JOINT TRAINING SYSTEM PLAN

FOR THE

V-22 OSPREY

N88-NTSP-A-50-8412D/D

NOVEMBER 2000

V-22 OSPREY

EXECUTIVE SUMMARY

This Joint Training System Plan (JTSP) has been developed to identify all services (Marine Corps, Air Force, and Navy) life cycle manpower, personnel, and training requirements for the V-22 Osprey Aircraft. The CV-22 System Training Plan is the Air Force Special Operations Command planning document that serves as a companion to this JTSP, providing Air Force-specific information regarding the management of the CV-22 training system. This document is based upon Program Objectives Memorandum (POM) 02 (post Quality Deficiency Report (QDR) 97) program profile – procuring 360 MV-22 Aircraft and 50 CV-22 Aircraft at a peak production rate of 30 MV and nine CV aircraft per year.

This JTSP contains all of the components included in a Navy Training Systems Plan (NTSP). As such, this JTSP can be considered a complete NTSP for the Marine Corps MV-22 and future Navy HV-22 aircraft. The Office of Primary Responsibility (OPR) for the JTSP is Office of the Chief of Naval Operations (OPNAV), Code N789.

The V-22 Osprey Program is a Department of the Navy program responsible for developing, testing, evaluating, procuring, and fielding a tilt-rotor, Vertical Takeoff and Landing (VTOL) Aircraft for Joint Service application. The V-22 will provide the Navy, Air Force, and Marine Corps with a multi-engine, dual-piloted, self-deployable, medium lift, VTOL Aircraft to be used to conduct combat, combat support, combat service support, and special operations missions worldwide. The CV-22 is in the Engineering and Manufacturing Development phase of the weapon system acquisition process, while the MV-22 is in Low Rate Initial Production which is in the Production and Deployment phase of the Weapon System Acquisition Process. The V-22 will achieve Initial Operational Capability in Fiscal Year 2001. Marine Corps MV-22 manpower for this document came from Tables of Organization (T/O) 8595 for Marine Medium Tilt-Rotor Training Squadron (VMMT)-204 and T/O 8920 for Marine Medium Tilt-Rotor Squadron (VMM) Squadrons.

The V-22 Program is tasked to provide an aircraft to accomplish the Marine Corps' amphibious and vertical assault missions, the Navy's fleet combat support and strike rescue missions, and the United States Special Operations Command (USSOCOM) long-range Special Operations Force (SOF) support missions. The V-22 will replace the CH-46E and CH-53D helicopters in the Marine Corps, augment and replace yet to be determined aircraft in the Navy, replace USSOCOM's MH-53J and MH-60G Helicopters, and reduce dependence on USSOCOM's MC-130E/H fleet. The V-22 will be capable of flying over 2100 nautical miles with one aerial refueling, giving the Services the advantage of a Vertical/Short Takeoff and Landing Aircraft that can rapidly self-deploy to any location in the world.

V-22 OSPREY

The Marine Corps Initial Operational Capability (IOC) is scheduled for FY01. The Air Force IOC is scheduled for FY05. The Navy IOC is yet to be determined.

Maintenance concepts for the V-22 Program will be based on the Navy and Marine Corp's maintenance policies, which will be modified for each service application. The Navy and Marine Corps will use the Naval Aviation Maintenance Program, OPNAV Instruction 4790.2 series, which details a three-level maintenance concept, organizational, intermediate, and depot. Interim contractor maintenance support is planned until military organic support capability is reached by the various services.

Initial training for Developmental Test, Operational Test, and Multi-Service Operational Test Team personnel is completed. Initial training for instructor and fleet cadre personnel is ongoing at Marine Corps Air Station (MCAS) New River, North Carolina. Service and mission-unique training will be developed to support each service's unique mission requirements. VMMT-204, MCAS New River, is designated the Fleet Readiness Squadron for V-22 Aircrew training; and the Fleet Replacement Enlisted Skills Training, in conjunction with the Maintenance Training Unit, is designated Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Osprey, for maintenance training. Air Force V-22 maintenance training will be provided at NAMTRAGRU DET Osprey, MCAS New River. A CV-22 school within the 58 Special Operations Wing at Kirtland Air Force Base, Albuquerque, New Mexico, will provide SOF peculiar Aircrew training. A Memorandum of Agreement exists between the Services on training details, exact relationships, responsibilities, training, and concepts of support.

Details on the Navy's HV-22 program are not available and are not addressed in this JTSP. As the information becomes available it will be included in updates to this JTSP.

V-22 OSPREY

TABLE OF CONTENTS

V-22 OSPREY

TABLE OF CONTENTS

LIST OF TABLES

V-22 OSPREY

LIST OF ACRONYMS

ACDU	Active Duty
AETC	Air Education and Training Command
AFB	Air Force Base
AFSC	Air Force Specialty Code
AFSOC	Air Force Special Operations Command
AFSOCI	Air Force Special Operations Command Instruction
AFTMS	Air Force Training Management Systems
AMEGS	Aircraft Maintenance Event Ground Station
AMTCS	Aviation Maintenance Training Continuum System
AOB	Average Onboard
AQQU	Air Staff Acquisition
AR	Active Reserve
ATIR	Annual Training Input Requirement
BIT	Built-In Test
CAI	Computer Aided Instruction
CANTRAC	Catalog of Navy Training Courses
CASS	Consolidated Automated Support System
CCS	Contractor Curriculum Support
CFE	Contractor Furnished Equipment
CFY	Current Fiscal Year
CIN	Course Identification Number
CM	Corrective Maintenance
CMC	Commandant of the Marine Corps
CMT	Composite Maintenance Trainer
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMNAVAIRPAC	Commander Naval Air Forces Pacific
COMOPTEVFOR	Commander Operational Test and Evaluation Force
CPT	Cockpit Procedures Trainer
CPTT	Cabin Part Task Trainer
CSAR	Combat Search and Rescue
CSI	Contractor Simulator Instructors
DoN	Department of the Navy
DOT	Director Of Training
DT	Developmental Test

V-22 OSPREY

LIST OF ACRONYMS

DT&E	Developmental Test and Evaluation
ECM	Electronic Countermeasures
EMD	Engineering and Manufacturing Development
ETS	Engineering and Technical Services
EUCOM	Europe Command
FAA	Federal Aviation Administration
FFS	Full Flight Simulator
FLIR	Forward Looking Infrared
FMS	Foreign Military Sales
FPT	Fleet Project Team
FREST	Fleet Replacement Enlisted Skills Training
FRS	Fleet Readiness Squadron
FTD	Flight Training Device
FY	Fiscal Year
GFE	Government Furnished Equipment
GPETE	General Purpose Electronic Test Equipment
GPTE	General Purpose Test Equipment
GSD	Government Support Date
HMX	Marine Experimental Helicopter Squadron
HQ	Headquarters
ICW	Interactive Courseware
IETM	Interactive Electronic Technical Manual
IMI	Interactive Multimedia Instruction
IOC	Initial Operational Capability
IOT&E	Initial Operational Test and Evaluation
IPB	Illustrated Parts Breakdown
ITRO	Inter-service Training Review Organization
ITSS	Individual Training Standards System
JALSP	Joint Acquisition Logistics Support Plan
JORD	Joint Operational Requirements Document
JTSP	Joint Training System Plan

V-22 OSPREY

LIST OF ACRONYMS

LHA	Amphibious Assault Ship (General Purpose)
LHD	Amphibious Assault Ship (Multi Purpose)
LRIP	Low Rate Initial Production
LSA	Logistics Support Analysis
MAG	Marine Aircraft Group
MATMEP	Maintenance Aviation Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MER	Manpower Estimate Report
MIM	Maintenance Instruction Manual
MMH/FH	Maintenance Man-Hours per Flight Hour
MOS	Military Occupational Specialty
MOTT	Multi-Service Operational Test Team
MRC	Maintenance Requirement Cards
MSD	Material Support Date
MSP	Material Support Package
MTIP	Maintenance Training Improvement Program
MTSS	Mission Training Support System
MTU	Maintenance Training Unit
NA	Not Applicable
NALCOMIS	Naval Aviation Logistics Command Management Information System
NAMP	Naval Aviation Maintenance Program
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NATOPS	Naval Air Training and Operating Procedures Standardization
NAVAIRSYSCOM	Naval Air Systems Command
NAVAVNDEPOT	Naval Aviation Depot
NAVPERSCOM	Naval Personnel Command
NAWCAD	Naval Air Warfare Center Aircraft Division
NEC	Navy Enlisted Classification
NTSP	Navy Training System Plan
NVG	Night Vision Goggles
OATMS	OPNAV Aviation Training Management System
OFT	Operational Flight Trainer
OJT	On-the-Job Training

V-22 OSPREY

LIST OF ACRONYMS

OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
OPR	Office of Primary Responsibility
OT	Operational Test
OT&E	Operational Test and Evaluation
PAA	Primary Aircraft Authorization
PACOM	Pacific Command
PFY	Previous Fiscal Year
PM	Preventive Maintenance
PMA	Program Manager, Air
PMOS	Primary Military Occupational Specialty
PNEC	Primary Navy Enlisted Classification
POM	Program Objectives Memorandum
PSE	Peculiar Support Equipment
PTT	Part Task Trainer
QDR	Quality Deficiency Report
RFT	Ready For Training
SAF	Secretary of the Air Force
SELRES	Selected Reserve
SMOS	Secondary Military Occupational Specialty
SNEC	Secondary Navy Enlisted Classification
SOAL-FW	Special Operations Acquisition and Logistics - Fixed Wing
SOCOM	Special Operations Command
SOF	Special Operations Forces
SOW	Special Operations Wing
SPETE	Special Electronic Test Equipment
SPTE	Special Test Equipment
SRA	Shop Replaceable Assembly
ST	Special Tool
STP	System Training Plan
TAR	Training and Administration of Reserves
TBD	To Be Determined

V-22 OSPREY

LIST OF ACRONYMS

TD	Training Device
TFS	Total Force Structure
T/O	Table of Organization
TTE	Technical Training Equipment
UIC	Unit Identification Code
USAF	United States Air Force
USMC	United States Marine Corps
USN	United States Navy
USSOCOM	United States Special Operations Command
VMM	Marine Medium Tilt-Rotor Squadron
VMMT	Marine Medium Tilt-Rotor Training Squadron
VMPS	V-22 Mission Planning System
VMTS	V-22 Maintenance Trainer Suite
WRA	Weapon Replaceable Assembly
WSPD	Weapon System Planning Document
XPM	Plans and Programs - Manpower

V-22 OSPREY

PREFACE

This Draft Joint Training System Plan (JTSP) supersedes the Approved Joint Training System Plan, A-50-8412D/A, dated August 1999. It has been updated to comply with guidelines set forth in the Navy Training Requirements Documentation Manual and was developed in accordance with the Office of the Chief of Naval Operations Instruction (OPNAVINST) 1500.76 to identify Manpower, Personnel, and Training requirements.

The JTSP provides a summary of resources and processes planned to successfully train personnel to operate and support the V-22 Osprey weapon system. It is a living document, subject to multiple revisions as the V-22 program evolves. Separate requirements documents such as the Joint Operational Requirements Document (JORD), Weapon System Planning Document (WSPD), and other force planning documents provide the controlling authority for the information summarized here. Changes to these documents will necessitate changes to this JTSP. Successive updates and revisions to this JTSP represent a meaningful planning exercise for the successful fielding of the V-22 Osprey. Details on the Navy's HV-22 program are not available and are not addressed in this JTSP. Navy information will be included in this JTSP as it becomes available.

Core components of this JTSP, when combined with the United States Air Force (USAF) CV-22 System Training Plan (STP), provide necessary training planning for the Air Force CV-22 Aircraft. The Office of Primary Responsibility (OPR) for the CV-22 STP is Air Force Special Operations Command/Director of Training (AFSOC/DOT). Specific changes to this JTSP are as follows:

Maintenance Training Unit (MTU) 1035, in conjunction with the Fleet Replacement Enlisted Skills Training (FREST), a companion to the Fleet Readiness Squadron (FRS) Marine Medium Tilt-rotor Training Squadron (VMMT)-204 (from here on to be referred to as Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Osprey), will be the model manager and training site for inter-service training at Marine Corps Air Station (MCAS) New River, North Carolina. "A" School Core and Strand training requirements for the United States Marine Corps (USMC) and skills training requirements for the USAF have been identified. Follow-on maintenance training is being taught as validation training to Instructors and Initial Cadre personnel.

An updated description of Full Flight Simulator (FFS) and Flight Training Device (FTD) simulator acquisitions is included in this JTSP.

Parts II and III of this JTSP have been updated to reflect the most current manpower and training requirements indicated in the latest V-22 USMC Tables of Organization (T/Os), USAF

student throughput requirements, and newly established maintenance training courses. Part VII has been updated to reflect the current V-22 Osprey Program points of contact.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** V-22 Osprey

2. **Program Elements**

Department of the Navy (DoN)	64262N
United States Air Force (USAF)	41318
United States Special Operations Command (USSOCOM)	116404

B. SECURITY CLASSIFICATION. Classification of V-22 characteristics, performance, capabilities, systems, and subsystem equipment is defined in the MV-22 Security Classification Guide, dated 16 June 98. This JTSP is Unclassified.

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

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor	CNO (N780) SAF/AQQU HQ SOCOM SOAL-FW
OPO Resource Sponsor	CNO (N789)
Marine Corps Program Sponsor	CMC (APW-52)
Developing Agency	NAVAIRSYSCOM (PMA275)
Training Agency	MCCDC (C53) CNET HQ USAF HQ AETC HQ AFSOC
Training Support Agency	NAVAIRSYSCOM (PMA205)

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)
CMC (ASM)
HQ AETC/XPM
HQ AFSOC/XPM

Director of Naval Training ..... CNO (N79)

Marine Corps Force Structure..... MCCDC (C-53, CMC, ASM-1)

D. SYSTEM DESCRIPTION

1. Operational Uses. The V-22 Osprey Program consists of a Joint Multi-Mission Vertical Lift Aircraft that provides the USMC, Headquarters USSOCOM, USAF, and the United States Navy (USN) with a multi-engine, dual-piloted, self-deployable, medium lift, Vertical Take-Off and Landing Aircraft to be used to conduct combat, combat support, combat service support, and special operations missions worldwide. Missions include, but are not limited to, amphibious assault, land assault, raid operations, medium cargo lift, Combat Search and Rescue (CSAR), and Special Operations Force (SOF) support. The aircraft include MV-22 for the USMC, CV-22 for USSOCOM, and HV-22 for the USN. These V-22 Aircraft are capable of conducting operations in adverse weather, during daylight hours or at night, in climates from arctic to tropical from aviation and air capable ships (primary operating and support sea bases are Amphibious Assault (General Purpose) (LHA) and Amphibious Assault (Multi Purpose) (LHD) class ships). The aircraft are also capable of operating from improved and austere landing sites ashore and in a variety of conventional, unconventional, and contingency combat situations including Chemical, Biological, and Radiological warfare conditions. An air refueling capability will extend the aircraft's combat mission range when required, and it will be self-supporting to the maximum extent possible.

2. Foreign Military Sales. Currently, there are no Foreign Military Sales (FMS) programs established. FMS will be addressed as required and incorporated into future updates to this JTSP.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. MV-22 Developmental Test and Evaluation (DT&E) was conducted and managed by the Rotary Wing Test Directorate, Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, Maryland, using an Integrated Test Team comprised of Bell-Boeing and Government personnel. MV-22 Operational Test and Evaluation (OT&E) was conducted by Marine Helicopter Squadron One (HMX-1) Multi-Service Operational Test Team (MOTT) and monitored by the Commander, Operational Test and Evaluation Force (COMOPTEVFOR), Norfolk, Virginia. The MOTT consisted of selected Aircrew and engineering personnel from the Marine Corps and Air Force who received V-22 factory training. MV-22 DT&E and OT&E were successfully completed in May 2000. CV-22 DT&E and OT&E are scheduled to be performed at Edwards Air Force Base (AFB), Lancaster, California, and other AFBs.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The V-22 will replace the CH-46E and CH-53A/D helicopters in the Marine Corps, replace USSOCOM's MH-53J and MH-60G helicopters, and supplement USSOCOM's MC-130E/H fleet. CSAR requirements of the USN by the HV-22 variant will replace an as yet To Be Determined (TBD) aircraft.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The V-22 is a dual-piloted, twin engine, medium-lift, tilt-rotor aircraft that combines the speed, range, and fuel efficiency of a turboprop aircraft with the slow flight and hover capabilities of a helicopter. Its design incorporates advanced, but mature technologies in composite materials, fly-by-wire flight controls, digital cockpits, survivability, airfoil design, and manufacturing.

The V-22 fuselage has a number of advanced composite structures. A rear loading ramp has been incorporated, which when closed, comprises the lower portion of the aft fuselage section. There is one side-entry personnel door.

The V-22 power plant (designated AE-1107C) and related systems, auxiliary internal fuel capacity, and an aerial refueling capability give the V-22 the ability to self-deploy worldwide. Changes necessary to convert the basic assault troop transport configuration for other missions will be simple and easily accomplished by organizational level maintenance personnel in field and shipboard environments.

2. Physical Description. The MV-22B configuration aircraft serves as the baseline design. The CV-22 configuration will include additional wing fuel tanks, a Terrain Following/Terrain Avoidance radar, and enhanced avionics packages to satisfy SOF specific mission requirements.

V-22 AIRCRAFT PHYSICAL CHARACTERISTICS

Weight (in pounds)	33,140 (Empty)
	60,500 (Maximum Take-Off)
Length	57 feet 4 inches
Height.....	22 feet 1 inch
Fuselage Width	15 feet 3 inches
Total Tilt-rotor Span.....	84 feet 7 inches
Individual Tilt-rotor Diameter	38 feet 1 inch

3. New Development Introduction. The V-22 Osprey will be introduced as new production aircraft to replace designated aircraft at existing operating activities.

