6124	
	0	5	SGT	6174	
	0	2	SGT	6324	
	0	1	SGT	6433	
	0	1	SGT	6483	
	0	1	SGT	6492	
	0	3	SGT	6531	
	0	3	SGT	6541	
	0	1	SGT	6672	
	0	1	SGT	8421	
	0	2	CPL	0121	
	0	2	CPL	0151	
	0	1	CPL	0431	
	0	1	CPL	6043	
	0	1	CPL	6046	
	0	1	CPL	6048	
	0	1	CPL	6062	
	0	21	CPL	6114	
	0	2	CPL	6124	
	0	1	CPL	6132	
	0	6	CPL	6154	
	0	12	CPL	6174	
0	10	CPL	6324		
0	2	CPL	6413		
0	3	CPL	6423		
0	2	CPL	6433		
0	1	CPL	6483		
0	2	CPL	6492		
0	8	CPL	6531		
0	1	CPL	7041		

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	LCPL	0121	
	0	1	LCPL	2111	
	0	1	LCPL	5711	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	6	LCPL	6048	
	0	1	LCPL	6062	
	0	3	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6092	
	0	35	LCPL	6114	
	0	3	LCPL	6124	
	0	1	LCPL	6132	
	0	14	LCPL	6154	
	0	11	LCPL	6174	
	0	11	LCPL	6324	
	0	3	LCPL	6412	
	0	3	LCPL	6413	
	0	3	LCPL	6483	
	0	14	LCPL	6531	
0	3	LCPL	6541		
0	7	LCPL	6672		
0	3	LCPL	7041		
<b>ACTIVITY TOTAL:</b>	7	288			
FLEET SUPPORT ACTIVITIES - USN					
<b>MC Special Assignment Navy Department, 54008</b>					
USMC	1	0	LTCOL	9957	7565
	1	0	LTCOL	9958	7563
	4	0	LTCOL	9958	7565
	1	0	MAJ	9958	7563
	1	0	CAPT	9957	7563
	0	1	GYSGT	9960	6114
<b>ACTIVITY TOTAL:</b>	8	1			
<b>Flag and Staff Allow, U.S. Pacific Fleet and NAVEUR, 56001</b>					
USMC	0	1	GYSGT	6324	
<b>ACTIVITY TOTAL:</b>	0	1			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>Navy Fighter Weapons School, NAS Fallon, 87237</b>					
USMC	0	1	SGT	6531	
	0	3	CPL	6531	
<b>ACTIVITY TOTAL:</b>	0	4			
FLEET SUPPORT ACTIVITIES - USMC					
<b>4th MAW HQ (-) JRB New Orleans, 20016</b>					
USMC	0	1	SSGT	6531	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>4th MAW Training BR MATSG, NATTC Pensacola, 04160</b>					
AR	0	1	GYSGT	6114	
	0	1	SSGT	6114	
<b>ACTIVITY TOTAL:</b>	0	2			
<b>CNARF, JRB New Orleans, 20016</b>					
USMC	0	1	GYSGT	6531	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>Defense Logistics Agency, 45947</b>					
USMC	1	0	CAPT	7565	
	0	1	SSGT	6154	
<b>ACTIVITY TOTAL:</b>	1	1			
<b>EAMTMU, 06050</b>					
USMC	0	1	GYSGT	6114	
	0	1	SSGT	6531	
<b>ACTIVITY TOTAL:</b>	0	2			
<b>H&amp;HS MCAS Beaufort, 02031</b>					
USMC	0	1	CPL	6433	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>H&amp;HS NADEP MCAS Cherry Point, 02016</b>					
USMC	1	0	LT	7563	7565
	0	1	SGT	6174	
<b>ACTIVITY TOTAL:</b>	1	1			

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>HQMC, Aviation Department, 00027</b>					
USMC	1	0	LTCOL	9958	7565
	0	1	GYSGT	6531	
<b>ACTIVITY TOTAL:</b>	<b>1</b>	<b>1</b>			
<b>MAD, NAS Patuxent River, 06040</b>					
USMC	1	0	MAJ	9957	7565
	1	0	CAPT	9957	7563
	0	1	GYSGT	6174	
	0	1	GYSGT	6531	
	0	1	SGT	6531	
	0	1	CPL	6531	
<b>ACTIVITY TOTAL:</b>	<b>2</b>	<b>4</b>			
<b>MAG HQ (Rotary Wing), 00029</b>					
USMC	0	5	GYSGT	6174	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>5</b>			
<b>MAG-42 (RW) NAS Marietta, 00049</b>					
USMC	0	1	GYSGT	6174	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>1</b>			
<b>MAG-49 (RW) JRB Willow Grove, 00051</b>					
USMC	0	1	GYSGT	6174	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>1</b>			
<b>MALS (RW), 00001</b>					
USMC	1	0	LTCOL	6002	
	1	0	LTCOL	6602	
	1	0	MAJ	6002	
	1	0	MAJ	6004	
	1	0	MAJ	6602	
	1	0	CAPT	0402	
	1	0	CAPT	6002	
	1	0	CAPT	6004	
	1	0	CAPT	6302	
	1	0	CAPT	6502	
	2	0	CAPT	6602	
	2	0	LT	6002	
	4	0	LT	6602	
USN ACDU	1	0	LT	2100	

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	1	0	CWO4	6004	
	1	0	CWO4	6302	
	1	0	CWO3	0170	
	1	0	CWO3	6004	
	1	0	CWO3	6604	
	2	0	CWO2	6604	
	0	1	SGTMAJ	9999	
	0	1	MGYSGT	6019	
	0	1	MGYSGT	6391	
	0	1	MGYSGT	6591	
	0	1	MGYSGT	6672	
	0	1	MSGT	0193	
	0	1	MSGT	0369	
	0	3	MSGT	6019	
	0	1	MSGT	6046	
	0	1	MSGT	6391	
	0	2	MSGT	6672	
	0	1	GYSGT	0491	
	0	1	GYSGT	6042	
	0	2	GYSGT	6046	
	0	1	GYSGT	6048	
	0	2	GYSGT	6072	
	0	2	GYSGT	6073	
	0	1	GYSGT	6074	
	0	1	GYSGT	6092	
	0	1	GYSGT	6123	
	0	1	GYSGT	6124	
	0	2	GYSGT	6132	
	0	1	GYSGT	6414	
	0	2	GYSGT	6434	
	0	1	GYSGT	6483	
	0	1	GYSGT	6492	
	0	2	GYSGT	6541	
	0	6	GYSGT	6672	
	0	1	GYSGT	6694	
	0	1	SSGT	6033	
	0	1	SSGT	6042	
	0	2	SSGT	6046	
	0	2	SSGT	6048	
	0	3	SSGT	6062	
0	2	SSGT	6072		
0	3	SSGT	6073		
0	1	SSGT	6074		
0	1	SSGT	6092		
0	2	SSGT	6132		
0	3	SSGT	6414		
0	2	SSGT	6434		
0	1	SSGT	6483		

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	1	SSGT	6492	
	0	3	SSGT	6541	
	0	9	SSGT	6672	
	0	2	SSGT	6694	
	0	1	SSGT	8421	
	0	1	SGT	0121	
	0	1	SGT	2111	
	0	1	SGT	3052	
	0	1	SGT	6033	
	0	1	SGT	6042	
	0	4	SGT	6046	
	0	3	SGT	6048	
	0	5	SGT	6072	
	0	3	SGT	6073	
	0	1	SGT	6074	
	0	2	SGT	6092	
	0	2	SGT	6132	
	0	1	SGT	6423	
	0	2	SGT	6483	
	0	2	SGT	6492	
	0	1	SGT	6541	
	0	14	SGT	6672	
	0	3	SGT	6694	
	0	2	SGT	8711	
	0	1	SGT	9956	
	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	0431	
	0	1	CPL	3052	
	0	1	CPL	6042	
	0	2	CPL	6046	
	0	3	CPL	6048	
	0	1	CPL	6062	
	0	2	CPL	6073	
	0	1	CPL	6074	
	0	4	CPL	6132	
	0	1	CPL	6423	
	0	1	CPL	6492	
	0	1	CPL	6541	
	0	17	CPL	6672	
	0	4	CPL	6694	
	0	2	LCPL	0121	
	0	2	LCPL	0151	
	0	1	LCPL	0431	
	0	1	LCPL	2111	
	0	2	LCPL	2161	

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	1	LCPL	3052	
	0	3	LCPL	6042	
	0	7	LCPL	6046	
	0	5	LCPL	6048	
	0	3	LCPL	6072	
	0	3	LCPL	6073	
	0	3	LCPL	6074	
	0	1	LCPL	6092	
	0	1	LCPL	6412	
	0	4	LCPL	6423	
	0	1	LCPL	6433	
	0	4	LCPL	6483	
	0	3	LCPL	6492	
	0	5	LCPL	6541	
	0	24	LCPL	6672	
	USN ACDU	0	11	LCPL	6694
0		1	HM1	8404	
0		1	HM2	8404	
0		1	HM3	8404	
<b>ACTIVITY TOTAL:</b>	26	266			
<b>MALS-26 MCAS New River, 01074</b>					
USMC	0	1	SSGT	6124	
	0	1	SGT	6124	
	0	1	SGT	6124	6023
	0	3	CPL	6124	
	0	1	CPL	6124	6023
	0	5	LCPL	6124	
<b>ACTIVITY TOTAL:</b>	0	12			
<b>MALS-29 MCAS New River, 01227</b>					
USMC	0	1	SSGT	6124	
	0	1	SSGT	6124	6023
	0	2	SGT	6124	
	0	1	SGT	6124	6023
	0	3	CPL	6124	
	0	5	LCPL	6124	
<b>ACTIVITY TOTAL:</b>	0	13			
<b>MALS-36 MCAS Futenma, Japan, 01024</b>					
USMC	0	1	SSGT	6124	
	0	1	SSGT	6124	6023
	0	2	CPL	6124	
	0	1	CPL	6124	6023
	0	8	LCPL	6124	
<b>ACTIVITY TOTAL:</b>	0	13			

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>MALS-39 MCAS Camp Pendleton, 01158</b>					
USMC	0	1	SSGT	6124	
	0	1	SSGT	6124	6023
	0	2	SGT	6124	
	0	3	SGT	6124	6023
	0	3	CPL	6124	
	0	3	CPL	6124	6023
	0	5	LCPL	6124	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>18</b>			
<b>MALS-42 (RW) NAS Marietta, 04156</b>					
USMC	1	0	CAPT	6002	
	1	0	CAPT	6004	
	1	0	CAPT	6602	
	1	0	CWO4	6302	
	0	1	GYSGT	6694	
	0	1	SSGT	6434	
	0	1	SSGT	6672	
	0	1	SGT	6048	
	0	1	SGT	6132	
	0	1	SGT	6541	
	0	1	SGT	6672	
	0	1	CPL	6023	
	0	2	CPL	6672	
	0	1	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	1	LCPL	2161	
	0	1	LCPL	6042	
	0	1	LCPL	6072	
	0	1	LCPL	6541	
AR	1	0	CAPT	0402	
	1	0	WO	6004	
	0	1	MGYSGT	6019	
	0	1	MSGT	0369	
	0	1	MSGT	6672	
	0	1	GYSGT	6541	
	0	1	SSGT	6033	
	0	1	SSGT	6072	
	0	1	SSGT	6541	
	0	1	SSGT	6672	
	0	1	SGT	5711	
	0	1	SGT	6073	
	0	1	CPL	0121	
	0	1	CPL	6541	
	0	1	LCPL	6073	

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				
SMCR	1	0	LTCOL	6002		
	1	0	LTCOL	6602		
	1	0	MAJ	6002		
	1	0	MAJ	6004		
	1	0	MAJ	6602		
	1	0	CAPT	6302		
	1	0	CAPT	6502		
	1	0	CAPT	6602		
	2	0	LT	6002		
	4	0	LT	6602		
	1	0	LT	2100		
	SELRES	1	0	CWO3	0170	
		1	0	CWO2	6004	
		2	0	CWO2	6604	
SMCR	0	1	SGTMAJ	9999		
	0	1	MGYSGT	6391		
	0	1	MGYSGT	6591		
	0	1	MGYSGT	6672		
	0	1	MSGT	0193		
	0	3	MSGT	6019		
	0	1	MSGT	6046		
	0	1	MSGT	6391		
	0	1	MSGT	6672		
	0	1	GYSGT	0491		
	0	1	GYSGT	6042		
	0	2	GYSGT	6046		
	0	1	GYSGT	6048		
	0	2	GYSGT	6072		
	0	2	GYSGT	6073		
	0	1	GYSGT	6074		
	0	1	GYSGT	6092		
	0	1	GYSGT	6123		
	0	1	GYSGT	6124		
	0	2	GYSGT	6132		
	0	2	GYSGT	6414		
	0	2	GYSGT	6434		
	0	1	GYSGT	6483		
	0	1	GYSGT	6492		
	0	1	GYSGT	6541		
	0	6	GYSGT	6672		
	0	1	SSGT	2161		
	0	1	SSGT	6023		
	0	1	SSGT	6042		
	0	2	SSGT	6046		
0	2	SSGT	6048			
0	3	SSGT	6062			
0	1	SSGT	6072			
0	3	SSGT	6073			

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			
SMCR	0	1	SSGT	6074	
	0	1	SSGT	6092	
	0	2	SSGT	6132	
	0	2	SSGT	6414	
	0	1	SSGT	6434	
	0	2	SSGT	6483	
	0	1	SSGT	6492	
	0	2	SSGT	6541	
	0	8	SSGT	6672	
	0	2	SSGT	6694	
	0	1	SSGT	8421	
	0	1	SGT	0121	
	0	1	SGT	2111	
	0	1	SGT	3052	
	0	2	SGT	6023	
	0	1	SGT	6033	
	0	1	SGT	6042	
	0	4	SGT	6046	
	0	2	SGT	6048	
	0	5	SGT	6072	
	0	2	SGT	6073	
	0	1	SGT	6074	
	0	2	SGT	6092	
	0	1	SGT	6132	
	0	1	SGT	6423	
	0	2	SGT	6483	
	0	2	SGT	6492	
	0	12	SGT	6672	
	0	3	SGT	6694	
	0	1	SGT	8711	
	0	1	SGT	9956	
	0	1	CPL	0151	
	0	1	CPL	0431	
	0	1	CPL	3052	
	0	1	CPL	6023	
	0	1	CPL	6042	
	0	1	CPL	6046	
	0	3	CPL	6048	
	0	1	CPL	6062	
	0	2	CPL	6073	
0	1	CPL	6074		
0	4	CPL	6132		
0	1	CPL	6423		
0	1	CPL	6492		
0	15	CPL	6672		
0	4	CPL	6694		
0	1	LCPL	0121		
0	1	LCPL	0151		

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			
SMCR	0	1	LCPL	0431	
	0	1	LCPL	3052	
	0	2	LCPL	6042	
	0	8	LCPL	6046	
	0	5	LCPL	6048	
	0	2	LCPL	6072	
	0	2	LCPL	6073	
	0	3	LCPL	6074	
	0	1	LCPL	6092	
	0	1	LCPL	6412	
	0	4	LCPL	6423	
	0	1	LCPL	6433	
	0	4	LCPL	6483	
	0	3	LCPL	6492	
	0	4	LCPL	6541	
	0	24	LCPL	6672	
	SELRES	0	1	HM1	8404
0		1	HM2	8404	
0		1	HM3	8404	
<b>ACTIVITY TOTAL:</b>	<b>25</b>	<b>272</b>			
<b>MALS-49 (RW) ANGB Fort Stewart, 01197</b>					
USMC	1	0	MAJ	6004	
	1	0	CAPT	6002	
	1	0	CAPT	6602	
	1	0	LT	6602	
	1	0	CWO4	6302	
	0	1	MGYSGT	6019	
	0	1	GYSGT	6072	
	0	1	GYSGT	6123	
	0	1	GYSGT	6434	
	0	1	GYSGT	6492	
	0	2	GYSGT	6672	
	0	1	SSGT	6033	
	0	1	SSGT	6046	
	0	1	SSGT	6048	
	0	1	SSGT	6072	
	0	1	SSGT	6073	
	0	1	SSGT	6414	
	0	1	SSGT	6434	
	0	1	SSGT	6483	
	0	1	SSGT	6492	
0	1	SSGT	6541		
0	2	SSGT	6672		
0	1	SSGT	6694		

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	1	SGT	3052	
	0	1	SGT	6023	
	0	1	SGT	6033	
	0	1	SGT	6046	
	0	1	SGT	6048	
	0	1	SGT	6072	
	0	1	SGT	6074	
	0	1	SGT	6092	
	0	1	SGT	6423	
	0	1	SGT	6492	
	0	1	SGT	6541	
	0	3	SGT	6672	
	0	3	SGT	6694	
	0	1	CPL	6074	
	0	5	CPL	6672	
	0	1	CPL	6694	
	0	1	LCPL	0121	
	0	2	LCPL	0151	
	0	1	LCPL	2111	
	0	1	LCPL	2161	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	1	LCPL	6072	
	0	1	LCPL	6423	
	0	1	LCPL	6483	
	0	2	LCPL	6541	
	0	1	LCPL	6672	
0	2	LCPL	6694		
AR	1	0	CAPT	0402	
	1	0	CWO4	6004	
	1	0	CWO3	0170	
	0	1	MGYSGT	6391	
	0	1	MSGT	0193	
	0	1	MSGT	0369	
	0	1	MSGT	6046	
	0	1	MSGT	6672	
	0	1	GYSGT	6048	
	0	1	GYSGT	6672	
	0	1	SSGT	6541	
	0	1	SSGT	6672	
	0	1	SSGT	8421	
	0	1	SGT	0121	
	0	1	SGT	6046	
	0	2	SGT	6073	
0	1	SGT	6672		

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			
AR	0	1	CPL	0121	
	0	2	CPL	6073	
	0	1	LCPL	6073	
SMCR	1	0	LTCOL	6002	
	1	0	LTCOL	6602	
	1	0	MAJ	6002	
	1	0	MAJ	6602	
	1	0	CAPT	6004	
	1	0	CAPT	6302	
	1	0	CAPT	6502	
	1	0	CAPT	6602	
	2	0	LT	6002	
	3	0	LT	6602	
SELRES	1	0	LT	2100	
SMCR	2	0	CWO2	6604	
	1	0	WO	6004	
	0	1	SGTMAJ	9999	
	0	1	MGYSGT	6591	
	0	1	MGYSGT	6672	
	0	3	MSGT	6019	
	0	1	MSGT	6391	
	0	1	MSGT	6672	
	0	1	GYSGT	0491	
	0	1	GYSGT	6042	
	0	2	GYSGT	6046	
	0	1	GYSGT	6072	
	0	2	GYSGT	6073	
	0	1	GYSGT	6074	
	0	1	GYSGT	6092	
	0	1	GYSGT	6124	
	0	2	GYSGT	6132	
	0	2	GYSGT	6414	
	0	1	GYSGT	6434	
	0	1	GYSGT	6483	
	0	2	GYSGT	6541	
	0	3	GYSGT	6672	
	0	1	GYSGT	6694	
	0	1	SSGT	2161	
	0	1	SSGT	6023	
	0	1	SSGT	6042	
	0	1	SSGT	6046	
	0	1	SSGT	6048	
	0	3	SSGT	6062	
	0	1	SSGT	6072	
0	3	SSGT	6073		
0	1	SSGT	6074		
0	1	SSGT	6092		

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			
SMCR	0	2	SSGT	6132	
	0	1	SSGT	6414	
	0	1	SSGT	6434	
	0	1	SSGT	6483	
	0	1	SSGT	6541	
	0	7	SSGT	6672	
	0	1	SSGT	6694	
	0	1	SGT	2111	
	0	1	SGT	6023	
	0	1	SGT	6042	
	0	2	SGT	6046	
	0	2	SGT	6048	
	0	4	SGT	6072	
	0	1	SGT	6073	
	0	1	SGT	6092	
	0	2	SGT	6132	
	0	2	SGT	6483	
	0	1	SGT	6492	
	0	9	SGT	6672	
	0	2	SGT	8711	
	0	1	SGT	9956	
	0	1	CPL	0151	
	0	1	CPL	0431	
	0	1	CPL	3052	
	0	2	CPL	6023	
	0	1	CPL	6042	
	0	1	CPL	6046	
	0	3	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6092	
	0	4	CPL	6132	
	0	1	CPL	6423	
	0	1	CPL	6492	
	0	1	CPL	6541	
	0	12	CPL	6672	
	0	3	CPL	6694	
	0	1	LCPL	0121	
	0	1	LCPL	0431	
	0	1	LCPL	3052	
	0	2	LCPL	6042	
0	4	LCPL	6046		
0	5	LCPL	6048		
0	2	LCPL	6072		
0	2	LCPL	6073		
0	3	LCPL	6074		
0	1	LCPL	6412		
0	3	LCPL	6423		
0	1	LCPL	6433		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
SMCR	0	3	LCPL	6483	
	0	3	LCPL	6492	
	0	3	LCPL	6541	
	0	23	LCPL	6672	
	0	9	LCPL	6694	
SELRES	0	1	HM1	8404	
	0	1	HM2	8404	
	0	1	HM3	8404	
<b>ACTIVITY TOTAL:</b>	25	272			
<b>MARCOR Asgn Allied/UN Cnds, XXXXX</b>					
USMC	2	0	CAPT	7565	
<b>ACTIVITY TOTAL:</b>	2	0			
<b>MARCOR Asgn USA/USAF, 00002</b>					
USMC	1	0	CAPT	7563	9957
	0	1	GYSGT	6114	
<b>ACTIVITY TOTAL:</b>	1	1			
<b>Marine Aviation Weapons and Tactics Squadron, 01243</b>					
USMC	1	0	MAJ	7563	
	1	0	MAJ	7565	
	1	0	MAJ	9958	7565
	3	0	CAPT	7563	
	3	0	CAPT	7565	
	0	2	SSGT	6177	6174
<b>ACTIVITY TOTAL:</b>	9	2			
<b>MASD Andrews AFB, 04080</b>					
USMC	0	1	SGT	6174	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>MAW HQ, 00201</b>					
USMC	0	1	SSGT	6531	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>MC Personnel Asgn Joint and Unfied Cnds, XXXXX</b>					
USMC	1	0	MAJ	7565	
<b>ACTIVITY TOTAL:</b>	1	0			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>MC Personnel Dept of Navy Non-Dept, 65045</b>					
USMC	1	0	CAPT	7565	
	0	2	GYSGT	6114	
	0	1	GYSGT	6174	
	0	2	GYSGT	6531	
	0	1	SSGT	6154	
	0	1	SSGT	6324	
<b>ACTIVITY TOTAL:</b>	<b>1</b>	<b>7</b>			
<b>MC Systems Command, Quantico, XXXXX</b>					
USMC	1	0	LTCOL	9957	7565
<b>ACTIVITY TOTAL:</b>	<b>1</b>	<b>0</b>			
<b>MCCDC, Quantico, XXXXX</b>					
USMC	1	0	MAJ	9957	7565
<b>ACTIVITY TOTAL:</b>	<b>1</b>	<b>0</b>			
<b>MTN Warfare Training Center, 33610</b>					
USMC	0	2	SSGT	6114	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>2</b>			
<b>NAMTRAGRU, MARCOR Pers, 06050</b>					
USMC	0	1	SSGT	6114	
	0	1	SSGT	6531	
	0	1	SGT	6124	
	0	1	SGT	6531	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>4</b>			
<b>Site Support, JRB Belle Chase, 03017</b>					
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	1	0	MAJ	7563	
SMCR	1	0	MAJ	7565	
<b>ACTIVITY TOTAL:</b>	<b>4</b>	<b>0</b>			
<b>US Joint Forces Command and Subordinates, 00003</b>					
USMC	0	1	SSGT	6531	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>1</b>			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>H&amp;HS MCAS Camp Pendleton, 02208</b>					
USMC	0	1	CPL	6114	
	0	2	LCPL	6114	
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>3</b>			
<b>H&amp;HS MCAS Yuma, 02230</b>					
USMC	1	0	MAJ	7563	
	7	0	CAPT	7563	
	0	1	GYSGT	6114	
	0	1	GYSGT	6324	
	0	3	SSGT	6114	
	0	2	SSGT	6154	
	0	1	SSGT	6154	9954
	0	1	SSGT	6324	
	0	1	SGT	6124	
	0	1	SGT	6154	
	0	4	SGT	6174	
	0	1	SGT	6324	
	0	4	CPL	6114	
	0	1	CPL	6324	
	0	1	CPL	6433	
	0	3	LCPL	6114	
	0	1	LCPL	6124	
	0	2	LCPL	6154	
	0	4	LCPL	6174	
	0	1	LCPL	6324	
<b>ACTIVITY TOTAL:</b>	<b>8</b>	<b>33</b>			
<b>MAD, China Lake, XXXXX</b>					
USMC	1	0	MAJ	9958	7565
	3	0	CAPT	9957	7565
<b>ACTIVITY TOTAL:</b>	<b>4</b>	<b>0</b>			
<b>MAD, NAS China Lake, 06117</b>					
USMC	1	0	MAJ	9958	7565
	3	0	CAPT	9957	7565
	0	1	SSGT	6114	
	0	2	SSGT	6324	
	0	1	SSGT	6531	
	0	1	SGT	6114	
	0	2	CPL	6114	
	0	2	CPL	6154	
<b>ACTIVITY TOTAL:</b>	<b>4</b>	<b>9</b>			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>MAGTF Trng Com, 29 Palms, XXXXX</b> USMC	1	0	MAJ	7565	
<b>ACTIVITY TOTAL:</b>	1	0			
<b>MALS-24 (-) MCBH Kaneohe Bay, 01071</b> USMC	0	1	CPL	6433	
<b>ACTIVITY TOTAL:</b>	0	1			
<b>MARFORPAC HQ, 67025</b> USMC	0	1	CPL	6531	
<b>ACTIVITY TOTAL:</b>	0	1			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC OPERATIONAL ACTIVITIES - USMC													
LTCOL	7563		7		0		0		0		0		0
LTCOL	7565		7		0		0		0		0		0
MAJ	7563		22		0		0		0		0		0
MAJ	7565		38		0		0		0		0		0
CAPT	6002		1		0		0		0		0		0
CAPT	6004		1		0		0		0		0		0
CAPT	7563		69		0		0		0		0		0
CAPT	7563	7577	6		0		0		0		0		0
CAPT	7565		132		0		0		0		0		0
CAPT	7565	7577	1		0		0		0		0		0
LT	6002		6		0		0		0		0		0
LT	7563		54		0		0		0		0		0
LT	7565		90		0		0		0		0		0
USN LT	2102		8		0		0		0		0		0
CWO4	6004		6		0		0		0		0		0
CWO3	6004		2		0		0		0		0		0
CWO3	6302		1		0		0		0		0		0
CWO2	0170		7		0		0		0		0		0
CWO2	6302		6		0		0		0		0		0
CWO2	6502		9		0		0		0		0		0
SGTMAJ	9999			7		0		0		0		0	0
MGYSGT	6019		2		0		0		0		0		0
MGYSGT	6391		1		0		0		0		0		0
MSGT	0193		6		0		0		0		0		0
MSGT	6019		9		0		0		0		0		0
MSGT	6391		8		0		0		0		0		0
GYSGT	0193		1		0		0		0		0		0
GYSGT	6012		18		0		0		0		0		0
GYSGT	6114		23		0		0		0		0		0
GYSGT	6124		1		0		0		0		0		0
GYSGT	6154		21		0		0		0		0		0
GYSGT	6174		3		0		0		0		0		0
GYSGT	6324		25		0		0		0		0		0
GYSGT	6531		28		0		0		0		0		0
GYSGT	9954		18		0		0		0		0		0
SSGT	0193		7		0		0		0		0		0
SSGT	0231		6		0		0		0		0		0
SSGT	6012		20		0		0		0		0		0
SSGT	6046		29		0		0		0		0		0
SSGT	6048		25		0		0		0		0		0
SSGT	6114		49		0		0		0		0		0
SSGT	6124		22		0		0		0		0		0
SSGT	6154		29		0		0		0		0		0
SSGT	6174		24		0		0		0		0		0
SSGT	6324		46		0		0		0		0		0
SSGT	6483		2		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SSGT	6531		22		0		0		0		0		0
SSGT	7041		7		0		0		0		0		0
SSGT	8711		9		0		0		0		0		0
SGT	0151		8		0		0		0		0		0
SGT	0431		8		0		0		0		0		0
SGT	6012		44		0		0		0		0		0
SGT	6033		23		0		0		0		0		0
SGT	6046		1		0		0		0		0		0
SGT	6048		2		0		0		0		0		0
SGT	6062		2		0		0		0		0		0
SGT	6072		22		0		0		0		0		0
SGT	6114		81		0		0		0		0		0
SGT	6124		25		0		0		0		0		0
SGT	6154		63		0		0		0		0		0
SGT	6174		29		0		0		0		0		0
SGT	6177	6174	8		0		0		0		0		0
SGT	6324		66		0		0		0		0		0
SGT	6413		22		0		0		0		0		0
SGT	6433		1		0		0		0		0		0
SGT	6483		1		0		0		0		0		0
SGT	6492		1		0		0		0		0		0
SGT	6531		45		0		0		0		0		0
SGT	6541		21		0		0		0		0		0
SGT	6672		23		0		0		0		0		0
SGT	8421		9		0		0		0		0		0
CPL	0121		20		0		0		0		0		0
CPL	0151		11		0		0		0		0		0
CPL	0431		1		0		0		0		0		0
CPL	6042		8		0		0		0		0		0
CPL	6043		1		0		0		0		0		0
CPL	6046		43		0		0		0		0		0
CPL	6048		44		0		0		0		0		0
CPL	6062		22		0		0		0		0		0
CPL	6073		19		0		0		0		0		0
CPL	6114		114		0		0		0		0		0
CPL	6124		22		0		0		0		0		0
CPL	6132		1		0		0		0		0		0
CPL	6154		110		0		0		0		0		0
CPL	6174		58		0		0		0		0		0
CPL	6324		134		0		0		0		0		0
CPL	6413		2		0		0		0		0		0
CPL	6423		3		0		0		0		0		0
CPL	6433		24		0		0		0		0		0
CPL	6483		23		0		0		0		0		0
CPL	6492		2		0		0		0		0		0
CPL	6531		64		0		0		0		0		0
CPL	6541		44		0		0		0		0		0
CPL	7041		1		0		0		0		0		0
LCPL	0121		26		0		0		0		0		0
LCPL	0151		6		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
LCPL	0231		18		0		0		0		0		0
LCPL	0431		28		0		0		0		0		0
LCPL	2111		9		0		0		0		0		0
LCPL	5711		1		0		0		0		0		0
LCPL	6042		7		0		0		0		0		0
LCPL	6043		40		0		0		0		0		0
LCPL	6046		21		0		0		0		0		0
LCPL	6048		6		0		0		0		0		0
LCPL	6062		21		0		0		0		0		0
LCPL	6072		25		0		0		0		0		0
LCPL	6073		2		0		0		0		0		0
LCPL	6092		2		0		0		0		0		0
LCPL	6114		242		0		0		0		0		0
LCPL	6124		5		0		0		0		0		0
LCPL	6132		23		0		0		0		0		0
LCPL	6154		193		0		0		0		0		0
LCPL	6174		51		0		0		0		0		0
LCPL	6324		141		0		0		0		0		0
LCPL	6412		3		0		0		0		0		0
LCPL	6413		23		0		0		0		0		0
LCPL	6422		4		0		0		0		0		0
LCPL	6422	6412	18		0		0		0		0		0
LCPL	6433		18		0		0		0		0		0
LCPL	6483		3		0		0		0		0		0
LCPL	6492		44		0		0		0		0		0
LCPL	6531		96		0		0		0		0		0
LCPL	6541		65		0		0		0		0		0
LCPL	6672		29		0		0		0		0		0
LCPL	7041		27		0		0		0		0		0
USN HM1	8404		8		0		0		0		0		0
USN HM2	8406		22		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - AR													
MAJ	7565		7		0		0		0		0		0
CAPT	7563		3		0		0		0		0		0
CAPT	7565		3		0		0		0		0		0
CWO2	0170		2		0		0		0		0		0
MSGT	0193		2		0		0		0		0		0
GYSGT	6012		4		0		0		0		0		0
GYSGT	6114		1		0		0		0		0		0
GYSGT	6154		1		0		0		0		0		0
GYSGT	6531		3		0		0		0		0		0
GYSGT	9954		4		0		0		0		0		0
SSGT	0193		1		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SSGT	0231		1		0		0		0		0		0
SSGT	6012		2		0		0		0		0		0
SSGT	6046		3		0		0		0		0		0
SSGT	6531		2		0		0		0		0		0
SSGT	7041		2		0		0		0		0		0
SGT	6012		3		0		0		0		0		0
SGT	6046		1		0		0		0		0		0
SGT	6072		2		0		0		0		0		0
SGT	6114		9		0		0		0		0		0
SGT	6154		6		0		0		0		0		0
SGT	6324		1		0		0		0		0		0
SGT	6531		2		0		0		0		0		0
SGT	6541		4		0		0		0		0		0
CPL	0121		6		0		0		0		0		0
CPL	6046		2		0		0		0		0		0
CPL	6048		3		0		0		0		0		0
CPL	6073		3		0		0		0		0		0
CPL	6114		7		0		0		0		0		0
CPL	6154		5		0		0		0		0		0
CPL	6324		2		0		0		0		0		0
CPL	6531		10		0		0		0		0		0
LCPL	6114		5		0		0		0		0		0