The Marine Corps will employ a phased strategy for the transition of the Marine Corps Medium Lift fleet to the MV-22 aircraft. Twenty-two CH-46E/CH-53D squadrons will transition to the MV-22 aircraft (18 active and four Reserve). Upon transition, each squadron will maintain

an aircraft inventory (Primary Aircraft Authorization (PAA)) of 12 aircraft. The estimated time-to-train for a squadron transitioning to the MV-22 aircraft is approximately 24-30 months (Stand-Down, Transition, Post-Transition, and Pre-Deployment Training).

4. Significant Interfaces. Not Applicable (NA)

5. New Features, Configurations, or Material. The V-22 is the first tilt-rotor aircraft to be fielded in the military. It is a hybrid aircraft, combining selected capabilities of an airplane and a helicopter. The Federal Aviation Administration (FAA) has classified tilt-rotors as powered lift aircraft, neither airplane nor rotorcraft. The V-22 uses many unique items to achieve its configuration and capability. The airframe incorporates new materials and structural designs. Advanced avionics provide mission enhancement while new wiring technologies increase reliability and reduce weight. New hydraulic technology is also applied. Redundant digital systems such as fly-by-wire flight controls are used in lieu of traditional hybrid redundancies. New processes are applied in the operation and maintenance of the V-22. Examples include the V-22 Mission Planning System (VMPS) used by the Aircrew before flight to plan a mission and then to perform preflight mission computations to ensure mission feasibility and conformance to approved flight envelopes. The VMPS also provides postflight mission analysis capabilities to compare the mission planned with the actual mission flown. Another example is the Aircraft Maintenance Event Ground Station (AMEGS) used between flights to automatically identify defects and conduct trend analysis to predict future maintenance actions.

H. CONCEPTS

1. Operational Concept. The V-22 aircraft is manned by a Pilot, Copilot, and enlisted Aircrew appropriate for the specific service and type of mission being flown. The V-22 is optimized to transport troops (i.e., 24 combat-equipped Marines) or 10,000 pounds of external cargo to austere landing sites from aviation capable amphibious ships and expeditionary forward operating bases ashore.

2. Maintenance Concept. The maintenance concept for the V-22 is based on a Logistics Support Analysis (LSA) of the aircraft's maintainability, life cycle cost, maintenance engineering, and logistics support requirements. The Naval Aviation Maintenance Program (NAMP), OPNAVINST 4790.2 series, and Air Force Special Operations Command Instruction (AFSOCI) 21-106 provide general guidance regarding the various services' maintenance concepts. For the Navy and Marine Corps, the NAMP details three levels of maintenance (organizational, intermediate, and depot) and provides an organizational structure to collect supporting data.

The Air Force will use a two-level (organizational and depot) maintenance concept for avionics and engines. The remaining systems will be maintained through three levels of maintenance. During DT&E, maintenance and logistics support is the responsibility of the contractor, Bell-Boeing. During OT&E, organizational maintenance will be performed by factory trained personnel from the MOTT. The contractor will provide intermediate maintenance support for DT&E and OT&E.

a. Organizational. Operating units normally perform organizational level maintenance actions on a day-to-day basis in support of their own mission. These actions are generally classified as Preventive Maintenance (PM) and Corrective Maintenance (CM). The AE-1107C engine will be maintained under a commercial two-level maintenance concept where the contractor (Allison Engine, part of Rolls-Royce) provides for all aircraft maintenance beyond the organizational level at Rolls-Royce repair centers. The Navy, Marine Corps, and Air Force will only be responsible for performing AE-1107C engine organizational level maintenance.

(1) Preventive Maintenance. PM consists of periodic prescribed inspections and servicing of the aircraft, systems, and subsystems as detailed in the aircraft's Maintenance Requirement Cards and Maintenance Plan.

(2) Corrective Maintenance. CM is performed by organizational level maintenance personnel using Built-In Test (BIT), Peculiar Support Equipment (PSE), and Common Support Equipment (CSE) to fault isolate defective Weapon Replaceable Assemblies (WRA) and Line Replaceable Units. CM includes repairs to powerplants, airframes, aircraft wiring, and connectors. Defective WRAs are forwarded to the Intermediate Maintenance Activity for repair.

b. Intermediate. Intermediate level maintenance actions are those performed in support of user activities that are beyond the capabilities of organizational level maintenance. These actions include test, repair, calibration, and modification of aeronautical equipment, repair and calibration of support equipment, and disposition of assets from stricken aircraft. Intermediate level maintenance will be performed to verify faulty WRAs and isolate to a faulty Shop Replaceable Assembly (SRA), or component, using the appropriate test equipment. The faulty SRA will be removed, repaired, and replaced, and WRA performance verified by the appropriate test equipment. Depending on the system involved, the Air Force will perform some of these maintenance tasks at the organizational or depot level to support the two-level maintenance concept.

c. Depot. Depot level maintenance actions normally require repair, major overhaul, or a complete rebuilding, manufacture, or modification of parts, assemblies, sub-assemblies, and end items beyond the capabilities of intermediate level maintenance. Naval Aviation Depot (NAVAVNDEPOT) MCAS Cherry Point, North Carolina, is planned to be the depot repair site for all Marine Corps and Air Force V-22 aircraft (less engines). Rolls-Royce will perform depot level maintenance for the engines.

d. Interim Maintenance

(1) Phased Support Concept. Maintenance responsibility under the phased support concept is a joint services-contractor effort until the V-22 systems demonstrate the level of reliability required for complete organic support. Early organic capability will be established for systems demonstrating acceptable reliability, maintainability, and supportability. This concept will be in effect until the full Material Support Date (MSD) of June 2004 is achieved. The Organic Support Dates for the Marine Corps and Air Force are TBD.

(2) Sources of Technical Support. The Marine Corps will have crash damage depot repair capabilities at NAVAVNDEPOT, MCAS Cherry Point. The planned Government Support Date (GSD) for the V-22 is 2005. Engineering and Technical Services (ETS) will provide all required technical assistance until the GSD. ETS will also provide required technical assistance for the Air Force.

e. Life Cycle Maintenance Plan. The V-22 has a minimum service life of 20 years and contains diagnostics using automatic, semi-automatic, and manual means. It is the first military aircraft to use the AMEGS. AMEGS is a maintenance data system that uses downloaded data from a data storage system in the aircraft as input to the Naval Aviation Logistics Command Management Information System (NALCOMIS) and the Core Automated Maintenance System for the purpose of immediate identification and assessment of aircraft discrepancies. The intent of the V-22 AMEGS software is to generate an evaluation of an aircraft's postflight or post-ground run operational status for the identification of necessary maintenance actions in line with the on-condition maintenance philosophy. The V-22 AMEGS application may be utilized as a stand-alone software application or as an interfaced client, on the Navy's NALCOMIS and Air Force networks. AMEGS is government furnished and will be assessed for workability and reliability from the standpoint of the V-22 Weapon System. AMEGS capabilities and requirements along with its planned integration with NALCOMIS Phase III will be evaluated.

3. Manning Concept. Navy and Marine Corps qualitative and quantitative manpower requirements for the operation and support of the V-22 weapon system were developed using LSA under an Engineering and Manufacturing Development (EMD) contract per Chapter 4 of ILS-DS-30A-202, Revision C. Maintenance manpower requirements were generated by the contractor using LSA data and Maintenance and Material Management data from comparable aircraft systems (CH-46E Aircraft). Particular JORD requirements for the V-22 include specific manpower structure to operate and maintain the aircraft over a period of time in a developed workload mode. T/Os have been developed for the MV-22 based on a 12 aircraft operating squadron and one 40 aircraft training squadron (VMMT-204). For detailed information on Marine Corps manpower, refer to Element II.A.1.b of this JTSP.

The Air Force manpower requirements will also be derived using the LSA during EMD. Air Force requirements will be based on target labor analysis and target labor hours per flying hour. Standard Air Force skills (levels 9, 7, 5, and 3) will be used. The aircraft will be operationally maintained by level three and five personnel. For information concerning Air Force manpower requirements, refer to the V-22 Manpower Estimate Report (MER) dated 22 September 2000.

Note: Manpower requirements for the Navy are still in the planning stages. Information concerning the requirements for the development of squadron manpower documents and newly established Navy Enlisted Classifications (NECs) will be included in this JTSP when it becomes available.

a. Aircrew Planning Factors. Marine Corps Aircrew manpower requirements were developed per OPNAVINST 5310.21 and are based on the number of aircraft, flight hours

per aircraft per month, seat factors, and crew ratios. USAF manpower requirements were provided by the Air Force Personnel Center. Table I-1 provides a summary of Aircrew configurations, manning factors, and their applicable Military Occupational Specialties (MOS) and Air Force Specialty Codes (AFSC). Table I-2 provides projected aircraft utilization rates.

TABLE I-1. AIRCREW CONFIGURATIONS AND MANNING FACTORS

POSITION	MOS/AFSC	CREW RATIO	SEAT FACTOR
Marine Corps:			
Pilot	7532	1.2	1
Copilot	7532	1.2	1
Crew chief	6176	1.6	1
Air Force:			
Pilot	11SYX	2.0	1
Copilot	11SYX	2.0	1
Flight Engineer	1A1X1B	2.0	2

TABLE I-2. PROJECTED AIRCRAFT UTILIZATION

ACTIVITY	AIRCRAFT PER ACTIVITY	AVERAGE SORTIE LENGTH
MV-22 (USMC)	12	3.0
CV-22 (USAF)	7	5.0
VMMT-204	40	2.0

b. Maintenance Manpower Planning Factors. Marine Corps maintenance manpower requirements are based on the total Maintenance Man-Hours per Flight Hour (MMH/FH), number of maintenance working shifts, and standard workweek calculations for a deployed-duty activity. Refer to the CV-22 System Training Plan (STP) for Air Force manpower planning factors. Tables I-3 and I-4 show organizational and intermediate MOSs and the USAF AFSCs by work center.

TABLE I-3. ESTIMATED ORGANIZATIONAL MAINTENANCE

WORK CENTER	MOS	AFSC	MMH/FH**
110	6116*	2A6X1B, 2A6X4	3.99
12A	6156	2A7X3, 2A7X1	1.60

WORK CENTER	MOS	AFSC	MMH/FH**
12B	6156	2A6X5	0.85
12C	6156	2A7X2	0.56
13A	6060	2A7X4	0.02
13B	6086	1T1X1, 2A6X6	0.38
210	6326	2A3X2	0.52
220	6326	2A6X6	1.28
230	6531	2W1X1	0.26
310	6072, 6176	2A5X2	1.26
		Total MMH/FH	**10.72**

* USMC Tilt Rotor Mechanics (MOS 6116) are normally assigned to Work Center 310, but are shown here in Work Center 110 for clarity in tracking training.

** MMH/FH is based on an early sampling of information and is subject to change as new information becomes available.

TABLE I-4. ESTIMATED INTERMEDIATE MAINTENANCE

WORK CENTER	MOS	AFSC*	MMH/FH**
410	6126*		0.38
440	6132		1.00
510	6092		0.43
520	6094		0.72
530	6092, 6044		0.02
610	6413	2A1X0	0.99
620	6433		1.24
640	6483		0.86
810	6060		0.06

* The Air Force does not have specific AFSCs for intermediate level maintenance.

** MMH/FH is based on an early sampling of information and is subject to change as new information becomes available.

c. Enlisted Maintenance Instructor Manpower Requirements. Enlisted maintenance Instructor requirements for VMMT-204 FREST at the organizational level were based on the methodology contained in the Inter-service Training Review Organization (ITRO). Enlisted Instructor requirements are listed as part of VMMT-204 manpower and taken from T/O 8595, dated February 2000.

Air Force Instructor requirements were calculated by the ITRO methodology at MCAS New River. Table I-5 depicts a list of Air Force Instructor AFSCs. These AFSCs are pending approval and are included in the Air Force CV-22 STP.

TABLE I-5. USAF INSTRUCTOR REQUIREMENTS

AFSC	TITLE
2A6X1B	Aerospace, Turboprop, and Turboshaft Propulsion (Engines)
1A1X1B	Loadmaster
2A6X5	Aircraft Pneudraulics
2A3X2 / 2A3X2B	Avionics Systems, Instrument and Flight Control Systems, Communication, Navigation, and Penetration Aids Systems [O-level Electronic Countermeasures (ECM)] Aircraft Instrument and Guidance Systems
2A5X2	Crew Chief
2A6X6	Aircraft Electrical and Environmental Systems

d. Fleet Project Team. A Fleet Project Team (FPT) has been established to assist and advise in the development of the operator and maintainer training systems. The FPT is composed of knowledgeable representatives from user and non-user activities consisting of DoN, USAF, and USMC qualified military and civilian personnel per OPNAVINST 5000.50A and the CV-22 STP.

4. Training Concept. The contractor, Bell-Boeing, has developed a training program using the MV-22B as the baseline. Training courses have been designed in modules to provide the opportunity to select which courses, or portions of courses, best meet training requirements (based upon service unique missions, student entry levels, prior experience, etc.). Service-unique training not included in the modular "core" training will be developed at a later date to fulfill those requirements. V-22 training for the Selected Reserve (SELRES) is undetermined. As SELRES training requirements are identified, they will be included in updates to this JTSP.

The Marine Corps plans to implement a Mission Training Support System (MTSS) to provide follow-on support for the V-22 operator and maintenance training program. All functions of simulator support (simulator and academic instruction, maintenance and operation, curriculum and supply support, and auxiliary management) will be integrated into one contract. Under this concept, the contractor will be responsible for:

- **Contractor Operation and Maintenance of Simulators.** Contractor Operation and Maintenance of Simulators will ensure all V-22 primary Training Devices (TDs) are maintained and operationally available 16 hours per day, five days per week, 50 weeks per year. These TDs include the Operational Flight Trainer (OFT), Cockpit Procedures Trainer (CPT), V-22 Maintenance Trainer Suite (VMTS), Full Flight Simulator (FFS), and the Flight Training Device (FTD).

- **Contractor Simulator Instruction.** Contractor Simulator Instruction is being performed at VMMT-204 FRS, MCAS New River. This requirement for instruction began with the training of the VMMT-204 Instructor Pilot cadre. Contractor Simulator Instructors (CSI) provide simulator instruction in the OFT, Cabin Part Task Trainer (CPTT), VMTS, and FTD. This training began in June 1999, upon acceptance of the V-22 OFT/CPT update program (converting devices from MV-22A to MV-22B configuration) at MCAS New River. The CSIs conduct briefings, debriefings, and syllabus flights, and evaluate Pilot performance. Once the Instructor cadre is trained, CSIs instruct all simulator training and replacement events in support of VMMT-204. This training includes initial Aircrew training, transition/conversion training, refresher training, as well as follow-on Instructor training. After completing an established CSI training and mobilization period, CSIs will be certified by the model manager. CSIs will be required to attend VMMT-204 Instructor Standardization meetings, Air Force requirements lectures, complete semi-annual standardization evaluations, and complete annual Naval Air Training and Operating Procedures Standardization (NATOPS) and Instrument checks in the simulator to remain certified.

- **Contractor Curriculum Support.** Contractor Curriculum Support (CCS) is required to maintain, update, and revise curriculum and instructional standards. CCS will:

    - Manage changes and revisions to existing curriculum
    - Assist in the development of new curriculum
    - Maintain quality assurance
    - Establish, monitor, and regulate evaluation programs
    - Ensure instructor currency

- **Contractor Supply Support.** Contractor supply support provides for the repair, replacement, and upkeep of the training system Material Support Package (MSP). The MSP will be used to support trainer operation and maintenance as specified under MTSS. The contractor provides for the repair and replenishment of all simulator and trainer peculiar items, as well as bit piece parts. The government will provide any aircraft common equipment and parts through the government military supply system.

- **Management and Auxiliary Support.** Management and auxiliary support provides a contractor site representative, clerical assistance, janitorial services, and facility access control at each simulator and trainer site. The contractor, under the supervision of Naval Air Warfare Center, Training Support Division (In-Service Engineering Office - ISEO), provides trainer software support at MCAS New River.

- **Training in Support of Engineering and Manufacturing Development.**

During EMD, the contractor provides factory training at contractor and government facilities to coincide with the needs of the V-22 Flight Test schedule. Organizational level training was developed and is being taught by Bell-Boeing at VMMT-204 MCAS New River. Training for Developmental Test (DT) and Operational Test (OT) is completed. DT&E was completed in September 1999. MV-22B OT&E was completed in May 2000. CV-22 Initial Operational Test and Evaluation (IOT&E) is ongoing through 2002.

a. Initial Training. The first squadron to receive MV-22B Aircraft was VMMT-204. Aircrew, maintenance Instructor, and initial cadre training performed at VMMT-204 and NAMTRAGRU DET Osprey began in July 1999 and will end in February 2001. After the initial cadre received training and sufficient aircraft arrived, training of the remainder of VMMT-204 began in January 2000. Navy initial training has not yet been determined.

Title	**CV-22 Pilot Delta Operator Course**
Description	This course provides USAF Pilots with CV-22 difference information from the MV-22 Aircraft. Upon completion the student will be able to perform as an Initial Cadre CV-22 Pilot.
Location	VMMT-204, MCAS New River
Length	5 days
RFT dates	° 20 - 24 September 1999 (completed) ° 18 - 22 February 2001
TTE/TD	CV-22 Aircraft
Prerequisite	Assigned as an Initial Cadre Pilot for the CV-22 Aircraft

Title	**CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Advanced Cadre)**
Description	This course provides USAF maintenance personnel with CV-22 difference information from the MV-22 Aircraft. Upon completion the student will be able to perform organizational maintenance on the CV-22 Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	5 days
RFT date	18 - 22 February 2001
TTE/TD	CV-22 Aircraft
Prerequisite	Assigned as an Initial Cadre for the CV-22 Aircraft

Title	**CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Initial Cadre)**
Description	This course provided USAF maintenance personnel with CV-22 difference training, including: ° CV-22 Power Plant Differences ° CV-22 Fuel Systems Differences ° CV-22 Avionics Difference ° CV-22 Publications and Safety Procedure Differences ° CV-22 Test and Support Equipment Differences Upon completion the student was able to perform as Initial Cadre for the CV-22 Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	16 days
RFT date	5 - 20 June 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for the CV-22 Aircraft

Title	**MV-22B LRIP Pilot Ground Course (Validation)**
Description	This course provided Instructor personnel with MV-22B LRIP Pilot training, including: ° MV-22B Operation and Safety Procedures ° Pilot Ground School ° Pilot Ground School Basic ° Pilot Ground School Refresher ° Flight Training Upon completion the student was able to safely and effectively perform as an Instructor Pilot in the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	9 days
RFT date	4 - 12 January 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Instructor Pilot for the MV-22B Aircraft

Title	**MV-22B LRIP Pilot Ground Course**
Description	This course provided Instructor Pilot personnel with MV-22B LRIP Pilot training, including: ° MV-22B Operation and Safety Procedures ° Pilot Ground School ° Pilot Ground School Basic ° Pilot Ground School Refresher ° Flight Training Upon completion the student was able to safely and effectively perform as an Instructor Pilot in the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	11 days
RFT dates	° 7 - 17 February 2000 (completed) ° 19 - 30 July 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Instructor Pilot for the MV-22B Aircraft

Title	**MV-22B EMD Pilot Ground Course**
Description	This course provided EMD Initial Cadre Pilot personnel with MV-22B Pilot training, including: ° MV-22B Operation and Safety Procedures ° Pilot Ground School ° Pilot Ground School Basic ° Pilot Ground School Refresher ° Flight Training Upon completion the student was able to safely and effectively perform as an EMD Initial Cadre Pilot in the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	5 days
RFT date	12 - 16 July 1999 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Initial Cadre EMD Pilot for the MV-22B Aircraft

Title	**MV-22B Pilot Ground Course (Instructors)**
Description	This course provided Instructor Pilot personnel with MV-22B Pilot training, including: ° MV-22B Operation and Safety Procedures ° Pilot Ground School ° Pilot Ground School Basic ° Pilot Ground School Refresher ° Flight Training Upon completion the student was able to safely and effectively perform as an Instructor Pilot in the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	16 days
RFT dates.....	° 22 February - 9 March 1999 (completed) ° 10 - 24 July 2000 (completed) ° 14 - 28 August 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Instructor Pilot for the MV-22B Aircraft

Title	**MV-22B Pilot Ground Course (Initial Cadre)**
Description	This course provided Instructor and Initial Cadre Pilot personnel with MV-22B Pilot training, including: ° MV-22B Operation and Safety Procedures ° Pilot Ground School ° Pilot Ground School Basic ° Pilot Ground School Refresher ° Flight Training Upon completion the student was able to safely and effectively perform as an Initial Cadre Pilot in the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	12 days
RFT date	11 - 22 September 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Initial Cadre Pilot for the MV-22B Aircraft

Title	**MV-22B Aircrew Familiarization Course (Crew Chief)**
Description	This course provided Aircrew personnel (USMC Crew Chief, USAF Crew Chief, and USAF Flight Engineer) with an MV-22B overview, including: ° Aircraft Systems and Safety Procedures ° Ground Safety ° Operating Procedures ° Publications ° Preflight, Postflight, Turnaround, and Daily Inspections Upon completion the student was able to perform as a Crew Chief for Initial Cadre in an MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	5 days
RFT date	29 March - 2 April 1999 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Initial Cadre Crew Chief for the MV-22B Aircraft

Title	**MV-22B Aircraft Familiarization Course (Validation)**
Description	This course provided MV-22B maintenance personnel with an overview, including: ° Aircraft Systems and Safety Procedures ° Ground Safety ° Operating Procedures ° Publications Upon completion the student possessed the prerequisite knowledge to attend an MV-22B maintenance course for Initial Cadre for the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	2 days
RFT dates	° 8 - 9 March 1999 (completed) ° 1 - 2 June 1999 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for the MV-22B Aircraft

Title	**MV-22B Aircraft Familiarization Training Course**
Description	This course provided maintenance personnel with an MV-22B overview, including: ° Aircraft Systems and Safety Procedures ° Ground Safety ° Operating Procedures ° Publications ° Preflight, Postflight, Turnaround, and Daily Inspections Upon completion the student possessed the prerequisite knowledge to attend an MV-22B maintenance course for Initial Cadre for the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	3 days
RFT date	11 - 13 October 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for the MV-22B Aircraft

Title	**MV-22B Airframe Organizational Maintenance Training Course (Advanced Cadre)**
Description	This course provides USMC Airframes Mechanics with MV-22B Structural Systems training, including: ° Aircraft Structures ° Hydraulic Systems ° Structural Repair ° Flight Control Surfaces ° Publications and Safety Procedures Upon completion the student will be able to perform as Initial Cadre for organizational maintenance on the MV-22B Airframe Systems.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	10 days
RFT dates	° 16 - 25 March 1999 (completed) ° 16 - 25 October 2000 (completed) ° 18 - 27 December 2000
TTE/TD	MV-22B Aircraft

Prerequisite ..... Assigned as Initial Cadre for Airframes for the MV-22B Aircraft

Title ..... MV-22B Airframes Organizational Maintenance Training Course (Initial Cadre)

Description ..... This course provided USMC Airframe Mechanics with MV-22B Structural Systems Training, including:

- Aircraft Structures
- Hydraulic Systems
- Structural Repair
- Flight Control Surfaces
- Publications and Safety Procedures

Upon completion the student was able to perform as Initial Cadre for Airframes organizational maintenance on the MV-22B Airframe Systems.

Location ..... NAMTRAGRU DET Osprey, MCAS New River

Length ..... 21 days

RFT date ..... 25 January - 15 February 2000 (completed)

TTE/TD ..... MV-22B Aircraft

Prerequisite ..... Assigned as Initial Cadre for Airframes for the MV-22B Aircraft

Title ..... MV-22B Airframe Organizational Maintenance Training Course (Validation)

Description ..... This course provided USMC Airframe Mechanics with MV-22B Structural Systems training, including:

- Aircraft Structures
- Hydraulic Systems
- Structural Repair
- Flight Control Surfaces
- Publications and Safety Procedures

Upon completion the student was able to perform as Initial Cadre for organizational maintenance on the MV-22B Airframe Systems.

Location ..... NAMTRAGRU DET Osprey, MCAS New River

Length ..... 17 days

RFT date	4 - 20 November 1998 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for Airframes for the MV-22B Aircraft

Title	**MV-22B Airframes Organizational Maintenance Training Course (Instructor)**
Description	This course provided USMC Airframe Mechanics with MV-22B Structural Systems training, including: ° Aircraft Structures ° Hydraulic Systems ° Structural Repair ° Flight Control Surfaces ° Publications and Safety Procedures Upon completion the student was able to perform as an Airframes Instructor for organizational maintenance on the MV-22B Airframe Systems.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	31 days
RFT date	25 January - 25 February 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Airframes Instructor for the MV-22B Aircraft

Title	**MV-22B Avionics/Electrical Organizational Maintenance Training Course (Initial Cadre)**
Description	This course provides USMC Avionics and Electrical personnel with MV-22B Avionics and Electrical Systems training, including: ° Communication Systems ° Navigation Systems ° Forward Looking Infrared System (FLIR) ° ECM ° Electrical Systems ° Test and Support Equipment ° Equipment Locations ° Publications and Safety Procedures Upon completion the student will be able to perform as Initial Cadre for Avionics/Electrical Systems organizational maintenance on the MV-22B.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	27 days
RFT dates	° February 18 - April 16 1999 (completed) ° 23 October - 19 November 2000 ° 12 December 2000 - 8 January 2001 ° 16 January - 12 February 2001
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for Avionics/Electrical Systems for the MV-22B Aircraft

Title	**MV-22B Avionics System Organizational Maintenance Training Course (for Testing)**
Description	This course provided USMC Avionics System personnel with MV-22B Avionics and Electrical Systems training, including: ° Communication Systems ° Navigation Systems ° FLIR ° ECM ° Test and Support Equipment ° Equipment Locations ° Publications and Safety Procedures Upon completion the student was able to perform as Initial Cadre for organizational maintenance on the MV-22B Avionics Systems.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	4 days
RFT dates	° 25 - 28 January 2000 (completed) ° 16 - 19 October 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for the MV-22B Aircraft

Title	**MV-22B Avionics System Organizational Maintenance Training Course (Advanced Cadre)**
Description	This course provides USMC Avionics personnel with MV-22B Avionics equipment training, including: ° Communication Systems ° Navigation Systems ° FLIR ° ECM ° Test and Support Equipment ° Equipment Locations ° Publications and Safety Procedures Upon completion the student will be able to perform as Initial Cadre for Avionics Systems organizational maintenance on the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River

Length	21 days
RFT dates	° 25 January - 15 February 2000 (completed) ° 25 October - 15 November 2000 ° 2 - 22 November 2000
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for Avionics for the MV-22B Aircraft

Title	**MV-22B Avionics/Electrical Organizational Maintenance Training Course (Instructor)**
Description	This course provided USMC Avionics and Electrical personnel with MV-22B equipment training, including: ° Communication Systems ° Navigation Systems ° FLIR ° ECM ° Electrical Systems ° Test and Support Equipment ° Equipment Locations ° Publications and Safety Procedures Upon completion the student was able to perform as an Avionics/Electrical Instructor for organizational maintenance on the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	55 days
RFT date	1 June - 4 August 1999 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as an Avionics/Electrical Instructor for the MV-22B Aircraft

Title	**MV-22 Environmental Control Unit Organizational Maintenance Training Course (Advanced Cadre)**
Description	This course provided USMC Flight Equipment Marines with MV-22B Environmental Control System training, including: ° Environmental Control System ° Test and Support Equipment ° Equipment Locations ° Publications and Safety Procedures Upon completion the student was able to perform as Initial Cadre for organizational maintenance on the MV-22B Environmental Control System.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	3 days
RFT date	16 - 18 November 1998 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for the MV-22B Aircraft

Title	**MV-22B Environmental Control System Organizational Maintenance Course (Instructors)**
Description	This course provided USMC Flight Equipment Marines with MV-22B Environmental Control System training, including: ° Environmental Control System ° Test and Support Equipment ° Equipment Locations ° Publications and Safety Procedures Upon completion the student was able to perform as an Environmental Control System Instructor for organizational maintenance on the MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	5 days
RFT dates	° 19 - 23 November 1999 (completed) ° 16 - 20 October 2000 (completed)
TTE/TD	MV-22B Aircraft

Prerequisite ..... Assigned as an Environmental Control System Instructor for the MV-22B Aircraft

Title ..... MV-22B Environmental Control System Organizational Maintenance Course (Initial Cadre)

Description ..... This course provided USMC Flight Equipment Marines with MV-22B Environmental Control System training, including:

- Environmental Control System
- Test and Support Equipment
- Equipment Locations
- Publications and Safety Procedures

Upon completion the student was able to perform as Initial Cadre for organizational maintenance on the MV-22B Environmental Control System.

Location ..... NAMTRAGRU DET Osprey, MCAS New River

Length ..... 4 days

RFT date ..... 22 - 25 February 2000 (completed)

TTE/TD ..... MV-22B Aircraft

Prerequisite ..... Assigned as Initial Cadre for the MV-22B Aircraft

Title ..... MV-22B Power Plant and Related Organizational Maintenance Course (Initial Cadre)

Description ..... This course provided Power Plants Personnel (USMC Helicopter Mechanic and USMC Crew Chief) with MV-22B training, including:

- Troubleshooting Beyond BIT
- Use of Electrical Test Equipment
- Secondary Power System
- Internal Fuel System
- External Fuel System
- Publications and Safety Procedures

Upon completion the student was able to perform as Initial Cadre for Power Plants organizational maintenance on MV-22B Aircraft.

Location ..... NAMTRAGRU DET Osprey, MCAS New River

Length	10 days
RFT dates	° 10 - 19 March 1999 (completed) ° 16 - 25 October 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as Initial Cadre for Power Plants for the MV-22B Aircraft

Title	**MV-22B Power Plant and Related Organizational Maintenance Course (for Testing)**
Description	This course provided Power Plants Mechanics (USMC Helicopter Mechanic and USMC Crew Chief) with MV-22B training, including: ° Troubleshooting Beyond BIT ° Use of Electrical Test Equipment ° Secondary Power System ° Internal Fuel System ° External Fuel System ° Publications and Safety Procedures Upon completion the student was able to perform as a Power Plants and Related Systems Instructor for organizational maintenance on MV-22B.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	25 days
RFT dates	° 3 - 27 June 1999 (completed) ° 24 January - 18 February 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as a Power Plants Instructor for the MV-22B Aircraft

Title	**MV-22B Power Plant and Related Course (Instructor)**
Description	This course provided Power Plants personnel (USMC Helicopter Mechanic and USMC Crew Chief) with MV-22B training, including: ° Troubleshooting Beyond BIT ° Use of Electrical Test Equipment ° Secondary Power System ° Internal Fuel System ° External Fuel System ° Publications and Safety Procedures Upon completion the student was able to perform as a Power Plants Instructor for organizational maintenance on MV-22B Aircraft.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	31 days
RFT date	10 May - 10 June 1999 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	Assigned as a Power Plants Instructor for the MV-22B Aircraft

b. Follow-on Training. USMC Pilot and Aircrew follow-on training will be conducted by VMMT-204 FRS. All follow-on training for Pilots and enlisted Aircrew will be conducted per appropriate service directives. For planning purposes the USMC will use a six-month training duration for Pilots and enlisted Aircrew, and it will be re-evaluated once USMC students have gone through training. As information becomes available, it will be included in this JTSP. Follow-on flight training is based on a core MV-22 curriculum that was followed by service-unique training (i.e., CSAR, Medical Evacuation, troop lift, and assault support). CV-22 SOF-unique Aircrew training will be conducted at the 58 Special Operations Wing (SOW), Kirtland AFB, New Mexico, as set forth in the AFSOC CV-22 STP. V-22 follow-on training will begin in March 2001.

Fleet Replacement Enlisted Skills Training, in conjunction with the Maintenance Training Unit (1035), is designated Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Osprey for maintenance training.

(1) Pilot Training. Pilot training was designed to provide Aviators with the ability, skills, and knowledge to safely and effectively operate the V-22 Aircraft as Pilot-In-Command and Functional Check Pilot during day and night Visual Meteorological Conditions. Training consists of ground school instrument procedures training and flight training.

Title	**V-22 Pilot Training**
CIN …….	NA
Model Manager ..	VMMT-204
Description	This course provides Pilot personnel with V-22 Pilot training, including: ° V-22 Operation and Safety Procedures ° Pilot Ground School ° Pilot Ground School Basic ° Pilot Ground School Refresher ° Flight Training Upon completion the student will be able to safely and effectively perform as a Pilot in the V-22 Aircraft in a squadron environment.
Location	VMMT-204, MCAS New River
Length	180 days
RFT date	March 2001
Skill identifier ….	MOS 7532
TTE/TD	V-22 Aircraft
Prerequisite	° Existing Naval Aviators selected per Headquarters Marine Corps Transition Board ° Designated Service Group I Naval Aviator

(2) USMC Enlisted Aircrew Training. USMC Enlisted Aircrew training is conducted at VMMT-204 per the Training and Readiness Manual Marine Corps Order (MCO) 3500M.

Title	**V-22 Crew Chief**
CIN……..	M-050-6176
Model Manager ...	VMMT-204
Description	This course provides Crew Chief personnel with V-22 training, including: ° V-22 Operation and Safety Procedures ° V-22 Crew Chief Ground School ° V-22 Crew Chief NATOPS ° V-22 Crew Chief Ground School Refresher ° V-22 Flight Training Upon completion the student will be able to safely and effectively perform as a Crew Chief in the V-22 Aircraft in a squadron environment.
Location	VMMT-204, MCAS New River
Length	109 days
RFT date	March 2001
Skill identifier ….	MOS 6176
TTE/TD	V-22 Aircraft
Prerequisite	M-601-6116, V-22 Power Plants and Related Systems Organizational Maintenance

(3) USAF Flight Engineer Training. Air Force Flight Engineer training at the inter-service school will follow the USMC Enlisted Aircrew Training. Follow-on CV-22 lead-in course will be conducted at Kirtland AFB. Further information is contained in the CV-22 STP.

(4) Maintenance Training. Maintenance training is currently being validated by NAMTRAGRU DET Osprey at MCAS New River to provide personnel with the skills and knowledge required to safely and effectively detect, diagnose, and perform appropriate organizational corrective maintenance for problems that could be encountered during operational flight tests. The following is a list of organizational level maintenance courses. (Note: Course lengths are notional, as curriculum development continues).