USMC OPERATIONAL ACTIVITIES - SMCR

LTCOL	7563		2		0		0		0		0		0
LTCOL	7565		2		0		0		0		0		0
MAJ	7563		5		0		0		0		0		0
MAJ	7565		7		0		0		0		0		0
CAPT	7563		6		0		0		0		0		0
CAPT	7563	7577	2		0		0		0		0		0
CAPT	7565		30		0		0		0		0		0
LT	6002		2		0		0		0		0		0
LT	7563		12		0		0		0		0		0
LT	7565		36		0		0		0		0		0
CWO2	6302		2		0		0		0		0		0
SGTMAJ	9999			2		0		0		0		0	0
GYSGT	6012		2		0		0		0		0		0
GYSGT	6114		2		0		0		0		0		0
GYSGT	6154		4		0		0		0		0		0
GYSGT	6324		2		0		0		0		0		0
GYSGT	6531		2		0		0		0		0		0
SSGT	0193		1		0		0		0		0		0
SSGT	0231		1		0		0		0		0		0
SSGT	6012		3		0		0		0		0		0
SSGT	6043		2		0		0		0		0		0
SSGT	6046		2		0		0		0		0		0
SSGT	6114		4		0		0		0		0		0
SSGT	6124		2		0		0		0		0		0
SSGT	6154		2		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SSGT	6174		2		0		0		0		0		0
SSGT	6324		8		0		0		0		0		0
SSGT	6531		4		0		0		0		0		0
SGT	6012		4		0		0		0		0		0
SGT	6072		2		0		0		0		0		0
SGT	6114		9		0		0		0		0		0
SGT	6154		4		0		0		0		0		0
SGT	6324		9		0		0		0		0		0
SGT	6413		2		0		0		0		0		0
SGT	6531		4		0		0		0		0		0
SGT	6541		2		0		0		0		0		0
SGT	6672		2		0		0		0		0		0
CPL	6033		8		0		0		0		0		0
CPL	6046		3		0		0		0		0		0
CPL	6048		2		0		0		0		0		0
CPL	6062		2		0		0		0		0		0
CPL	6073		2		0		0		0		0		0
CPL	6114		21		0		0		0		0		0
CPL	6124		4		0		0		0		0		0
CPL	6154		22		0		0		0		0		0
CPL	6174		10		0		0		0		0		0
CPL	6324		28		0		0		0		0		0
CPL	6433		2		0		0		0		0		0
CPL	6483		2		0		0		0		0		0
CPL	6531		6		0		0		0		0		0
CPL	6541		4		0		0		0		0		0
LCPL	0151		2		0		0		0		0		0
LCPL	0231		6		0		0		0		0		0
LCPL	0431		4		0		0		0		0		0
LCPL	6042		2		0		0		0		0		0
LCPL	6046		6		0		0		0		0		0
LCPL	6062		4		0		0		0		0		0
LCPL	6072		2		0		0		0		0		0
LCPL	6114		35		0		0		0		0		0
LCPL	6132		2		0		0		0		0		0
LCPL	6154		37		0		0		0		0		0
LCPL	6174		8		0		0		0		0		0
LCPL	6324		18		0		0		0		0		0
LCPL	6413		4		0		0		0		0		0
LCPL	6422		2		0		0		0		0		0
LCPL	6433		6		0		0		0		0		0
LCPL	6492		4		0		0		0		0		0
LCPL	6531		14		0		0		0		0		0
LCPL	6541		10		0		0		0		0		0
LCPL	6672		2		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USN FLEET SUPPORT ACTIVITIES - USMC														
LTCOL	9957	7565	1		0		0		0		0		0	
LTCOL	9958	7563	1		0		0		0		0		0	
LTCOL	9958	7565	4		0		0		0		0		0	
MAJ	9958	7563	1		0		0		0		0		0	
CAPT	9957	7563	1		0		0		0		0		0	
GYSGT	6324			1		0		0		0		0		0
GYSGT	9960	6114		1		0		0		0		0		0
SGT	6531			1		0		0		0		0		0
CPL	6531			3		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC														
LTCOL	6002			1		0		0		0		0		0
LTCOL	6602			1		0		0		0		0		0
LTCOL	7563			1		0		0		0		0		0
LTCOL	7565			1		0		0		0		0		0
LTCOL	9957	7565		1		0		0		0		0		0
LTCOL	9958	7565		1		0		0		0		0		0
MAJ	6002			1		0		0		0		0		0
MAJ	6004			2		0		0		0		0		0
MAJ	6602			1		0		0		0		0		0
MAJ	7563			3		0		0		0		0		0
MAJ	7565			3		0		0		0		0		0
MAJ	9957	7565		2		0		0		0		0		0
MAJ	9958	7565		3		0		0		0		0		0
CAPT	0402			1		0		0		0		0		0
CAPT	6002			3		0		0		0		0		0
CAPT	6004			2		0		0		0		0		0
CAPT	6302			1		0		0		0		0		0
CAPT	6502			1		0		0		0		0		0
CAPT	6602			4		0		0		0		0		0
CAPT	7563			10		0		0		0		0		0
CAPT	7563	9957		1		0		0		0		0		0
CAPT	7565			7		0		0		0		0		0
CAPT	9957	7563		1		0		0		0		0		0
CAPT	9957	7565		6		0		0		0		0		0
LT	2100			1		0		0		0		0		0
LT	6002			2		0		0		0		0		0
LT	6602			5		0		0		0		0		0
LT	7563	7565		1		0		0		0		0		0
CWO4	6004			1		0		0		0		0		0
CWO4	6302			3		0		0		0		0		0
CWO3	0170			1		0		0		0		0		0
CWO3	6004			1		0		0		0		0		0
CWO3	6604			1		0		0		0		0		0
CWO2	6604			2		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SGTMAJ	9999		1		0		0		0		0		0
MGYSGT	6019		2		0		0		0		0		0
MGYSGT	6391		1		0		0		0		0		0
MGYSGT	6591		1		0		0		0		0		0
MGYSGT	6672		1		0		0		0		0		0
MSGT	0193		1		0		0		0		0		0
MSGT	0369		1		0		0		0		0		0
MSGT	6019		3		0		0		0		0		0
MSGT	6046		1		0		0		0		0		0
MSGT	6391		1		0		0		0		0		0
MSGT	6672		2		0		0		0		0		0
GYSGT	0491		1		0		0		0		0		0
GYSGT	6042		1		0		0		0		0		0
GYSGT	6046		2		0		0		0		0		0
GYSGT	6048		1		0		0		0		0		0
GYSGT	6072		3		0		0		0		0		0
GYSGT	6073		2		0		0		0		0		0
GYSGT	6074		1		0		0		0		0		0
GYSGT	6092		1		0		0		0		0		0
GYSGT	6114		5		0		0		0		0		0
GYSGT	6123		2		0		0		0		0		0
GYSGT	6124		1		0		0		0		0		0
GYSGT	6132		2		0		0		0		0		0
GYSGT	6174		9		0		0		0		0		0
GYSGT	6324		1		0		0		0		0		0
GYSGT	6414		1		0		0		0		0		0
GYSGT	6434		3		0		0		0		0		0
GYSGT	6483		1		0		0		0		0		0
GYSGT	6492		2		0		0		0		0		0
GYSGT	6531		5		0		0		0		0		0
GYSGT	6541		2		0		0		0		0		0
GYSGT	6672		8		0		0		0		0		0
GYSGT	6694		2		0		0		0		0		0
SSGT	6033		2		0		0		0		0		0
SSGT	6042		1		0		0		0		0		0
SSGT	6046		3		0		0		0		0		0
SSGT	6048		3		0		0		0		0		0
SSGT	6062		3		0		0		0		0		0
SSGT	6072		3		0		0		0		0		0
SSGT	6073		4		0		0		0		0		0
SSGT	6074		1		0		0		0		0		0
SSGT	6092		1		0		0		0		0		0
SSGT	6114		7		0		0		0		0		0
SSGT	6124		4		0		0		0		0		0
SSGT	6124	6023	3		0		0		0		0		0
SSGT	6132		2		0		0		0		0		0
SSGT	6154		4		0		0		0		0		0
SSGT	6154	9954	1		0		0		0		0		0
SSGT	6177	6174	2		0		0		0		0		0
SSGT	6324		4		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SSGT	6414		4		0		0		0		0		0
SSGT	6434		4		0		0		0		0		0
SSGT	6483		2		0		0		0		0		0
SSGT	6492		2		0		0		0		0		0
SSGT	6531		6		0		0		0		0		0
SSGT	6541		4		0		0		0		0		0
SSGT	6672		12		0		0		0		0		0
SSGT	6694		3		0		0		0		0		0
SSGT	8421		1		0		0		0		0		0
SGT	0121		1		0		0		0		0		0
SGT	2111		1		0		0		0		0		0
SGT	3052		2		0		0		0		0		0
SGT	6023		1		0		0		0		0		0
SGT	6033		2		0		0		0		0		0
SGT	6042		1		0		0		0		0		0
SGT	6046		5		0		0		0		0		0
SGT	6048		5		0		0		0		0		0
SGT	6072		6		0		0		0		0		0
SGT	6073		3		0		0		0		0		0
SGT	6074		2		0		0		0		0		0
SGT	6092		3		0		0		0		0		0
SGT	6114		1		0		0		0		0		0
SGT	6124		7		0		0		0		0		0
SGT	6124	6023	5		0		0		0		0		0
SGT	6132		3		0		0		0		0		0
SGT	6154		1		0		0		0		0		0
SGT	6174		6		0		0		0		0		0
SGT	6324		1		0		0		0		0		0
SGT	6423		2		0		0		0		0		0
SGT	6483		2		0		0		0		0		0
SGT	6492		3		0		0		0		0		0
SGT	6531		2		0		0		0		0		0
SGT	6541		3		0		0		0		0		0
SGT	6672		18		0		0		0		0		0
SGT	6694		6		0		0		0		0		0
SGT	8711		2		0		0		0		0		0
SGT	9956		1		0		0		0		0		0
CPL	0121		1		0		0		0		0		0
CPL	0151		1		0		0		0		0		0
CPL	0431		1		0		0		0		0		0
CPL	3052		1		0		0		0		0		0
CPL	6023		1		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CPL	6042		1		0		0		0		0		0
CPL	6046		2		0		0		0		0		0
CPL	6048		3		0		0		0		0		0
CPL	6062		1		0		0		0		0		0
CPL	6073		2		0		0		0		0		0
CPL	6074		2		0		0		0		0		0
CPL	6114		7		0		0		0		0		0
CPL	6124		11		0		0		0		0		0
CPL	6124	6023	5		0		0		0		0		0
CPL	6132		4		0		0		0		0		0
CPL	6154		2		0		0		0		0		0
CPL	6324		1		0		0		0		0		0
CPL	6423		1		0		0		0		0		0
CPL	6433		3		0		0		0		0		0
CPL	6492		1		0		0		0		0		0
CPL	6531		2		0		0		0		0		0
CPL	6541		1		0		0		0		0		0
CPL	6672		24		0		0		0		0		0
CPL	6694		5		0		0		0		0		0
LCPL	0121		4		0		0		0		0		0
LCPL	0151		5		0		0		0		0		0
LCPL	0431		1		0		0		0		0		0
LCPL	2111		3		0		0		0		0		0
LCPL	2161		4		0		0		0		0		0
LCPL	3052		1		0		0		0		0		0
LCPL	6042		5		0		0		0		0		0
LCPL	6046		10		0		0		0		0		0
LCPL	6048		5		0		0		0		0		0
LCPL	6072		5		0		0		0		0		0
LCPL	6073		3		0		0		0		0		0
LCPL	6074		3		0		0		0		0		0
LCPL	6092		1		0		0		0		0		0
LCPL	6114		5		0		0		0		0		0
LCPL	6124		24		0		0		0		0		0
LCPL	6154		2		0		0		0		0		0
LCPL	6174		4		0		0		0		0		0
LCPL	6324		1		0		0		0		0		0
LCPL	6412		1		0		0		0		0		0
LCPL	6423		5		0		0		0		0		0
LCPL	6433		1		0		0		0		0		0
LCPL	6483		5		0		0		0		0		0
LCPL	6492		3		0		0		0		0		0
LCPL	6541		8		0		0		0		0		0
LCPL	6672		25		0		0		0		0		0
LCPL	6694		13		0		0		0		0		0
USN HM1	8404		1		0		0		0		0		0
USN HM2	8404		1		0		0		0		0		0
USN HM3	8404		1		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC FLEET SUPPORT ACTIVITIES - AR													
CAPT	0402	2		0		0		0		0		0	
CWO4	6004	1		0		0		0		0		0	
CWO3	0170	1		0		0		0		0		0	
WO	6004	1		0		0		0		0		0	
MGYSGT	6019		1		0		0		0		0		0
MGYSGT	6391		1		0		0		0		0		0
MSGT	0193		1		0		0		0		0		0
MSGT	0369		2		0		0		0		0		0
MSGT	6046		1		0		0		0		0		0
MSGT	6672		2		0		0		0		0		0
GYSGT	6048		1		0		0		0		0		0
GYSGT	6114		1		0		0		0		0		0
GYSGT	6541		1		0		0		0		0		0
GYSGT	6672		1		0		0		0		0		0
SSGT	6033		1		0		0		0		0		0
SSGT	6072		1		0		0		0		0		0
SSGT	6114		1		0		0		0		0		0
SSGT	6541		2		0		0		0		0		0
SSGT	6672		2		0		0		0		0		0
SSGT	8421		1		0		0		0		0		0
SGT	0121		1		0		0		0		0		0
SGT	5711		1		0		0		0		0		0
SGT	6046		1		0		0		0		0		0
SGT	6073		3		0		0		0		0		0
SGT	6672		1		0		0		0		0		0
CPL	0121		2		0		0		0		0		0
CPL	6073		2		0		0		0		0		0
CPL	6541		1		0		0		0		0		0
LCPL	6073		2		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR													
CAPT	0402	2		0		0		0		0		0	
CWO4	6004	1		0		0		0		0		0	
CWO3	0170	1		0		0		0		0		0	
WO	6004	1		0		0		0		0		0	
MGYSGT	6019		1		0		0		0		0		0
MGYSGT	6391		1		0		0		0		0		0
MSGT	0193		1		0		0		0		0		0
MSGT	0369		2		0		0		0		0		0
MSGT	6046		1		0		0		0		0		0
MSGT	6672		2		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
GYSGT	6048		1		0		0		0		0		0
GYSGT	6114		1		0		0		0		0		0
GYSGT	6541		1		0		0		0		0		0
GYSGT	6672		1		0		0		0		0		0
SSGT	6033		1		0		0		0		0		0
SSGT	6072		1		0		0		0		0		0
SSGT	6114		1		0		0		0		0		0
SSGT	6541		2		0		0		0		0		0
SSGT	6672		2		0		0		0		0		0
SSGT	8421		1		0		0		0		0		0
SGT	0121		1		0		0		0		0		0
SGT	5711		1		0		0		0		0		0
SGT	6046		1		0		0		0		0		0
SGT	6073		3		0		0		0		0		0
SGT	6672		1		0		0		0		0		0
CPL	0121		2		0		0		0		0		0
CPL	6073		2		0		0		0		0		0
CPL	6541		1		0		0		0		0		0
LCPL	6073		2		0		0		0		0		0

USMC FLEET SUPPORT ACTIVITIES - SMCR

LTCOL	6002		2		0		0		0		0		0
LTCOL	6602		2		0		0		0		0		0
MAJ	6002		2		0		0		0		0		0
MAJ	6004		1		0		0		0		0		0
MAJ	6602		2		0		0		0		0		0
MAJ	7565		1		0		0		0		0		0
CAPT	6004		1		0		0		0		0		0
CAPT	6302		2		0		0		0		0		0
CAPT	6502		2		0		0		0		0		0
CAPT	6602		2		0		0		0		0		0
LT	2100		2		0		0		0		0		0
LT	6002		4		0		0		0		0		0
LT	6602		7		0		0		0		0		0
CWO3	0170		1		0		0		0		0		0
CWO2	6004		1		0		0		0		0		0
CWO2	6604		4		0		0		0		0		0
WO	6004		1		0		0		0		0		0
SGTMAJ	9999		2		0		0		0		0		0
MGYSGT	6391		1		0		0		0		0		0
MGYSGT	6591		2		0		0		0		0		0
MGYSGT	6672		2		0		0		0		0		0
MSGT	0193		1		0		0		0		0		0
MSGT	6019		6		0		0		0		0		0
MSGT	6046		1		0		0		0		0		0
MSGT	6391		2		0		0		0		0		0
MSGT	6672		2		0		0		0		0		0
GYSGT	0491		2		0		0		0		0		0
GYSGT	6042		2		0		0		0		0		0
GYSGT	6046		4		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
GYSGT	6048		1		0		0		0		0		0
GYSGT	6072		3		0		0		0		0		0
GYSGT	6073		4		0		0		0		0		0
GYSGT	6074		2		0		0		0		0		0
GYSGT	6092		2		0		0		0		0		0
GYSGT	6123		1		0		0		0		0		0
GYSGT	6124		2		0		0		0		0		0
GYSGT	6132		4		0		0		0		0		0
GYSGT	6414		4		0		0		0		0		0
GYSGT	6434		3		0		0		0		0		0
GYSGT	6483		2		0		0		0		0		0
GYSGT	6492		1		0		0		0		0		0
GYSGT	6541		3		0		0		0		0		0
GYSGT	6672		9		0		0		0		0		0
GYSGT	6694		1		0		0		0		0		0
SSGT	2161		2		0		0		0		0		0
SSGT	6023		2		0		0		0		0		0
SSGT	6042		2		0		0		0		0		0
SSGT	6046		3		0		0		0		0		0
SSGT	6048		3		0		0		0		0		0
SSGT	6062		6		0		0		0		0		0
SSGT	6072		2		0		0		0		0		0
SSGT	6073		6		0		0		0		0		0
SSGT	6074		2		0		0		0		0		0
SSGT	6092		2		0		0		0		0		0
SSGT	6132		4		0		0		0		0		0
SSGT	6414		3		0		0		0		0		0
SSGT	6434		2		0		0		0		0		0
SSGT	6483		3		0		0		0		0		0
SSGT	6492		1		0		0		0		0		0
SSGT	6541		3		0		0		0		0		0
SSGT	6672		15		0		0		0		0		0
SSGT	6694		3		0		0		0		0		0
SSGT	8421		1		0		0		0		0		0
SGT	0121		1		0		0		0		0		0
SGT	2111		2		0		0		0		0		0
SGT	3052		1		0		0		0		0		0
SGT	6023		3		0		0		0		0		0
SGT	6033		1		0		0		0		0		0
SGT	6042		2		0		0		0		0		0
SGT	6046		6		0		0		0		0		0
SGT	6048		4		0		0		0		0		0
SGT	6072		9		0		0		0		0		0
SGT	6073		3		0		0		0		0		0
SGT	6074		1		0		0		0		0		0
SGT	6092		3		0		0		0		0		0
SGT	6132		3		0		0		0		0		0
SGT	6423		1		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SGT	6483		4		0		0		0		0		0
SGT	6492		3		0		0		0		0		0
SGT	6672		21		0		0		0		0		0
SGT	6694		3		0		0		0		0		0
SGT	8711		3		0		0		0		0		0
SGT	9956		2		0		0		0		0		0
CPL	0151		2		0		0		0		0		0
CPL	0431		2		0		0		0		0		0
CPL	3052		2		0		0		0		0		0
CPL	6023		3		0		0		0		0		0
CPL	6042		2		0		0		0		0		0
CPL	6046		2		0		0		0		0		0
CPL	6048		6		0		0		0		0		0
CPL	6062		2		0		0		0		0		0
CPL	6073		2		0		0		0		0		0
CPL	6074		1		0		0		0		0		0
CPL	6092		1		0		0		0		0		0
CPL	6132		8		0		0		0		0		0
CPL	6423		2		0		0		0		0		0
CPL	6492		2		0		0		0		0		0
CPL	6541		1		0		0		0		0		0
CPL	6672		27		0		0		0		0		0
CPL	6694		7		0		0		0		0		0
LCPL	0121		2		0		0		0		0		0
LCPL	0151		1		0		0		0		0		0
LCPL	0431		2		0		0		0		0		0
LCPL	3052		2		0		0		0		0		0
LCPL	6042		4		0		0		0		0		0
LCPL	6046		12		0		0		0		0		0
LCPL	6048		10		0		0		0		0		0
LCPL	6072		4		0		0		0		0		0
LCPL	6073		4		0		0		0		0		0
LCPL	6074		6		0		0		0		0		0
LCPL	6092		1		0		0		0		0		0
LCPL	6412		2		0		0		0		0		0
LCPL	6423		7		0		0		0		0		0
LCPL	6433		2		0		0		0		0		0
LCPL	6483		7		0		0		0		0		0
LCPL	6492		6		0		0		0		0		0
LCPL	6541		7		0		0		0		0		0
LCPL	6672		47		0		0		0		0		0
LCPL	6694		20		0		0		0		0		0
USN HM1	8404		2		0		0		0		0		0
USN HM2	8404		2		0		0		0		0		0
USN HM3	8404		2		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
<b>SUMMARY TOTALS:</b>													
USMC OPERATIONAL ACTIVITIES - ACDU													
USN		8	30	0	0	0	0	0	0	0	0	0	0
USMC		465	2941	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - AR													
		15	97	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - SMCR													
		106	367	0	0	0	0	0	0	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - USMC													
		8	6	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - ACDU													
		1	3	0	0	0	0	0	0	0	0	0	0
		75	482	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - AR													
		5	34	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - SELRES													
		2	6	0	0	0	0	0	0	0	0	0	0
		35	428	0	0	0	0	0	0	0	0	0	0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
<b>GRAND TOTALS:</b>													
USN - USMC		8	6	0	0	0	0	0	0	0	0	0	0
USMC - USMC		540	3423	0	0	0	0	0	0	0	0	0	0
USN		9	33	0	0	0	0	0	0	0	0	0	0
USMC - AR		20	131	0	0	0	0	0	0	0	0	0	0
USMC - SMCR		141	795	0	0	0	0	0	0	0	0	0	0
		2	6	0	0	0	0	0	0	0	0	0	0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: HMT-303, MCAS Camp Pendleton, 01303

**INSTRUCTOR BILLETS**

USMC													
MAJ	7563	3	0	3	0	3	0	3	0	3	0	3	0
MAJ	7565	5	0	5	0	5	0	5	0	5	0	5	0
CAPT	7563	10	0	10	0	10	0	10	0	10	0	10	0
CAPT	7565	19	0	19	0	19	0	19	0	19	0	19	0
GYSGT	6174	0	2	0	2	0	2	0	2	0	2	0	2
SGT	6174	0	3	0	3	0	3	0	3	0	3	0	3
CPL	6174	0	4	0	4	0	4	0	4	0	4	0	4
<b>TOTAL:</b>		<b>37</b>	<b>9</b>										

TRAINING ACTIVITY, LOCATION, UIC: MATSG-21, NATTC Pensacola, 67412

**INSTRUCTOR BILLETS**

USMC													
GYSGT	6324	0	4	0	4	0	4	0	4	0	4	0	4
GYSGT	6531	0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6541	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6124	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6154	0	2	0	2	0	2	0	2	0	2	0	2
SSGT	6172	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6531	0	3	0	3	0	3	0	3	0	3	0	3
SSGT	6541	0	3	0	3	0	3	0	3	0	3	0	3
SGT	6531	0	5	0	5	0	5	0	5	0	5	0	5
SGT	6541	0	1	0	1	0	1	0	1	0	1	0	1