USMC Maintenance Training

Title	**V-22 Power Plants and Related Systems Organizational Maintenance**
CIN	M-601-6116
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides Power Plants personnel with V-22 maintenance training, including: ° V-22 Power Plant Operations ° Removal and Replacement of All Major and Minor Components of the AE-1107C Turboprop Engine ° Auxiliary Power Unit System ° Environmental Control System ° Corrosion Control of the Power Plants System ° Test and Support Equipment ° Publications and Safety Precautions Upon completion the student will be able to safely and effectively perform organizational maintenance on the V-22 Aircraft in a squadron environment under limited supervision.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	66 days
RFT date	March 2001
Skill identifier	MOS 6116
TTE/TD	VMTS
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	**V-22 Avionics and Electrical Systems Organizational Maintenance**
CIN	M-602-6326
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides Avionics and Electrical personnel with V-22 maintenance training, including: ° Cockpit Management Systems ° Removal and Replacement of All Major and Minor Avionics Components ° Electrical Systems ° Corrosion Control of the Avionics and Electrical Systems ° Connector Repair ° Electronic Warfare System ° Forward Looking Infrared System ° Flight Control Systems ° Test and Support Equipment ° Publications and Safety Precautions Upon completion the student will be able to safely and effectively perform organizational maintenance on the V-22 Aircraft in a squadron environment under limited supervision.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	96 days
RFT date	March 2001
Skill identifier	MOS 6326
TTE/TD	VMTS
Prerequisites	° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1

Title	**V-22 Airframes and Hydraulic Systems Organizational Maintenance**
CIN	M-603-6156
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides Airframe and Hydraulic personnel with V-22 maintenance training, including: ° V-22 Airframe and Hydraulic Operations ° Removal and Replacement of All Major and Minor Airframe and Hydraulic Components ° Composite Repair ° Corrosion Control of the Airframe and Hydraulic Systems ° Test and Support Equipment ° Publications and Safety Precautions Upon completion the student will be able to safely and effectively perform organizational maintenance on the V-22 Aircraft in a squadron environment under limited supervision.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	66 days
RFT date	March 2001
Skill identifier	MOS 6156
TTE/TD	VMTS
Prerequisites	C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Organizational Level Strand Class A1, or equivalent USAF training, J3ABP2A635-001, Aircraft Pneudraulic System Apprentice

USAF Maintenance Training

Title	**CV-22 Electro-Environmental Systems Organizational Maintenance**
CIN	M-602-XXX4
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides training to USAF personnel to operate, troubleshoot, maintain, and repair V-22 electrical and environmental related systems.

Location	NAMTRAGRU DET Osprey, MCAS New River
Length	79 days
RFT date	May 2002
Skill identifier	AFSC 2A6X6
TTE/TD	VMTS
Prerequisite.....	J3ABPR2A636-001, Electrical/Environmental Apprentice

Title	**CV-22 Integrated Avionics Systems Organizational Maintenance**
CIN	M-602-XXX5
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides training to USAF personnel in all aspects of CV-22 Communication, Navigation, Identification (CNI), Radar, and Countermeasures systems.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	111 days
RFT date	May 2002
Skill identifier	AFSC 2A3X2
TTE/TD	VMTS
Prerequisites	° J3AQR2A332-500, Electronics Principles ° J3ABR2A332-002, Avionics Instrument and Flight Control Apprentice Secret Clearance

Title	**CV-22 Propulsion Systems Organizational Maintenance**
CIN	M-602-XXX6
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides training to USAF personnel in all aspects of CV-22 Propulsion Systems.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	34 days
RFT date	May 2002

Skill identifier	AFSC 2A6X1
TTE/TD	VMTS
Prerequisite	J3ABPR2A631B-001, Turboprop/Turboshaft Propulsion

Title	**CV-22 Hydraulic Systems Organizational Maintenance**
CIN	M-602-XXX7
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides training to USAF personnel in all aspects of CV-22 Hydraulic Systems.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	66 days
RFT date	May 2002
Skill identifier	AFSC 2A6X5
TTE/TD	VMTS
Prerequisite	J3ABPR2A635-001, Aircraft Pneudraulic Systems Apprentice

Title	**CV-22 Crew Chief Organizational Maintenance**
CIN	M-602-XXX8
Model Manager ..	NAMTRAGRU DET Osprey
Description	This course provides training to prospective USAF Crew Chiefs in all aspects of CV-22.
Location	NAMTRAGRU DET Osprey, MCAS New River
Length	137 days
RFT date	May 2002
Skill identifier	AFSC 2A5X2
TTE/TD	VMTS
Prerequisites	° J3AQP2A532-000, Helicopter Maintenance Fundamentals ° J3ABP2A532D-000, CV-22 Maintenance Apprentice

Note: Intermediate level training courses have not been created as of this time. Currently vendors are maintaining their systems until V-22 systems demonstrate

the level of reliability required for complete organic support. Information on intermediate level training will be incorporated into future updates to this JTSP.

c. Student Profiles. The MV-22 and CV-22 student profiles are as shown below:

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 7532	° Existing Naval Aviators selected per Headquarters Marine Corps Transition Board ° Designated Service Group I Naval Aviator
AFSC 11SYX	° Existing Naval Aviators selected per Headquarters USAF Transition Board ° Designated Service Group I Naval Aviator
MOS 6116	° C-601-2011, Aviation Machinist's Mate Common Core Class A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6176	° M-601-6116, V-22 Power Plants and Related Systems Organizational Maintenance
MOS 6326	° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1
MOS 6156	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Organizational Level Strand Class A1
AFSC 1A1X1B	° Existing Naval Aircrewmen selected per Headquarters USAF Transition Board
AFSC 2A3X2	° J3AQR2A332-500, Electronic Principles ° J3ABR2A332-002, Avionics Instrument and Flight Control Apprentice
AFSC 2A5X2	° J3AQP2A532-000, Helicopter Maintenance Fundamentals ° J3ABP2A532D-000, CV-22 Maintenance Apprentice
AFSC 2A6X1/ 2A6X1B	° J3ABPR2A631B-001, Turboprop/Turboshaft Propulsion

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AFSC 2A6X5	° J3ABPR2A635-001, Aircraft Pneudraulic Systems Apprentice
AFSC 2A6X6	° J3ABPR2A636-001, Electrical/Environmental Apprentice

d. Training Pipelines. The proposed Marine Corps training tracks to support V-22 referenced in Part III of this JTSP are being added to the Catalog of Navy Training Courses (CANTRAC) and the OPNAV Aviation Training Management System (OATMS). The Air Force enlisted maintenance training pipelines were taken from the CV-22 STP and the Air Force Catalog AFCAT 36-2223. Air Force attended courses will be enumerated in CANTRAC, OATMS, and the Air Force Training Management Systems (AFTMS). The following is a list of proposed training tracks and the courses:

TRAINING TRACK NUMBER	COURSE NUMBER AND TITLE
M-601-6116, V-22 Power Plants and Related Systems Organizational Maintenance	• Indoctrination • Corrosion Control • C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • C-601-3627, V-22 Basic Mechanic's (Initial) Organizational Maintenance Course • C-601-3628, V-22 Environmental Control Systems (Initial) Organizational Maintenance Course • C-601-3626, V-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course • Q-2A-0036, Enlisted Aircrew Course
M-603-6156, V-22 Airframes and Hydraulic Systems Organizational Maintenance	• Indoctrination • C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course • C-603-3627, V-22 Airframes (Initial) Organizational Maintenance Course

TRAINING TRACK NUMBER	COURSE NUMBER AND TITLE
M-602-6326, V-22 Avionics and Electrical Systems Organizational Maintenance	• Indoctrination • C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • C-198-3626, V-22 Cockpit Management Systems (Initial) Organizational Maintenance Course • C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course • C-102-3626, V-22 Electrical Systems (Initial) Organizational Maintenance Course • C-602-3626, V-22 Connector Repair (Initial) Organizational Maintenance Course • C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course • C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course • C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course
M-602-XXX4, CV-22 Electro-Environmental Systems Organizational Maintenance Course	• Indoctrination • M-000-0001, CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • M-000-0002, CV-22 Electrical Systems (Initial) Organizational Maintenance Course • M-000-0003, CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course • M-000-0004, CV-22 Environmental Control/Miscellaneous Utilities/Egress Systems Organizational Maintenance Course • M-000-0005, CV-22 Connector Repair (Initial) Organizational Maintenance Course • M-000-0006, CV-22 Crew Chief Course

TRAINING TRACK NUMBER	COURSE NUMBER AND TITLE
M-602-XXX5, CV-22 Integrated Avionics Systems Organizational Maintenance	• Indoctrination • M-000-0001, CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • M-000-0007, CV-22 Cockpit Management Display Systems • M-000-0008, CV-22 Flight Control Systems (Initial) Organizational Maintenance Course • M-000-0009, CV-22 Avionics Systems (Initial) Organizational Maintenance Course • M-000-0010, CV-22 Forward Looking Infrared (Initial) Organizational Maintenance Course • M-000-0011, CV-22 Electronic Warfare System (Initial) Organizational Maintenance Course • M-000-0012, CV-22 Radar System (Initial) Organizational Maintenance Course • M-000-0002, CV-22 Electrical Systems (Initial) Organizational Maintenance Course • M-000-0005, CV-22 Connector Repair (Initial) Organizational Maintenance Course
M-602-XXX6, CV-22 Propulsion Systems Organizational Maintenance Course	• Indoctrination • M-000-0001, CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • M-000-0002, CV-22 Electrical Systems (Initial) Organizational Maintenance Course • M-000-0003, CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course • M-000-0013, CV-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course
M-602-XXX7, CV-22 Hydraulic Systems Organizational Maintenance Course	• Indoctrination • M-000-0001, CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • M-000-0002, CV-22 Electrical Systems (Initial) Organizational Maintenance Course • M-000-0003, CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course • M-000-0013, CV-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course • M-000-0007, CV-22 Cockpit Management Display Systems

TRAINING TRACK NUMBER	COURSE NUMBER AND TITLE
M-602-XXX8, CV-22 Crew Chief Organizational Maintenance Course	• Indoctrination • M-000-0001, CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course • M-000-0003, CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course • M-000-0013, CV-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course • M-000-0002, CV-22 Electrical Systems (Initial) Organizational Maintenance Course • M-000-0011, CV-22 Electronic Warfare System (Initial) Organizational Maintenance Course • M-000-0009, CV-22 Avionics Systems (Initial) Organizational Maintenance Course • M-000-0007, CV-22 Cockpit Management Display Systems • M-000-0004, CV-22 Environmental Control/Miscellaneous Utilities/Egress Systems Organizational Maintenance Course • M-000-0014, CV-22 Airframes (Initial) Organizational Maintenance Course • M-000-0006, CV-22 Crew Chief Course • M-000-0015, CV-22 Dynamic Components

Note: These AFSCs are pending approval and are included in the Air Force CV-22 STP.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. Onboard proficiency training will be conducted to improve and enhance the capabilities of all V-22 Program individuals. For USMC personnel, the Individual Training Standards System (ITSS), Marine Aviation Training Management and Evaluation Program (MATMEP), will be used to establish an effective and efficient training system that is responsive to USMC fleet training requirements. USAF onboard (continuation) training will be addressed in the USAF CV-22 STP.

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance Training Continuum System. Aviation Maintenance Training Continuum System (AMTCS) will redesign the aviation training process (training continuum), and introduce Interactive Multimedia Instruction (IMI) throughout the Navy technical training process. The application and adoption of recent advances in computer hardware and software technology will enable IMI, with its basic elements of Computer Aided

Instruction (CAI), and Interactive Courseware (ICW), to be integrated into the training continuum and provide essential support for standardizing technical training.

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 (MCO) P4790.12, ITSS and MATMEP. This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies the task, skill, and knowledge requirements of each MOS. (MATMEP will be replaced by AMTCS in approximately FY02.)

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N0019-96-C-0188 (OFT)	L3 Communications Link Simulation and Training	P. O. Box 6171 Arlington, TX 76005
N0019-93-C-0006 (EMD) N0019-96-C-0054 (LRIP) N0019-99-C-1090 (Lot 4) N0019-00-C-0183 (Lot 5)	Bell-Boeing V-22 Joint Program Office	Building 3193 22398 James Road Patuxent River, MD 20670

2. Program Documentation. The current Joint Acquisition Logistics Support Plan (JALSP) is dated 25 September 2000. Current documentation is listed under paragraph M of this JTSP.

3. Technical Data Plan. The following V-22 series technical manuals are required to support the V-22 acquisition effort:

- Service-Unique Flight Manuals (NATOPS USN and USMC, Flight Manual USAF)
- Interactive Electronic Technical Manuals (IETM)
- Maintenance Instruction Manuals (MIM)
- Structural Repair Publications
- Illustrated Parts Breakdown (IPB)
- Maintenance Requirement Cards (MRC)

These publications are being developed in progressive stages that reflect aircraft configuration changes. All three services are included in the progressive stages of publication development.

4. Test Sets, Tools, and Test Equipment. An analysis is being conducted on each system to establish scheduled and unscheduled maintenance requirements for all levels of maintenance. From the identification of these maintenance requirements, the support equipment, special tools, and test equipment are being identified and included as a requirement on the Support Equipment Recommendation Data List for procurement. The AN/USM-636(V) Consolidated Automated Support System (CASS) will be used to support the V-22 systems. The specific systems to be supported on CASS have not been determined. When this information becomes available it will be included in updates to this JTSP.

5. Repair Parts. A technical data bank has been established in the V-22 Program for the USMC, USN, and USAF. The range and depth of data is expanding as the pre-operational support program progresses and transitions to the operational program. The data is used to develop detailed spares and repair parts requirements. The contractor is initially maintaining this data. As the V-22 Program matures, this data bank transitions to the appropriate Inventory Control Point. The GSD is FY05.

6. Human Systems Integration. The Human Systems Integration Plan is dated 30 November 1995, and currently being updated. The Human Factors Engineering Program ensured the requirements for operator and maintenance personnel were integrated into the system design, and that the V-22 permits maximum effectiveness for the man-machine system. The Human System Integration Plan is designed to ensure human considerations are fully accounted for in the weapon system development. Percentiles are no longer used as a determinant for Aircrew personnel. Case one through five studies are used as the profiles for design. These cases are contained in the aircraft EMD specifications. Maintenance personnel (both male and female) for the V-22 Weapon System must be capable of working between the five to 95 percentile per Military Standard 1472 database.

7. Engineering and Technical Services and/or Advisory Services. The type and number of ETS required is keyed to aircraft deliveries for each service, maintenance concepts, system complexity, maintenance task times, and frequency and difficulty of repair. ETS personnel received formal training and On-the-Job Training (OJT) in theories of operation, troubleshooting, maintenance, and repair of their respective systems. Training and update seminars will be conducted for ETS personnel throughout the program's life cycle. Using V-22 aircraft maintenance concepts developed that are consistent with OPNAVINST 4790.2 (series) and AFSOCI 21-106, ETS personnel are being used to provide assistance to receiving activities, depots, and training sites. ETS personnel provide informal training to maintenance personnel, and support operator training and briefings as required. They can provide formal instruction, OJT, and support aircraft repair at all levels of maintenance, as required.

K. SCHEDULES

1. Installation and Delivery Schedules. An estimated final procurement of 360 aircraft for the Marine Corps is proposed, allowing for a one-percent attrition rate. Tables I-6 and I-7 show aircraft delivery schedules, fulfilling the total operating aircraft requirements of 345 aircraft in FY14.

TABLE I-6 AIRCRAFT DELIVERY SCHEDULE THROUGH FY14									
FISCAL YEAR	**FY97**	**FY98**	**FY99**	**FY00**	**FY01**	**FY02**	**FY03**	**FY04**	**FY05**
MV-22 Procurement	5	7	7	11	16	18	22	24	25
MV-22 Delivery (Cumulative)			2	9	18	29	45	63	85
Cumulative Deliveries (Minus Attrition)				7.9	16.7	27.4	43.0	60.4	81.5
* Peacetime Attrition 1 %			0	0.1	0.2	0.3	0.5	0.6	0.9
Cumulative Remaining Aircraft			0	8	17	27	43	60	82

TABLE I-6 AIRCRAFT DELIVERY SCHEDULE THROUGH FY14 (CONTINUED)									
FISCAL YEAR	**FY06**	**FY07**	**FY08**	**FY09**	**FY10**	**FY11**	**FY12**	**FY13**	**FY14**
MV-22 Procurement	29	32	30	30	30	30	30	30	30
MV-22 Delivery (cumulative)	109	134	163	195	225	255	285	315	345
Cumulative Deliveries (Minus Attrition)	104.4	128.1	155.4	185.5	213.2	240.7	267.8	294.7	321.2
* Peacetime Attrition	1.1	1.3	1.6	2.0	2.3	2.6	2.9	3.2	3.5
Cumulative Remaining Aircraft	104	128	155	186	213	241	268	295	321

* The attrition shown is per year for a total of 24 through FY14.

TABLE I-7 AIRCRAFT DELIVERY SCHEDULE PER SQUADRON THROUGH FY14									
ACTIVITY	**FY97**	**FY98**	**FY99**	**FY00**	**FY01**	**FY02**	**FY03**	**FY04**	**FY05**
Cumulative Operating				8	17	27	43	60	82
VMMT-204 Marine Aircraft Group (MAG)-26				8	12	12	12	12	14
Medium Tilt-Rotor Squadron (VMM)-264					5	9	12	12	12
VMM-162						6	12	12	12
VMM-266							7	12	12
VMM-261								12	12
VMM West #1									12
VMM West #2									6
HMX-1 (MV-8/W-11)									2

TABLE I-7 AIRCRAFT DELIVERY SCHEDULE PER SQUADRON THROUGH FY14 (CONTINUED)									
ACTIVITY	**FY06**	**FY07**	**FY08**	**FY09**	**FY10**	**FY11**	**FY12**	**FY13**	**FY14**
Cumulative Operating	104	128	155	186	213	241	268	295	321
VMMT-204 MAG-26	16	17	19	19	19	19	19	19	38
VMM-264	12	12	12	12	12	12	12	12	12
VMM-162	12	12	12	12	12	12	12	12	12
VMM-266	12	12	12	12	12	12	12	12	12
VMM-261	12	12	12	12	12	12	12	12	12
VMM West #1	12	12	12	12	12	12	12	12	12

TABLE I-7 AIRCRAFT DELIVERY SCHEDULE PER SQUADRON THROUGH FY14 (CONTINUED)									
ACTIVITY	**FY06**	**FY07**	**FY08**	**FY09**	**FY10**	**FY11**	**FY12**	**FY13**	**FY14**
VMM West #2	12	12	12	12	12	12	12	12	12
VMM West #3	9	12	12	12	12	12	12	12	12
VMM West #4	3	12	12	12	12	12	12	12	12
HMX-1 (MV-8/W-11)	4	6	8	11	14	16	19	19	19
VMM-362		9	12	12	12	12	12	12	12
VMM-363			11	12	12	12	12	12	12
VMM-463			9	12	12	12	12	12	12
VMM-262				12	12	12	12	12	12
VMM-265				12	12	12	12	12	12
VMM West #5					10	12	12	12	12
VMM West #6					8	12	12	12	12
VMM-164 (46 FRS)					6	12	12	12	12
VMM #5						8	12	12	12
VMM #6						6	12	12	12
VMM #1 Reserves							6	10	12
VMM #2 Reserves							8	10	12
VMM #3 Reserves								10	12
VMM #4 Reserves								11	12

2. Ready For Operational Use Schedule. The Marine Corps Initial Operational Capability (IOC) (12 MV-22 fielded) is scheduled for FY01. The Air Force IOC (12 combat coded CV-22s fielded) is scheduled for FY05. The Navy IOC is yet to be determined. More information will be included in future updates to this JTSP.

3. Time Required to Install at Operational Sites. NA

4. Foreign Military Sales and Other Source Delivery Schedule. Currently, there are no FMS programs established. FMS will be addressed as required and incorporated into future updates to this JTSP.

5. Training Device and Technical Training Equipment Delivery Schedule. TD and Technical Training Equipment (TTE) requirements and their logistics support requirements are being developed per MIL-STD-490. Operator and maintenance TDs and TTE will be required. TDs are being designed specifically to support the "core" training concept and will support any cadre training provided to the Air Force, Marine Corps, and Navy service members. Service-peculiar TD requirements will also be procured based upon the basic core trainers. Marine Corps TD usage is planned for 16 hours per day, five days per week, 50 weeks per year. The TDs are capable of being used on an as-available basis for instructing maintenance personnel on the techniques and safety aspects of engine and aircraft system operation. Table I-8 lists the projected location and number of TDs for the V-22 Program.

TABLE I-8. V-22 TRAINING DEVICES

AIRCRAFT	SITE	FFS	FTD	VMTS	CPTT	PROCURE DATE	RFT DATE
MV-22	New River	1/1* 1 1 1	1			FY97/01 FY97 FY00 FY05	FY99/03 FY01 FY02 FY07
	New River			1		FY02/03	FY05/06
				CV Parts		FY01	FY03
	New River		1(#1)			FY98	FY00
	New River		1(#2)			FY02	FY04
	New River		1(#10)			FY06	FY08
	Miramar		1(#3)			FY02	FY04
	Miramar		1(#4)			FY03	FY05
	Quantico		1(#8)			FY05	FY07
	Kaneohe Bay		2(#6& 7)			FY04	FY06
	Pendleton		2(#11 & 12)			FY07	FY09
	Okinawa		1(#5)			FY03	FY05

AIRCRAFT	SITE	FFS	FTD	VMTS	CPTT	PROCURE DATE	RFT DATE
	Okinawa		1(#9)			FY05	FY07
	Norfolk (RES)		1(#13)			FY08	FY10
	Willow Grove (RES)		1(#15)			FY10	FY12
	Edwards AFB		1(#14)			FY08	FY10
CV-22	Kirkland	1 1	 1 1 		 1	FY99 FY01 FY04 FY02 FY02	FY02 FY03 FY06 FY04 FY04
	Hurlburt		1			FY01	FY03
	CONUS 2		1			FY05	FY07
	Europe Command (EUCOM)		1			FY04	FY06
	Pacific Command (PACOM)		1			FY03	FY05
HV-22	East Coast	1	1			FY10	FY12
	West Coast	1	1			FY12	FY14
TOTALS		**1/8**	**24**	**1**	**1**		

* An FFS will replace the OFT. An FTD will replace the CPT.

a. Operational Flight Trainer (2F151). This device is an operational flight system trainer capable of providing training in the development of Pilot skills and techniques in the MV-22B aircraft. The OFT is able to simulate MV-22B aircraft performance during cockpit preflight, aircraft start-up, all flight operations in both conversion and fixed wing modes, navigational flight, instrument flight, aircraft shutdown, and cockpit postflight procedures. The OFT cockpit mirrors the actual aircraft and has a six-degree-of-freedom, dome-based motion platform. The OFT is capable of simulating MV-22B flight in all conditions including day, dusk, night, and instrument meteorological conditions. It is fully Night Vision Goggles (NVG) compatible with FLIR simulation capabilities. Training environments include operations at airfields, confined area landing sites, mountain areas, urban areas, low altitude flight areas, and aboard aircraft capable ships such as LHAs and LHDs. All aircraft maneuvers can be simulated,

including normal flight procedures, auto-rotations, aerial refueling, formation flying, high altitude operations, nuclear, biological, and chemical operations, and low altitude terrain following operations, and may include physiological conditioning. The OFT is capable of simulating all emergencies and system malfunctions both visually and through cockpit instrumentation. The OFT and CPT are undergoing update to MV-22B configuration from MV-22A (they were originally procured under the Full-Scale Development program).

b. Cockpit Procedures Trainer (2C71). The CPT will mirror the actual aircraft but will be mounted on a fixed base with no visual system. This device will effectively train and develop Pilot skills in cockpit management system proficiency, instrument flight, and emergency system malfunction procedures. The CPT simulates MV-22B aircraft performance during cockpit preflight, aircraft start-up, navigational and instrument flight, aircraft shut-down, and cockpit postflight procedures.

c. Full Flight Simulator/Flight Training Device. The FFS is a flight simulator with a full six degree-of-freedom motion base and an attached full-color day, dusk, and night visual system. The FFS is designed to support the MV-22B Training and Replacement syllabus and includes a tactical environment simulation and supports simulator-to-simulator networking. The FFS is designed to meet the initial training needs of MV-22B Aircrews in the proper operation of the MV-22B in all weather conditions, normal and emergency procedures, and NVG operations. The FFS will be the mainstay of operator training for the FRS. The FTD is similar to the FFS, but without the motion system, and is designed to meet proficiency training needs of MV-22B Aircrews in instrument flight, emergency procedures, and tactics, and to provide recurrent training for Fleet squadrons. FFSs and FTDs will be procured in both MV-22 and CV-22 configurations. The MV-22B training program will procure a total of seven FFSs and 23 FTDs for use by Marine Corps and Air Force operational and training squadrons. Of these devices, three FFSs and three FTDs are planned for MCAS New River.

d. V-22 Maintenance Trainer Suite. The V-22 Maintenance Trainer Suite (VMTS) will consist of the Landing Gear Part Task Trainer (PTT), the Mechanic PTT, the Airframe PTT, the Airframe Composite Maintenance Trainer (CMT), the Mechanical (and Power Plant) CMT, the Avionics CMT, and the CV-Expeditionary Maintenance Trainer (EMT). These maintenance trainers have been identified as requirements and specifications are being developed to procure these devices as part of the VMTS. The Power Plants PTT currently exists and is located at NAMTRAGRU DET Osprey in New River.

e. Cabin Part Task Trainer. The CPTT is a replica of the interior cabin of the CV-22, including cargo-handling equipment. One Air Force-unique CPTT will be procured for the Flight Engineer/Loadmaster. This single CPTT will be delivered to Kirtland AFB.

f. Interactive Multimedia Instruction. It is the intent of the V-22 Training System Program to incorporate IMI into the V-22 Training System. The depth and range of the IMI used is being determined during the development of production training. Programmatic requirements, such as Continuous Acquisition and Life Cycle Support and IETMs, are being considered during the development of the training program. IMI is a group of Computer-Based

Training and training support products. IMI includes both CAI and self-paced ICW. It is the intent of the V-22 Training System Program to produce ICW for MV-22 Pilots and CAI for MV-22 maintenance personnel; both curricula will be in place at MCAS New River in March 2001. IMI for the CV-22 Pilot course was contracted in November 2000 with an RFT date at MCAS New River of March 2002. IMI for the CV-22 maintenance delta course was contracted during October 2001 with an RFT date at MCAS New River of March 2003.

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

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Consolidated Automatic Support System (CASS) NTSP	A-50-8515C/D	PMA260	Draft Oct 00
AN/APX-100(V) Transponder Set	A-50-8305B/A	PMA209	Approved Apr 00
Advanced Composite Material Repair	A-50-8404D/D	AIR-4.3	Draft Jul 00
Cable Harness Repair or Manufacturing Equivalence Program	A-50-8512C/P	PMA260	Proposed May 00
V-22 Integrated Support Plan Revision F	Could not get information. Will try to include into future updates to this JTSP.	AIR 3.1	Approved 4 Jun 98
V-22 JALSP, Revision 4	Could not get information. Will try to include into future updates to this JTSP.	AIR 3.1	Proposed 25 Sep 00
USAF CV-22 STP	Could not get information. Will try to include into future updates to this JTSP.	AFSOC	17 Mar 97

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
MV-22 Security Classification Guide	Could not get information. Will try to include into future updates to this JTSP.	AIR 4.1.3	Approved 16 Jun 98
JORD, Change 2	Could not get information. Will try to include into future updates to this JTSP.	AFSOC/ AIR 3.1	Approved 3 Sep 99
V-22 Detail Specification	SD-572-1-1, LRIP 1, 2, 3 SD-572-1-2, LRIP 4 SD-572-2, LRIP 5	Bell Boeing	24 Jan 97
V-22 MER	NA	PMA275	Proposed 22 Sep 00
Inter-service Training Review Organizational Instruction	ITRO	CNET/N222	Jan 86
MV-22B Training & Readiness Manual	MCO P3500.16B Volume 8 Chapter 1,2	MCCDC/ C461A	Approved 9 Nov 99
V-22 Weapon System Planning Document (WSPD)	NAVAIRNOTE 13100	AIR 1.3.2G	Approved 21 Jun 99
Memorandum Of Agreement for V-22 Aircrew and Maintenance Training at MCAS New River, N.C.	Could not get information. Will try to include into future updates to this JTSP.	PMA275	11 Jun 98
MV/CV-22 Training and Training Equipment Plan	Report # 901-999-011 Revision-K	Bell Boeing Training	15 Apr 00
V-22 Joint Services Advanced Lift Aircraft (Osprey) Human System Integration Plan	Could not get information. Will try to include into future updates to this JTSP.	AIR 4.1.2	30 Nov 95 Being Updated