**SUPPORT BILLETS**

USMC													
SSGT	6114	0	1	0	1	0	1	0	1	0	1	0	1
<b>TOTAL:</b>		<b>0</b>	<b>23</b>										

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

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** MTU NAMTRAU Lemoore, 66060

**INSTRUCTOR BILLETS**

USN														
AMC	7212	9502	0	1	0	1	0	1	0	1	0	1	0	1
AM1	7213	9502	0	2	0	2	0	2	0	2	0	2	0	2
AT1	6634	9502	0	1	0	1	0	1	0	1	0	1	0	1
AT2	6634	9502	0	1	0	1	0	1	0	1	0	1	0	1
<b>TOTAL:</b>			0	5	0	5	0	5	0	5	0	5	0	5

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

**INSTRUCTOR BILLETS**

USN														
AM1	7213	9502	0	3	0	3	0	3	0	3	0	3	0	3
AM2	7213	9502	0	3	0	3	0	3	0	3	0	3	0	3
AT1	6634	9502	0	2	0	2	0	2	0	2	0	2	0	2
<b>TOTAL:</b>			0	8	0	8	0	8	0	8	0	8	0	8

**TRAINING ACTIVITY, LOCATION, UIC:** MTU 3033 NAMTRAU North Island, 39476

**INSTRUCTOR BILLETS**

USN														
AD1	6426	9502	0	2	0	2	0	2	0	2	0	2	0	2
USMC														
SGT	6124		0	1	0	1	0	1	0	1	0	1	0	1
<b>TOTAL:</b>			0	3	0	3	0	3	0	3	0	3	0	3

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT, MCAS Camp Pendleton, 48107

**INSTRUCTOR BILLETS**

USMC													
GYSGT	6114	0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6124	0	2	0	2	0	2	0	2	0	2	0	2
GYSGT	6324	0	3	0	3	0	3	0	3	0	3	0	3
GYSGT	6531	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6114	0	6	0	6	0	6	0	6	0	6	0	6
SSGT	6154	0	4	0	4	0	4	0	4	0	4	0	4
SSGT	6324	0	6	0	6	0	6	0	6	0	6	0	6
SSGT	6434	0	6	0	6	0	6	0	6	0	6	0	6
SSGT	6531	0	2	0	2	0	2	0	2	0	2	0	2
SGT	6114	0	20	0	20	0	20	0	20	0	20	0	20
SGT	6124	0	1	0	1	0	1	0	1	0	1	0	1
SGT	6324	0	12	0	12	0	12	0	12	0	12	0	12
SGT	6433	0	2	0	2	0	2	0	2	0	2	0	2
SGT	6531	0	2	0	2	0	2	0	2	0	2	0	2
CPL	6154	0	1	0	1	0	1	0	1	0	1	0	1
CPL	6531	0	4	0	4	0	4	0	4	0	4	0	4

**SUPPORT BILLETS**

USMC													
GYSGT	6324	0	3	0	3	0	3	0	3	0	3	0	3
<b>TOTAL:</b>		0	76	0	76	0	76	0	76	0	76	0	76

TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT, MCAS Cherry Point, 31511

**INSTRUCTOR BILLETS**

USMC													
GYSGT	6531	0	2	0	2	0	2	0	2	0	2	0	2
GYSGT	6541	0	2	0	2	0	2	0	2	0	2	0	2
SSGT	6531	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6541	0	2	0	2	0	2	0	2	0	2	0	2
SGT	6413	0	4	0	4	0	4	0	4	0	4	0	4
SGT	6483	0	4	0	4	0	4	0	4	0	4	0	4
SGT	6531	0	6	0	6	0	6	0	6	0	6	0	6
SGT	6541	0	16	0	16	0	16	0	16	0	16	0	16
<b>TOTAL:</b>		0	37	0	37	0	37	0	37	0	37	0	37

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT, MCAS New River, 55203

**INSTRUCTOR BILLETS**

USMC													
SSGT	6132	0	1	0	1	0	1	0	1	0	1	0	1
CPL	6132	0	2	0	2	0	2	0	2	0	2	0	2
<b>TOTAL:</b>		0	3	0	3	0	3	0	3	0	3	0	3

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

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY08		FY09		FY10		FY11		FY12	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATTU Oceana, 66045	USMC	0.0	1.1	0.0	1.1	0.0	1.1	0.0	1.1	0.0	1.1	0.0	1.1
CNATT MARU, MCAS New River, 55203	USMC	0.0	0.8	0.0	0.8	0.0	0.8	0.0	0.8	0.0	0.8	0.0	0.8
	USMC	0.0	1.7	0.0	1.7	0.0	1.7	0.0	1.7	0.0	1.7	0.0	1.7
HMT-303, MCAS Camp Pendleton, 01303	USMC	33.9	16.4	33.1	16.4	34.1	16.4	33.7	16.4	33.5	16.4	33.1	16.4
CNATTU Lemoore, 66060	USMC	0.0	1.6	0.0	1.6	0.0	1.6	0.0	1.6	0.0	1.6	0.0	1.6
CNATT MARU, MCAS Camp Pendleton, 48107	USMC	0.0	74.0	0.0	74.0	0.0	74.0	0.0	74.0	0.0	74.0	0.0	74.0
<b>SUMMARY TOTALS:</b>	USMC	33.9	95.6	33.1	95.6	34.1	95.6	33.7	95.6	33.5	95.6	33.1	95.6
<b>GRAND TOTALS:</b>		33.9	95.6	33.1	95.6	34.1	95.6	33.7	95.6	33.5	95.6	33.1	95.6

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08 +/-	CUM	FY09 +/-	CUM	FY10 +/-	CUM	FY11 +/-	CUM	FY12 +/-	CUM
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a. OFFICER - USN

Operational Billets ACDU and TAR													
LT	2102		8	0	8	0	8	0	8	0	8	0	8
Fleet Support Billets ACDU and TAR													
LT	2100		1	0	1	0	1	0	1	0	1	0	1
SELRES Billets													
LT	2100		2	0	2	0	2	0	2	0	2	0	2

TOTAL USN OFFICER BILLETS:

Operational			8	0	8	0	8	0	8	0	8	0	8
Fleet Support			1	0	1	0	1	0	1	0	1	0	1
SELRES			2	0	2	0	2	0	2	0	2	0	2

b. ENLISTED - USN

Operational Billets ACDU and TAR													
HM1	8404		8	0	8	0	8	0	8	0	8	0	8
HM2	8406		22	0	22	0	22	0	22	0	22	0	22
Fleet Support Billets ACDU and TAR													
HM1	8404		1	0	1	0	1	0	1	0	1	0	1
HM2	8404		1	0	1	0	1	0	1	0	1	0	1
HM3	8404		1	0	1	0	1	0	1	0	1	0	1
Staff Billets ACDU and TAR													
AD1	6426	9502	2	0	2	0	2	0	2	0	2	0	2
AMC	7212	9502	1	0	1	0	1	0	1	0	1	0	1
AM1	7213	9502	5	0	5	0	5	0	5	0	5	0	5
AM2	7213	9502	3	0	3	0	3	0	3	0	3	0	3
AT1	6634	9502	3	0	3	0	3	0	3	0	3	0	3
AT2	6634	9502	1	0	1	0	1	0	1	0	1	0	1
SELRES Billets													
HM1	8404		2	0	2	0	2	0	2	0	2	0	2
HM2	8404		2	0	2	0	2	0	2	0	2	0	2
HM3	8404		2	0	2	0	2	0	2	0	2	0	2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08 +/-	CUM	FY09 +/-	CUM	FY10 +/-	CUM	FY11 +/-	CUM	FY12 +/-	CUM
<b>TOTAL USN ENLISTED BILLETS:</b>													
Operational			30	0	30	0	30	0	30	0	30	0	30
Fleet Support			3	0	3	0	3	0	3	0	3	0	3
Staff			15	0	15	0	15	0	15	0	15	0	15
SELRES			6	0	6	0	6	0	6	0	6	0	6

**c. OFFICER - USMC**

Operational Billets USMC and AR

LTCOL	7563		7	0	7	0	7	0	7	0	7	0	7
LTCOL	7565		7	0	7	0	7	0	7	0	7	0	7
MAJ	7563		22	0	22	0	22	0	22	0	22	0	22
MAJ	7565		45	0	45	0	45	0	45	0	45	0	45
CAPT	6002		1	0	1	0	1	0	1	0	1	0	1
CAPT	6004		1	0	1	0	1	0	1	0	1	0	1
CAPT	7563		72	0	72	0	72	0	72	0	72	0	72
CAPT	7563	7577	6	0	6	0	6	0	6	0	6	0	6
CAPT	7565		135	0	135	0	135	0	135	0	135	0	135
CAPT	7565	7577	1	0	1	0	1	0	1	0	1	0	1
LT	6002		6	0	6	0	6	0	6	0	6	0	6
LT	7563		54	0	54	0	54	0	54	0	54	0	54
LT	7565		90	0	90	0	90	0	90	0	90	0	90
CWO4	6004		6	0	6	0	6	0	6	0	6	0	6
CWO3	6004		2	0	2	0	2	0	2	0	2	0	2
CWO3	6302		1	0	1	0	1	0	1	0	1	0	1
CWO2	0170		9	0	9	0	9	0	9	0	9	0	9
CWO2	6302		6	0	6	0	6	0	6	0	6	0	6
CWO2	6502		9	0	9	0	9	0	9	0	9	0	9

Fleet Support Billets USMC and AR

LTCOL	6002		1	0	1	0	1	0	1	0	1	0	1
LTCOL	6602		1	0	1	0	1	0	1	0	1	0	1
LTCOL	7563		1	0	1	0	1	0	1	0	1	0	1
LTCOL	7565		1	0	1	0	1	0	1	0	1	0	1
LTCOL	9957	7565	2	0	2	0	2	0	2	0	2	0	2
LTCOL	9958	7563	1	0	1	0	1	0	1	0	1	0	1
LTCOL	9958	7565	5	0	5	0	5	0	5	0	5	0	5
MAJ	6002		1	0	1	0	1	0	1	0	1	0	1
MAJ	6004		2	0	2	0	2	0	2	0	2	0	2
MAJ	6602		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
MAJ	7563		3	0	3	0	3	0	3	0	3	0	3
MAJ	7565		3	0	3	0	3	0	3	0	3	0	3
MAJ	9957	7565	2	0	2	0	2	0	2	0	2	0	2
MAJ	9958	7563	1	0	1	0	1	0	1	0	1	0	1
MAJ	9958	7565	3	0	3	0	3	0	3	0	3	0	3
CAPT	0402		3	0	3	0	3	0	3	0	3	0	3
CAPT	6002		3	0	3	0	3	0	3	0	3	0	3
CAPT	6004		2	0	2	0	2	0	2	0	2	0	2
CAPT	6302		1	0	1	0	1	0	1	0	1	0	1
CAPT	6502		1	0	1	0	1	0	1	0	1	0	1
CAPT	6602		4	0	4	0	4	0	4	0	4	0	4
CAPT	7563		10	0	10	0	10	0	10	0	10	0	10
CAPT	7563	9957	1	0	1	0	1	0	1	0	1	0	1
CAPT	7565		7	0	7	0	7	0	7	0	7	0	7
CAPT	9957	7563	2	0	2	0	2	0	2	0	2	0	2
CAPT	9957	7565	6	0	6	0	6	0	6	0	6	0	6
LT	6002		2	0	2	0	2	0	2	0	2	0	2
LT	6602		5	0	5	0	5	0	5	0	5	0	5
LT	7563	7565	1	0	1	0	1	0	1	0	1	0	1
CWO4	6004		2	0	2	0	2	0	2	0	2	0	2
CWO4	6302		3	0	3	0	3	0	3	0	3	0	3
CWO3	0170		2	0	2	0	2	0	2	0	2	0	2
CWO3	6004		1	0	1	0	1	0	1	0	1	0	1
CWO3	6604		1	0	1	0	1	0	1	0	1	0	1
CWO2	6604		2	0	2	0	2	0	2	0	2	0	2
WO	6004		1	0	1	0	1	0	1	0	1	0	1
Staff Billets USMC and AR													
MAJ	7563		3	0	3	0	3	0	3	0	3	0	3
MAJ	7565		5	0	5	0	5	0	5	0	5	0	5
CAPT	7563		10	0	10	0	10	0	10	0	10	0	10
CAPT	7565		19	0	19	0	19	0	19	0	19	0	19
Chargeable Student Billets USMC and AR													
			34	0	34	1	35	-1	34	0	34	0	34
SMCR Billets													
LTCOL	6002		2	0	2	0	2	0	2	0	2	0	2
LTCOL	6602		2	0	2	0	2	0	2	0	2	0	2
LTCOL	7563		2	0	2	0	2	0	2	0	2	0	2
LTCOL	7565		2	0	2	0	2	0	2	0	2	0	2
MAJ	6002		2	0	2	0	2	0	2	0	2	0	2
MAJ	6004		1	0	1	0	1	0	1	0	1	0	1
MAJ	6602		2	0	2	0	2	0	2	0	2	0	2
MAJ	7563		5	0	5	0	5	0	5	0	5	0	5
MAJ	7565		8	0	8	0	8	0	8	0	8	0	8
CAPT	6004		1	0	1	0	1	0	1	0	1	0	1
CAPT	6302		2	0	2	0	2	0	2	0	2	0	2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
CAPT	6502		2	0	2	0	2	0	2	0	2	0	2
CAPT	6602		2	0	2	0	2	0	2	0	2	0	2
CAPT	7563		6	0	6	0	6	0	6	0	6	0	6
CAPT	7563	7577	2	0	2	0	2	0	2	0	2	0	2
CAPT	7565		30	0	30	0	30	0	30	0	30	0	30
LT	6002		6	0	6	0	6	0	6	0	6	0	6
LT	6602		7	0	7	0	7	0	7	0	7	0	7
LT	7563		12	0	12	0	12	0	12	0	12	0	12
LT	7565		36	0	36	0	36	0	36	0	36	0	36
CWO3	0170		1	0	1	0	1	0	1	0	1	0	1
CWO2	6004		1	0	1	0	1	0	1	0	1	0	1
CWO2	6302		2	0	2	0	2	0	2	0	2	0	2
CWO2	6604		4	0	4	0	4	0	4	0	4	0	4
WO	6004		1	0	1	0	1	0	1	0	1	0	1

TOTAL USMC OFFICER BILLETS:

Operational	480	0	480	0	480	0	480	0	480	0	480	0	480
Fleet Support	88	0	88	0	88	0	88	0	88	0	88	0	88
Staff	37	0	37	0	37	0	37	0	37	0	37	0	37
Chargeable Student	34	0	34	1	35	-1	34	0	34	0	34	0	34
SMCR	141	0	141	0	141	0	141	0	141	0	141	0	141

d. ENLISTED - USMC

Operational Billets USMC and AR

SGTMAJ	9999		7	0	7	0	7	0	7	0	7	0	7
MGYSGT	6019		2	0	2	0	2	0	2	0	2	0	2
MGYSGT	6391		1	0	1	0	1	0	1	0	1	0	1
MSGT	0193		8	0	8	0	8	0	8	0	8	0	8
MSGT	6019		9	0	9	0	9	0	9	0	9	0	9
MSGT	6391		8	0	8	0	8	0	8	0	8	0	8
GYSGT	0193		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6012		22	0	22	0	22	0	22	0	22	0	22
GYSGT	6114		24	0	24	0	24	0	24	0	24	0	24
GYSGT	6124		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6154		22	0	22	0	22	0	22	0	22	0	22
GYSGT	6174		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6324		25	0	25	0	25	0	25	0	25	0	25

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
GYSGT	6531		31	0	31	0	31	0	31	0	31	0	31
GYSGT	9954		22	0	22	0	22	0	22	0	22	0	22
SSGT	0193		8	0	8	0	8	0	8	0	8	0	8
SSGT	0231		7	0	7	0	7	0	7	0	7	0	7
SSGT	6012		22	0	22	0	22	0	22	0	22	0	22
SSGT	6046		32	0	32	0	32	0	32	0	32	0	32
SSGT	6048		25	0	25	0	25	0	25	0	25	0	25
SSGT	6114		49	0	49	0	49	0	49	0	49	0	49
SSGT	6124		22	0	22	0	22	0	22	0	22	0	22
SSGT	6154		29	0	29	0	29	0	29	0	29	0	29
SSGT	6174		24	0	24	0	24	0	24	0	24	0	24
SSGT	6324		46	0	46	0	46	0	46	0	46	0	46
SSGT	6483		2	0	2	0	2	0	2	0	2	0	2
SSGT	6531		24	0	24	0	24	0	24	0	24	0	24
SSGT	7041		9	0	9	0	9	0	9	0	9	0	9
SSGT	8711		9	0	9	0	9	0	9	0	9	0	9
SGT	0151		8	0	8	0	8	0	8	0	8	0	8
SGT	0431		8	0	8	0	8	0	8	0	8	0	8
SGT	6012		47	0	47	0	47	0	47	0	47	0	47
SGT	6033		23	0	23	0	23	0	23	0	23	0	23
SGT	6046		2	0	2	0	2	0	2	0	2	0	2
SGT	6048		2	0	2	0	2	0	2	0	2	0	2
SGT	6062		2	0	2	0	2	0	2	0	2	0	2
SGT	6072		24	0	24	0	24	0	24	0	24	0	24
SGT	6114		90	0	90	0	90	0	90	0	90	0	90
SGT	6124		25	0	25	0	25	0	25	0	25	0	25
SGT	6154		69	0	69	0	69	0	69	0	69	0	69
SGT	6174		29	0	29	0	29	0	29	0	29	0	29
SGT	6177	6174	8	0	8	0	8	0	8	0	8	0	8
SGT	6324		67	0	67	0	67	0	67	0	67	0	67
SGT	6413		22	0	22	0	22	0	22	0	22	0	22
SGT	6433		1	0	1	0	1	0	1	0	1	0	1
SGT	6483		1	0	1	0	1	0	1	0	1	0	1
SGT	6492		1	0	1	0	1	0	1	0	1	0	1
SGT	6531		47	0	47	0	47	0	47	0	47	0	47
SGT	6541		25	0	25	0	25	0	25	0	25	0	25
SGT	6672		23	0	23	0	23	0	23	0	23	0	23
SGT	8421		9	0	9	0	9	0	9	0	9	0	9
CPL	0121		26	0	26	0	26	0	26	0	26	0	26
CPL	0151		11	0	11	0	11	0	11	0	11	0	11
CPL	0431		1	0	1	0	1	0	1	0	1	0	1
CPL	6042		8	0	8	0	8	0	8	0	8	0	8
CPL	6043		1	0	1	0	1	0	1	0	1	0	1
CPL	6046		45	0	45	0	45	0	45	0	45	0	45
CPL	6048		47	0	47	0	47	0	47	0	47	0	47
CPL	6062		22	0	22	0	22	0	22	0	22	0	22
CPL	6073		22	0	22	0	22	0	22	0	22	0	22
CPL	6114		121	0	121	0	121	0	121	0	121	0	121
CPL	6124		22	0	22	0	22	0	22	0	22	0	22
CPL	6132		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
CPL	6154		115	0	115	0	115	0	115	0	115	0	115
CPL	6174		58	0	58	0	58	0	58	0	58	0	58
CPL	6324		136	0	136	0	136	0	136	0	136	0	136
CPL	6413		2	0	2	0	2	0	2	0	2	0	2
CPL	6423		3	0	3	0	3	0	3	0	3	0	3
CPL	6433		24	0	24	0	24	0	24	0	24	0	24
CPL	6483		23	0	23	0	23	0	23	0	23	0	23
CPL	6492		2	0	2	0	2	0	2	0	2	0	2
CPL	6531		74	0	74	0	74	0	74	0	74	0	74
CPL	6541		44	0	44	0	44	0	44	0	44	0	44
CPL	7041		1	0	1	0	1	0	1	0	1	0	1
LCPL	0121		26	0	26	0	26	0	26	0	26	0	26
LCPL	0151		6	0	6	0	6	0	6	0	6	0	6
LCPL	0231		18	0	18	0	18	0	18	0	18	0	18
LCPL	0431		28	0	28	0	28	0	28	0	28	0	28
LCPL	2111		9	0	9	0	9	0	9	0	9	0	9
LCPL	5711		1	0	1	0	1	0	1	0	1	0	1
LCPL	6042		7	0	7	0	7	0	7	0	7	0	7
LCPL	6043		40	0	40	0	40	0	40	0	40	0	40
LCPL	6046		21	0	21	0	21	0	21	0	21	0	21
LCPL	6048		6	0	6	0	6	0	6	0	6	0	6
LCPL	6062		21	0	21	0	21	0	21	0	21	0	21
LCPL	6072		25	0	25	0	25	0	25	0	25	0	25
LCPL	6073		2	0	2	0	2	0	2	0	2	0	2
LCPL	6092		2	0	2	0	2	0	2	0	2	0	2
LCPL	6114		247	0	247	0	247	0	247	0	247	0	247
LCPL	6124		5	0	5	0	5	0	5	0	5	0	5
LCPL	6132		23	0	23	0	23	0	23	0	23	0	23
LCPL	6154		193	0	193	0	193	0	193	0	193	0	193
LCPL	6174		51	0	51	0	51	0	51	0	51	0	51
LCPL	6324		141	0	141	0	141	0	141	0	141	0	141
LCPL	6412		3	0	3	0	3	0	3	0	3	0	3
LCPL	6413		23	0	23	0	23	0	23	0	23	0	23
LCPL	6422		4	0	4	0	4	0	4	0	4	0	4
LCPL	6422	6412	18	0	18	0	18	0	18	0	18	0	18
LCPL	6433		18	0	18	0	18	0	18	0	18	0	18
LCPL	6483		3	0	3	0	3	0	3	0	3	0	3
LCPL	6492		44	0	44	0	44	0	44	0	44	0	44
LCPL	6531		96	0	96	0	96	0	96	0	96	0	96
LCPL	6541		65	0	65	0	65	0	65	0	65	0	65
LCPL	6672		29	0	29	0	29	0	29	0	29	0	29
LCPL	7041		27	0	27	0	27	0	27	0	27	0	27
Fleet Support Billets USMC and AR													
SGTMAJ	9999		1	0	1	0	1	0	1	0	1	0	1
MGYSGT	6019		3	0	3	0	3	0	3	0	3	0	3
MGYSGT	6391		2	0	2	0	2	0	2	0	2	0	2
MGYSGT	6591		1	0	1	0	1	0	1	0	1	0	1
MGYSGT	6672		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
MSGT	0193		2	0	2	0	2	0	2	0	2	0	2
MSGT	0369		3	0	3	0	3	0	3	0	3	0	3
MSGT	6019		3	0	3	0	3	0	3	0	3	0	3
MSGT	6046		2	0	2	0	2	0	2	0	2	0	2
MSGT	6391		1	0	1	0	1	0	1	0	1	0	1
MSGT	6672		4	0	4	0	4	0	4	0	4	0	4
GYSGT	0491		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6042		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6046		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6048		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6072		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6073		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6074		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6092		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6114		6	0	6	0	6	0	6	0	6	0	6
GYSGT	6123		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6124		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6132		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6174		9	0	9	0	9	0	9	0	9	0	9
GYSGT	6324		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6414		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6434		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6483		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6492		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6531		5	0	5	0	5	0	5	0	5	0	5
GYSGT	6541		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6672		9	0	9	0	9	0	9	0	9	0	9
GYSGT	6694		2	0	2	0	2	0	2	0	2	0	2
GYSGT	9960	6114	1	0	1	0	1	0	1	0	1	0	1
SSGT	6033		3	0	3	0	3	0	3	0	3	0	3
SSGT	6042		1	0	1	0	1	0	1	0	1	0	1
SSGT	6046		3	0	3	0	3	0	3	0	3	0	3
SSGT	6048		3	0	3	0	3	0	3	0	3	0	3
SSGT	6062		3	0	3	0	3	0	3	0	3	0	3
SSGT	6072		4	0	4	0	4	0	4	0	4	0	4
SSGT	6073		4	0	4	0	4	0	4	0	4	0	4
SSGT	6074		1	0	1	0	1	0	1	0	1	0	1
SSGT	6092		1	0	1	0	1	0	1	0	1	0	1
SSGT	6114		8	0	8	0	8	0	8	0	8	0	8
SSGT	6124		4	0	4	0	4	0	4	0	4	0	4
SSGT	6124	6023	3	0	3	0	3	0	3	0	3	0	3
SSGT	6132		2	0	2	0	2	0	2	0	2	0	2
SSGT	6154		4	0	4	0	4	0	4	0	4	0	4
SSGT	6154	9954	1	0	1	0	1	0	1	0	1	0	1
SSGT	6177	6174	2	0	2	0	2	0	2	0	2	0	2
SSGT	6324		4	0	4	0	4	0	4	0	4	0	4
SSGT	6414		4	0	4	0	4	0	4	0	4	0	4
SSGT	6434		4	0	4	0	4	0	4	0	4	0	4
SSGT	6483		2	0	2	0	2	0	2	0	2	0	2
SSGT	6492		2	0	2	0	2	0	2	0	2	0	2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
SSGT	6531		6	0	6	0	6	0	6	0	6	0	6
SSGT	6541		6	0	6	0	6	0	6	0	6	0	6
SSGT	6672		14	0	14	0	14	0	14	0	14	0	14
SSGT	6694		3	0	3	0	3	0	3	0	3	0	3
SSGT	8421		2	0	2	0	2	0	2	0	2	0	2
SGT	0121		2	0	2	0	2	0	2	0	2	0	2
SGT	2111		1	0	1	0	1	0	1	0	1	0	1
SGT	3052		2	0	2	0	2	0	2	0	2	0	2
SGT	5711		1	0	1	0	1	0	1	0	1	0	1
SGT	6023		1	0	1	0	1	0	1	0	1	0	1
SGT	6033		2	0	2	0	2	0	2	0	2	0	2
SGT	6042		1	0	1	0	1	0	1	0	1	0	1
SGT	6046		6	0	6	0	6	0	6	0	6	0	6
SGT	6048		5	0	5	0	5	0	5	0	5	0	5
SGT	6072		6	0	6	0	6	0	6	0	6	0	6
SGT	6073		6	0	6	0	6	0	6	0	6	0	6
SGT	6074		2	0	2	0	2	0	2	0	2	0	2
SGT	6092		3	0	3	0	3	0	3	0	3	0	3
SGT	6114		1	0	1	0	1	0	1	0	1	0	1
SGT	6124		7	0	7	0	7	0	7	0	7	0	7
SGT	6124	6023	5	0	5	0	5	0	5	0	5	0	5
SGT	6132		3	0	3	0	3	0	3	0	3	0	3
SGT	6154		1	0	1	0	1	0	1	0	1	0	1
SGT	6174		6	0	6	0	6	0	6	0	6	0	6
SGT	6324		1	0	1	0	1	0	1	0	1	0	1
SGT	6423		2	0	2	0	2	0	2	0	2	0	2
SGT	6483		2	0	2	0	2	0	2	0	2	0	2
SGT	6492		3	0	3	0	3	0	3	0	3	0	3
SGT	6531		3	0	3	0	3	0	3	0	3	0	3
SGT	6541		3	0	3	0	3	0	3	0	3	0	3
SGT	6672		19	0	19	0	19	0	19	0	19	0	19
SGT	6694		6	0	6	0	6	0	6	0	6	0	6
SGT	8711		2	0	2	0	2	0	2	0	2	0	2
SGT	9956		1	0	1	0	1	0	1	0	1	0	1
CPL	0121		3	0	3	0	3	0	3	0	3	0	3
CPL	0151		1	0	1	0	1	0	1	0	1	0	1
CPL	0431		1	0	1	0	1	0	1	0	1	0	1
CPL	3052		1	0	1	0	1	0	1	0	1	0	1
CPL	6023		1	0	1	0	1	0	1	0	1	0	1
CPL	6042		1	0	1	0	1	0	1	0	1	0	1
CPL	6046		2	0	2	0	2	0	2	0	2	0	2
CPL	6048		3	0	3	0	3	0	3	0	3	0	3
CPL	6062		1	0	1	0	1	0	1	0	1	0	1
CPL	6073		4	0	4	0	4	0	4	0	4	0	4
CPL	6074		2	0	2	0	2	0	2	0	2	0	2
CPL	6114		7	0	7	0	7	0	7	0	7	0	7
CPL	6124		11	0	11	0	11	0	11	0	11	0	11
CPL	6124	6023	5	0	5	0	5	0	5	0	5	0	5
CPL	6132		4	0	4	0	4	0	4	0	4	0	4
CPL	6154		2	0	2	0	2	0	2	0	2	0	2