Program Org Chart Extracts

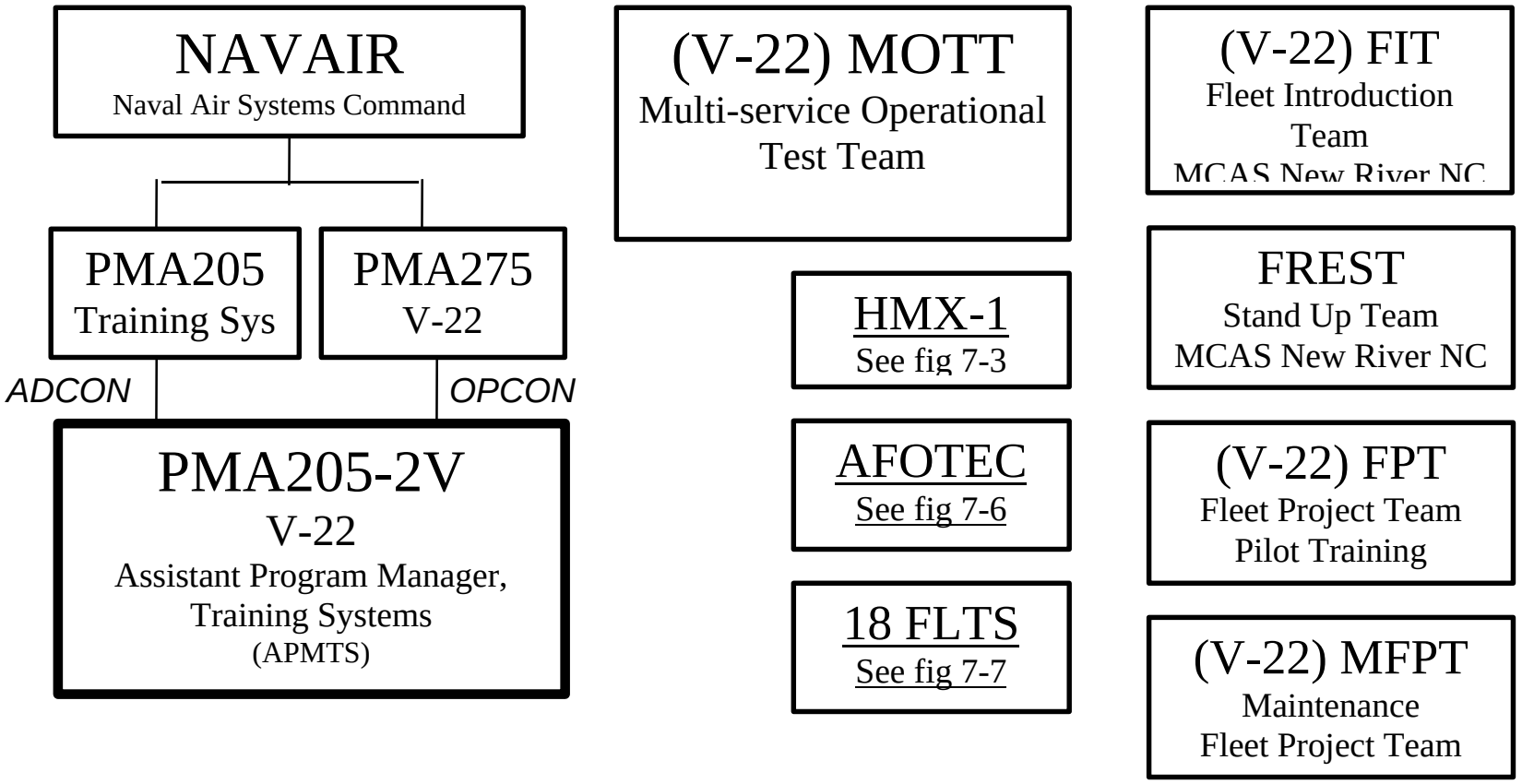

Figure 7-1

Navy Landscape

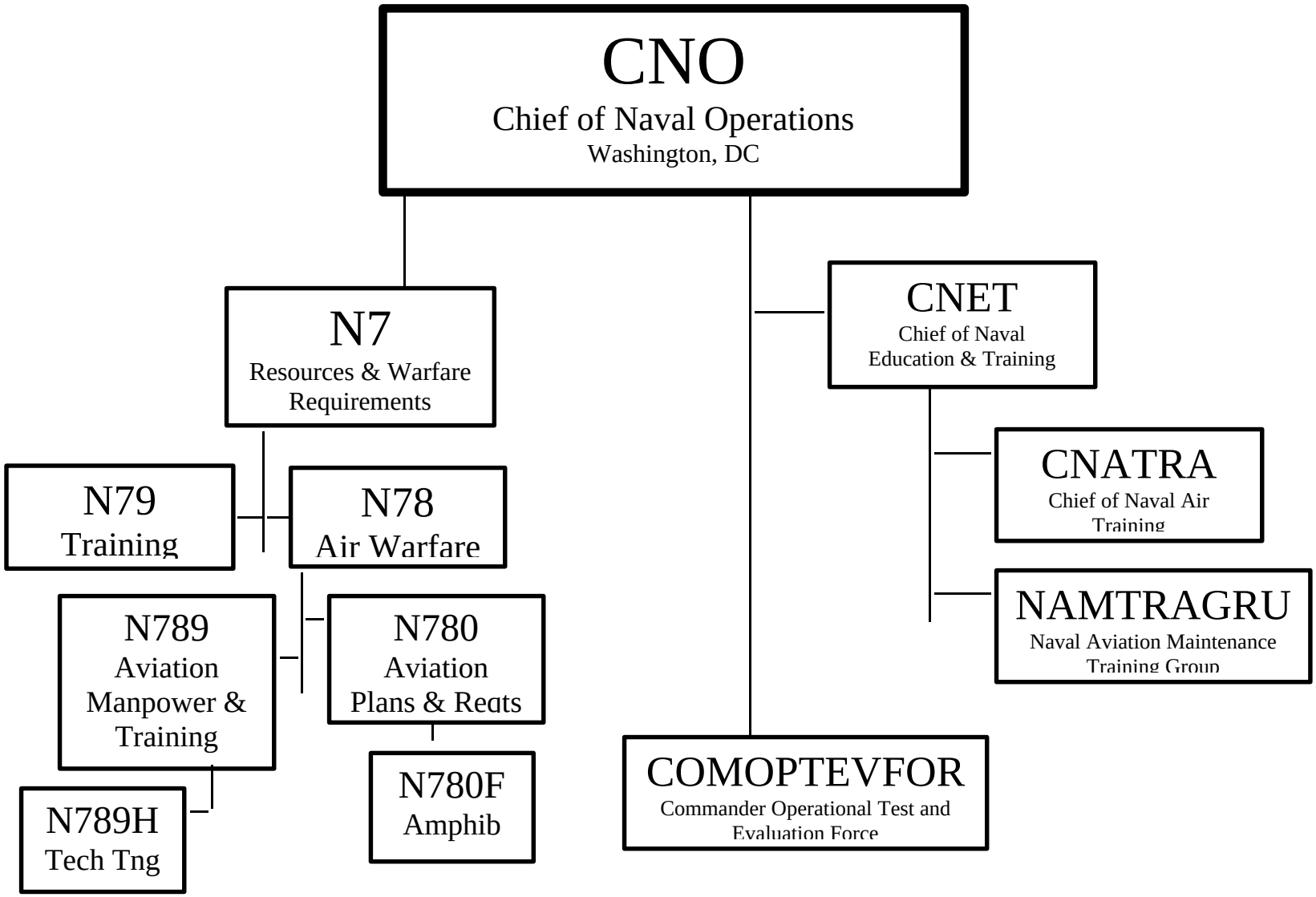

Figure 7-2

Marine Corps Landscape

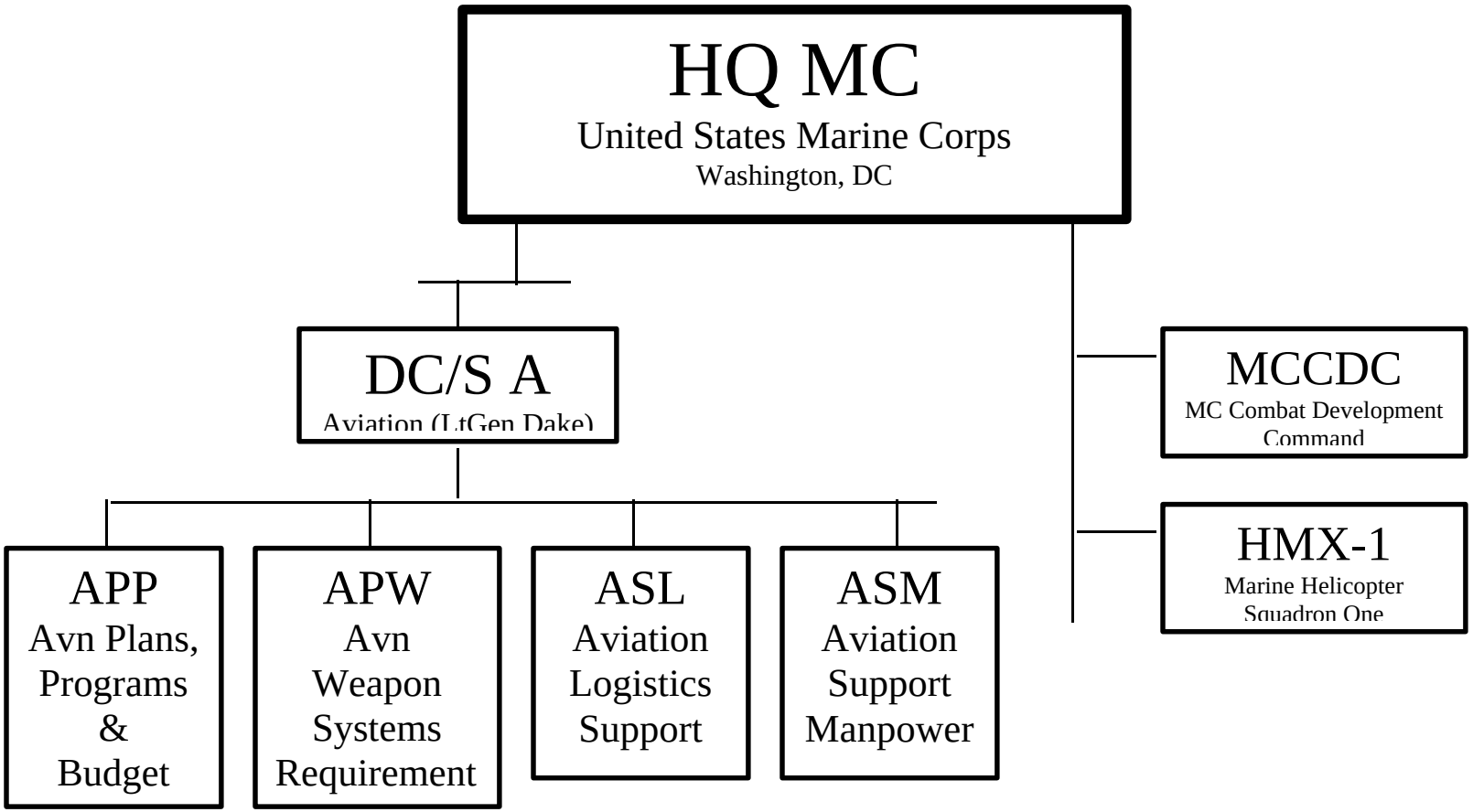

Figure 7-3

MCCDC Landscape

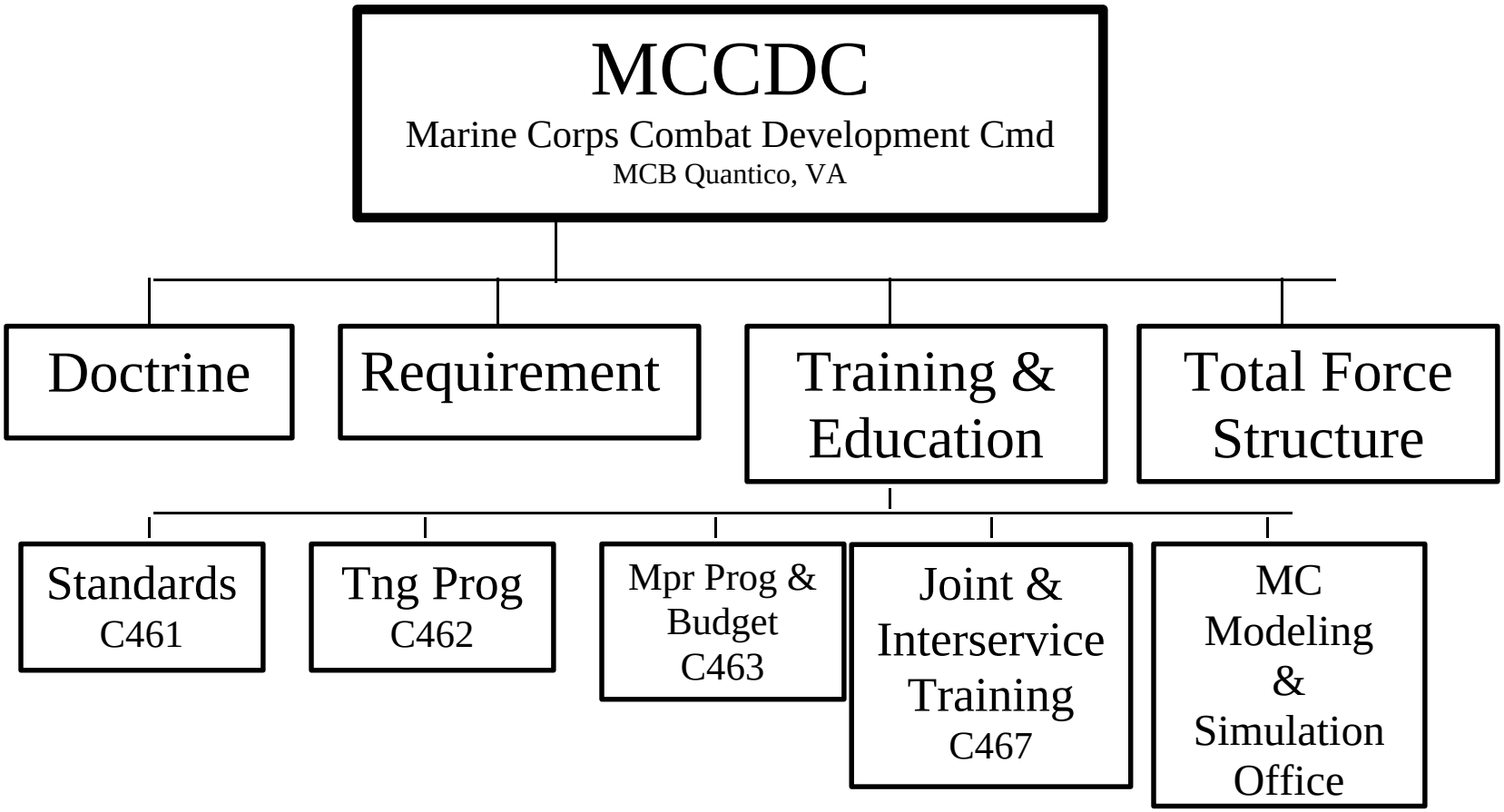

Figure 7-4

SOCOM Landscape

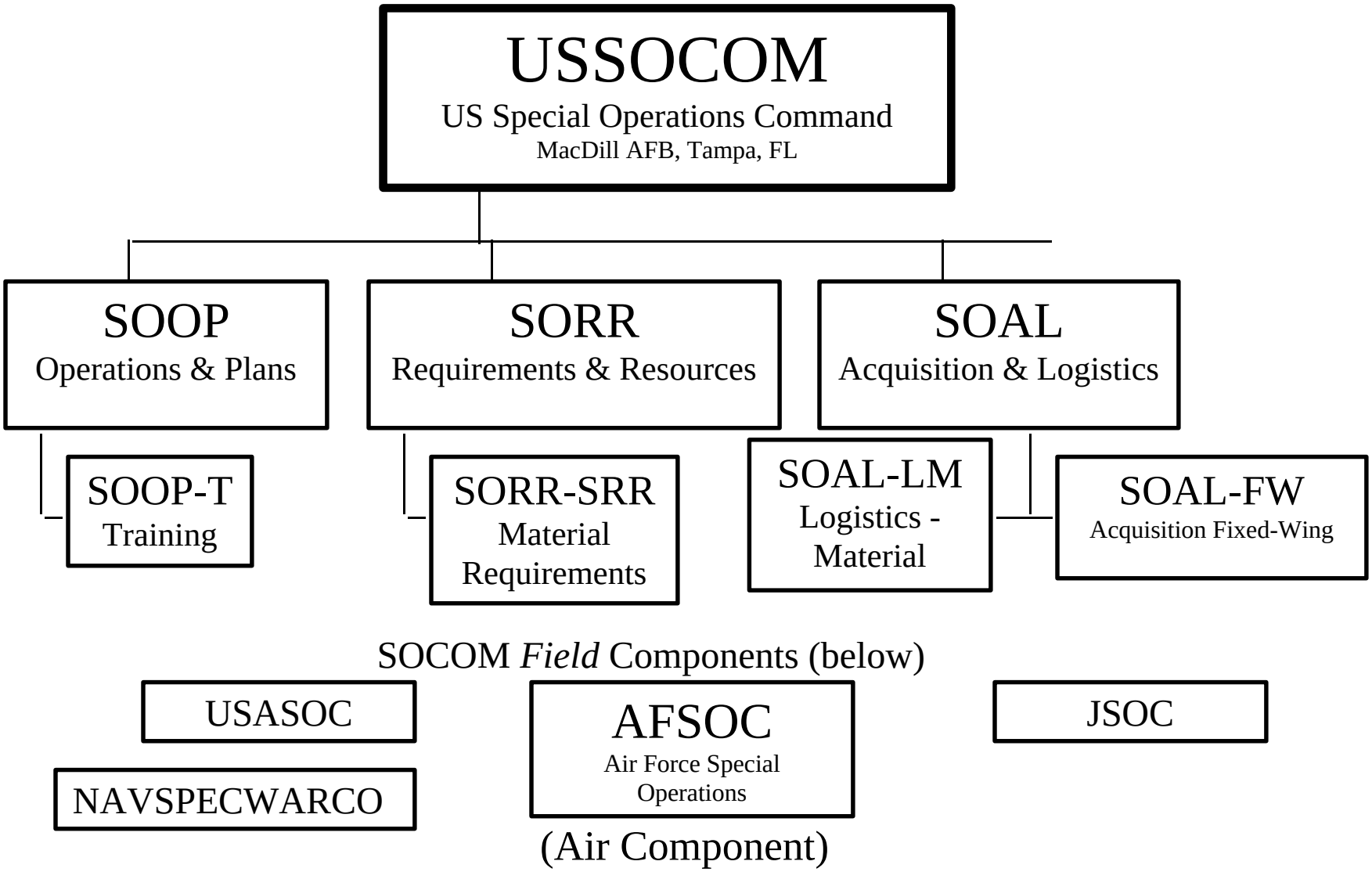

Figure 7-5

Air Force Landscape

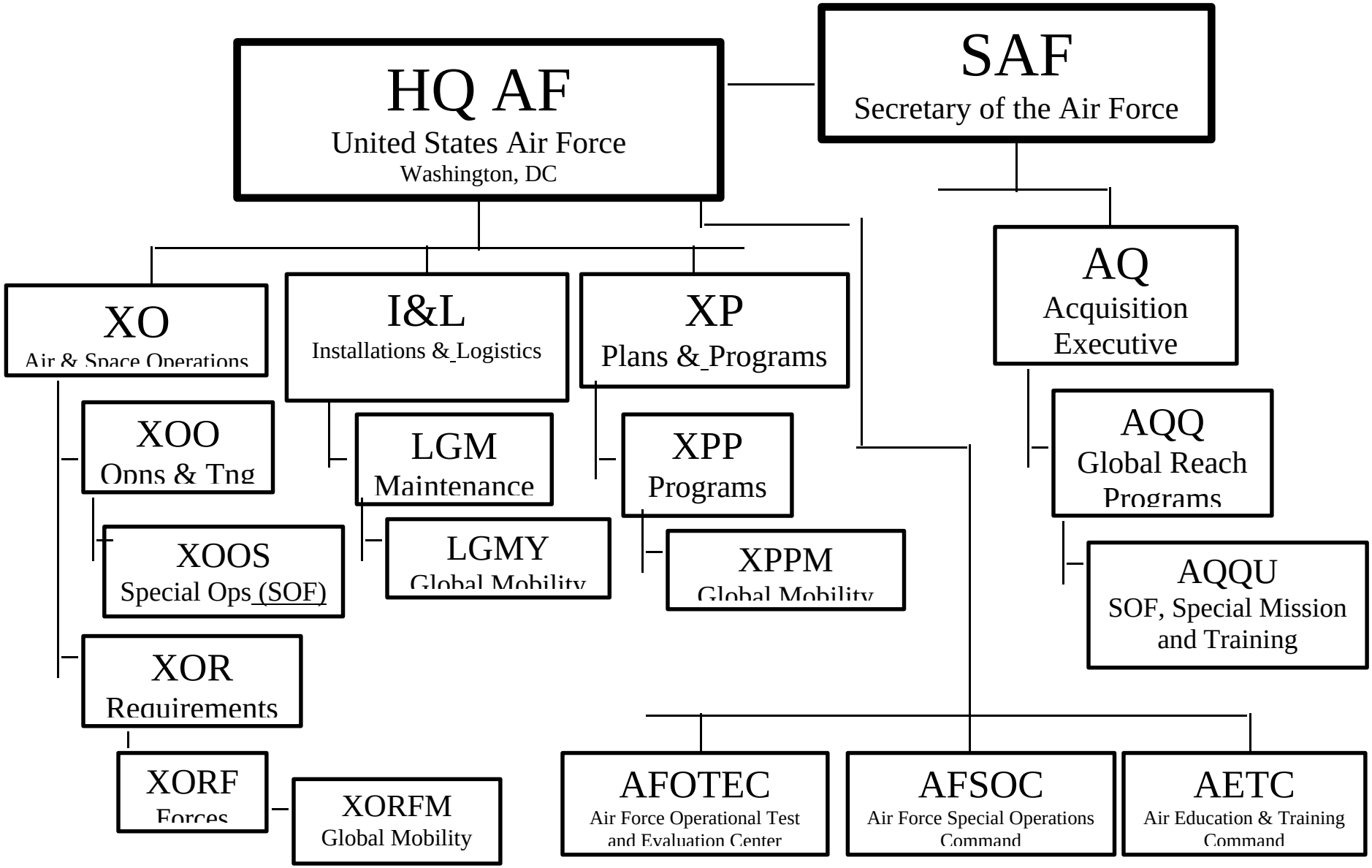

Figure 7-6

AFSOC Landscape

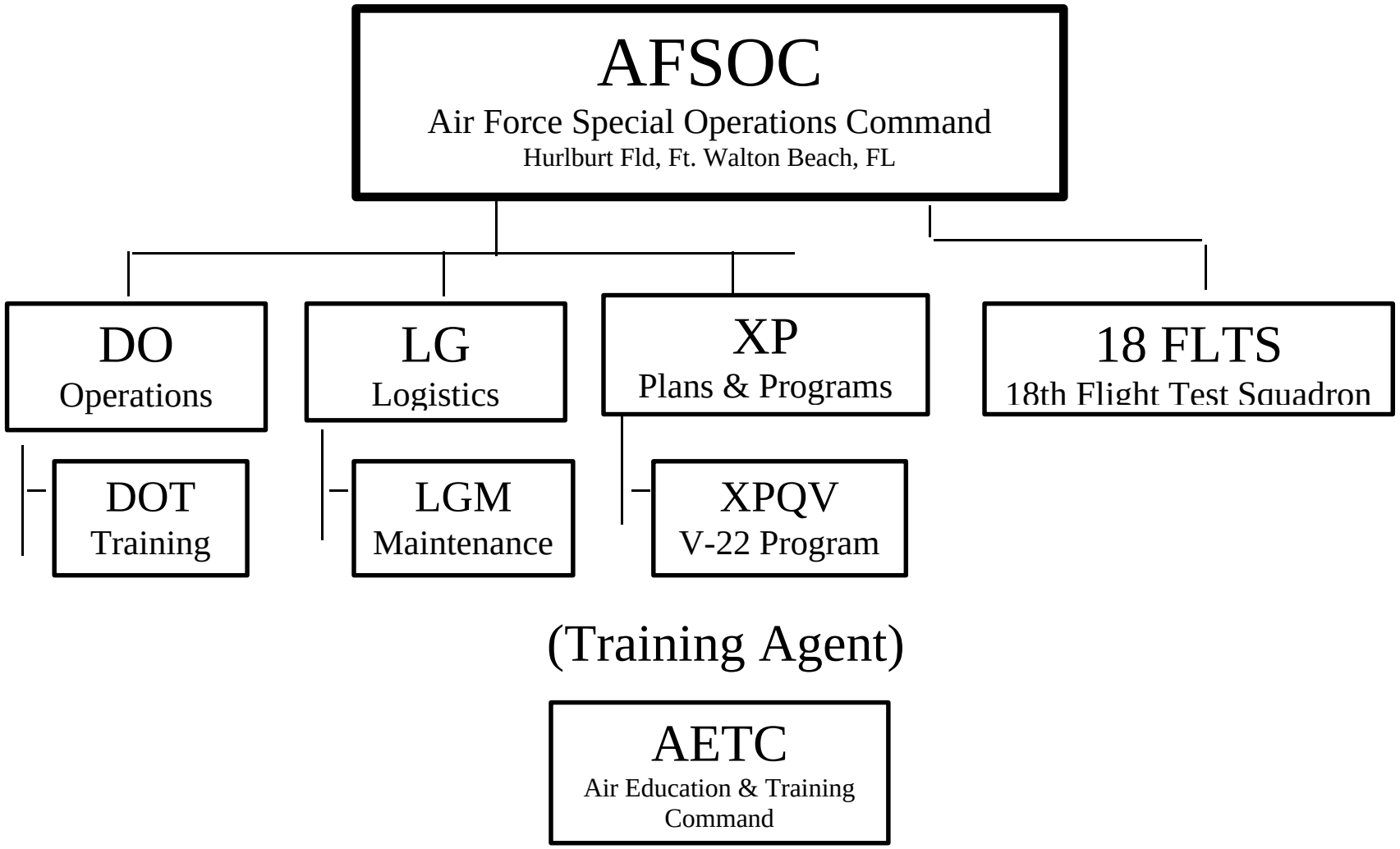

Figure 7-7

AETC Landscape

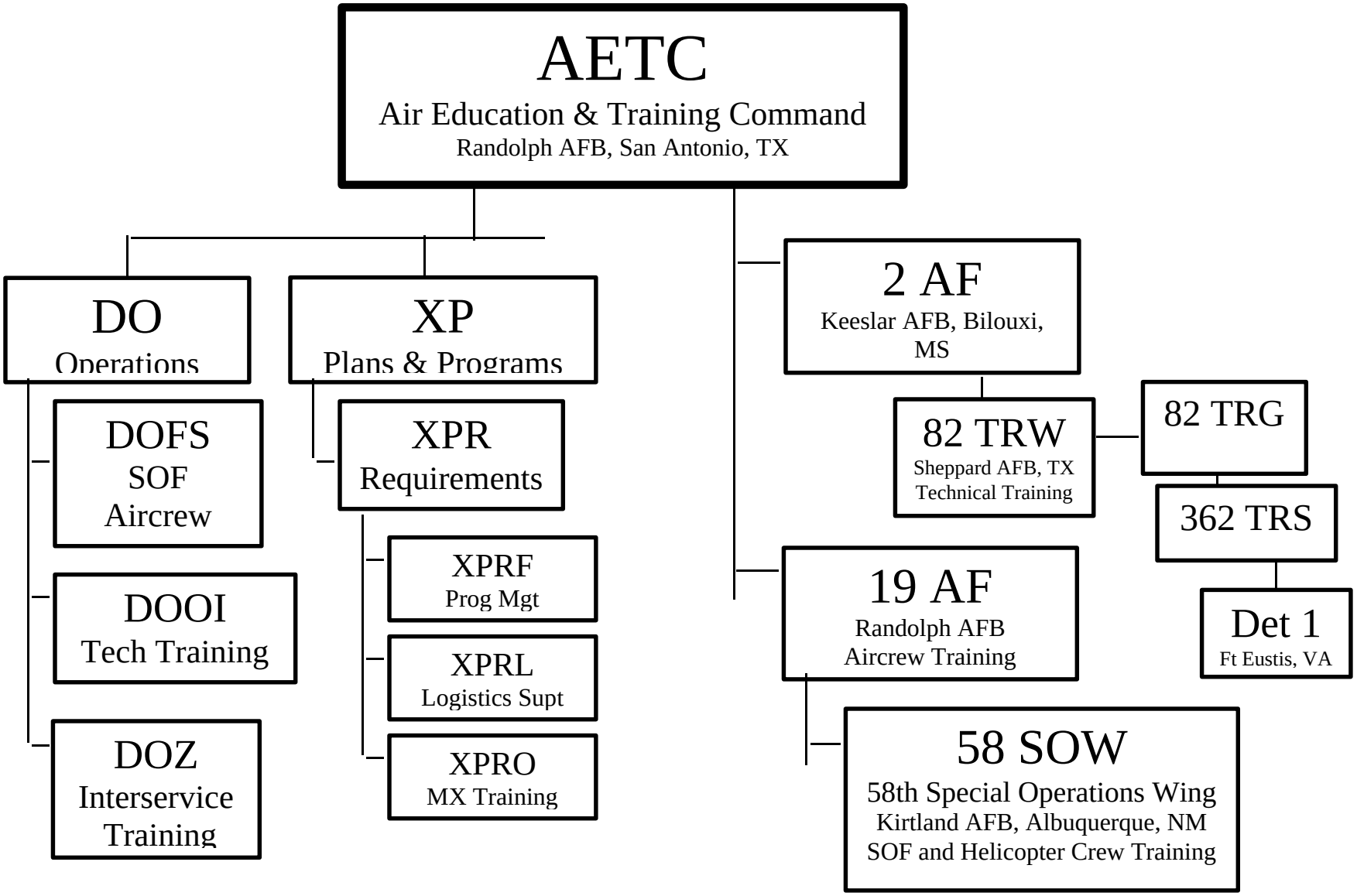

Figure 7-8

MV-22 Training Site Landscape

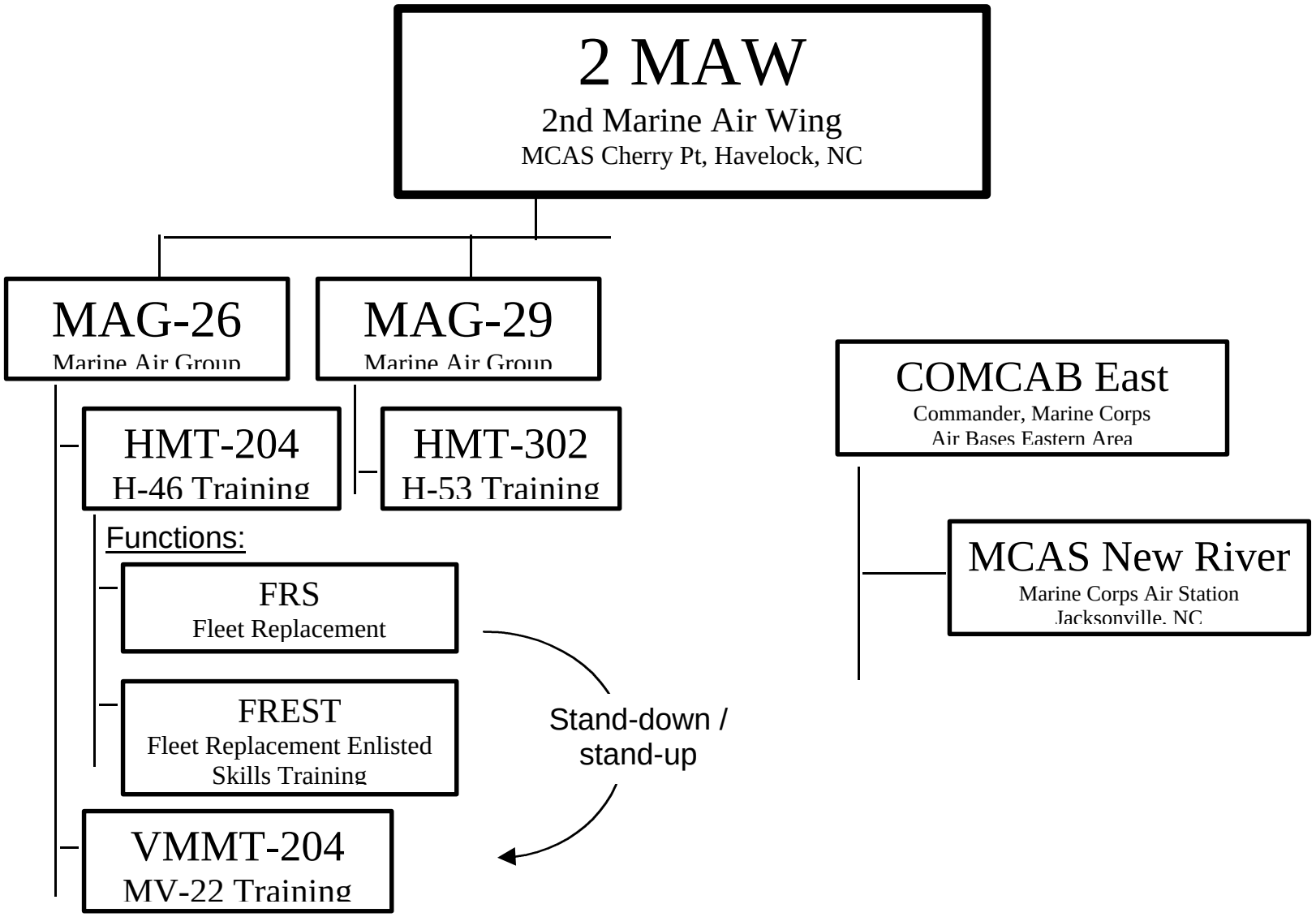

Figure 7-9

CV-22 Training Site Landscape

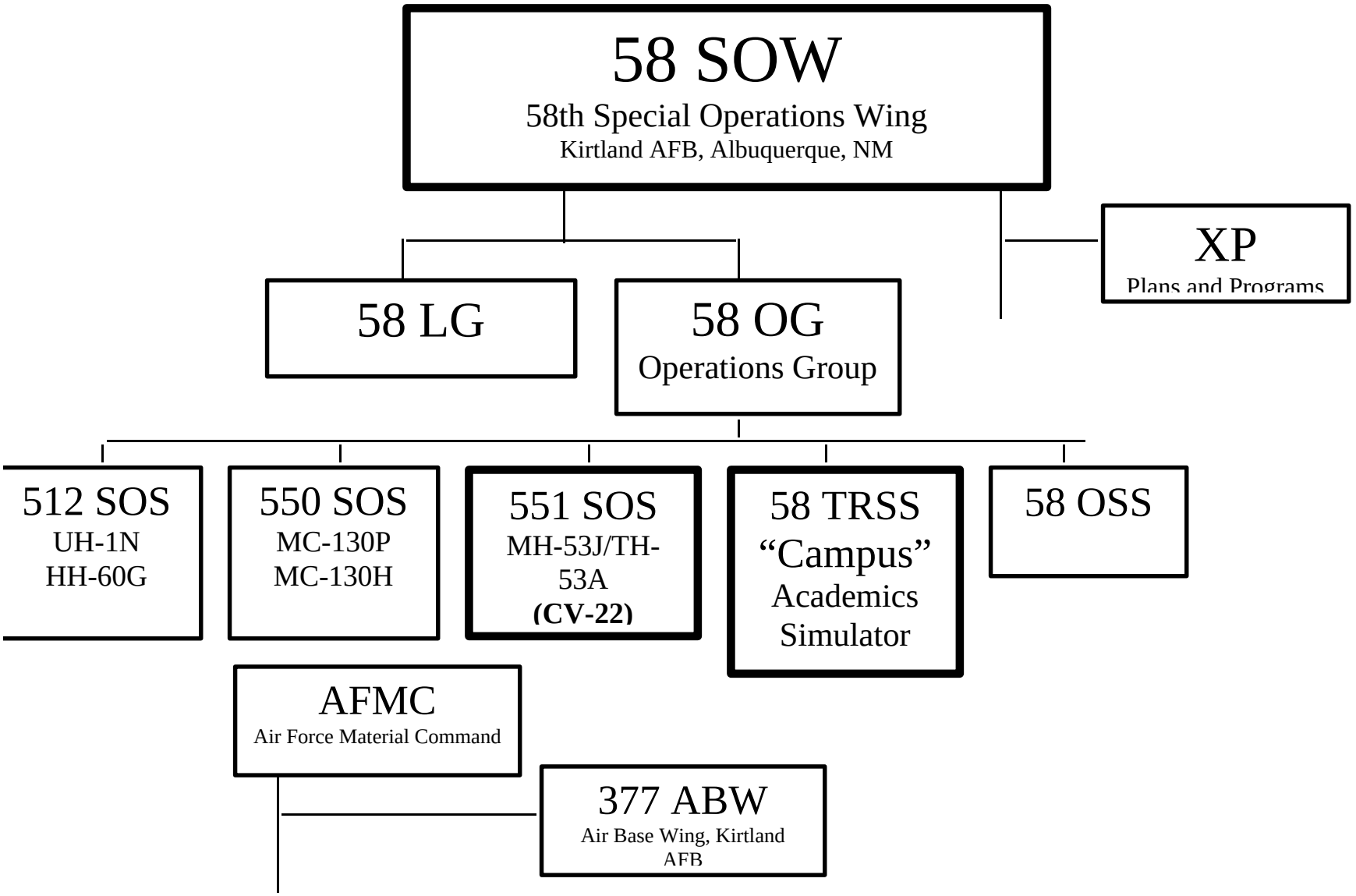

Figure 7-10

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

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

SOURCE: PMA275 (for schedule), TFS (for manpower) **DATE:** 09/01/2000

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - USMC							
CH-46 Squadron (12 Aircraft)	00000	17	0	0	0	0	0
VMM Squadron (East)	00111	1	1	1	1	0	0
VMMT-204 (FRS) MCAS New River	52842	1	0	0	0	0	0
VMM Squadron (West)	00222	0	0	0	0	1	2
TOTAL:		19	1	1	1	1	2
FLEET SUPPORT ACTIVITIES - USMC							
VMM MALS Augment (East)	00011	1	1	1	1	0	0
VMMT-204 MALS Augment	52842	1	0	0	0	0	0
VMM MALS Augment (West)	00022	0	0	0	0	1	2
TOTAL:		2	1	1	1	1	2