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

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
CPL	6324		1	0	1	0	1	0	1	0	1	0	1
CPL	6423		1	0	1	0	1	0	1	0	1	0	1
CPL	6433		3	0	3	0	3	0	3	0	3	0	3
CPL	6492		1	0	1	0	1	0	1	0	1	0	1
CPL	6531		5	0	5	0	5	0	5	0	5	0	5
CPL	6541		2	0	2	0	2	0	2	0	2	0	2
CPL	6672		24	0	24	0	24	0	24	0	24	0	24
CPL	6694		5	0	5	0	5	0	5	0	5	0	5
LCPL	0121		4	0	4	0	4	0	4	0	4	0	4
LCPL	0151		5	0	5	0	5	0	5	0	5	0	5
LCPL	0431		1	0	1	0	1	0	1	0	1	0	1
LCPL	2111		3	0	3	0	3	0	3	0	3	0	3
LCPL	2161		4	0	4	0	4	0	4	0	4	0	4
LCPL	3052		1	0	1	0	1	0	1	0	1	0	1
LCPL	6042		5	0	5	0	5	0	5	0	5	0	5
LCPL	6046		10	0	10	0	10	0	10	0	10	0	10
LCPL	6048		5	0	5	0	5	0	5	0	5	0	5
LCPL	6072		5	0	5	0	5	0	5	0	5	0	5
LCPL	6073		5	0	5	0	5	0	5	0	5	0	5
LCPL	6074		3	0	3	0	3	0	3	0	3	0	3
LCPL	6092		1	0	1	0	1	0	1	0	1	0	1
LCPL	6114		5	0	5	0	5	0	5	0	5	0	5
LCPL	6124		24	0	24	0	24	0	24	0	24	0	24
LCPL	6154		2	0	2	0	2	0	2	0	2	0	2
LCPL	6174		4	0	4	0	4	0	4	0	4	0	4
LCPL	6324		1	0	1	0	1	0	1	0	1	0	1
LCPL	6412		1	0	1	0	1	0	1	0	1	0	1
LCPL	6423		5	0	5	0	5	0	5	0	5	0	5
LCPL	6433		1	0	1	0	1	0	1	0	1	0	1
LCPL	6483		5	0	5	0	5	0	5	0	5	0	5
LCPL	6492		3	0	3	0	3	0	3	0	3	0	3
LCPL	6541		8	0	8	0	8	0	8	0	8	0	8
LCPL	6672		25	0	25	0	25	0	25	0	25	0	25
LCPL	6694		13	0	13	0	13	0	13	0	13	0	13
Staff Billets USMC and AR													
GYSGT	6114		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6124		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6174		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6324		10	0	10	0	10	0	10	0	10	0	10
GYSGT	6531		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6541		3	0	3	0	3	0	3	0	3	0	3
SSGT	6114		7	0	7	0	7	0	7	0	7	0	7
SSGT	6124		1	0	1	0	1	0	1	0	1	0	1
SSGT	6132		1	0	1	0	1	0	1	0	1	0	1
SSGT	6154		6	0	6	0	6	0	6	0	6	0	6
SSGT	6172		1	0	1	0	1	0	1	0	1	0	1
SSGT	6324		6	0	6	0	6	0	6	0	6	0	6

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
SSGT	6434		6	0	6	0	6	0	6	0	6	0	6
SSGT	6531		6	0	6	0	6	0	6	0	6	0	6
SSGT	6541		5	0	5	0	5	0	5	0	5	0	5
SGT	6114		20	0	20	0	20	0	20	0	20	0	20
SGT	6124		2	0	2	0	2	0	2	0	2	0	2
SGT	6174		3	0	3	0	3	0	3	0	3	0	3
SGT	6324		12	0	12	0	12	0	12	0	12	0	12
SGT	6413		4	0	4	0	4	0	4	0	4	0	4
SGT	6433		2	0	2	0	2	0	2	0	2	0	2
SGT	6483		4	0	4	0	4	0	4	0	4	0	4
SGT	6531		13	0	13	0	13	0	13	0	13	0	13
SGT	6541		17	0	17	0	17	0	17	0	17	0	17
CPL	6132		2	0	2	0	2	0	2	0	2	0	2
CPL	6154		1	0	1	0	1	0	1	0	1	0	1
CPL	6174		4	0	4	0	4	0	4	0	4	0	4
CPL	6531		4	0	4	0	4	0	4	0	4	0	4
Chargeable Student Billets USMC and AR			96	0	96	0	96	0	96	0	96	0	96
SMCR Billets													
SGTMAJ	9999		4	0	4	0	4	0	4	0	4	0	4
MGYSGT	6391		1	0	1	0	1	0	1	0	1	0	1
MGYSGT	6591		2	0	2	0	2	0	2	0	2	0	2
MGYSGT	6672		2	0	2	0	2	0	2	0	2	0	2
MSGT	0193		1	0	1	0	1	0	1	0	1	0	1
MSGT	6019		6	0	6	0	6	0	6	0	6	0	6
MSGT	6046		1	0	1	0	1	0	1	0	1	0	1
MSGT	6391		2	0	2	0	2	0	2	0	2	0	2
MSGT	6672		2	0	2	0	2	0	2	0	2	0	2
GYSGT	0491		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6012		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6042		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6046		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6048		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6072		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6073		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6074		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6092		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6114		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6123		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6124		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6132		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6154		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6324		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6414		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6434		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6483		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6492		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6531		2	0	2	0	2	0	2	0	2	0	2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
GYSGT	6541		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6672		9	0	9	0	9	0	9	0	9	0	9
GYSGT	6694		1	0	1	0	1	0	1	0	1	0	1
SSGT	0193		1	0	1	0	1	0	1	0	1	0	1
SSGT	0231		1	0	1	0	1	0	1	0	1	0	1
SSGT	2161		2	0	2	0	2	0	2	0	2	0	2
SSGT	6012		3	0	3	0	3	0	3	0	3	0	3
SSGT	6023		2	0	2	0	2	0	2	0	2	0	2
SSGT	6042		2	0	2	0	2	0	2	0	2	0	2
SSGT	6043		2	0	2	0	2	0	2	0	2	0	2
SSGT	6046		5	0	5	0	5	0	5	0	5	0	5
SSGT	6048		3	0	3	0	3	0	3	0	3	0	3
SSGT	6062		6	0	6	0	6	0	6	0	6	0	6
SSGT	6072		2	0	2	0	2	0	2	0	2	0	2
SSGT	6073		6	0	6	0	6	0	6	0	6	0	6
SSGT	6074		2	0	2	0	2	0	2	0	2	0	2
SSGT	6092		2	0	2	0	2	0	2	0	2	0	2
SSGT	6114		4	0	4	0	4	0	4	0	4	0	4
SSGT	6124		2	0	2	0	2	0	2	0	2	0	2
SSGT	6132		4	0	4	0	4	0	4	0	4	0	4
SSGT	6154		2	0	2	0	2	0	2	0	2	0	2
SSGT	6174		2	0	2	0	2	0	2	0	2	0	2
SSGT	6324		8	0	8	0	8	0	8	0	8	0	8
SSGT	6414		3	0	3	0	3	0	3	0	3	0	3
SSGT	6434		2	0	2	0	2	0	2	0	2	0	2
SSGT	6483		3	0	3	0	3	0	3	0	3	0	3
SSGT	6492		1	0	1	0	1	0	1	0	1	0	1
SSGT	6531		4	0	4	0	4	0	4	0	4	0	4
SSGT	6541		3	0	3	0	3	0	3	0	3	0	3
SSGT	6672		15	0	15	0	15	0	15	0	15	0	15
SSGT	6694		3	0	3	0	3	0	3	0	3	0	3
SSGT	8421		1	0	1	0	1	0	1	0	1	0	1
SGT	0121		1	0	1	0	1	0	1	0	1	0	1
SGT	2111		2	0	2	0	2	0	2	0	2	0	2
SGT	3052		1	0	1	0	1	0	1	0	1	0	1
SGT	6012		4	0	4	0	4	0	4	0	4	0	4
SGT	6023		3	0	3	0	3	0	3	0	3	0	3
SGT	6033		1	0	1	0	1	0	1	0	1	0	1
SGT	6042		2	0	2	0	2	0	2	0	2	0	2
SGT	6046		6	0	6	0	6	0	6	0	6	0	6
SGT	6048		4	0	4	0	4	0	4	0	4	0	4
SGT	6072		11	0	11	0	11	0	11	0	11	0	11
SGT	6073		3	0	3	0	3	0	3	0	3	0	3
SGT	6074		1	0	1	0	1	0	1	0	1	0	1
SGT	6092		3	0	3	0	3	0	3	0	3	0	3
SGT	6114		9	0	9	0	9	0	9	0	9	0	9
SGT	6132		3	0	3	0	3	0	3	0	3	0	3
SGT	6154		4	0	4	0	4	0	4	0	4	0	4
SGT	6324		9	0	9	0	9	0	9	0	9	0	9
SGT	6413		2	0	2	0	2	0	2	0	2	0	2

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

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY08		FY09		FY10		FY11		FY12	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
SGT	6423		1	0	1	0	1	0	1	0	1	0	1
SGT	6483		4	0	4	0	4	0	4	0	4	0	4
SGT	6492		3	0	3	0	3	0	3	0	3	0	3
SGT	6531		4	0	4	0	4	0	4	0	4	0	4
SGT	6541		2	0	2	0	2	0	2	0	2	0	2
SGT	6672		23	0	23	0	23	0	23	0	23	0	23
SGT	6694		3	0	3	0	3	0	3	0	3	0	3
SGT	8711		3	0	3	0	3	0	3	0	3	0	3
SGT	9956		2	0	2	0	2	0	2	0	2	0	2
CPL	0151		2	0	2	0	2	0	2	0	2	0	2
CPL	0431		2	0	2	0	2	0	2	0	2	0	2
CPL	3052		2	0	2	0	2	0	2	0	2	0	2
CPL	6023		3	0	3	0	3	0	3	0	3	0	3
CPL	6033		8	0	8	0	8	0	8	0	8	0	8
CPL	6042		2	0	2	0	2	0	2	0	2	0	2
CPL	6046		5	0	5	0	5	0	5	0	5	0	5
CPL	6048		8	0	8	0	8	0	8	0	8	0	8
CPL	6062		4	0	4	0	4	0	4	0	4	0	4
CPL	6073		4	0	4	0	4	0	4	0	4	0	4
CPL	6074		1	0	1	0	1	0	1	0	1	0	1
CPL	6092		1	0	1	0	1	0	1	0	1	0	1
CPL	6114		21	0	21	0	21	0	21	0	21	0	21
CPL	6124		4	0	4	0	4	0	4	0	4	0	4
CPL	6132		8	0	8	0	8	0	8	0	8	0	8
CPL	6154		22	0	22	0	22	0	22	0	22	0	22
CPL	6174		10	0	10	0	10	0	10	0	10	0	10
CPL	6324		28	0	28	0	28	0	28	0	28	0	28
CPL	6423		2	0	2	0	2	0	2	0	2	0	2
CPL	6433		2	0	2	0	2	0	2	0	2	0	2
CPL	6483		2	0	2	0	2	0	2	0	2	0	2
CPL	6492		2	0	2	0	2	0	2	0	2	0	2
CPL	6531		6	0	6	0	6	0	6	0	6	0	6
CPL	6541		5	0	5	0	5	0	5	0	5	0	5
CPL	6672		27	0	27	0	27	0	27	0	27	0	27
CPL	6694		7	0	7	0	7	0	7	0	7	0	7
LCPL	0121		2	0	2	0	2	0	2	0	2	0	2
LCPL	0151		3	0	3	0	3	0	3	0	3	0	3
LCPL	0231		6	0	6	0	6	0	6	0	6	0	6
LCPL	0431		6	0	6	0	6	0	6	0	6	0	6
LCPL	3052		2	0	2	0	2	0	2	0	2	0	2
LCPL	6042		6	0	6	0	6	0	6	0	6	0	6
LCPL	6046		18	0	18	0	18	0	18	0	18	0	18
LCPL	6048		10	0	10	0	10	0	10	0	10	0	10
LCPL	6062		4	0	4	0	4	0	4	0	4	0	4
LCPL	6072		6	0	6	0	6	0	6	0	6	0	6
LCPL	6073		4	0	4	0	4	0	4	0	4	0	4
LCPL	6074		6	0	6	0	6	0	6	0	6	0	6
LCPL	6092		1	0	1	0	1	0	1	0	1	0	1
LCPL	6114		35	0	35	0	35	0	35	0	35	0	35
LCPL	6132		2	0	2	0	2	0	2	0	2	0	2

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

DESIG/	PNEC/	SNEC/	BILLET	CFY08	FY09	FY10	FY11	FY12
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RATING	PMOS	SMOS	BASE	+/-	CUM								
LCPL	6154		37	0	37	0	37	0	37	0	37	0	37
LCPL	6174		8	0	8	0	8	0	8	0	8	0	8
LCPL	6324		18	0	18	0	18	0	18	0	18	0	18
LCPL	6412		2	0	2	0	2	0	2	0	2	0	2
LCPL	6413		4	0	4	0	4	0	4	0	4	0	4
LCPL	6422		2	0	2	0	2	0	2	0	2	0	2
LCPL	6423		7	0	7	0	7	0	7	0	7	0	7
LCPL	6433		8	0	8	0	8	0	8	0	8	0	8
LCPL	6483		7	0	7	0	7	0	7	0	7	0	7
LCPL	6492		10	0	10	0	10	0	10	0	10	0	10
LCPL	6531		14	0	14	0	14	0	14	0	14	0	14
LCPL	6541		17	0	17	0	17	0	17	0	17	0	17
LCPL	6672		49	0	49	0	49	0	49	0	49	0	49
LCPL	6694		20	0	20	0	20	0	20	0	20	0	20

**TOTAL USMC ENLISTED BILLETS:**

Operational		3038	0	3038	0	3038	0	3038	0	3038	0	3038
Fleet Support		522	0	522	0	522	0	522	0	522	0	522
Staff		149	0	149	0	149	0	149	0	149	0	149
Chargeable Student		96	0	96	0	96	0	96	0	96	0	96
SMCR		795	0	795	0	795	0	795	0	795	0	795

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

**CIN, COURSE TITLE:** NA1, AH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline

**COURSE LENGTH:** 22.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.44

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	32		32		32		32		32	
		AR	1		1		1		1		1	
		SMCR	3		3		3		3		3	
		TOTAL:	36		36		36		36		36	

**CIN, COURSE TITLE:** NA2, AH-1 Conversion Pilot

**COURSE LENGTH:** 16.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.32

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	16		16		16		16		16	
		AR	0		1		0		1		0	
		SMCR	2		2		2		2		2	
		TOTAL:	18		19		18		19		18	

**CIN, COURSE TITLE:** NA3, AH-1 Fleet Replacement Refresher Pilot Category III Pipeline

**COURSE LENGTH:** 8.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.16

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	16		16		16		16		16	
		AR	0		1		0		1		0	
		SMCR	2		2		2		2		2	
		TOTAL:	18		19		18		19		18	

**CIN, COURSE TITLE:** NA4, AH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline

**COURSE LENGTH:** 5.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.10

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	8		8		8		8		8	
		AR	0		1		0		0		0	
		SMCR	1		1		1		1		1	
		TOTAL:	9		10		9		9		9	

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

**CIN, COURSE TITLE:** NA5, AH-1 FRS Instructor Pilot

**COURSE LENGTH:** 4.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.08

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	8		8		8		8		8	
		AR	0		1		0		0		0	
		SMCR	1		1		1		1		1	
		TOTAL:	9		10		9		9		9	

**CIN, COURSE TITLE:** NA6, UH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline

**COURSE LENGTH:** 20.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.40

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	18		18		18		18		18	
		AR	0		0		1		0		0	
		SMCR	1		1		1		1		1	
		TOTAL:	19		19		20		19		19	

**CIN, COURSE TITLE:** NA7, UH-1 Conversion Pilot

**COURSE LENGTH:** 10.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.20

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	9		9		9		9		9	
		AR	0		1		0		0		0	
		SMCR	1		0		1		0		1	
		TOTAL:	10		10		10		9		10	

**CIN, COURSE TITLE:** NA8, UH-1 Fleet Replacement Refresher Pilot Category III Pipeline

**COURSE LENGTH:** 9.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.18

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	9		9		9		9		9	
		AR	0		1		0		0		0	
		SMCR	1		0		1		0		1	
		TOTAL:	10		10		10		9		10	

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

**CIN, COURSE TITLE:** NA9, UH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline  
**COURSE LENGTH:** 6.0 Weeks  
**ATTRITION FACTOR:** USMC: 0% **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	5		5		5		5		5	
		AR	0		0		1		0		0	
		SMCR	1		0		0		0		1	
		TOTAL:	6		5		6		5		6	

**CIN, COURSE TITLE:** NA10, UH-1 FRS Instructor Pilot  
**COURSE LENGTH:** 4.0 Weeks  
**ATTRITION FACTOR:** USMC: 0% **BACKOUT FACTOR:** 0.08

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC	5		5		5		5		5	
		AR	0		0		1		0		0	
		SMCR	1		0		0		0		1	
		TOTAL:	6		5		6		5		6	

**CIN, COURSE TITLE:** NA11, UH-1 Basic and Transition Crew Chief Category I and II Pipeline  
**COURSE LENGTH:** 21.4 Weeks  
**ATTRITION FACTOR:** USMC: 0% **BACKOUT FACTOR:** 0.43

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC		17		17		17		17		17
		SMCR		1		1		1		1		1
		TOTAL:		18		18		18		18		18

**CIN, COURSE TITLE:** NA12, UH-1 Conversion Crew Chief  
**COURSE LENGTH:** 20.0 Weeks  
**ATTRITION FACTOR:** USMC: 0% **BACKOUT FACTOR:** 0.40

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC		17		17		17		17		17
		SMCR		1		1		1		1		1
		TOTAL:		18		18		18		18		18

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

**CIN, COURSE TITLE:** NA13, UH-1 Crew Chief Instructor

**COURSE LENGTH:** 18.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.36

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303, MCAS Camp Pendleton												
	USMC	USMC		9		9		9		9		9
		SMCR		1		0		1		0		1
		TOTAL:		10		9		10		9		10

**CIN, COURSE TITLE:** M-102-2024, H-1 Communication, Navigation, Identification System Maintenance

**COURSE LENGTH:** 16.4 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.33

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS Camp Pendleton												
	USMC	USMC		88		88		88		88		88
		AR		1		1		1		1		1
		SMCR		6		6		6		6		6
		TOTAL:		95		95		95		95		95

**CIN, COURSE TITLE:** M-601-2014, AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance

**COURSE LENGTH:** 8.8 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.18

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS Camp Pendleton												
	USMC	USMC		139		139		139		139		139
		AR		5		5		5		5		5
		SMCR		8		8		8		8		8
		TOTAL:		152		152		152		152		152

**CIN, COURSE TITLE:** M-602-2081, Helicopter Airframe Mechanic A/UH-1

**COURSE LENGTH:** 4.4 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.09

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS Camp Pendleton												
	USMC	USMC		90		90		90		90		90
		AR		2		2		2		2		2
		SMCR		7		7		7		7		7
		TOTAL:		99		99		99		99		99

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

**CIN, COURSE TITLE:** M-646-2044, Rotary Wing (H-1/CH-46/CH-53) Armament Systems Maintenance

**COURSE LENGTH:** 8.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.16

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS Camp Pendleton												
	USMC	USMC		53		53		53		53		53
		AR		4		4		4		4		4
		SMCR		3		3		3		3		3
		TOTAL:		60		60		60		60		60

**CIN, COURSE TITLE:** D-102-6122, Cryptographic Equipment Intermediate Maintenance

**COURSE LENGTH:** 3.2 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.06

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATTU, Oceana												
	USMC	USMC		2		2		2		2		2
		SMCR		0		1		0		0		0
		TOTAL:		2		3		2		2		2

**CIN, COURSE TITLE:** E-102-6122, Cryptographic Equipment Intermediate Maintenance

**COURSE LENGTH:** 3.2 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.06

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1038 NAMTRAU Lemoore												
	USMC	USMC		3		3		3		3		3
		SMCR		0		1		0		0		0
		TOTAL:		3		4		3		3		3

**CIN, COURSE TITLE:** M-102-6483, Helicopter Deceptive Electronic Countermeasures Intermediate Maintenance

**COURSE LENGTH:** 12.8 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.26

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS Cherry Point												
	USMC	USMC		7		7		7		7		7
		SMCR		0		0		1		0		0
		TOTAL:		7		7		8		7		7

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

**CIN, COURSE TITLE:** M-601-3027, T-400/T-700 Engine First Degree Intermediate Maintenance

**COURSE LENGTH:** 9.2 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.18

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS Camp Pendleton												
	USMC	USMC		26		26		26		26		26
		SMCR		1		1		1		1		1
		TOTAL:		27		27		27		27		27

**CIN, COURSE TITLE:** M-601-3090, Helicopter Dynamic Component Intermediate Maintenance

**COURSE LENGTH:** 5.4 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.11

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS New River												
	USMC	USMC		8		8		8		8		8
		SMCR		2		2		2		2		2
		TOTAL:		10		10		10		10		10

**CIN, COURSE TITLE:** D-602-4013, USMC Aircraft Hydraulic Components Intermediate Maintenance

**COURSE LENGTH:** 11.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.22

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATTU, Oceana												
	USMC	USMC		5		5		5		5		5
		SMCR		1		1		1		1		1
		TOTAL:		6		6		6		6		6

**CIN, COURSE TITLE:** E-602-4013, USMC Aircraft Hydraulic Components Intermediate Maintenance

**COURSE LENGTH:** 11.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.22

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATTU, Lemoore												
	USMC	USMC		7		7		7		7		7
		SMCR		0		0		1		0		0
		TOTAL:		7		7		8		7		7

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

**CIN, COURSE TITLE:** M-602-5811, H-1 Aircraft Electrical Instrument/Automatic Flight Control System Equipment Intermediate Maintenance

**COURSE LENGTH:** 10.0 Weeks

**ATTRITION FACTOR:** USMC: 0%

**BACKOUT FACTOR:** 0.20

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY08		FY09		FY10		FY11		FY12	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
CNATT MARU, MCAS Camp Pendleton												
	USMC	USMC		11		11		11		11		11
		SMCR		1		1		1		1		1
		TOTAL:		12		12		12		12		12

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

The following elements are not affected by the H-1 Upgrades Program (AH-1Z and UH-1Y) and, therefore, are not included in Part III of this NTSP:

#### III.A.2. Follow-on Training

##### III.A.2.b. Planned Courses

##### III.A.2.c. Unique Courses

#### III.A.3. Existing Training Phased Out

**PART III - TRAINING REQUIREMENTS**

**III.A.1. INITIAL TRAINING REQUIREMENTS**

**COURSE TITLE:** H-1 Pilot Training  
**COURSE DEVELOPER:** Bell Helicopter Textron, Inc.  
**COURSE INSTRUCTOR:** Bell Helicopter Textron, Inc.  
**COURSE LENGTH:** 26 Days  
**ACTIVITY DESTINATIONS:** OT&E

LOCATION, UIC	BEGIN DATE	STUDENTS			CIV	
		OFF	ENL			
HX-21, NAS Patuxent River, 39784	Aug 04	8	4	0	Input	
		0.6	0.3		AOB	
		0	0		Chargeable	

**COURSE TITLE:** H-1 Power Trains, Rotors, and Related Systems Difference Data Maintenance Training  
**COURSE DEVELOPER:** Bell Helicopter Textron, Inc.  
**COURSE INSTRUCTOR:** Bell Helicopter Textron, Inc.  
**COURSE LENGTH:** 25 Days  
**ACTIVITY DESTINATIONS:** OT&E

LOCATION, UIC	BEGIN DATE	STUDENTS			CIV	
		OFF	ENL			
HX-21, NAS Patuxent River, 39784	Aug 04	0	11	0	Input	
		0	0.8		AOB	
		0	0		Chargeable	

**COURSE TITLE:** H-1 Airframe and Hydraulic Systems Difference Data Maintenance Training  
**COURSE DEVELOPER:** Bell Helicopter Textron, Inc.  
**COURSE INSTRUCTOR:** Bell Helicopter Textron, Inc.  
**COURSE LENGTH:** 18 Days  
**ACTIVITY DESTINATIONS:** OT&E

LOCATION, UIC	BEGIN DATE	STUDENTS			CIV	
		OFF	ENL			
HX-21, NAS Patuxent River, 39784	Aug 04	0	11	0	Input	
		0	0.5		AOB	
		0	0		Chargeable	

**III.A.1. INITIAL TRAINING REQUIREMENTS**

**COURSE TITLE:** H-1 Electrical SCAS/AFCS Systems Difference Data Maintenance Training  
**COURSE DEVELOPER:** Bell Helicopter Textron, Inc.  
**COURSE INSTRUCTOR:** Bell Helicopter Textron, Inc.  
**COURSE LENGTH:** 18 Days  
**ACTIVITY DESTINATIONS:** OT&E

LOCATION, UIC	BEGIN DATE	STUDENTS			CIV
		OFF	ENL		
HX-21, NAS Patuxent River, 39784	Aug 04	0	11	0	Input
		0	0.5		AOB
		0	0		Chargeable

**COURSE TITLE:** H-1 Communication/Navigation Identification and Fire Control Systems Difference Data  
**COURSE DEVELOPER:** Bell Helicopter Textron, Inc.  
**COURSE INSTRUCTOR:** Bell Helicopter Textron, Inc.  
**COURSE LENGTH:** 24 Days  
**ACTIVITY DESTINATIONS:** OT&E

LOCATION, UIC	BEGIN DATE	STUDENTS			CIV
		OFF	ENL		
HX-21, NAS Patuxent River, 39784	Aug 04	0	11	0	Input
		0	0.7		AOB
		0	0		Chargeable

**COURSE TITLE:** H-1 Armament Systems Difference Data Maintenance Training  
**COURSE DEVELOPER:** Bell Helicopter Textron, Inc.  
**COURSE INSTRUCTOR:** Bell Helicopter Textron, Inc.  
**COURSE LENGTH:** 5 Days  
**ACTIVITY DESTINATIONS:** OT&E

LOCATION, UIC	BEGIN DATE	STUDENTS			CIV
		OFF	ENL		
HX-21, NAS Patuxent River, 39784	Aug 04	0	11	0	Input
		0	0.2		AOB
		0	0		Chargeable

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

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

The following operator, organizational, and intermediate level maintenance pipelines are already established at HMT-303 and NAMTRA MARUNIT MCAS Camp Pendleton, for training on the AH-1W and the UH-1N Helicopters. The AH-1Z and UH-1Y Helicopter operator and organizational level maintenance training modules are scheduled to be developed in FY05 and delivered in FY08.

**CIN, COURSE TITLE:** NA1, AH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
33		33		33		33		33		ATIR
33		33		33		33		33		Output
13.7		13.7		13.7		13.7		13.7		AOB
13.7		13.7		13.7		13.7		13.7		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
3		3		3		3		3		ATIR
3		3		3		3		3		Output
1.2		1.2		1.2		1.2		1.2		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

**CIN, COURSE TITLE:** NA2, AH-1 Conversion Pilot  
**TRAINING ACTIVITY:** HMT-303 FRS  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
16		17		16		17		16		ATIR
16		17		16		17		16		Output
4.8		5.1		4.8		5.1		4.8		AOB
4.8		5.1		4.8		5.1		4.8		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
2		2		2		2		2		ATIR
2		2		2		2		2		Output
0.6		0.6		0.6		0.6		0.6		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** NA3, AH-1 Fleet Replacement Refresher Pilot Category III Pipeline  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
16		17		16		17		16		ATIR
16		17		16		17		16		Output
2.4		2.5		2.4		2.5		2.4		AOB
2.4		2.5		2.4		2.5		2.4		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
2		2		2		2		2		ATIR
2		2		2		2		2		Output
0.3		0.3		0.3		0.3		0.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

**CIN, COURSE TITLE:** NA4, AH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
8		9		8		8		8		ATIR
8		9		8		8		8		Output
0.7		0.8		0.7		0.7		0.7		AOB
0.7		0.8		0.7		0.7		0.7		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.1		0.1		0.1		0.1		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** NA5, AH-1 FRS Instructor Pilot  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
8		9		8		8		8		ATIR
8		9		8		8		8		Output
0.6		0.7		0.6		0.6		0.6		AOB
0.6		0.7		0.6		0.6		0.6		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.1		0.1		0.1		0.1		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

**CIN, COURSE TITLE:** NA6, UH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
19		18		18		19		18		ATIR
19		18		18		19		18		Output
7.2		6.8		6.8		7.2		6.8		AOB
7.2		6.8		6.8		7.2		6.8		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.4		0.4		0.4		0.4		0.4		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** NA7, UH-1 Conversion Pilot  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
9		9		9		9		9		ATIR
9		9		9		9		9		Output
1.7		1.7		1.7		1.7		1.7		AOB
1.7		1.7		1.7		1.7		1.7		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
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

**CIN, COURSE TITLE:** NA8, UH-1 Fleet Replacement Refresher Pilot Category III Pipeline  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
9		9		9		9		9		ATIR
9		9		9		9		9		Output
1.5		1.5		1.5		1.5		1.5		AOB
1.5		1.5		1.5		1.5		1.5		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
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:** NA9, UH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
5		5		5		5		5		ATIR
5		5		5		5		5		Output
0.5		0.5		0.5		0.5		0.5		AOB
0.5		0.5		0.5		0.5		0.5		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
1		0		0		0		1		ATIR
1		0		0		0		1		Output
0.1		0.0		0.0		0.0		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

**CIN, COURSE TITLE:** NA10, UH-1 FRS Instructor Pilot  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
5		5		5		5		5		ATIR
5		5		5		5		5		Output
0.4		0.4		0.4		0.4		0.4		AOB
0.4		0.4		0.4		0.4		0.4		Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
1		0		0		0		1		ATIR
1		0		0		0		1		Output
0.1		0.0		0.0		0.0		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** NA11, UH-1 Basic and Transition Crew Chief Category I and II Pipeline  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	17		17		17		17		17	ATIR
	17		17		17		17		17	Output
	6.9		6.9		6.9		6.9		6.9	AOB
	6.9		6.9		6.9		6.9		6.9	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.4		0.4		0.4		0.4		0.4	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** NA12, UH-1 Conversion Crew Chief  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	17		17		17		17		17	ATIR
	17		17		17		17		17	Output
	6.4		6.4		6.4		6.4		6.4	AOB
	6.4		6.4		6.4		6.4		6.4	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.4		0.4		0.4		0.4		0.4	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** NA13, UH-1 Crew Chief Instructor  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	9		9		9		9		9	ATIR
	9		9		9		9		9	Output
	3.1		3.1		3.1		3.1		3.1	AOB
	3.1		3.1		3.1		3.1		3.1	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	1		0		1		0		1	ATIR
	1		0		1		0		1	Output
	0.3		0.0		0.3		0.0		0.3	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** M-102-2024, H-1 Communication, Navigation, Identification System Maintenance  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	89		89		89		89		89	ATIR
	89		89		89		89		89	Output
	27.8		27.8		27.8		27.8		27.8	AOB
	27.8		27.8		27.8		27.8		27.8	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	6		6		6		6		6	ATIR
	6		6		6		6		6	Output
	1.9		1.9		1.9		1.9		1.9	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** M-601-2014, AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	144		144		144		144		144	ATIR
	144		144		144		144		144	Output
	23.6		23.6		23.6		23.6		23.6	AOB
	23.6		23.6		23.6		23.6		23.6	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	8		8		8		8		8	ATIR
	8		8		8		8		8	Output
	1.3		1.3		1.3		1.3		1.3	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** M-602-2081, Helicopter Airframe Mechanic A/UH-1  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	92		92		92		92		92	ATIR
	92		92		92		92		92	Output
	7.6		7.6		7.6		7.6		7.6	AOB
	7.6		7.6		7.6		7.6		7.6	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	7		7		7		7		7	ATIR
	7		7		7		7		7	Output
	0.6		0.6		0.6		0.6		0.6	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** M-646-2044, Rotary Wing (H-1/CH-46/CH-53) Armament Systems Maintenance  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	57		57		57		57		57	ATIR
	57		57		57		57		57	Output
	8.4		8.4		8.4		8.4		8.4	AOB
	8.4		8.4		8.4		8.4		8.4	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	3		3		3		3		3	ATIR
	3		3		3		3		3	Output
	0.4		0.4		0.4		0.4		0.4	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** D-102-6122, Cryptographic Equipment Intermediate Maintenance  
**TRAINING ACTIVITY:** MTU 1039 NAMTRAU  
**LOCATION, UIC:** NAS Oceana, 66045

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.1		0.1		0.1		0.1		0.1	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	0		0		0		0		0	ATIR
	0		0		0		0		0	Output
	0.0		0.0		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** E-102-6122, Cryptographic Equipment Intermediate Maintenance  
**TRAINING ACTIVITY:** MTU 1038 NAMTRAU  
**LOCATION, UIC:** NAS Lemoore, 66060

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	3		3		3		3		3	ATIR
	3		3		3		3		3	Output
	0.2		0.2		0.2		0.2		0.2	AOB
	0.2		0.2		0.2		0.2		0.2	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	0		0		0		0		0	ATIR
	0		0		0		0		0	Output
	0.0		0.0		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** M-102-6483, Helicopter Deceptive Electronic Countermeasures Intermediate Maintenance  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Cherry Point, 31511

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	7		7		7		7		7	ATIR
	7		7		7		7		7	Output
	1.7		1.7		1.7		1.7		1.7	AOB
	1.7		1.7		1.7		1.7		1.7	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	0		1		0		0		0	ATIR
	0		1		0		0		0	Output
	0.0		0.2		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** M-601-3027, T-400/T-700 Engine First Degree Intermediate Maintenance  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	26		26		26		26		26	ATIR
	26		26		26		26		26	Output
	4.6		4.6		4.6		4.6		4.6	AOB
	4.6		4.6		4.6		4.6		4.6	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.2		0.2		0.2		0.2		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** M-601-3090, Helicopter Dynamic Component Intermediate Maintenance  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS New River, 55203

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	8		8		8		8		8	ATIR
	8		8		8		8		8	Output
	0.8		0.8		0.8		0.8		0.8	AOB
	0.8		0.8		0.8		0.8		0.8	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.2		0.2		0.2		0.2		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** D-602-4013, USMC Aircraft Hydraulic Components Intermediate Maintenance  
**TRAINING ACTIVITY:** MTU 1039 NAMTRAU  
**LOCATION, UIC:** NAS Oceana, 66045

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	5		5		5		5		5	ATIR
	5		5		5		5		5	Output
	1.0		1.0		1.0		1.0		1.0	AOB
	1.0		1.0		1.0		1.0		1.0	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.2		0.2		0.2		0.2		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

**CIN, COURSE TITLE:** E-602-4013, USMC Aircraft Hydraulic Components Intermediate Maintenance  
**TRAINING ACTIVITY:** MTU 1038 NAMTRAU  
**LOCATION, UIC:** NAS Lemoore, 66060

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	7		7		7		7		7	ATIR
	7		7		7		7		7	Output
	1.4		1.4		1.4		1.4		1.4	AOB
	1.4		1.4		1.4		1.4		1.4	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	0		1		0		0		0	ATIR
	0		1		0		0		0	Output
	0.0		0.2		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

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

**CIN, COURSE TITLE:** M-602-5811, H-1 Aircraft Electrical Instrument/Automatic Flight Control System Equipment Intermediate Maintenance

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

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

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	11		11		11		11		11	ATIR
	11		11		11		11		11	Output
	2.0		2.0		2.0		2.0		2.0	AOB
	2.0		2.0		2.0		2.0		2.0	Chargeable

**SOURCE:** USMC      **STUDENT CATEGORY:** SMCR

FY08		FY09		FY10		FY11		FY12		
OFF	ENL									
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.2		0.2		0.2		0.2		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

## PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the H-1 Upgrades Program (AH-1Z and UH-1Y) and, therefore, are not included in Part IV of this NTSP:

### IV.C. Facility Requirements

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

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

IV.C.3. Facility Project Summary by Program

**Note:** The following training hardware, curricula materials, and training aids support existing AH-1W and UH-1N Helicopter training curriculum. Currently, a supportability analysis is being conducted to identify, develop, test, and deliver essential AH-1Z and UH-1Y Helicopter unique tools, test sets, and test equipment. An approved AH-1Z and UH-1Y Helicopters test sets, tools, and test equipment list will be included in updates to this NTSP.

**PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS**

**IV.A. TRAINING HARDWARE**

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

**CIN, COURSE TITLE:** C-102-9354, H-1 Communication, Navigation, Identification, and Related Systems Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0212	Headset, Electrical (Part No. 10156)	12	Jun 97	GFE	Onboard
<b>GPETE</b>					
0001	Multimeter, Digital (Part No. 27AN)	2	Jun 97	GFE	Onboard
<b>SPETE</b>					
0309	Test Set, TACAN (Part No. 1000-0000)	1	Jun 97	GFE	Onboard
0310	Test Set, Flight Control (Part No. 2591383)	1	Jun 97	GFE	Onboard
0311	Time Reflectometer (Part No. 1502B-03-04MODNB)	1	Jun 97	GFE	Onboard
0312	Test Set, Transponder (Part No. AN/APM-378)	1	Jun 97	GFE	Onboard

**CIN, COURSE TITLE:** C-602-9360, H-1 Electrical and Stability Control Augmentation System Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0210	Generator, Signal (Part No. SPNH)	1	May 00	GFE	Onboard
0211	Power Supply (Part No. LP523FM)	1	May 00	GFE	Onboard
<b>GPETE</b>					
0001	Multimeter, Digital (Part No. 27AN)	6	May 00	GFE	Onboard
0005	Bridge, Capacitance-Inductance (Part No. GR1658-9700)	1	May 00	GFE	Onboard
0006	Adapter, Cable (Part No. 1543AR)	2	May 00	GFE	Onboard
0007	Adapter, Cable Breakout (Part No. T103413-101)	1	May 00	GFE	Onboard
<b>SPETE</b>					
0306	Test Set, Stab Control (Part No. 39565)	2	May 00	GFE	Onboard
0307	Test Set, Pressure Source (Part No. 375)	2	May 00	GFE	Onboard
0308	Test Set, Indicator TTU378/E (Part No. 361-046-001)	2	May 00	GFE	Onboard

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

**CIN, COURSE TITLE:** C-198-9351, AH-1W TOW Hellfire Control and Display System Integrated Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0200	Launcher, Guided XM6 (Part No. 3234008-110)	2	Jan 95	GFE	Onboard
0201	Helmet, SPH-4 (Part No. 81F5191-1)	2	Jan 95	GFE	Onboard
0202	Launcher, Guided Hellfire (Part No. 13009444)	2	Jan 95	GFE	Onboard
0203	Sight Assembly, Helmet (Part No. 2251773-00)	2	Jan 95	GFE	Onboard
0204	Receiver, Nitrogen (Part No. 58A164D863)	1	Jan 95	GFE	Onboard
0205	Indicator, Rate of Flow (Part No. 61A91D100)	1	Jan 95	GFE	Onboard
0206	Power Supply, LAU-7 (Part No. 60A89D114)	1	Jan 95	GFE	Onboard
0207	Launcher, LAU-7 (Part No. 58A164H874)	1	Jan 95	GFE	Onboard
<b>ST</b>					
0105	Adapter, Launcher U-299A/A (Part No. 564AS100-1)	1	Jan 95	GFE	Onboard
<b>GPETE</b>					
0004	Multimeter, Digital (Part No. 77AN)	1	Jan 95	GFE	Onboard
<b>SPETE</b>					
0300	Test Set, Hellfire Simulator (Part No. 1691AS200)	2	Jan 95	GFE	Onboard
0301	Test Set, Guided Missile (Part No. 1058AS1400)	1	Jan 95	GFE	Onboard
0302	Boresight Equipment (Part No. 3210875-100)	1	Jan 95	GFE	Onboard
0303	Test Set, Built In Test (Part No. 1090059)	1	Jan 95	GFE	Onboard
0304	Test Set, Guided Missile (Part No. ANASM-464A)	1	Jan 95	GFE	Onboard

**CIN, COURSE TITLE:** C-602-3357, H-1 Wire Bundle Repair Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>GPTE</b>					
0444	Machine, Marking (Part No. KTE6)	1	Sep 86	GFE	Onboard

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

0445	Electrical Tool Kit (Part No. DMC-386)	6	Sep 86	GFE	Onboard
0446	Heating Tool Kit (Part No. HT-900)	6	Sep 86	GFE	Onboard
0447	Applicator Kit (Part No. 220007-1)	6	Sep 86	GFE	Onboard

**GPETE**

0009	Multimeter, Digital (Part No. 8000A)	6	Sep 86	GFE	Onboard
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**SPETE**

0332	Cable Tester (Part No. 1502-04)	1	Sep 86	GFE	Onboard
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**CIN, COURSE TITLE:** C-104-3351, AH-1W Night Targeting (NTS) and UH-1N Navigational Thermal Imaging Systems (NTIS) Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>ST</b>					
0100	Spanner Pin, Wrench (Part No. 06008102)	1	Dec 01	GFE	Onboard
0101	Vacuum Pump, 20 Liter (Part No. 75001200)	1	Dec 01	GFE	Pending
0102	Hose Assembly, Nonmetallic (Part No. 65005120)	1	Dec 01	GFE	Onboard
0103	Scan Cavity, Evacuate (Part No. 62001968)	1	Dec 01	GFE	Onboard
0104	Adapter, 125AN, M-125 Tube (Part No. 15036400)	1	Dec 01	GFE	Onboard
<b>GPETE</b>					
0001	Multimeter, Digital (Part No. 27AN)	2	Dec 01	GFE	Onboard
0002	Vacuum Gage, Indicating (Part No. 75003040)	1	Dec 01	GFE	Onboard
0003	Cable Assembly, Special Purpose (Part No. 246021413)	1	Dec 01	GFE	Onboard

**CIN, COURSE TITLE:** C-601-9351, AH-1W Power trains, Rotors and Related Systems Organizational Maintenance (Track M-601-2014)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0208	Tank, Fuel (Part No. 382-68500-1)	1	Apr 99	GFE	Onboard
0209	Tank, Fuel (Part No. 382-68500-3)	1	Apr 99	GFE	Onboard
<b>GPTE</b>					
0400	Gage, Depth Dial (Part No. 643J)	1	Apr 99	GFE	Onboard

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

0401	Target, Mirror (Part No. 71-6250)	2	Apr 99	GFE	Onboard
0402	Indicator Dial (Part No. 399A)	1	Apr 99	GFE	Onboard
0403	Tester, Spring (Part No. D150M)	2	Apr 99	GFE	Onboard
0404	Wrench, Torque (Part No. DPT2500R)	1	Apr 99	GFE	Onboard
0405	Depth Micrometer (Part No. GGG-C-105)	1	Apr 99	GFE	Onboard
0406	Pedestal Assembly (Part No. T101614-3)	2	Apr 99	GFE	Onboard
0407	Kit, Blade Alignment (Part No. T101618)	2	Apr 99	GFE	Onboard
0408	Sling Assembly (Part No. T101626)	2	Apr 99	GFE	Onboard
0409	Cover and Lift Plate (Part No. T101634)	2	Apr 99	GFE	Onboard
0410	Wrench, Drag Brace (Part No. T101887)	1	Apr 99	GFE	Onboard
0411	Clevi-Lifting Eye (Part No. T101897)	2	Apr 99	GFE	Onboard
0412	Wrench, Main Rotor (Part No. T102037)	1	Apr 99	GFE	Onboard
0413	Mast Nut Wrench Assembly (Part No. T102120-101)	2	Apr 99	GFE	Onboard
0414	Whiffletree Assembly (Part No. T103124-101)	2	Apr 99	GFE	Onboard
0415	Hoist, Gearbox (Part No. T103193-135)	2	Apr 99	GFE	Onboard
0416	Wrench, Manual (Part No. 15-004-209)	1	Apr 99	GFE	Onboard
0417	Caliper, Micrometer (Part No. GGG-C-105)	1	Apr 99	GFE	Onboard
<b>ST</b>					
0106	Turnbuckle (Part No. 3022T44)	2	Apr 99	GFE	Onboard
0106	Support Assembly, Rotor (Part No. 214-782-003-1)	2	Apr 99	GFE	Onboard
0107	Rigging Tool, Right Engine (Part No. 5563606-1)	2	Apr 99	GFE	Onboard
0108	Rigging Tool, Engine (Part No. 5563606-2)	2	Apr 99	GFE	Onboard
0114	Adapter, Reaction (Part No. PD2735)	1	Apr 99	GFE	Onboard
0115	Adapter, Engine (Part No. SWE13766)	2	Apr 99	GFE	Onboard
0116	Adapter, Transmission (Part No. SWE13852-410)	2	Apr 99	GFE	Onboard
0117	Adapter, Mast Assembly (Part No. SWE13852-850)	2	Apr 99	GFE	Onboard
0118	Alignment Tool, Hub (Part No. T101287-107)	4	Apr 99	GFE	Onboard
0119	Socket (Part No. PD2711)	1	Apr 99	GFE	Onboard
0120	Adapter, Alignment (Part No. T101895)	2	Apr 99	GFE	Onboard
0121	Pin, Quick Release (Part No. MS17985C325)	4	Apr 99	GFE	Onboard

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

0122 Pin, Quick Release (Part No. MS17985C620) 4 Apr 99 GFE Onboard

0129 Adapter, Kit (Part No. 4215) 2 Apr 99 GFE Onboard

**SPETE**

0305 Rotor Track Kit (Part No. 4211) 2 Apr 99 GFE Onboard

**CIN, COURSE TITLE:** C-600-9363, H-1 Airframes Systems Organizational Maintenance (Track M-602-2081)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
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**GPTE**

0448 Hydraulic Analysis Kit (Part No. 57L414) 1 Jun 00 GFE Onboard

**ST**

0181 Rotor Brake Disk Holding Tool (Part No. T101649-101) 1 Jun 00 GFE Onboard

0182 Wrench, Spanner (Part No. 3831000F113) 1 Jun 00 GFE Onboard

**CIN, COURSE TITLE:** C-646-3363, AH-1W Armament Repair Organizational Maintenance (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
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**TTE**

0205 Indicator, Rate of Flow (Part No. 61A91D100) 2 Feb 01 GFE Onboard

0247 Launcher, M272 (Part No. 13009444) 2 Feb 01 GFE Onboard

0248 Launcher, XM65 (Part No. 3234008-110) 2 Feb 01 GFE Onboard

0249 Helmet Sight Assembly (Part No. 2251773-00) 4 Feb 01 GFE Onboard

0250 Control, Countermeasures (Part No. 3183104-001-107) 3 Feb 01 GFE Onboard

0251 Power Supply, LAU-7/A (Part No. 60A89D114) 2 Feb 01 GFE Onboard

0252 Programmer (Part No. 3100104-001-101) 3 Feb 01 GFE Onboard

0253 Adapter, Pylon (Part No. 564AS100-1) 2 Feb 01 GFE Onboard

0254 Sequencer Switch (Part No. 633169-100) 6 Feb 01 GFE Onboard

0255 Housing, Dispenser (Part No. 15518-0001) 6 Feb 01 GFE Onboard

0256 Launcher, LAU-7 (Part No. 118940-2) 2 Feb 01 GFE Onboard

0257 Dispenser, Countermeasure (Part No. 39-1406-001) 6 Feb 01 GFE Onboard

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

0258 Nitrogen Receiver (Part No. 58A164D863) 2 Feb 01 GFE Onboard

0259 Helmet (Part No. 89D7748-2) 4 Feb 01 GFE Onboard

**ST**

0165 Wrench, Ejector Rack (Part No. 15-004-209) 8 Feb 01 GFE Onboard

0166 Pin, Ground Safety (Part No. 1315AS101) 8 Feb 01 GFE Onboard

0167 Adapter, ALM-70 (Part No. 15699-0001) 2 Feb 01 GFE Onboard

**GPETE**

0004 Multimeter, Digital (Part No. 77AN) 2 Feb 01 GFE Onboard

**SPETE**

0300 Test Set, Hellfire Simulator (Part No. 1691AS200) 2 Feb 01 GFE Onboard

0301 Test Set, Guided Missile (Part No. 1058AS1400) 2 Feb 01 GFE Onboard

0302 Boresight Equipment (Part No. 3210875-100) 1 Feb 01 GFE Onboard

0304 Test Set, Guided Missile (Part No. ANASM-464A) 2 Feb 01 GFE Onboard

0322 Test Set, Firing Circuit (Part No. 178AS100) 2 Feb 01 GFE Onboard

0323 Test Set, Stray Voltage (Part No. 15700-0001) 2 Feb 01 GFE Onboard

0324 Test Set, Weapon System (Part No. 1090059-150) 1 Feb 01 GFE Onboard

0325 Fire Control System (Part No. 189F910) 1 Feb 01 GFE Onboard

0326 Test Set, Dispenser (Part No. 3100404-001-103) 2 Feb 01 GFE Onboard

0327 Test Set, Armament (Part No. 3867029-1) 2 Feb 01 GFE Onboard

0328 Alignment Sight Helmet (Part No. 2278335-02) 2 Feb 01 GFE Onboard

0329 RABS (Part No. 2600000-1) 1 Feb 01 GFE Onboard

**CIN, COURSE TITLE:** C-646-3364, AH-1W Turret/M197/M89/20MM Feed Systems Organizational Maintenance (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0213	M89 Feeder (Part No. 12007300)	4	Feb 01	GFE	Onboard
0214	Gun Drive Assembly (Part No. 189F34)	4	Feb 01	GFE	Onboard
0215	Turret Assembly (Part No. 218F457)	2	Feb 01	GFE	Onboard
0216	Stow Control Assembly (Part No. 189F731)	2	Feb 01	GFE	Onboard

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

0217	Recoil Adapter and Slider (Part No. 117D2020)	2	Feb 01	GFE	Onboard
0218	Ammunition Assembly (Part No. 188F615)	2	Feb 01	GFE	Onboard
0219	Ammunition Feed Chute (Part No. 176F555)	2	Feb 01	GFE	Onboard
0220	M197 Aircraft Gun (Part No. 11838579)	2	Feb 01	GFE	Onboard

**ST**

0155	Feed System, 20MM (Part No. 189F788)	2	Feb 01	GFE	Onboard
0156	Fixture, Feed Unit (Part No. 11838602)	2	Feb 01	GFE	Onboard
0157	Gage, Assembly Guide Bar (Part No. 189F485)	2	Feb 01	GFE	Onboard
0158	Fixture Assembly, 20MM (Part No. 7274771)	2	Feb 01	GFE	Onboard
0159	M18 (T23) Barrel (Part No. 7249302)	2	Feb 01	GFE	Onboard

**GPETE**

0004	Multimeter, Digital (Part No. 77AN)	2	Feb 01	GFE	Onboard
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**CIN, COURSE TITLE:** C-646-3342, H-1 Conventional Weapons Loading (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0202	Launcher, Guided Hellfire (Part No. 13009444)	2	Feb 01	GFE	Onboard
0205	Indicator, Rate of Flow (Part No. 61A91D100)	2	Feb 01	GFE	Onboard
0206	Power Supply, LAU-7 (Part No. 60A89D114)	2	Feb 01	GFE	Onboard
0214	Gun Drive Assembly (Part No. 189F34)	4	Feb 01	GFE	Onboard
0250	Control, Countermeasures (Part No. 3183104-001-107)	3	Feb 01	GFE	Onboard
0252	Programmer (Part No. 3100104-001-101)	3	Feb 01	GFE	Onboard
0253	Adapter, Pylon (Part No. 564AS100-1)	2	Feb 01	GFE	Onboard
0254	Sequencer Switch (Part No. 633169-100)	6	Feb 01	GFE	Onboard
0255	Housing, Dispenser (Part No. 15518-0001)	6	Feb 01	GFE	Onboard
0256	Launcher, LAU-7 (Part No. 118940-2)	2	Feb 01	GFE	Onboard
0257	Dispenser, Countermeasure (Part No. 39-1406-001)	6	Feb 01	GFE	Onboard
0258	Nitrogen Receiver (Part No. 58A164D863)	2	Feb 01	GFE	Onboard
0260	Gun, GAU-17 7.62 MM (Part No. 65F9877)	2	Feb 01	GFE	Onboard

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

0261	Trap Assembly, Bullet (Part No. 8448153)	1	Feb 01	GFE	Onboard
0262	Door mount, A/A49E-3 (Part No. 11691320)	2	Feb 01	GFE	Onboard
0263	Gun, Machine Aircraft .50 Caliber (Part No. 11691500)	2	Feb 01	GFE	Onboard
0264	GAU-17 Adapter Assembly (Part No. 12002437)	2	Feb 01	GFE	Onboard
0265	Magazine Assembly, M60 Feed chute (Part No. 11686442)	1	Feb 01	GFE	Onboard
0266	Launcher, M65 (Part No. 3234008-110)	2	Feb 01	GFE	Onboard
0267	Gun, M60 (Part No. 11699750)	2	Feb 01	GFE	Onboard
0268	Armament Control Unit (Part No. CSK-9-01176-502)	1	Feb 01	GFE	Onboard
0269	Feeder Delinking MAU-21 (Part No. 117001120)	2	Feb 01	GFE	Onboard
0270	Adapter, Assembly GAU-16 (Part No. 1698AS100)	2	Feb 01	GFE	Onboard
0271	Adapter, Assembly M60D (Part No. 11691324)	2	Feb 01	GFE	Onboard
0272	Gun, Machine M240D (Part No. 12977099)	2	Feb 01	GFE	Onboard
0273	Pintle Post M240D (Part No. 12597090)	2	Feb 01	GFE	Onboard
<b>ST</b>					
0165	Wrench, Ejector Rack (Part No. 15-004-209)	8	Feb 01	GFE	Onboard
0166	Pin, Ground Safety (Part No. 1315AS101)	8	Feb 01	GFE	Onboard
0167	Adapter, ALM-70 (Part No. 15699-0001)	2	Feb 01	GFE	Onboard
0168	Gage, Headspace & Timing (Part No. 5351217)	2	Feb 01	GFE	Onboard
0169	Pin, Quick Release AIM-9 (Part No. MS14274)	8	Feb 01	GFE	Onboard
<b>GPETE</b>					
0004	Multimeter, Digital (Part No. 77AN)	2	Feb 01	GFE	Onboard
<b>SPETE</b>					
0300	Test Set, Hellfire Simulator (Part No. 1691AS200)	2	Feb 01	GFE	Onboard
0304	Test Set, Guided Missile (Part No. ANASM-464A)	2	Feb 01	GFE	Onboard
0322	Test Set, Firing Circuit (Part No. 178AS100)	2	Feb 01	GFE	Onboard
0323	Test Set, Stray Voltage (Part No. 15700-0001)	2	Feb 01	GFE	Onboard
0324	Test Set, Weapon System (Part No. 1090059-150)	1	Feb 01	GFE	Onboard
0326	Test Set, Dispenser (Part No. 3100404-001-103)	2	Feb 01	GFE	Onboard
0330	Charger, AWM-54 Battery (Part No. 178AS1700)	1	Feb 01	GFE	Onboard
0331	TTU-204 Test Light (Part No. 2605087)	3	Feb 01	GFE	Onboard

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

**GPTE**

0417	Caliper, Micrometer (Part No. GGG-C-105)	1	Feb 97	GFE	Onboard
0418	Caliper, Micrometer (Part No. 1230R)	1	Feb 97	GFE	Onboard
0419	Depth Micrometer (Part No. 445BZ-6RL)	1	Feb 97	GFE	Onboard

**CIN, COURSE TITLE:** C-601-3137, T-400 Series Engine First Degree Intermediate Maintenance (Track M-601-3027)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
0420	Gage, Depth Vernier (Part No. GGG-C-111)	1	Feb 97	GFE	Onboard
0421	Wrench, Torque (Part No. GGG-W-00686)	1	Feb 97	GFE	Onboard
0422	Hoist, Straddle Jet (Part No. 58A158J1)	1	Feb 97	GFE	Onboard
0423	Wrench, Gas (Part No. CPWA30114-3)	3	Feb 97	GFE	Onboard
0424	Wrench, Torque (Part No. CPWA30114-14)	3	Feb 97	GFE	Onboard
0425	Gage, Power Turbine (Part No. CPWA30169)	1	Feb 97	GFE	Onboard
0426	Drift, # 1 and # 4 (Part No. CPWA30228)	1	Feb 97	GFE	Onboard
0427	Wrench, Compressor (Part No. CPWA30331)	1	Feb 97	GFE	Onboard
0428	Wrench, Power Turbine (Part No. CPWA30332)	1	Feb 97	GFE	Onboard
0429	Protector, Sleeve (Part No. CPWA30336)	1	Feb 97	GFE	Onboard
0430	Spigot, Compressor (Part No. CPWA30370)	1	Feb 97	GFE	Onboard
0431	Protector (Part No. CPWA30421)	2	Feb 97	GFE	Onboard
0432	Gage, Thickness (Part No. CPWA30437)	1	Feb 97	GFE	Onboard
0433	Gage, Plate (Part No. CPWA30438)	1	Feb 97	GFE	Onboard
0434	Gage, Compress (Part No. CPWA30439)	1	Feb 97	GFE	Onboard
0435	Gage, Plate (Part No. CPWA30440)	1	Feb 97	GFE	Onboard
0436	Protector, Compressor (Part No. CPWA30448)	2	Feb 97	GFE	Onboard
0437	Stand, Engine (Part No. 6796987)	2	Feb 97	GFE	Onboard
0438	Support Assembly (Part No. CPWA30731)	2	Feb 97	GFE	Onboard
0439	Test Stand, Support (Part No. CPWA30746)	1	Feb 97	GFE	Onboard
0440	Torque, Driver (Part No. CPWA30755)	2	Feb 97	GFE	Onboard
0441	Sling, Engine (Part No. CPWA30804-50)	1	Feb 97	GFE	Onboard

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

0442	Gage, Compressor (Part No. CPWA30417)	1	Feb 97	GFE	Onboard
0443	Stand, Inlet Case (Part No. CPWA30517)	1	Feb 97	GFE	Onboard
<b>ST</b>					
0109	Pliers, Impellers (Part No. CPWA30456)	1	Feb 97	GFE	Onboard
0110	Tool, Unlocking (Part No. CPWA30335)	1	Feb 97	GFE	Onboard
0111	Puller, Turbine (Part No. CPWA30403)	1	Feb 97	GFE	Onboard
0112	Puller, Rotor (Part No. CPWA30456)	1	Feb 97	GFE	Onboard
0113	Socket, Special (Part No. CPWA30648)	1	Feb 97	GFE	Onboard
0123	Fixture, Pressure (Part No. CPWA30405)	1	Feb 97	GFE	Onboard
0124	Adapter, Turbine (Part No. CPWA30409)	2	Feb 97	GFE	Onboard
0125	Fixture, Compressor (Part No. CPWA30420)	1	Feb 97	GFE	Onboard
0126	Fixture, Compressor (Part No. CPWA30441)	1	Feb 97	GFE	Onboard
0127	Fixture, Aligning (Part No. CPWA30452)	1	Feb 97	GFE	Onboard
0128	Adapter, # 1 Bearing (Part No. CPWA30649)	1	Feb 97	GFE	Onboard
0130	Adapter, Accessory (Part No. CPWA30704)	2	Feb 97	GFE	Onboard
0131	Adapter, Reduction (Part No. CPWA30705)	2	Feb 97	GFE	Onboard
0132	Adapter, Gas (Part No. CPWA30712)	4	Feb 97	GFE	Onboard
0133	Ring Assembly, Engine (Part No. CPWA30713)	2	Feb 97	GFE	Onboard
0134	Wrench (Part No. CPWA30716)	1	Feb 97	GFE	Onboard
0135	Puller, # 1 Bearing (Part No. CPWA30727)	1	Feb 97	GFE	Onboard
0136	Nut, Output Shaft (Part No. CPWA30754)	1	Feb 97	GFE	Onboard
0137	Fixture, Fuel Flow (Part No. PWC33054)	1	Feb 97	GFE	Onboard
0138	Wrench, Housing (Part No. CPWA30830)	1	Feb 97	GFE	Onboard
0139	Blanking Plate, Inlet (Part No. CPWA30859)	1	Feb 97	GFE	Onboard
0140	Puller, Compressor (Part No. CPWA30933)	1	Feb 97	GFE	Onboard
0141	Puller, Cover (Part No. CPWA33014)	1	Feb 97	GFE	Onboard
0142	Puller, Flange (Part No. CPWA33015)	1	Feb 97	GFE	Onboard
0143	Puller, Power (Part No. CPWA30139)	1	Feb 97	GFE	Onboard
0144	Puller, Fuel Nozzle (Part No. CPWA30416)	1	Feb 97	GFE	Onboard
0145	Tool, Locking (Part No. CPWA30458)	1	Feb 97	GFE	Onboard

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

0146	Support, Reduction (Part No. CPWA30866)	1	Feb 97	GFE	Onboard
0147	Bar, Locating (Part No. LTCT153)	1	Feb 97	GFE	Onboard
0148	Socket, Wrench Spanner (Part No. CPWA30715)	1	Feb 97	GFE	Onboard
0149	Fixture, Flow (Part No. CPWA33013)	1	Feb 97	GFE	Onboard
0150	Puller, Compressor Shroud (Part No. CPWA30417)	1	Feb 97	GFE	Onboard
0151	Riveter, # 1 Bearing (Part No. CPWA30494)	1	Feb 97	GFE	Onboard
0152	Grinder, Turbine (Part No. CPWA30122)	1	Feb 97	GFE	Onboard
0153	Tool, Locking # 1 Bearing (Part No. CPWA30820)	1	Feb 97	GFE	Onboard
0154	Arbor, Shroud Grinder (Part No. CPWA30694)	1	Feb 97	GFE	Onboard

**GPETE**

0004	Multimeter, Digital (Part No. 77AN)	1	Feb 97	GFE	Onboard
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**CIN, COURSE TITLE:** C-602-3358, H-1 Electrical Systems Intermediate Maintenance (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0224	Indicator, Bearing (Part No. 137200)	1	Apr 94	GFE	Onboard
0225	Alarm, RPM Limit (Part No. 209-075-326-1)	1	Apr 94	GFE	Onboard
0226	Gyroscope, Displacement (Part No. 2586077-7)	1	Apr 94	GFE	Onboard
0227	Control, Navigational Compass (Part No. 2589386-902)	1	Apr 94	GFE	Onboard
0228	Amp, Power Supply (Part No. 2575892)	1	Apr 94	GFE	Onboard
0229	Compensator (Part No. 2590497)	1	Apr 94	GFE	Onboard
0230	Light, Landing (Part No. 45-0128-3)	2	Apr 94	GFE	Onboard
0231	Indicator, Panel (Part No. 75-0197-3)	1	Apr 94	GFE	Onboard
0232	Transmitter, Induction (Part No. MS25396)	1	Apr 94	GFE	Onboard
0233	Actuator, Linear (Part No. SYLC50114)	2	Apr 94	GFE	Onboard
0234	Bleed Air Valve (Part No. 9791442-3-1)	1	Apr 94	GFE	Onboard
<b>GPETE</b>					
0008	Oscilloscope, Digital (Part No. 54501A-E01/910)	1	Apr 94	GFE	Onboard
0009	Multimeter, Digital (Part No. 8000A)	2	Apr 94	GFE	Onboard

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

0010	Counter, Electrical (Part No. 5328A-H99)	2	Apr 94	GFE	Onboard
0011	Power Supply (Part No. 721A)	1	Apr 94	GFE	Onboard

**SPETE**

0314	Generator, Signal (Part No. 201C)	1	Apr 94	GFE	Onboard
0315	Test Set, Flight Control (Part No. 2591140)	1	Apr 94	GFE	Onboard
0316	Test Set, Servo Indicator (Part No. 30-01)	1	Apr 94	GFE	Onboard
0317	Test Set, RPM Limit (Part No. BR1723-2100)	2	Apr 94	GFE	Onboard
0318	Timer, Internal (Part No. STD-410-1-7)	1	Apr 94	GFE	Onboard

**CIN, COURSE TITLE:** C-646-3346, AH-1 Navy Armament and Control Delivery System (NARCADS) Intermediate Maintenance (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0221	Jettison Control (Part No. 1978723-1)	1	Dec 95	GFE	Onboard
0222	Distribution Box (Part No. 3759062-1)	1	Dec 95	GFE	Onboard
0223	Panel Assembly, Control (Part No. 3822093-1)	1	Dec 95	GFE	Onboard
<b>SPETE</b>					
0313	Test Set, Evaluator (Part No. 3867030-1)	1	Dec 95	GFE	Onboard

**CIN, COURSE TITLE:** C-646-3362, AH-1W A/A49E-7(V) Turret System Intermediate Maintenance (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0235	Turret, Armament (Part No. 218F457)	1	Oct 95	GFE	Onboard
0236	Turret, Control (Part No. 218F231)	1	Oct 95	GFE	Onboard
0237	Gun Control Assembly (Part No. 189F901)	1	Oct 95	GFE	Onboard
0238	Control, Emergency (Part No. 189F729)	1	Oct 95	GFE	Onboard
0239	Torque Box Assembly (Part No. 189F861)	1	Oct 95	GFE	Onboard
0240	Circuit Card Assembly (Part No. 189F902)	2	Oct 95	GFE	Onboard

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

0241	Circuit Card Assembly (Part No. 189F903)	2	Oct 95	GFE	Onboard
0242	Circuit Card Assembly (Part No. 189F904)	2	Oct 95	GFE	Onboard
0243	Circuit Card Assembly (Part No. 189F905)	2	Oct 95	GFE	Onboard
0244	Circuit Card Assembly (Part No. 189F960)	2	Oct 95	GFE	Onboard
0245	Circuit Card Assembly (Part No. 218F252)	2	Oct 95	GFE	Onboard
0246	Circuit Card Assembly (Part No. 201F526)	4	Oct 95	GFE	Onboard

**ST**

0160	Azimuth Pointer (Part No. 125C3871)	1	Oct 95	GFE	Onboard
0161	Adapter, Turret Stand (Part No. 201F390)	1	Oct 95	GFE	Onboard
0162	Azimuth Scale (Part No. 204R633)	1	Oct 95	GFE	Onboard
0163	Vertical Clinometer (Part No. 320)	1	Oct 95	GFE	Onboard
0164	Alignment Stand (Part No. 205F200)	1	Oct 95	GFE	Onboard

**GPETE**

0008	Oscilloscope, Digital (Part No. 54501A-E01/910)	1	Oct 95	GFE	Onboard
0009	Multimeter, Digital (Part No. 8000A)	1	Oct 95	GFE	Onboard

**SPETE**

0319	Test Console, Armament (Part No. 201F991)	1	Oct 95	GFE	Onboard
0320	Extender Card (Part No. 132D1343)	1	Oct 95	GFE	Onboard
0321	Test Box, Current (Part No. 132D1784)	1	Oct 95	GFE	Onboard

**CIN, COURSE TITLE:** C-600-3177, Aircraft Nickel-Cadmium Battery Maintenance and Repair (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0274	Battery, Nickel-Cadmium (Part No. MS18045-45)	2	May 96	GFE	Onboard
0275	Battery, Nickel-Cadmium (Part No. 17191)	1	May 96	GFE	Onboard
<b>ST</b>					
0170	Tap, Thread Cutting (Part No. A-A-624)	2	May 96	GFE	Onboard
0171	Tap, Thread Cutting (Part No. A-A-625)	2	May 96	GFE	Onboard
0172	Tap, Thread Cutting (Part No. 303)	2	May 96	GFE	Onboard
0173	Thermometer (Part No. 31025)	2	May 96	GFE	Onboard

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



0174	Battery Filler (Part No. WA76480)	2	May 96	GFE	Onboard
0175	Tap and Reamer Wrench (Part No. GGG-W-680)	2	May 96	GFE	Onboard
0176	Battery Tool Kit (Part No. TK90G)	1	May 96	GFE	Onboard
0177	Hypodermic Needle (Part No. GGN196)	1	May 96	GFE	Onboard
0178	Hypodermic Syringe (Part No. 7-0697)	1	May 96	GFE	Onboard
0179	Polyethylene Wash Bottle (Part No. 03-409-10E)	1	May 96	GFE	Onboard
0180	Bulb, Syringe (Part No. MS35978-3)	1	May 96	GFE	Onboard
<b>GPETE</b>					
0004	Multimeter, Digital (Part No. 77AN)	1	May 96	GFE	Onboard
0012	Battery Charger (Part No. 371AS201-1)	2	May 96	GFE	Onboard

**CIN, COURSE TITLE:** C-646-3105, Aviation Ordnance Intermediate Maintenance Technician (Track M-646-7026)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Cherry Point, 31511

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b> 0276	50 Caliber Gun	1	May 00	GFE	Pending

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

**DEVICE:** 2F136, AH-1W Weapon System Trainer  
**DESCRIPTION:** Device 2F136 consists of two permanently installed, full-sized, domed replicas of the AH-1W Helicopter cockpit, one Pilot trainee station, one Gunner-Copilot trainee station, and an Instructor Operator Station (IOS) containing a host computer, a power supply, and associated peripherals. These stations may run independently or may be integrated when running concurrent missions. The trainee stations provide the students with the realistic cockpit environment that is necessary for effective training by utilizing aircraft, tactical, aural, and motion simulation. AH-1W WST 2F136 provides a realistic flight environment in which a Pilot and Gunner can develop the skills and techniques needed to efficiently and safely fly the AH-1W Helicopter throughout the spectrum of the AH-1W Helicopter missions. Currently, there are two AH-1W WST 2F136; one is located at Camp Pendleton, the second at New River. There will be no more AH-1W WSTs developed; new AH-1Z Helicopter Full Flight Simulators (FFS) will begin to be built in FY08 and delivered to HMT-303 in FY10. The FFS will be a high-fidelity motion flight simulator, self-contained, and networked (including tactical environment).

**MANUFACTURER:** CAE-LINK Flight Simulation Division  
**CONTRACT NUMBER:** N61339-84-C0084  
**TEE STATUS:** NA

**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS New River, 55203

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Apr 93	Apr 93	Onboard	Pilot Proficiency

**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Apr 93	Apr 93	Onboard	NA1 NA2 NA3 NA4 NA5

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

**DEVICE:** 2F161, UH-1N Weapons System Trainer  
**DESCRIPTION:** Device 2F161 consists of a full-sized, 24-foot domed replica of the UH-1N Aircraft cockpit as a trainee station, mounted on a full six-degree of freedom motion platform, and an IOS containing a host computer, a power supply, and associated peripherals. The trainee station simulates as closely as possible many functions of the UH-1N Aircraft and provides the students with the realistic cockpit environment that is necessary for effective training. The performance of the aircraft systems, electronic equipment, instrument response, and control reactions are designed to simulate the actual UH-1N Aircraft operation on the ground, during takeoff, flight, and landing, including weapons delivery, communication, navigation, system malfunctions, threat environment, and appropriate countermeasures. It includes a tactical environment simulation that allows the Aviators to interact with simulated threat environment and control friendly assets to accomplish their tactical missions. There will be no more UH-1N WSTs developed; the new UH-1Y Helicopter FFS will begin development in FY06 and be delivered to HMT-303 in FY08. The FFS will be a high-fidelity motion flight simulator, self-contained, and networked (including tactical environment).

**MANUFACTURER:** Hughes Training, Inc.

**CONTRACT NUMBER:** N61339-91-C-0059

**TEE STATUS:** NA

**TRAINING ACTIVITY:** HMT-303

**LOCATION, UIC:** MCAS Camp Pendleton, 01303

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Nov 92	Nov 92	Onboard	NA6 NA7 NA8 NA9 NA10 NA11 NA12 NA13

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

**DEVICE:** 2F170, AH-1W Aircrew Procedures Trainer  
**DESCRIPTION:** Device 2F170 consists of a full-sized replica of the AH-1W Helicopter cockpit as a Pilot and Copilot trainee station, an IOS, and an ESIG 2000 Out-The-Window (OTW) visual system. The APT device is housed in three mobile facilities and is capable of rapid, same day, operational set-up and tear-down. The cockpit assembly includes full-sized active indicators, controls, lights, panels, gages, and instruments located in the same relative position as in the actual aircraft. Power supplies, host computers, a control loading system, aural cueing, intercom system, and associated peripherals are located in the cockpit assembly. The device possess all the capabilities of the AH-1W WST, except for motion and simulated threat, and performs all functional checklists, including the weapons systems and emergency procedures, both airborne and on the ground. Currently, there are three AH-1W APT 2F170s; they are located at Camp Pendleton, Atlanta, and Johnstown. There will be no more AH-1W APTs developed; a new AH-1Z Helicopter Flight Training Device (FTD) will begin to be built in FY04 and delivered to HMT-303 in FY07. FTDs will be high fidelity flight simulators which are self-contained and networked (including tactical environment). The H-1 Upgrades Simulator Procurement Plan indicates funding for four AH-1Z FTDs to replace the AH-1W APT. The new AH-1Z Helicopter FTD will conform to the USMC Aviation Simulator Master Plan configuration.

**MANUFACTURER:** Manned Flight Simulator, NAVAIR Patuxent River  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA

**TRAINING ACTIVITY:** 4th MAW, HML/A-773  
**LOCATION, UIC:** NAS Atlanta, 61915

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 97	Jan 97	Onboard	Pilot Proficiency

**TRAINING ACTIVITY:** MALS-42  
**LOCATION, UIC:** NAS Johnstown, 45238

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 97	Jan 97	Onboard	Pilot Proficiency

**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** MCAS Camp Pendleton, 01303

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Apr 93	Apr 93	Onboard	NA1 NA2 NA3 NA4 NA5

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

**DEVICE:** 2F175, UH-1N Aircrew Procedures Trainer

**DESCRIPTION:** Device 2F175 consists of a full-size replica of the UH-1N Aircraft cockpit as a trainee station, an IOS, and an OTW visual system. The APT device is housed in two mobile facilities and is transportable by truck, rail, ship, and air transport. The APT is capable of rapid, same day, operational set-up and tear-down. Power supplies, host computers, a control loading system, aural cueing, intercom system, and associated peripherals are housed within the cockpit assembly that includes full-sized active indicators, controls, lights, panels, gauges, and instruments located in the same relative position as in the actual aircraft. The APT device possess all the capabilities of the UH-1N Aircraft WST, except for motion and simulated threat, and performs all functional checklists, including the weapons systems and emergency procedures, both airborne and on the ground. There will be no more UH-1N APTs developed; a new UH-1Y Helicopter FTD will begin to be developed in FY04 and delivered to HMT-303 in FY07. FTDs will be high fidelity flight simulators which are self-contained and networked (including tactical environment). The H-1 Upgrades Simulator Procurement Plan indicates funding for four UH-1Y FTDs to replace the UH-1N APT. The new UH-1Y Helicopter FTD will conform to the USMC Aviation Simulator Master Plan configuration.

**MANUFACTURER:** Manned Flight Simulator

**CONTRACT NUMBER:** NA

**TEE STATUS:** NA

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS New River, 55203

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 97	Jun 97	Onboard	NA6 NA7 NA8 NA9 NA10 NA11 NA12 NA13

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

**DEVICE:** 110201/142101, UH-1N Composite Maintenance Trainer  
**DESCRIPTION:** Device 110201/142101 consists of a complete, full-sized UH-1N Helicopter with stubbed rotor blades, a trainee station, and an IOS containing a host computer, a power supply, and associated peripherals. The CMT provides system maintenance training for structure, power plants, power trains, hydraulics, and flight control systems. The safety features of the CMT allow realistic training in a controlled and safe environment. A UH-1Y EMD Helicopter will be transferred to NAMTRA MARUNIT MCAS Camp Pendleton in FY06. This UH-1Y EMD aircraft will be trainerized with the incorporation of trainer unique modifications including the installation of an independent power supply, safety stops, and an IOS with computerized fault insertion. Additionally, the UH-1Y CMT will consist of a Digital Computer System, IOS that will emulate the 1553 bus and 1760 bus, Aural Cueing System, IHDSS, TSS, and Guns. The UH-1Y CMT will be designed so that the technician will be able to perform maintenance, operational checks, testing and troubleshooting, and fault isolation of all aircraft systems. In FY07, a second UH-1Y EMD aircraft will be modified to CMT configuration and delivered to NAMTRA MARUNIT MCAS Camp Pendleton. In FY09, a third UH-1N CMT will be updated and modified to the UH-1Y CMT configuration, thus providing a total of three UH-1Y CMTs for UH-1Y life cycle training requirements.

**MANUFACTURER:** Bell Helicopter Textron, Inc.  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA

**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
2	Sep 94	Sep 94	Onboard	C-104-3351 (Track M-102-2024) C-102-9354 (Track M-102-2024) C-602-9360 (Track M-102-2024) C-198-9351 (Track M-102-2024) C-646-3341 (Track M-646-2044) C-646-3342 (Track M-646-2044)

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

**DEVICE:** 111101, AH-1W Composite Maintenance Trainer  
**DESCRIPTION:** Device 111101(COMM/NAV) consists of a complete, full-sized AH-1W Helicopter with stubbed rotor blades, a trainee station, and an IOS containing a host computer, a power supply, and associated peripherals. The safety features of the CMT allow realistic training in a controlled and safe environment. One AH-1Z EMD aircraft will be modified to a CMT configuration and delivered to NAMTRA MARUNIT MCAS Camp Pendleton in FY06. This AH-1Z EMD aircraft will be trainerized with the incorporation of trainer unique modifications including, the installation of a power supply, emergency/safety stops (minimum of five), instructor station, fault insertion, and AH-1Z production and trainer upgrades. Additionally, the AH-1Z CMT will consist of a Digital Computer System, IOS that will emulate the 1553 bus and 1760 bus, Aural Cueing System, IHDSS, TSS, and Guns. The AH-1Z CMT will be designed so that the technician will be able to perform maintenance, operational checks, testing and troubleshooting, and fault isolation of all aircraft systems. The instructor station, fault insertion, and AH-1Z production and trainer upgrades will start in FY07 and be completed in FY08. Also in FY07, a second AH-1WZ EMD aircraft will be modified to CMT configuration and delivered NAMTRA MARUNIT MCAS Camp Pendleton. This second AH-1Z EMD aircraft will also be trainerized with the incorporation of trainer unique modifications, installation of a power supply, and emergency/safety stops. The instructor station, fault insertion, and AH-1Z production and trainer upgrades will start in FY10 and be completed in FY11. A current AH-1W CMT will be updated and partially modified to the AH-1Z CMT configuration starting in FY11 and will be delivered in FY12, thus providing a total of two and a half AH-1Z CMTs for AH-1Z life cycle training requirements.

**MANUFACTURER:** Bell Helicopter Textron, Inc.  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA

**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

QTY	DATE	RFT	COURSES
REQD	REQD	DATE	SUPPORTED
1	Sep 94	Sep 94	Onboard
			C-104-3351 (Track M-102-2024)
			C-102-9354 (Track M-102-2024)
			C-602-9360 (Track M-102-2024)
			C-198-9351 (Track M-102-2024)
			C-601-9351 (Track M-601-2014)
			C-601-9352 (Track M-601-2014)
			C-600-9363 (Track M-602-2081)

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

**DEVICE:** 142301, UH-1N Electrical/Armament Trainer  
**DESCRIPTION:** Device 142301 consists of a full-sized skeleton UH-1N Helicopter without tailboom, power plant, or power train. The EAT contains a trainee station and an IOS containing a host computer, a power supply, and associated peripherals. The EAT is equipped with all electrical systems and defense armament systems. The EAT provides maintenance training for COMM/NAV systems, instrument, automatic flight control, and armament systems. The AH-1W EAT will continue to support AH-1W maintenance training as long as required, and be disposed of when AH-1W training requirements are complete.

**MANUFACTURER:** Bell Helicopter Textron, Inc.  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA

**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Feb 95	Feb 95	Onboard	C-602-9360 (Track M-102-2024) C-646-3363 (Track M-646-2044) C-646-3341 (Track M-646-2044) C-602-3342 (Track M-602-5811) C-602-3358 (Track M-602-5811) C-646-3346 (Track M-602-5811) C-646-3362 (Track M-602-5811)

**DEVICE:** 222101, AH-1W Engine Remove/Replace Trainer  
**DESCRIPTION:** Device 222101 consists of a skeleton AH-1W Helicopter that serves as a trainee station to facilitate the removal and replacement of AH-1W engine, power train, combining gearboxes, transmission, main rotor mast, tail rotor driveshaft, and tail rotor systems maintenance. The AH-1W ERRRT will continue to support AH-1W maintenance training as long as required, and be disposed of when AH-1W training requirements are complete.

**MANUFACTURER:** Mainflight Simulator, Inc.  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA

**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Feb 95	Nov 95	Onboard	C-601-9351 (Track M-601-2014) C-601-9352 (Track M-601-2014) C-600-9363 (Track M-602-2081) C-601-3137 (Track M-601-3027) C-602-3342 (Track M-602-5811)

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

**DEVICE:** 310101, UH-1N Avionics Trainer  
**DESCRIPTION:** Device 310101 consists of a complete, full-sized UH-1N Helicopter with stubbed rotor blades, a trainee station, and an IOS containing a host computer, power supply, and associated peripherals. The AVT provides avionic systems maintenance training for intercommunication, control display navigation, cockpit control, aircraft survivability, and aircraft identification systems. The AVT will continue to support UH-1N training as required and disposed of when UH-1N training requirements are complete.  
**MANUFACTURER:** E-Systems, Inc.  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

QTY	DATE	RFT	STATUS	COURSES
REQD	REQD	DATE		SUPPORTED
1	Jan 98	Jan 98	Onboard	M-102-2024 C-602-9360 (Track M-102-2024) C-600-9355 (Track M-601-2014) C-602-3342 (Track M-602-5811)

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

**DEVICE:** 410101, AH-1W Composite Maintenance Trainer  
**DESCRIPTION:** Device 410101(Non-COMM/NAV) consists of a complete, full-sized AH-1W Helicopter with stubbed rotor blades, a trainee station, and an IOS containing a host computer, a power supply, and associated peripherals. The safety features of the CMT allow realistic training in a controlled and safe environment. One AH-1Z EMD aircraft will be modified to a CMT configuration and delivered to NAMTRA MARUNIT MCAS Camp Pendleton in FY06. This AH-1Z EMD aircraft will be trainerized with the incorporation of trainer unique modifications including the installation of a power supply, emergency/safety stops (minimum of five), instructor station, fault insertion, and AH-1Z production and trainer upgrades. Additionally, the AH-1Z CMT will consist of a Digital Computer System, IOS that will emulate the 1553 bus and 1760 bus, Aural Cueing System, IHDSS, TSS, and Guns. The AH-1Z CMT will be designed so that the technician will be able to perform maintenance, operational checks, testing and troubleshooting, and fault isolation of all aircraft systems. The instructor station, fault insertion, and AH-1Z production and trainer upgrades will start in FY07 and be completed in FY08. Also in FY07, a second AH-1WZ EMD aircraft will be modified to CMT configuration and delivered to NAMTRA MARUNIT MCAS Camp Pendleton. This second AH-1Z EMD aircraft will also be trainerized with the incorporation of trainer unique modifications, installation of a power supply, and emergency/safety stops. The instructor station, fault insertion, and AH-1Z production and trainer upgrades will start in FY10 and be completed in FY11. A current AH-1W CMT will be updated and partially modified to the AH-1Z CMT configuration starting in FY11 and will be delivered in FY12, thus providing a total of two and a half AH-1Z CMTs for AH-1Z life cycle training requirements.

**MANUFACTURER:** Bell Helicopter Textron, Inc.  
**CONTRACT NUMBER:** NA  
**TEE STATUS:** NA

**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

QTY	DATE	RFT	COURSES
REQD	REQD	DATE	SUPPORTED
1	Sep 94	Sep 94	Onboard
			C-104-3351 (Track M-102-2024)
			C-102-9354 (Track M-102-2024)
			C-602-9360 (Track M-102-2024)
			C-601-9351 (Track M-601-2014)
			C-600-9363 (Track M-602-2081)
			C-646-3363 (Track M-646-2044)
			C-646-3364 (Track M-646-2044)
			C-646-3342 (Track M-646-2044)

**IV.B. COURSEWARE REQUIREMENTS**

**IV.B.1. TRAINING SERVICES**

<b>COURSE / TYPE OF TRAINING</b>	<b>SCHOOL LOCATION, UIC</b>	<b>NO. OF PERSONNEL</b>	<b>MAN WEEKS REQUIRED</b>	<b>DATE BEGIN</b>
H-1 Pilot Training	HX-21, NAS Patuxent River, 39784	2	16.0	Jul 04
H-1 Power Trains, Rotors, and Related Systems Difference Data Maintenance Training	HX-21, NAS Patuxent River, 39784	2	7.6	May 04
H-1 Airframe and Hydraulic Systems Difference Data Maintenance Training	HX-21, NAS Patuxent River, 39784	2	5.6	Aug 04
H-1 Electrical SCAS/AFCS Systems Difference Data Maintenance Training	HX-21, NAS Patuxent River, 39784	2	5.6	Aug 04
H-1 Communication/Navigation Identification and Fire Control Systems Difference Data Maintenance Training	HX-21, NAS Patuxent River, 39784	2	7.2	Aug 04
H-1 Armament Systems Difference Data Maintenance Training	HX-21, NAS Patuxent River, 39784	2	2.0	Aug 04

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

**CIN, COURSE TITLE:** M-102-2024, H-1 Communication, Navigation, Identification System Maintenance

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard

**CIN, COURSE TITLE:** C-102-9354, H-1 Communication, Navigation, Identification, and Related Systems Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Computer Based Training	8	Jun 97	Onboard
Lesson Plan	50	Jan 95	Onboard
Overhead Projector	2	Jun 97	Onboard
Television Monitor	1	Jun 97	Onboard
Trainee Guide: C-102-9354A	50	Jun 97	Onboard
Transparencies (Set of 190)	1 Set	Jun 97	Onboard
Video Player	1	Jun 97	Onboard

**CIN, COURSE TITLE:** C-602-9360, H-1 Electrical and Stability Control Augmentation System Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Computer Based Training	8	May 00	Onboard
Lesson Plan	50	May 00	Onboard
Overhead Projector	1	May 00	Onboard
Trainee Guide: C-602-9360C	50	May 00	Onboard
Transparencies (Set of 223)	1 Set	May 00	Onboard

**CIN, COURSE TITLE:** C-198-9351, AH-1W TOW Hellfire Control and Display System Integrated Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Film: BF-1713 SABE Installation and Removal Procedures	1	Jan 95	Onboard
Film: BF-1721 SABE Boresighting Procedures	1	Jan 95	Onboard
Lesson Plan	50	Jan 95	Onboard
Overhead Projector	1	Jan 95	Onboard
Screen Projector	1	Jan 95	Onboard
Student Guide Section I & IV: CNTT-N4509D	50	Jan 95	Onboard
Student Guide Section II & III: CNTT-N4509C	50	Jan 95	Onboard
Transparencies (Set of 82)	1 Set	Jan 95	Onboard

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

**CIN, COURSE TITLE:** C-602-3357, H-1 Wire Bundle Repair Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Film: 213-9-82 Handling Techniques with Wire & Cable Insulated with Kapton	1	Sep 86	Onboard
Lesson Plan	50	Sep 86	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard
Screen Projector	1	Sep 86	Onboard
Slide Projector (35MM)	1	Sep 86	Onboard
Slides (Set of 9)	1 Set	Sep 86	Onboard

**CIN, COURSE TITLE:** C-104-3351, AH-1W Night Targeting (NTS) and UH-1N Navigational Thermal Imaging Systems (NTIS) Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Based Training	8	Dec 01	Onboard
Lesson Plan	50	Dec 01	Onboard
Overhead Projector	1	Dec 01	Onboard
Screen Projector	1	Dec 01	Onboard
Television Monitor	1	Dec 01	Onboard
Tests	50	Dec 01	Onboard
Trainee Guide: C-104-3351	50	Dec 01	Onboard
Transparencies (Set of 70)	1 Set	Dec 01	Onboard
VCR Head Cleaner	2	Dec 01	Onboard
Video Player	1	Dec 01	Onboard
Video Stand	1	Dec 01	Onboard

**CIN, COURSE TITLE:** M-601-2014, AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Power Point Presentation	1 Set	Jun 98	Onboard

**CIN, COURSE TITLE:** C-601-9351, AH-1W Power trains, Rotors and Related Systems Organizational Maintenance (Track M-601-2014)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	50	Apr 99	Onboard
Overhead Projector	1	Apr 99	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard
Screen Projector	1	Apr 99	Onboard
Television Monitor	1	Apr 99	Onboard
Trainee Guide: C-601-9351B	50	Apr 99	Onboard
Transparencies (Set of 116)	1 Set	Apr 99	Onboard
Video Player	1	Apr 99	Onboard

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

**CIN, COURSE TITLE:** C-601-9352, H-1 Combined Maintenance (Track M-601-2014)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	50	Apr 98	Onboard
Overhead Projector	1	Apr 98	Onboard
Screen Projector	1	Apr 98	Onboard
Trainee Guide: C-601-9352B	50	Apr 98	Onboard
Transparencies (Set of 16)	1 Set	Apr 98	Onboard

**CIN, COURSE TITLE:** C-600-9355, UH-1N Power trains Rotors and Related Systems Organizational Maintenance (Track M-601-2014)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Power Point Presentation	1 Set	Jun 98	Onboard

**CIN, COURSE TITLE:** C-600-9363, H-1 Airframes Systems Organizational Maintenance (Track M-602-2081)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Overhead Projector	2	Jun 00	Onboard
Trainee Guide: C-600-9363B	50	Jun 00	Onboard
Transparencies (Set of 95)	1 Set	Jun 00	Onboard

**CIN, COURSE TITLE:** M-646-2044, Rotary Wing (H-1/CH-46/CH-53) Armament Systems Maintenance

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard

**CIN, COURSE TITLE:** C-646-3363, AH-1W Armament Repair Organizational Maintenance (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Computer Aided Instruction	1 Set	Feb 01	Onboard
Overhead Projector	6	Feb 01	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard
Television Monitor	2	Feb 01	Onboard
Trainee Guide: C-646-3363	50	Feb 01	Onboard
Video Player	4	Feb 01	Onboard

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

**CIN, COURSE TITLE:** C-646-3364, AH-1W Turret/M197/M89/20MM Feed Systems Organizational Maintenance  
(Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Computer Based Training	8	Feb 01	Onboard
Overhead Projector	6	Feb 01	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard
Television Monitor	2	Feb 01	Onboard
Trainee Guide: C-646-3364	50	Feb 01	Onboard
Video Player	2	Feb 01	Onboard
Video Tape: AH-1W Turret	1	Feb 01	Onboard
Video Tape: Federal Hazardous Communication Program	1	Feb 01	Onboard
Video Tape: VX-5-001, Curse of the Attack Cobra	1	Feb 01	Onboard
Video Tape: VX-5-002, Ordnance Delivery	1	Feb 01	Onboard

**CIN, COURSE TITLE:** C-646-3341, UH-1N Armament Organizational Maintenance (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard

**CIN, COURSE TITLE:** C-646-3342, H-1 Conventional Weapons Loading (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction	1 Set	Jun 97	Onboard
Computer Aided Instruction	1 Set	Feb 01	Onboard
Overhead Projector	2	Feb 01	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard
Screen Projector	2	Feb 01	Onboard
Television Monitor	2	Feb 01	Onboard
Trainee Guide: C-646-3342	50	Feb 01	Onboard
Video Player	2	Feb 01	Onboard
Video Tape: Decoy Flares	1	Feb 01	Onboard
Video Tape: Depleted Uranium Safety	1	Feb 01	Onboard
Video Tape: Loading and Downloading AIM-9 Sidewinder	1	Feb 01	Onboard
Video Tape: Loading and Downloading HELLFIRE Missile System	1	Feb 01	Onboard
Video Tape: Release and Control Checks HELLFIRE Missile System	1	Feb 01	Onboard
Video Tape: VX-5-001, Curse of the Attack Cobra	1	Feb 01	Onboard
Video Tape: VX-5-002, Ordnance Delivery	1	Feb 01	Onboard

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

**CIN, COURSE TITLE:** M-601-3027, T-400/T-700 Engine First Degree Intermediate Maintenance

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Power Point Presentation	1 Set	Jun 98	Onboard

**CIN, COURSE TITLE:** C-601-3137, T-400 Series Engine First Degree Intermediate Maintenance (Track M-601-3027)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	50	Feb 97	Onboard
Overhead Projector	1	Feb 97	Onboard
Power Point Presentation	1 Set	Jun 98	Onboard
Trainee Guide: C-601-3137A	50	Feb 97	Onboard
Transparencies (Set of 5)	1 Set	Feb 97	Onboard

**CIN, COURSE TITLE:** C-602-3358, H-1 Electrical Systems Intermediate Maintenance (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	50	Apr 95	Onboard
Overhead Projector	1	Apr 94	Onboard
Student Guide Section I & IV: CNTT-N2491D	50	Apr 94	Onboard
Student Guide Section II & III: CNTT-N2494C	50	Apr 94	Onboard
Transparencies (Set of 17)	1 Set	Apr 94	Onboard

**CIN, COURSE TITLE:** C-646-3346, AH-1 Navy Armament and Control Delivery System (NARCADS) Intermediate Maintenance (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	50	Dec 95	Onboard
Overhead Projector	1	Dec 95	Onboard
Transparencies (Set of 36)	1 Set	Dec 95	Onboard

**CIN, COURSE TITLE:** C-646-3362, AH-1W A/A49E-7(V) Turret System Intermediate Maintenance (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	50	Oct 95	Onboard
Overhead Projector	1	Oct 95	Onboard
Trainee Guide: NAMTG-N4534	50	Oct 95	Onboard
Wall Charts (Set of 9)	1 Set	Oct 95	Onboard

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

**CIN, COURSE TITLE:** C-600-3177, Aircraft Nickel-Cadmium Battery Maintenance and Repair (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Lesson Plan	50	May 96	Onboard
Overhead Projector	1	May 96	Onboard
Student Guide Section II & III: CNTT-N2122C	50	May 96	Onboard
Transparencies (Set of 58)	1 Set	May 96	Onboard

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

**CIN, COURSE TITLE:** C-102-9354, H-1 Communication, Navigation, Identification, and Related Systems Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-110HCE-2-12 HH-1N/UH-1N Maintenance Instructions, Avionics Systems	Hard copy	6	Jun 97	Onboard
NA 01-110HCE-2-13 HH-1N/UH-1N Maintenance Instructions, Wiring Diagrams	Hard copy	6	Jun 97	Onboard
NA 01-110HCE-2-9 HH-1N/UH-1N Maintenance Instructions, Electronic Countermeasures	Hard copy	6	Jun 97	Onboard
NA 01-110HCE-4-1 HH-1N/UH-1N Illustrated Parts Breakdown Numerical Index and Reference Designation	Hard copy	6	Jun 97	Onboard
NA 01-110HCE-4-12 HH-1N/UH-1N Illustrated Parts Breakdown, Avionics Systems	Hard copy	6	Jun 97	Onboard
NA 01-110HCE-4-9 HH-1N/UH-1N Illustrated Parts Breakdown, Electronic Countermeasure Systems	Hard copy	6	Jun 97	Onboard
NA 01-110HCE-6-3 UH-1N Helicopter, Daily/Servicing/Special/Conditional/Preservation/ASPA Maintenance Requirement Cards	Hard copy	1	Jun 97	Onboard
NA 01-H1AAC-2-14.1 AH-1W Organizational Maintenance, Principles of Operation, Avionics Equipment	Hard copy	6	Jun 97	Onboard
NA 01-H1AAC-2-14.2 AH-1W Organizational Maintenance, Testing and Troubleshooting, Avionics Equipment	Hard copy	6	Jun 97	Onboard
NA 01-H1AAC-2-14.3 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Avionics Equipment	Hard copy	6	Jun 97	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	1	Jun 97	Onboard

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

**CIN, COURSE TITLE:** C-602-9360, H-1 Electrical and Stability Control Augmentation System Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-110HC-8 H-1 Aircraft (Non Attack), Work Unit Code Manual	Hard copy	1	May 00	Onboard
NA 01-110HCE-1 UH-1N Helicopter, NATOPS Flight Manual	Hard copy	6	May 00	Onboard
NA 01-110HCE-2-10 HH-1N/UH-1N Maintenance Instructions, Instrument Systems	Hard copy	6	May 00	Onboard
NA 01-110HCE-2-11 HH-1N/UH-1N Maintenance Instructions, Electrical Systems	Hard copy	6	May 00	Onboard
NA 01-110HCE-2-12 HH-1N/UH-1N Maintenance Instructions, Avionics Systems	Hard copy	6	May 00	Onboard
NA 01-110HCE-2-13 HH-1N/UH-1N Maintenance Instructions, Wiring Diagrams	Hard copy	6	May 00	Onboard
NA 01-110HCE-4-1 HH-1N/UH-1N Illustrated Parts Breakdown Numerical Index and Reference Designation	Hard copy	6	May 00	Onboard
NA 01-110HCE-4-10 HH-1N/UH-1N Illustrated Parts Breakdown, Instrument Systems	Hard copy	6	May 00	Onboard
NA 01-110HCE-4-11 HH-1N/UH-1N Illustrated Parts Breakdown, Electrical Systems	Hard copy	6	May 00	Onboard
NA 01-110HCE-4-12 HH-1N/UH-1N Illustrated Parts Breakdown, Avionics Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-1 AH-1W Aircraft, NATOPS Flight Manual	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-10.1 AH-1W Organizational Maintenance, Principles of Operation, Instrument Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-10.2 AH-1W Organizational Maintenance, Testing and Troubleshooting, Instrument Systems	Hard copy	6	May 00	Onboard

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

NA 01-H1AAC-2-11.1 AH-1W Organizational Maintenance, Principles of Operation, Electrical Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-11.2.1 AH-1W Organizational Maintenance, Testing and Troubleshooting, Electrical Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-11.2.2 AH-1W Organizational Maintenance, Testing and Troubleshooting, Electrical Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-11.2.3 AH-1W Organizational Maintenance, Testing and Troubleshooting, Electrical Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-11.3 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Electrical Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-13 AH-1W Organizational Maintenance, Testing and Troubleshooting, with Illustrated Parts Breakdown, Stability Control Augmentation System	Hard copy	6	May 00	Onboard
NA 01-H1AAC-2-3.1 AH-1W Organizational Maintenance, Principles of Operation, Power Plants and Related Systems	Hard copy	6	May 00	Onboard
NA 01-H1AAC-WUC-800 AH-1W Aircraft, Work Unit Code Manual	Hard copy	1	May 00	Onboard

**CIN, COURSE TITLE:** C-198-9351, AH-1W TOW Hellfire Control and Display System Integrated Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
NA 01-H1AAC-1 AH-1W Aircraft, NATOPS Flight Manual	Hard copy	1	Jan 95	Onboard
NA 01-H1AAC-2-12.1 AH-1W Organizational Maintenance Manual, Principles of Operation, Armament Systems	Hard copy	6	Jan 95	Onboard
NA 01-H1AAC-2-12.2 AH-1W Organizational Maintenance Manual, Testing and Troubleshooting, Armament Systems	Hard copy	6	Jan 95	Onboard

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

NA 01-H1AAC-2-12.3 AH-1W Organizational Maintenance Manual, Maintenance Procedures, Armament Systems	Hard copy	6	Jan 95	Onboard
NA 01-H1AAC-2-12.4 AH-1W Organizational Maintenance Manual, Illustrated Parts Breakdown, Armament Systems	Hard copy	6	Jan 95	Onboard
NA 01-H1AAC-WUC-800 AH-1W Aircraft, Work Unit Code Manual	Hard copy	1	Jan 95	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	1	Jan 95	Onboard

**CIN, COURSE TITLE:** C-602-3357, H-1 Wire Bundle Repair Organizational Maintenance (Track M-102-2024)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
DMC386 Electrical Connector Maintenance/Repair Kit, Instructions and Tool Selection Chart	Hard copy	10	Sep 86	Onboard
NA 01-110HCE-2 Maintenance Instructions, Utility Helicopter UH-1N	Hard copy	10	Sep 86	Onboard
NA 01-110HCE-4 Illustrated Parts Breakdown, Utility Helicopter UH-1N	Hard copy	10	Sep 86	Onboard
NA 01-1A-505 Installation Practices, Aircraft Electric and Electronic Wiring	Hard copy	10	Sep 86	Onboard
NA 01-F14AAA-2-5-2 Organizational Maintenance, Triaxial Connectors 30231-5, 30231-46, 30240-4, and 30240-40	Hard copy	10	Sep 86	Onboard
NA 01-H1AAB-2-15 Organizational Maintenance, Electrical Systems, AH-1T (TOW) Helicopter	Hard copy	10	Sep 86	Onboard
NA 01-H1AAB-4 Illustrated Parts Breakdown, AH-1T (TOW) Helicopter	Hard copy	10	Sep 86	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	10	Sep 86	Onboard
RAYCHEM Military Aircraft, Wiring and Harness Manual	Hard copy	10	Sep 86	Onboard

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

**CIN, COURSE TITLE:** C-104-3351, AH-1W Night Targeting (NTS) and UH-1N Navigational Thermal Imaging Systems (NTIS) Organizational Maintenance (Track M-102-2024)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-110HCE-2-13 HH-1N/UH-1N Maintenance Instructions, Wiring Diagrams	Hard copy	10	Dec 01	Onboard
NA 01-H1AAC-1 AH-1W Aircraft, NATOPS Flight Manual	Hard copy	10	Dec 01	Onboard
NA 01-H1AAC-2-12.1 AH-1W Organizational Maintenance Manual, Principles of Operation, Armament Systems	Hard copy	10	Dec 01	Onboard
NA 01-H1AAC-2-12.2 AH-1W Organizational Maintenance Manual, Testing and Troubleshooting, Armament Systems	Hard copy	10	Dec 01	Onboard
NA 01-H1AAC-2-12.3 AH-1W Organizational Maintenance Manual, Maintenance Procedures, Armament Systems	Hard copy	10	Dec 01	Onboard
NA 01-H1AAC-2-12.4 AH-1W Organizational Maintenance Manual, Illustrated Parts Breakdown, Armament Systems	Hard copy	10	Dec 01	Onboard
NA 01-H1AAC-6-3 AH-1W Helicopter, Maintenance Requirements Cards	Hard copy	10	Dec 01	Onboard

**CIN, COURSE TITLE:** C-601-9351, AH-1W Power Trains, Rotors, and Related Systems Organizational Maintenance (Track M-601-2014)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-H1AAC-1 AH-1W Aircraft, NATOPS Flight Manual	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-1 AH-1W Organizational Maintenance, General Information	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-3.1 AH-1W Organizational Maintenance, Principles of Operation, Power Plants and Related Systems	Hard copy	8	Apr 99	Onboard

### IV.B.3. TECHNICAL MANUALS

NA 01-H1AAC-2-3.2 AH-1W Organizational Maintenance, Testing and Troubleshooting, Power Plants and Related Systems	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-3.3 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Testing and Troubleshooting, Power Plants and Related Systems	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-4 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Drive Systems	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-5 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Flight Control Systems	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-6 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Main Rotor and Control Systems	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-7 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Tail Rotor System	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-8 AH-1W Organizational Maintenance, Hydraulic Systems	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-2-9 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Utility Systems	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-6-1 AH-1W Helicopter, Turnaround Checklist	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-6-2 AH-1W Helicopter, Daily Maintenance Requirement Cards	Hard copy	8	Apr 99	Onboard
NA 01-H1AAC-6-3 AH-1W Helicopter, Maintenance Requirements Cards	Hard copy	8	Apr 99	Onboard
NA 01-H1ACC-75-18 AH-1W Helicopter, Auxiliary Fuel Tank Checklist	Hard copy	8	Apr 99	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	1	Apr 99	Onboard

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

**CIN, COURSE TITLE:** C-601-9352, H-1 Combined Maintenance (Track M-601-2014)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 00-25-100 Naval Air Systems Command Technical Manual Program	Hard copy	8	Apr 98	Onboard
NA 01-110HC-8 H-1 Aircraft (Non Attack), Work Unit Code Manual	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-1 UH-1N Helicopter, NATOPS Flight Manual	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-1 HH-1N/UH-1N Maintenance Instructions, General Information and Conditional Inspections	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-2 HH-1N/UH-1N Maintenance Instructions, Airframe and Landing Gear Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-3 HH-1N/UH-1N Maintenance Instructions, Power Plant and Related Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-3.1 HH-1N/UH-1N Maintenance Instructions, Power Plant Ground Operational and Conditioning Manual	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-4 HH-1N/UH-1N Maintenance Instructions, Power Train System	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-5 HH-1N/UH-1N Maintenance Instructions, Flight Controls and Hydraulic Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-6 HH-1N/UH-1N Maintenance Instructions, Main and Tail Rotor Group	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-2-7 HH-1N/UH-1N Maintenance Instructions, Utility Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-4-1 HH-1N/UH-1N Illustrated Parts Breakdown Numerical Index and Reference Designation	Hard copy	8	Apr 98	Onboard

### IV.B.3. TECHNICAL MANUALS

NA 01-110HCE-4-2 HH-1N/UH-1N Illustrated Parts Breakdown, Airframe and Landing Gear Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-4-3 HH-1N/UH-1N Illustrated Parts Breakdown, Power Plants and Related Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-4-4 HH-1N/UH-1N Illustrated Parts Breakdown, Power Train System	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-4-5 HH-1N/UH-1N Illustrated Parts Breakdown, Flight Controls and Hydraulic Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-4-6 HH-1N/UH-1N Illustrated Parts Breakdown, Main and Tail Rotor Groups	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-4-7 HH-1N/UH-1N Illustrated Parts Breakdown, Utility Systems	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-6-1 UH-1N Helicopter, Turnaround Checklist	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-6-2 UH-1N Helicopter, Daily Maintenance Requirement Cards	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-6-3 UH-1N Helicopter, Daily/Servicing/Special/Conditional/Preservation/ASPA Maintenance Requirement Cards	Hard copy	8	Apr 98	Onboard
NA 01-110HCE-6-4 UH-1N Helicopter, Phase Maintenance Requirement Cards	Hard copy	8	Apr 98	Onboard
NA 01-1A-8 Structural Hardware Manual	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-1 AH-1W Aircraft, NATOPS Flight Manual	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-1 AH-1W Organizational Maintenance, General Information	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-16 AH-1W Conditional Inspection Requirements	Hard copy	1	Apr 98	Onboard

### IV.B.3. TECHNICAL MANUALS

NA 01-H1AAC-2-2 AH-1W Organizational Maintenance, Airframe and Landing	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-3.1 AH-1W Organizational Maintenance, Principles of Operation, Power Plants and Related Systems	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-3.2 AH-1W Organizational Maintenance, Testing and Troubleshooting, Power Plants and Related Systems	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-3.3 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Testing and Troubleshooting, Power Plants and Related Systems	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-4 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Drive Systems	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-5 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Flight Control Systems	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-6 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Main Rotor and Control Systems	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-7 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Tail Rotor System	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-2-9 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Utility Systems	Hard copy	1	Apr 98	Onboard
NA 01-H1AAC-6-1 AH-1W Helicopter, Turnaround Checklist	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-6-2 AH-1W Helicopter, Daily Maintenance Requirement Cards	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-6-3 AH-1W Helicopter, Special/Conditional/Preservation/ASPA Maintenance Requirement Cards	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-6-4 AH-1W Helicopter, Phase Maintenance Requirement Cards	Hard copy	8	Apr 98	Onboard
NA 01-H1AAC-WUC-800 AH-1W Aircraft, Work Unit Code Manual	Hard copy	8	Apr 98	Onboard

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

NA 02B-20AA-4 Illustrated Parts Breakdown, Twin Power Section Turbo Shaft, Engine Model T400-CP-400, Model T400-CP-401, Model T400-WV-402	Hard copy	1	Apr 98	Onboard
NA 02B-20AA-6-1 Intermediate Maintenance Twin Power Section Turbo Shaft, Engine Model T400-CP-400, Model T400-CP-401, Model T400-WV-402	Hard copy	1	Apr 98	Onboard
NA 17-1H1-1 Aircraft Tool Control Manual, Navy and Marine Corps	Hard copy	1	Apr 98	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	1	Apr 98	Onboard

**CIN, COURSE TITLE:** C-600-9363, H-1 Airframes Systems Organizational Maintenance (Track M-602-2081)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-110HC-8 H-1 Aircraft (Non Attack), Work Unit Code Manual	Hard copy	1	Jun 00	Onboard
NA 01-110HCE-1 UH-1N Helicopter, NATOPS Flight Manual	Hard copy	1	Jun 00	Onboard
NA 01-110HCE-2-1 HH-1N/UH-1N Maintenance Instructions, General Information and Conditional Inspections	Hard copy	8	Jun 00	Onboard
NA 01-110HCE-2-2 HH-1N/UH-1N Maintenance Instructions, Airframe and Landing Gear Systems	Hard copy	8	Jun 00	Onboard
NA 01-110HCE-2-5 HH-1N/UH-1N Maintenance Instructions, Flight Controls and Hydraulic Systems	Hard copy	8	Jun 00	Onboard
NA 01-110HCE-3 UH-1N Helicopter, Structural Repair Manual	Hard copy	8	Jun 00	Onboard
NA 01-110HCE-4-1 HH-1N/UH-1N Illustrated Parts Breakdown Numerical Index and Reference Designation	Hard copy	8	Jun 00	Onboard
NA 01-110HCE-4-2 HH-1N/UH-1N Illustrated Parts Breakdown, Airframe and Landing Gear Systems	Hard copy	8	Jun 00	Onboard

### IV.B.3. TECHNICAL MANUALS

NA 01-110HCE-4-5 HH-1N/UH-1N Illustrated Parts Breakdown, Flight Controls and Hydraulic Systems	Hard copy	8	Jun 00	Onboard
NA 01-1A-1 General Manual for Structural Repair	Hard copy	8	Jun 00	Onboard
NA 01-1A-17 Aviation Hydraulics Manual	Hard copy	8	Jun 00	Onboard
NA 01-1A-509 Aircraft Weapons Systems Cleaning and Corrosion	Hard copy	8	Jun 00	Onboard
NA 01-1A-8 Structural Hardware Manual	Hard copy	8	Jun 00	Onboard
NA 01-1A-9 Aerospace Metals, General Data and Usage Factors	Hard copy	1	Jun 00	Onboard
NA 01-H1AAC-1 AH-1W Aircraft, NATOPS Flight Manual	Hard copy	1	Jun 00	Onboard
NA 01-H1AAC-2-1 AH-1W Organizational Maintenance, General Information	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-2-13 AH-1W Organizational Maintenance, Testing and Troubleshooting, with Illustrated Parts Breakdown, Stability Control Augmentation System	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-2-2 AH-1W Organizational Maintenance, Airframe and Landing	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-2-5 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Flight Control Systems	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-2-8 AH-1W Organizational Maintenance, Hydraulic Systems	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-2-9 AH-1W Organizational Maintenance with Illustrated Parts Breakdown, Utility Systems	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-3 AH-1W Organizational Maintenance Manual, Structural Repair	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-3.1 AH-1W Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Structural Repair	Hard copy	8	Jun 00	Onboard

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

NA 01-H1AAC-3.2 AH-1W Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Structural Repair	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-3.3 AH-1W Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Structural Repair	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-4 AH-1W Helicopter, Numerical Index of Part Numbers and Reference Designations	Hard copy	8	Jun 00	Onboard
NA 01-H1AAC-6-4 AH-1W Helicopter, Phase Maintenance Requirement Cards	Hard copy	1	Jun 00	Onboard
NA 01-H1AAC-WUC-800 AH-1W Aircraft, Work Unit Code Manual	Hard copy	1	Jun 00	Onboard
NA 02B-20AA-6-4 Complete Engine Repair Maintenance Requirement Cards T400-CP-400 and T400-WV-402	Hard copy	10	Jun 00	Onboard
NA 15-01-500 Preservation of Naval Aircraft, Organizational, Intermediate, and Depot Maintenance	Hard copy	8	Jun 00	Onboard
NA 17-15E-52 Hydraulic Fluid Contamination Analysis Kit	Hard copy	1	Jun 00	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	1	Jun 00	Onboard

**CIN, COURSE TITLE:** C-646-3363, AH-1W Armament Repair Organizational Maintenance (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-H1AAC-2-12.1 AH-1W Organizational Maintenance Manual, Principles of Operation, Armament Systems	Hard copy	6	Feb 01	Onboard
NA 01-H1AAC-2-12.2 AH-1W Organizational Maintenance Manual, Testing and Troubleshooting, Armament Systems	Hard copy	6	Feb 01	Onboard
NA 01-H1AAC-2-12.3 AH-1W Organizational Maintenance Manual, Maintenance Procedures, Armament Systems	Hard copy	6	Feb 01	Onboard

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

NA 01-H1AAC-2-12.4 AH-1W Organizational Maintenance Manual, Illustrated Parts Breakdown, Armament Systems	Hard copy	6	Feb 01	Onboard
NA 01-H1AAC-6-3 AH-1W Helicopter, Special/Conditional/Preservation/ASPA Maintenance Requirement Cards	Hard copy	1	Feb 01	Onboard
NA 01-H1AAC-75 AH-1W Helicopter, Technical Manual, Airborne Weapons/Stores Loading Manual	Hard copy	6	Feb 95	Onboard
NA 01-H1AAC-WUC-800 AH-1W Aircraft, Work Unit Code Manual	Hard copy	1	Feb 01	Onboard

**CIN, COURSE TITLE:** C-646-3364, AH-1W Turret/M197/M89/20MM Feed Systems Organizational Maintenance (Track M-646-2044)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
MSDS 6050.5-L Material Safety Data Sheet, Lubricating Oil, MIL-L-46150	Hard copy	1	Feb 01	Onboard
MSDS 6050.5-L Material Safety Data Sheet, Grease Aircraft and Instrument, MIL-G-23827	Hard copy	1	Feb 01	Onboard
MSDS 6050.5-L Material Safety Data Sheet, Lubricating Oil, VV-L-800	Hard copy	1	Feb 01	Onboard
MSDS 6050.5-L Material Safety Data Sheet, Hydraulic Fluid, MIL-H-83262C	Hard copy	1	Feb 01	Onboard
NA 01-H1AAC-2-12.1 AH-1W Organizational Maintenance Manual, Principles of Operation, Armament Systems	Hard copy	1	Feb 01	Onboard
NA 01-H1AAC-2-12.3 AH-1W Organizational Maintenance Manual, Maintenance Procedures, Armament Systems	Hard copy	1	Feb 01	Onboard
NA 11-1-105 Technical Manual, Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, 20MM Barrel Erosion Gage Kit M10 (T23)	Hard copy	1	Feb 01	Onboard

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

NA 11-45BB-8 Technical Manual, Illustrated Parts Breakdown, 20MM Point Suppressive Fire System A/A49E-7(V1), A/A49E-7(V3), A/A49E-2, A/A49E-7(V4)	Hard copy	6	Feb 01	Onboard
NA 11-95M197-1 Technical Manual, Organizational and Depot Maintenance Instructions with Illustrated Parts Breakdown, M197 20MM Automatic Gun	Hard copy	6	Feb 01	Onboard
NA 11-95M89-1 Technical Manual, Organizational Maintenance Instructions with Illustrated Parts Breakdown, M89 and M89E1 Declutching	Hard copy	6	Feb 01	Onboard
NAVSUPPUB 2002 Naval Logistics Library	Hard copy	1	Feb 01	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	6	Feb 01	Onboard
OPNAVINST 8000.16 Naval Ordnance Maintenance Management Program	Hard copy	6	Feb 01	Onboard

**CIN, COURSE TITLE:** C-646-3342, H-1 Conventional Weapons Loading (Track M-646-2044)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Marine Corps Order 8023.3 Qualification and Certification Program for Class V Munitions and Explosive Devices	Hard copy	1	Feb 01	Onboard
NA 01-110HCE-75 UH-1N Helicopter, Technical Manual, Airborne Weapons/Stores Loading Manual	Hard copy	6	Feb 01	Onboard
NA 01-H1AAC-11 Checklist, Organizational, Gun Jam Clearing, GTK-4/A49E-7(V) 20MM Turret System	Hard copy	6	Feb 01	Onboard
NA 01-H1AAC-75 AH-1W Helicopter, Technical Manual, Airborne Weapons/Stores Loading Manual	Hard copy	6	Feb 01	Onboard
NA 11-70DA-1 Technical Manual, Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, UH-1N Defensive Armament Subsystem A/A49E-11	Hard copy	6	Feb 01	Onboard

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

NA 16-30ALE39-1 Hard copy 1 Feb 01 Onboard  
 Technical Manual, Organizational and Intermediate  
 Maintenance with Illustrated Parts Breakdown,  
 Countermeasures Dispensing System AN/ALE-39

**CIN, COURSE TITLE:** C-601-3137, T-400 Series Engine First Degree Intermediate Maintenance (Track M-601-3027)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 02-1-8 Work Unit Code Manual, Turbojet, Turbofan, Turboshift and Reciprocating Engines	Hard copy	1	Feb 97	Onboard
NA 02B-20AA-4 Illustrated Parts Breakdown, Twin Power Section Turbo Shaft, Engine Model T400-CP-400, Model T400-CP-401, Model T400-WV-402	Hard copy	6	Feb 97	Onboard
NA 02B-20AA-6-1 Intermediate Maintenance Twin Power Section Turbo Shaft, Engine Model T400-CP-400, Model T400-CP-401, Model T400-WV-402	Hard copy	6	Feb 97	Onboard
NA 02B-20AA-6-3 Basic Engine Maintenance Requirement Cards T400-CP-400 and T400-WV-402	Hard copy	1	Feb 97	Onboard
NA 02B-20AA-6-4 Complete Engine Repair Maintenance Requirement Cards T400-CP-400 and T400-WV-402	Hard copy	6	Feb 97	Onboard
NA 02B-20AA-6-5 Sequence Control Chart T400-CP-400 and T400-WV-402	Hard copy	1	Feb 97	Onboard

**CIN, COURSE TITLE:** C-602-3358, H-1 Electrical Systems Intermediate Maintenance (Track M-602-5811)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 03-30VB-3 Technical Manual, Maintenance and Overhaul Instructions with Illustrated Parts Breakdown, Bleed Air Valve	Hard copy	6	Apr 94	Onboard
NA 03-5-366 Technical Manual, Maintenance and Overhaul Instructions, RPM Limit Detector	Hard copy	6	Apr 94	Onboard

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

NA 03-5GB-30 Technical Manual, Overhaul Instructions with Illustrated Parts Breakdown, Master Caution Panel	Hard copy	6	Apr 95	Onboard
NA 03-75BA-19 Technical Manual, Overhaul Instructions with Illustrated Parts Breakdown, Actuator, Linear, Travel Limit, SYLC 50114	Hard copy	6	Apr 94	Onboard
NA 03-90A-1 Technical Manual, Maintenance Instructions with Illustrated Parts Breakdown, Internal Rescue Hoist	Hard copy	6	Apr 94	Onboard
NA 05-35NAA-1 Technical Manual, Intermediate and Depot Maintenance, Gyroscope Reference Navigational Compass Set AN/ASN-75	Hard copy	6	Apr 94	Onboard

**CIN, COURSE TITLE:** C-646-3346, AH-1 Navy Armament and Control Delivery System (NARCADS) Intermediate Maintenance (Track M-602-5811)

**TRAINING ACTIVITY:** NAMTRA MARUNIT

**LOCATION, UIC:** MCAS Camp Pendleton, 48107

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
NA 03-5CXA-5 Technical Manual, Intermediate Maintenance with Illustrated Parts Breakdown, Jettison Panel	Hard copy	6	Dec 95	Onboard
NA 03-5CXA-6 Technical Manual, Intermediate Maintenance with Illustrated Parts Breakdown, Stores Control Panel	Hard copy	6	Dec 95	Onboard
NA 03-5GB-45 Technical Manual, Intermediate Maintenance with Illustrated Parts Breakdown, Light, Landing, Controllable	Hard copy	6	Apr 94	Onboard
NA 03-95E-35 Technical Manual, Intermediate Maintenance with Illustrated Parts Breakdown, Wing Rocket Delivery Unit	Hard copy	6	Dec 95	Onboard
NA 17-15FA-14 Technical Manual, Operation and Maintenance Instructions with Illustrated Parts Breakdown, Armament Control System Test Set	Hard copy	1	Dec 95	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	1	Dec 95	Onboard

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

**CIN, COURSE TITLE:** C-646-3362, AH-1W A/A49E-7(V) Turret System Intermediate Maintenance (Track M-602-5811)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-H1AAC-WUC-800 AH-1W Aircraft, Work Unit Code Manual	Hard copy	1	Oct 95	Onboard
NA 11-45BB-9 Technical Manual, Operation and Maintenance with Illustrated Parts Breakdown, 20MM Point and Suppressive Fire System A/A49E-7(V)	Hard copy	8	Oct 95	Onboard
NA 17-15FA-11 Technical Manual, Operation and Maintenance with Illustrated Parts Breakdown, Intermediate Level, Test Controls	Hard copy	8	Oct 95	Onboard
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program	Hard copy	1	Oct 95	Onboard

**CIN, COURSE TITLE:** C-600-3177, Aircraft Nickel-Cadmium Battery Maintenance and Repair (Track M-602-5811)  
**TRAINING ACTIVITY:** NAMTRA MARUNIT  
**LOCATION, UIC:** MCAS Camp Pendleton, 48107

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
DoD 4160.21M Defense Reutilization and Marketing Manual	Hard copy	1	May 96	Onboard
MSDS-BCFPK Material Safety Data Sheet, Epoxy Coating, TT-C-535	Hard copy	1	May 96	Onboard
MSDS-BDSCV Material Safety Data Sheet, Adhesive, Rubber to Steel, MMM-A-121	Hard copy	1	May 96	Onboard
MSDS-BFDNR Material Safety Data Sheet, Potassium Hydroxide Electrolyte, MIL-P-11751	Hard copy	1	May 96	Onboard
MSDS-BFURP Material Safety Data Sheet, Corrosion Preventative Compound, D5015	Hard copy	1	May 96	Onboard
MSDS-BFYJS Material Safety Data Sheet, Cleaning Compound, MIL-C-18718	Hard copy	1	May 96	Onboard
MSDS-BFZTM Material Safety Data Sheet, Acid, Acetic, O-C-275	Hard copy	1	May 96	Onboard

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

MSDS-BKHSN Material Safety Data Sheet, Adhesive, Epoxy, MIL-A-8623	Hard copy	1	May 96	Onboard
MSDS-BOQMV Material Safety Data Sheet, Acid, Boric, A73-500	Hard copy	1	May 96	Onboard
MSDS-BPYCT Material Safety Data Sheet, White Petrolatum, Vaseline	Hard copy	1	May 96	Onboard
MSDS-BTCKY Material Safety Data Sheet, Distilled Water, O-C-265	Hard copy	1	May 96	Onboard
NA 17-15BAD-1 Operation and Maintenance Instructions with Illustrated Parts Breakdown, Naval Aircraft Batteries	Hard copy	6	May 96	Onboard
NA 19-1-114 NBC1/NBC1A Alkaline Battery Charger/Analyzer	Hard copy	6	May 96	Onboard
NA 19-600-136-6-1 Preoperational Maintenance Requirements, NBC1/NBC1A Alkaline Battery Charger/Analyzer	Hard copy	6	May 96	Onboard
NA 19-600-136-6-2 Periodic Maintenance Requirements, NBC1/NBC1A Alkaline Battery Charger/Analyzer	Hard copy	6	May 96	Onboard
NAVFAC DM-28.4 General Maintenance Facilities	Hard copy	6	May 96	Onboard

**PART V - MPT MILESTONES**

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
PDA	Conducted Analysis of H-1 Upgrades Program MPT Requirements	Dec 95	Complete
PDA	Awarded BHTI H-1 Upgrades Program EMD Contract	FY96	Complete
PDA	Completed H-1 Upgrades Program Critical Design Review	Sep 98	Complete
TSA	Distributed Updated H-1 Upgrades NTSP for Review	Jan 01	Complete
OPTEVFOR	Began AH-1Z and UH-1Y Helicopter EMD/IT&E	FY01	Complete
TSA	Developed Proposed H-1 Upgrades NTSP	Oct 01	Complete
DAB	Approved H-1 Upgrades Program to enter into LRIP (Lot 1)	Oct 03	Complete
TSA	Develop Updated H-1 Upgrades Program (AH-1Z and UH-1Y) Draft NTSP	Mar 04	Complete
TSA	Distribute Draft NTSP for Review	FY04	Pending
OPTEVFOR	Begin H-1 Upgrades Program OT&E	FY04	Pending
TSA	Begin H-1 Upgrades Program Initial OT&E Training	FY04	Pending
DAB	Approve H-1 Upgrades Program to enter into LRIP (Lot 2)	FY04	Pending
TSA	Develop H-1 Upgrades Program Curriculum Materials	FY05	Pending
OPTEVFOR	Begin H-1 Upgrades Program FOT&E	FY05	Pending
DAB	Achieve Milestone III - Full-Rate Production	FY06	Pending
PDA	Achieve UH-1Y Helicopter IOC	FY08	Pending
TSA	Deliver H-1 Upgrades Program Training Devices to HMT-303	FY08	Pending
TSA	Achieve H-1 Upgrade Program HMT-303 and NAMTRA MARUNIT RFT	FY08	Pending
PDA	Achieve AH-1Z Helicopter IOC	FY09	Pending
PDA	Achieve H-1 Upgrades Program MSD	FY10	Pending
PDA	Achieve UH-1Y Helicopter FOC	FY12	Pending
PDA	Achieve H-1 Upgrades Program NSD	FY12	Pending
PDA	Achieve AH-1Z Helicopter Program FOC	FY15	Pending

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

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
No actions required			

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
<p><b>CAPT John Chase</b> Deputy Aviation Maintenance Programs CNO, N781 john.chase@navy.mil</p>	<p><b>COMM:</b> (703) 604-7747 <b>DSN:</b> 664-7747 <b>FAX:</b> (703) 604-6972</p>
<p><b>MAJ John Deluca, USMC</b> H-1 Upgrade Resource Sponsor CNO, N780B4 john.deluca@navy.mil</p>	<p><b>COMM:</b> (703) 614-2729 <b>DSN:</b> 224-2729 <b>FAX:</b> (703) 695-3066</p>
<p><b>LCDR Gregory S. Clark</b> Pilot Training Requirements CNO, N789F2 gregory.s.clark@navy.mil</p>	<p><b>COMM:</b> (703) 604-7766 <b>DSN:</b> 647-7766 <b>FAX:</b> (703) 604-6939</p>
<p><b>MSGT Kevin Thomas, USMC</b> Helicopter Maintenance Requirements CNO, N782B3C kevin.thomas@navy.mil</p>	<p><b>COMM:</b> (703) 604-7730 <b>DSN:</b> 664-7730 <b>FAX:</b> (703) 604-6393</p>
<p><b>MSGT James E. Bowling, USMC</b> Marine Enlisted Aircrew Training CNO, N782B7 james.bowling@navy.mil</p>	<p><b>COMM:</b> (703) 604-7723 <b>DSN:</b> 664-7723 <b>FAX:</b> (703) 604-6393</p>
<p><b>AZC Daniel Burlile</b> NTSP Manager CNO, N782B3A daniel.burlile@navy.mil</p>	<p><b>COMM:</b> (703) 604-7709 <b>DSN:</b> 664-7709 <b>FAX:</b> (703) 604-6972</p>
<p><b>LCDR Jim Arend</b> Aviation Manpower CNO, N122C1C james.arend@navy.mil</p>	<p><b>COMM:</b> (703) 695-3223 <b>DSN:</b> 225-3223 <b>FAX:</b> (703) 614-5308</p>
<p><b>CAPT Michael Disano</b> Professional Development Division Director CNO, N00T3 michael.disano@navy.mil</p>	<p><b>COMM:</b> (703) 602-5172 <b>DSN:</b> 332-5172 <b>FAX:</b> (703) 602-5175</p>
<p><b>Mr. Robert Zweibel</b> Human Performance and Acquisition Assessment Division CNO, N00T46 robert.zweibel@navy.mil</p>	<p><b>COMM:</b> (703) 602-5151 <b>DSN:</b> 322-5151 <b>FAX:</b> (703) 602-5175</p>
<p><b>MGYSGT Robert Neidner, USMC</b> Marine Corps Program Sponsor CMC, APW-53 neidnerm@hqmc.usmc.mil</p>	<p><b>COMM:</b> (703) 614-5521 <b>DSN:</b> 224-5521 <b>FAX:</b> (703) 614-1309</p>

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
<p><b>COL C. R. Spofford, USMC</b> Head, USMC Aviation Manpower Support Branch HQMC, ASM-1 spoffordcr@hqmc.usmc.mil</p>	<p><b>COMM:</b> (703) 693-9846 <b>DSN:</b> 223-9846 <b>FAX:</b> (703) 614-1309</p>
<p><b>MAJ John Gackle, USMC</b> USMC Aircraft Maintenance Officer CMC, ASL-33 gacklejo@hqmc.usmc.mil</p>	<p><b>COMM:</b> (703) 614-1187 <b>DSN:</b> 224-1187 <b>FAX:</b> (703) 697-7343</p>
<p><b>COL Douglas R. Isleib, USMC</b> H-1 Program Manager NAVAIR, PMA276 douglas.isleib@navy.mil</p>	<p><b>COMM:</b> (301) 757-5534 <b>DSN:</b> 757-5534 <b>FAX:</b> (301) 342-3965</p>
<p><b>Mr. Jay Stratakes</b> H-1 Deputy Program Manager NAVAIR, PMA276 james.strakes@navy.mil</p>	<p><b>COMM:</b> (301) 757-5528 <b>DSN:</b> 757-5528 <b>FAX:</b> (301) 342-3965</p>
<p><b>MAJ David Thompson, USMC</b> H-1 Fielded Systems IPT NAVAIR, PMA276D1.2 david.c.thompson1@navy.mil</p>	<p><b>COMM:</b> (301) 757-5493 <b>DSN:</b> 757-5493 <b>FAX:</b> (301) 757-5966</p>
<p><b>Mr. David Meiser</b> H-1 Systems Engineering Lead NAVAIR, PMA276 david.meiser@navy.mil</p>	<p><b>COMM:</b> (301) 757-5501 <b>DSN:</b> 757-5501 <b>FAX:</b> (301) 995-5966</p>
<p><b>MAJ Tom Post, USMC</b> H-1 Assistant Program Manager, Systems Engineering NAVAIR, AIR 4.1.1.2 thomas.post@navy.mil</p>	<p><b>COMM:</b> (301) 757-5490 <b>DSN:</b> 757-9490 <b>FAX:</b> (301) 757-5966</p>
<p><b>Mr. Barry Knouse</b> H-1 Avionics Systems Lead NAVAIR, AIR 4.5.1.2 barry.knouse@navy.mil</p>	<p><b>COMM:</b> (301) 995-4379 <b>DSN:</b> 995-4379 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mr. Daniel Christensen</b> H-1 Configuration Manager NAVAIR, AIR 1.1.3.0 daniel.christensen@navy.mil</p>	<p><b>COMM:</b> (301) 995-4516 <b>DSN:</b> 995-4516 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mark Eagles</b> H-1 Training Manager NAVAIR, PMA2057D mark.eagles@navy.mil</p>	<p><b>COMM:</b> (301) 995-4226 <b>DSN:</b> 995-4226 <b>FAX:</b> (301) 995-5966</p>

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
<p><b>Mr. Rob Aughinbaugh</b> H-1 Training Support NAVAIR, PMA276/205 rob.aughinbaugh@navy.mil</p>	<p><b>COMM:</b> (301) 995-4202 <b>DSN:</b> 995-4202 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mr. David Holtzem</b> H-1 Upgrades Training Support NAVAIR, PMA276/205 david.e.holtzem@navy.mil</p>	<p><b>COMM:</b> (301) 995-4227 <b>DSN:</b> 995-4227 <b>FAX:</b> (301) 995-5966</p>
<p><b>LTCOL Stephen C Meizosa, USMC</b> H-1 Assistant Program Manager, Logistics NAVAIR, PMA276 stephen.meizosa@navy.mil</p>	<p><b>COMM:</b> (301) 995-4377 <b>DSN:</b> 995-4377 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mrs. Kathy S. Lewis</b> H-1 Product Support Team Lead NAVAIR, AIR 3.1.2E kathy.lewis@navy.mil</p>	<p><b>COMM:</b> (301) 757-5518 <b>DSN:</b> 757-5518 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mr. David M. Lorentzen</b> H-1 Deputy Assistant Program Manager, Logistics (UH/HH-1N) NAVAIR, AIR 3.0.1 david.lorentzen@navy.mil</p>	<p><b>COMM:</b> (301) 757-5509 <b>DSN:</b> 757-5509 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mrs. Margelyn E. Massey</b> H-1 Deputy Assistant Program Manager, Logistics NAVAIR, PMA276 margelyn.massey@navy.mil</p>	<p><b>COMM:</b> (301) 995-422 ext. 3 <b>DSN:</b> 995-4223 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mr. Thomas Lynch</b> H-1 Deputy Assistant Program Manager, Logistics (H-1 Upgrades) NAVAIR, PMA276 thomas.lynch@navy.mil</p>	<p><b>COMM:</b> (301) 995-4227 <b>DSN:</b> 995-4227 <b>FAX:</b> (301) 995-5966</p>
<p><b>Mr. David Morris</b> Manpower Team NAVAIR, AIR 3.2.6 david.m.morris@navy.mil</p>	<p><b>COMM:</b> (301) 757-8313 <b>DSN:</b> 757-8313 <b>FAX:</b> (301) 342-7737</p>
<p><b>AECS Rob Gunther</b> Manpower Team NAVAIR, AIR 3.2.6 robert.gunther@navy.mil</p>	<p><b>COMM:</b> (301) 757-3089 <b>DSN:</b> 757-3089 <b>FAX:</b> (301) 342-7737</p>
<p><b>AEC Jody Malinich</b> Manpower Team NAVAIR, AIR 3.2.6 jody.malinich@navy.mil</p>	<p><b>COMM:</b> (301) 757-3108 <b>DSN:</b> 757-3108 <b>FAX:</b> (301) 342-7737</p>

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
<p><b>CAPT Jorge Sierra</b> Branch Head, Training Requirements and Assessments COMLANTFLT, N72 jorge.sierra@navy.mil</p>	<p><b>COMM:</b> (757) 836-6495 <b>DSN:</b> 836-6495 <b>FAX:</b> (757) 836-6794</p>
<p><b>CDR Mike Hohl</b> Aviation NTSP Point of Contact COMLANTFLT, N731 john.hohl@navy.mil</p>	<p><b>COMM:</b> (757) 836-0085 <b>DSN:</b> 836-0085 <b>FAX:</b> (757) 836-6737</p>
<p><b>Mr. Bob Long</b> Deputy Director for Training COMPACFLT, N70 robert.h.long@navy.mil</p>	<p><b>COMM:</b> (808) 471-8513 <b>DSN:</b> 471-8513 <b>FAX:</b> (808) 471-8596</p>
<p><b>ATC Keith Barbazon</b> Air Training Programs COMNAVRESFORCOM, N734 keith.barbazon@navy.mil</p>	<p><b>COMM:</b> (504) 678-1259 <b>DSN:</b> 678-1259 <b>FAX:</b> (504) 678-0134</p>
<p><b>CAPT Robert Holland</b> Deputy Assistant, Chief of Naval Personnel for Distribution NAVPERSCOM, PERS-4B robert.holland@navy.mil</p>	<p><b>COMM:</b> (901) 874-3532 <b>DSN:</b> 882-3532 <b>FAX:</b> (901) 874-2606</p>
<p><b>CDR David Nelson</b> Branch Head, Aviation Enlisted Assignments NAVPERSCOM, PERS-404 david.e.nelson2@navy.mil</p>	<p><b>COMM:</b> (901) 874-3691 <b>DSN:</b> 882-3691 <b>FAX:</b> (901) 874-2642</p>
<p><b>LTCOL Henry Domingue, USMC</b> Head, ACE Branch, TFS Division MCCDC, C5325A henry.domingue@nmci.usmc.mil</p>	<p><b>COMM:</b> (703) 784-6241 <b>DSN:</b> 278-6241 <b>FAX:</b> (703) 784-6072</p>
<p><b>MSGT Mark Crampton, USMC</b> USMC AMTCS Coordinator MCCDC, C4610 mark.crampton@usmc.mil</p>	<p><b>COMM:</b> (703) 784-3708 <b>DSN:</b> 278-3708 <b>FAX:</b> (703) 784-3729</p>
<p><b>GYSGT E. B. Carter, USMC</b> USMC MATMEP Coordinator MCCDC, C4610 eric.carter@usmc.mil</p>	<p><b>COMM:</b> (703) 784-2839 <b>DSN:</b> 278-2839 <b>FAX:</b> (703) 784-3729</p>
<p><b>MSGT Anthony B. Rahatt, USMC</b> USMC CBT Coordinator MCCDC, C4610 rahatta@tecom.usmc.mil</p>	<p><b>COMM:</b> (703) 784-6879 <b>DSN:</b> 278-6879 <b>FAX:</b> (703) 784-3729</p>

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NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

TELEPHONE NUMBERS

**Mr. Charles Brown**  
Assistant ACE Branch Head  
MCCDC, C5325B  
charles.brown@nmci.usmc.mil

**COMM:** (703) 784-6257  
**DSN:** 278-6257  
**FAX:** (703) 784-6072

**CDR Rose Wynne**  
Aviation Department Head  
NAVMAC, 30  
rosemary.wynne@navy.mil

**COMM:** (901) 874-6218  
**DSN:** 882-6218  
**FAX:** (901) 874-6471

**Ms. Susan Webb**  
NTSP Coordinator  
NAVMAC, 30  
susan.webb@navy.mil

**COMM:** (901) 874-6242  
**DSN:** 882-6242  
**FAX:** (901) 874-6471

**Mr. Brett Hollowell**  
NETC/NPDC NTSP Coordinator  
NPDC, N7  
brett.hollowell1@navy.mil

**COMM:** (757) 444-2269 ext. 3225  
**DSN:** 564-2269 ext. 3225  
**FAX:** (757) 445-8082

**Mr. Steve Berk**  
NTSP Distribution  
NETC, ETS-23  
stephen.berk@navy.mil

**COMM:** (850) 452-8919  
**DSN:** 922-8919  
**FAX:** (850) 452-4853

**MAJ Robert J. Turpin, USMC**  
Marine Integration Team Leader  
CNATT, N55  
robert.turpin@navy.mil

**COMM:** (850) 452-9790 ext. 135  
**DSN:** 922-9790 ext. 135  
**FAX:** (850) 452-3262

**ATCS Royce McKie**  
PQS Development Group Production Officer  
NETPDTC, N741  
royce.a.mckie@navy.mil

**COMM:** (850) 452-1001 ext. 2238  
**DSN:** 922-1001 ext. 2238  
**FAX:** (850) 452-1764

**ITCS Wayne Killingsworth**  
PQS Development Group LCPO  
NETPDTC, N741  
joseph.killingsworth@navy.mil

**COMM:** (850) 452-1001 ext. 2030  
**DSN:** 922-1001 ext. 2030  
**FAX:** (850) 452-1764

**LT Michael Corrigan**  
NTSP Manager  
COMOPTEVFOR, 533  
corriganm@navy.mil

**COMM:** (804) 444-5087 ext. 3354  
**DSN:** 564-5087 ext. 3354  
**FAX:** (804) 444-3820

**Mr. Phil Szczyglowski**  
Manpower and NTSP Branch Head  
NAVAIR, AIR 3.2.6  
phillip.szczyglowski@navy.mil

**COMM:** (301) 757-8280  
**DSN:** 757-8280  
**FAX:** (301) 342-7737

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

TELEPHONE NUMBERS

**Mr. Bob Kresge**  
NTSP Manager  
NAVAIR, AIR 3.2.6  
robert.kresge@navy.mil

**COMM:** (301) 757-1844  
**DSN:** 757-1844  
**FAX:** (301) 342-7737

**ATC Jeff Rocheteau**  
NTSP Coordinator  
NAVAIR, AIR 3.2.6  
robert.rocheteau@navy.mil

**COMM:** (301) 757-8292  
**DSN:** 757-8292  
**FAX:** (301) 342-7737

**AMC Jim Sirigos**  
NTSP Coordinator  
NAVAIR, AIR 3.2.6  
james.sirigos@navy.mil

**COMM:** (301) 757-3103  
**DSN:** 757-3103  
**FAX:** (301) 342-7737