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
VMM Squadron (East), 00111, FY00 Increment					
USMC	1	0	0170		
ACDU	1	0	2102		
USMC	1	0	6002		
	1	0	6004		
	1	0	6302		
	28	0	7532		
	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	0431	
	0	3	CPL	6046	
	0	1	CPL	6072	
	0	5	CPL	6116	
	0	6	CPL	6156	
	0	6	CPL	6176	
	0	5	CPL	6326	
	0	3	CPL	6531	
	0	1	CPL	7041	
	0	1	GYSGT	0491	
	0	1	GYSGT	6047	
	0	1	GYSGT	6060	
	0	2	GYSGT	6116	
	0	1	GYSGT	6156	
	0	1	GYSGT	6176	
	0	1	GYSGT	6326	
	0	1	GYSGT	6531	
ACDU	0	1	HM1	8406	
	0	1	HM2	8401	
	0	1	HM2	8404	
USMC	0	2	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	1	LCPL	0231	
	0	1	LCPL	6042	
	0	1	LCPL	6046	
	0	1	LCPL	6060	
	0	9	LCPL	6116	
	0	14	LCPL	6156	
	0	6	LCPL	6176	
	0	6	LCPL	6326	
	0	2	LCPL	6531	
	0	1	LCPL	7041	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6119	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	6042	
	0	1	SGT	6060	
	0	2	SGT	6116	
	0	3	SGT	6156	
	0	4	SGT	6176	
	0	3	SGT	6326	
	0	3	SGT	6531	
	0	1	SGT	8711	
	0	1	SSGT	0231	
	0	2	SSGT	6047	
	0	1	SSGT	6072	
	0	2	SSGT	6116	
	0	4	SSGT	6156	
	0	3	SSGT	6176	
	0	2	SSGT	6326	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
VMM Squadron (East), 00111, FY01 Increment					
USMC	14	0	7532		
	0	2	CPL	6046	
	0	2	CPL	6116	
	0	3	CPL	6156	
	0	3	CPL	6176	
	0	2	CPL	6326	
	0	2	CPL	6531	
	0	1	GYSGT	6116	
	0	1	LCPL	0121	
	0	4	LCPL	6116	
	0	7	LCPL	6156	
	0	3	LCPL	6176	
	0	3	LCPL	6326	
	0	1	LCPL	6531	
	0	1	SGT	6116	
	0	2	SGT	6156	
	0	2	SGT	6176	
	0	2	SGT	6326	
	0	2	SGT	6531	
	0	1	SSGT	6047	
	0	1	SSGT	6116	
	0	2	SSGT	6156	
	0	2	SSGT	6176	
	0	1	SSGT	6326	
VMM Squadron (East), 00111, FY02 Increment					
USMC	9	0	7532		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	CPL	6046	
	0	2	CPL	6116	
	0	2	CPL	6156	
	0	2	CPL	6176	
	0	2	CPL	6326	
	0	1	CPL	6531	
	0	1	GYSGT	6116	
	0	1	LCPL	0121	
	0	3	LCPL	6116	
	0	5	LCPL	6156	
	0	2	LCPL	6176	
	0	2	LCPL	6326	
	0	1	LCPL	6531	
	0	1	SGT	6116	
	0	1	SGT	6156	
	0	1	SGT	6176	
	0	1	SGT	6326	
	0	1	SGT	6531	
	0	1	SSGT	6047	
	0	1	SSGT	6116	
	0	1	SSGT	6156	
	0	1	SSGT	6176	
	0	1	SSGT	6326	
VMM Squadron (East), 00111, FY03 Increment					
USMC	7	0	7532		
	0	1	CPL	6046	
	0	1	CPL	6116	
	0	2	CPL	6156	
	0	2	CPL	6176	
	0	1	CPL	6326	
	0	1	CPL	6531	
	0	2	LCPL	6116	
	0	4	LCPL	6156	
	0	2	LCPL	6176	
	0	2	LCPL	6326	
	0	1	SGT	6156	
	0	1	SGT	6176	
	0	1	SGT	6326	
	0	1	SGT	6531	
	0	1	SSGT	6156	
	0	1	SSGT	6176	
ACTIVITY TOTAL:	63	241			
VMMT-204 (FRS) MCAS New River, 52842					
USMC	1	0	0170		
ACDU	1	0	2102		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	2	0	6002		
	2	0	6004		
	2	0	6302		
	28	0	7532		
	0	4	CPL	0121	
	0	3	CPL	0151	
	0	1	CPL	4066	
	0	1	CPL	0431	
	0	1	CPL	6042	
	0	2	CPL	6046	
	0	2	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6092	
	0	13	CPL	6116	
	0	1	CPL	6132	
	0	8	CPL	6156	
	0	15	CPL	6176	
	0	9	CPL	6326	
	0	2	CPL	6413	
	0	2	CPL	6423	
	0	2	CPL	6433	
	0	1	CPL	6483	
	0	1	CPL	6492	
	0	3	CPL	6672	
	0	1	GYSGT	0193	
	0	1	GYSGT	6048	
	0	4	GYSGT	6116	
	0	1	GYSGT	6156	
	0	2	GYSGT	6176	
	0	2	GYSGT	6326	
	0	1	GYSGT	7041	
ACDU	0	1	HM1	8404	
	0	2	HM2	8406	
USMC	0	4	LCPL	0121	
	0	2	LCPL	0151	
	0	1	LCPL	2111	
	0	2	LCPL	4066	
	0	1	LCPL	5711	
	0	3	LCPL	6042	
	0	2	LCPL	6046	
	0	3	LCPL	6048	
	0	2	LCPL	6062	
	0	5	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6092	
	0	19	LCPL	6116	
	0	1	LCPL	6132	
	0	17	LCPL	6156	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	16	LCPL	6176	
	0	11	LCPL	6326	
	0	2	LCPL	6413	
	0	1	LCPL	6423	
	0	2	LCPL	6433	
	0	2	LCPL	6483	
	0	1	LCPL	6531	
	0	5	LCPL	6672	
	0	2	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MGYSGT	9999	
	0	4	MSGT	6019	
	0	2	MSGT	6391	
	0	2	SGT	0121	
	0	1	SGT	0151	
	0	1	SGT	6046	
	0	1	SGT	6048	
	0	1	SGT	6062	
	0	1	SGT	6092	
	0	18	SGT	6116	
	0	8	SGT	6156	
	0	14	SGT	6176	
	0	11	SGT	6326	
	0	2	SGT	6412	
	0	2	SGT	6413	
	0	1	SGT	6433	
	0	1	SGT	6483	
	0	1	SGT	6492	
	0	1	SGT	6531	
	0	2	SGT	6672	
	0	1	SGT	8711	
	0	1	SSGT	0193	
	0	3	SSGT	6046	
	0	2	SSGT	6072	
	0	15	SSGT	6116	
	0	7	SSGT	6156	
	0	6	SSGT	6176	
	0	10	SSGT	6326	
	0	1	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
VMMT-204 (FRS) MCAS New River, 52842, FY02 Increment					
USMC	1	0	9967		
	0	1	MGYSGT	6119	
VMMT-204 (FRS) MCAS New River, 52842, FY03 Increment					
USMC	0	1	GYSGT	6469	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMMT-204 (FRS) MCAS New River, 52842, FY04 Increment					
USMC	0	3	CPL	6116	
	0	3	CPL	6156	
	0	2	CPL	6176	
	0	4	CPL	6326	
	0	2	CPL	6531	
	0	4	LCPL	6116	
	0	4	LCPL	6156	
	0	3	LCPL	6176	
	0	4	LCPL	6326	
	0	1	LCPL	6531	
	0	2	SGT	6116	
	0	2	SGT	6156	
	0	2	SGT	6176	
	0	2	SGT	6326	
	0	1	SSGT	6116	
	0	1	SSGT	6156	
	0	2	SSGT	6176	
	0	1	SSGT	6326	
ACTIVITY TOTAL:	37	365			
VMM Squadron (West), 00222, FY04 Increment					
USMC	1	0	0170		
ACDU	1	0	2102		
USMC	1	0	6002		
	1	0	6004		
	1	0	6302		
	28	0	7532		
	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	0431	
	0	3	CPL	6046	
	0	1	CPL	6072	
	0	5	CPL	6116	
	0	6	CPL	6156	
	0	6	CPL	6176	
	0	5	CPL	6326	
	0	3	CPL	6531	
	0	1	CPL	7041	
	0	1	GYSGT	0491	
	0	1	GYSGT	6047	
	0	1	GYSGT	6060	
	0	2	GYSGT	6116	
	0	1	GYSGT	6156	
	0	1	GYSGT	6176	
	0	1	GYSGT	6326	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	GYSGT	6531	
ACDU	0	1	HM1	8406	
	0	1	HM2	8401	
	0	1	HM2	8404	
USMC	0	2	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	1	LCPL	0231	
	0	1	LCPL	6042	
	0	1	LCPL	6046	
	0	1	LCPL	6060	
	0	9	LCPL	6116	
	0	14	LCPL	6156	
	0	6	LCPL	6176	
	0	6	LCPL	6326	
	0	2	LCPL	6531	
	0	1	LCPL	7041	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6119	
	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	6042	
	0	1	SGT	6060	
	0	2	SGT	6116	
	0	3	SGT	6156	
	0	4	SGT	6176	
	0	3	SGT	6326	
	0	3	SGT	6531	
	0	1	SGT	8711	
	0	1	SSGT	0231	
	0	2	SSGT	6047	
	0	1	SSGT	6072	
	0	2	SSGT	6116	
	0	4	SSGT	6156	
	0	3	SSGT	6176	
	0	2	SSGT	6326	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
VMM Squadron (West), 00222, FY05 Increment					
USMC	1	0	0170		
ACDU	1	0	2102		
USMC	1	0	6002		
	1	0	6004		
	1	0	6302		
	19	0	7532		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	0431	
	0	2	CPL	6046	
	0	1	CPL	6072	
	0	3	CPL	6116	
	0	4	CPL	6156	
	0	4	CPL	6176	
	0	3	CPL	6326	
	0	2	CPL	6531	
	0	1	CPL	7041	
	0	1	GYSGT	0491	
	0	1	GYSGT	6047	
	0	1	GYSGT	6060	
	0	1	GYSGT	6116	
	0	1	GYSGT	6156	
	0	1	GYSGT	6176	
	0	1	GYSGT	6326	
	0	1	GYSGT	6531	
ACDU	0	1	HM1	8406	
	0	1	HM2	8401	
	0	1	HM2	8404	
USMC	0	1	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	1	LCPL	0231	
	0	1	LCPL	6042	
	0	1	LCPL	6046	
	0	1	LCPL	6060	
	0	6	LCPL	6116	
	0	9	LCPL	6156	
	0	4	LCPL	6176	
	0	4	LCPL	6326	
	0	1	LCPL	6531	
	0	1	LCPL	7041	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6119	
	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	6042	
	0	1	SGT	6060	
	0	1	SGT	6116	
	0	2	SGT	6156	
	0	3	SGT	6176	
	0	2	SGT	6326	
	0	2	SGT	6531	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	SGT	8711	
	0	1	SSGT	0231	
	0	1	SSGT	6047	
	0	1	SSGT	6072	
	0	1	SSGT	6116	
	0	3	SSGT	6156	
	0	2	SSGT	6176	
	0	1	SSGT	6326	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
VMM Squadron (West), 00222, FY06 Increment					
USMC	11	0	7532		
	0	1	CPL	6046	
	0	2	CPL	6116	
	0	2	CPL	6156	
	0	2	CPL	6176	
	0	2	CPL	6326	
	0	1	CPL	6531	
	0	1	GYSGT	6116	
	0	1	LCPL	0121	
	0	4	LCPL	6116	
	0	6	LCPL	6156	
	0	2	LCPL	6176	
	0	2	LCPL	6326	
	0	1	LCPL	6531	
	0	1	SGT	6116	
	0	1	SGT	6156	
	0	2	SGT	6176	
	0	1	SGT	6326	
	0	1	SGT	6531	
	0	1	SSGT	6047	
	0	1	SSGT	6116	
	0	2	SSGT	6156	
	0	1	SSGT	6176	
	0	1	SSGT	6326	
VMM Squadron (West), 00222, FY08 Increment					
USMC	6	0	7532		
	0	1	CPL	6046	
	0	1	CPL	6116	
	0	1	CPL	6156	
	0	1	CPL	6176	
	0	1	CPL	6326	
	0	1	CPL	6531	
	0	2	LCPL	6116	
	0	3	LCPL	6156	
	0	1	LCPL	6176	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	LCPL	6326	
	0	1	SGT	6156	
	0	1	SGT	6176	
	0	1	SGT	6326	
	0	1	SGT	6531	
	0	1	SSGT	6156	
	0	1	SSGT	6176	
ACTIVITY TOTAL:	74	287			
FLEET SUPPORT ACTIVITIES - USMC					
VMM MALS Augment (East), 00011, FY00 Increment					
USMC	0	1	CPL	6092	6044
	0	1	CPL	6413	
	0	2	CPL	6467	
	0	1	CPL	6483	
	0	2	CPL	6541	
	0	2	CPL	6672	
	0	2	LCPL	6060	
	0	1	LCPL	6072	
	0	1	LCPL	6094	
	0	1	LCPL	6132	
	0	1	LCPL	6423	
	0	1	LCPL	6433	
	0	2	LCPL	6467	
	0	2	LCPL	6492	
	0	3	LCPL	6672	
	0	1	SGT	6132	
	0	1	SGT	6422	6412
	0	1	SGT	6433	
	0	1	SGT	6672	
VMM MALS Augment (East), 00011, FY01 Increment					
USMC	0	1	CPL	6467	
	0	1	CPL	6541	
	0	1	CPL	6672	
	0	1	LCPL	6060	
	0	1	LCPL	6467	
	0	1	LCPL	6492	
	0	2	LCPL	6672	
VMM MALS Augment (East), 00011, FY02 Increment					
USMC	0	1	CPL	6467	
	0	1	CPL	6541	
	0	1	CPL	6672	
	0	1	LCPL	6060	
	0	1	LCPL	6467	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	LCPL	6492	
	0	1	LCPL	6672	
VMM MALS Augment (East), 00011, FY03 Increment					
USMC	0	1	LCPL	6672	
ACTIVITY TOTAL:	0	43			
VMMT-204 MALS Augment, 52842					
USMC	0	1	CPL	6060	
	0	1	CPL	6092	6043
	0	1	CPL	6094	
	0	1	CPL	6132	
	0	2	CPL	6413	
	0	2	CPL	6423	
	0	2	CPL	6433	
	0	1	CPL	6483	
	0	1	CPL	6492	
	0	3	CPL	6672	
	0	1	LCPL	6060	
	0	2	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6092	
	0	2	LCPL	6094	
	0	1	LCPL	6132	
	0	2	LCPL	6413	
	0	1	LCPL	6423	
	0	2	LCPL	6433	
	0	2	LCPL	6483	
	0	4	LCPL	6672	
	0	1	SGT	6092	6044
	0	1	SGT	6094	
	0	2	SGT	6412	
	0	2	SGT	6413	
	0	1	SGT	6433	
	0	1	SGT	6483	
	0	1	SGT	6492	
	0	1	SGT	6672	
ACTIVITY TOTAL:	0	46			
VMM MALS Augment (West), 00022, FY04 Increment					
USMC	0	1	CPL	6092	6044
	0	1	CPL	6413	
	0	2	CPL	6467	
	0	1	CPL	6483	
	0	2	CPL	6541	
	0	2	CPL	6672	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	LCPL	6060	
	0	1	LCPL	6072	
	0	1	LCPL	6094	
	0	1	LCPL	6132	
	0	1	LCPL	6423	
	0	1	LCPL	6433	
	0	2	LCPL	6467	
	0	2	LCPL	6492	
	0	3	LCPL	6672	
	0	1	SGT	6132	
	0	1	SGT	6422	6412
	0	1	SGT	6433	
	0	1	SGT	6672	
VMM MALS Augment (West), 00022, FY05 Increment					
USMC	0	1	CPL	6092	6044
	0	1	CPL	6413	
	0	1	CPL	6467	
	0	1	CPL	6483	
	0	1	CPL	6541	
	0	1	CPL	6672	
	0	1	LCPL	6060	
	0	1	LCPL	6072	
	0	1	LCPL	6094	
	0	1	LCPL	6132	
	0	1	LCPL	6423	
	0	1	LCPL	6433	
	0	1	LCPL	6467	
	0	1	LCPL	6492	
	0	2	LCPL	6672	
	0	1	SGT	6132	
	0	1	SGT	6422	6412
	0	1	SGT	6433	
	0	1	SGT	6672	
VMM MALS Augment (West), 00022, FY06 Increment					
USMC	0	1	CPL	6467	
	0	1	CPL	6541	
	0	1	CPL	6672	
	0	1	LCPL	6060	
	0	1	LCPL	6467	
	0	1	LCPL	6492	
	0	1	LCPL	6672	
VMM MALS Augment (West), 00022, FY08 Increment					
USMC	0	1	LCPL	6672	
ACTIVITY TOTAL:	0	55			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
USMC OPERATIONAL ACTIVITIES - ACDU													
2102		2		1		1		1		1		2	
HM1	8404		1		0		0		0		0		0
HM1	8406		1		1		1		1		1		2
HM2	8401		1		1		1		1		1		2
HM2	8404		1		1		1		1		1		2
HM2	8406		2		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC													
0170		2		1		1		1		1		2	
6002		3		1		1		1		1		2	
6004		3		1		1		1		1		2	
6302		3		1		1		1		1		2	
7532		56		28		28		28		28		56	
9967		0		0		1		0		0		0	
CPL	0121		5		1		1		1		1		2
CPL	0151		4		1		1		1		1		2
CPL	4066		1		0		0		0		0		0
CPL	0431		2		1		1		1		1		2
CPL	6042		1		0		0		0		0		0
CPL	6046		5		3		3		3		3		6
CPL	6048		2		0		0		0		0		0
CPL	6062		1		0		0		0		0		0
CPL	6072		1		1		1		1		1		2
CPL	6092		1		0		0		0		0		0
CPL	6116		18		5		5		5		8		10
CPL	6132		1		0		0		0		0		0
CPL	6156		14		6		6		6		9		12
CPL	6176		21		6		6		6		8		12
CPL	6326		14		5		5		5		9		10
CPL	6413		2		0		0		0		0		0
CPL	6423		2		0		0		0		0		0
CPL	6433		2		0		0		0		0		0
CPL	6483		1		0		0		0		0		0
CPL	6492		1		0		0		0		0		0
CPL	6531		3		3		3		3		5		6
CPL	6672		3		0		0		0		0		0
CPL	7041		1		1		1		1		1		2
GYSGT	0193		1		0		0		0		0		0
GYSGT	0491		1		1		1		1		1		2
GYSGT	6047		1		1		1		1		1		2
GYSGT	6048		1		0		0		0		0		0
GYSGT	6060		1		1		1		1		1		2
GYSGT	6116		6		2		2		2		2		4
GYSGT	6156		2		1		1		1		1		2
GYSGT	6176		3		1		1		1		1		2

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
GYSGT	6326		3		1		1		1		1		2
GYSGT	6469		0		0		0		1		0		0
GYSGT	6531		1		1		1		1		1		2
GYSGT	7041		1		0		0		0		0		0
LCPL	0121		6		2		2		2		2		4
LCPL	0151		3		1		1		1		1		2
LCPL	2111		2		1		1		1		1		2
LCPL	0231		1		1		1		1		1		2
LCPL	4066		2		0		0		0		0		0
LCPL	5711		1		0		0		0		0		0
LCPL	6042		4		1		1		1		1		2
LCPL	6046		3		1		1		1		1		2
LCPL	6048		3		0		0		0		0		0
LCPL	6060		1		1		1		1		1		2
LCPL	6062		2		0		0		0		0		0
LCPL	6072		5		0		0		0		0		0
LCPL	6073		2		0		0		0		0		0
LCPL	6092		2		0		0		0		0		0
LCPL	6116		28		9		9		9		13		18
LCPL	6132		1		0		0		0		0		0
LCPL	6156		31		14		14		14		18		28
LCPL	6176		22		6		6		6		9		12
LCPL	6326		17		6		6		6		10		12
LCPL	6413		2		0		0		0		0		0
LCPL	6423		1		0		0		0		0		0
LCPL	6433		2		0		0		0		0		0
LCPL	6483		2		0		0		0		0		0
LCPL	6531		3		2		2		2		3		4
LCPL	6672		5		0		0		0		0		0
LCPL	7041		3		1		1		1		1		2
MGYSGT	6019		1		0		0		0		0		0
MGYSGT	6119		1		1		2		1		1		2
MGYSGT	9999		2		1		1		1		1		2
MSGT	0193		1		1		1		1		1		2
MSGT	6019		4		0		0		0		0		0
MSGT	6119		1		1		1		1		1		2
MSGT	6391		3		1		1		1		1		2
SGT	0121		3		1		1		1		1		2
SGT	0151		1		0		0		0		0		0
SGT	6042		1		1		1		1		1		2
SGT	6046		1		0		0		0		0		0
SGT	6047		0		0		0		0		0		0
SGT	6048		1		0		0		0		0		0
SGT	6060		1		1		1		1		1		2
SGT	6062		1		0		0		0		0		0
SGT	6092		1		0		0		0		0		0
SGT	6116		20		2		2		2		4		4
SGT	6156		11		3		3		3		5		6

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
SGT	6176		18		4		4		4		6		8
SGT	6326		14		3		3		3		5		6
SGT	6412		2		0		0		0		0		0
SGT	6413		2		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		4		3		3		3		3		6
SGT	6672		2		0		0		0		0		0
SGT	8711		2		1		1		1		1		2
SSGT	0193		1		0		0		0		0		0
SSGT	0231		1		1		1		1		1		2
SSGT	6046		3		0		0		0		0		0
SSGT	6047		2		2		2		2		2		4
SSGT	6072		3		1		1		1		1		2
SSGT	6116		17		2		2		2		3		4
SSGT	6156		11		4		4		4		5		8
SSGT	6175		0		0		0		0		0		0
SSGT	6176		9		3		3		3		5		6
SSGT	6326		12		2		2		2		3		4
SSGT	6531		1		0		0		0		0		0
SSGT	7041		2		1		1		1		1		2
SSGT	8421		2		1		1		1		1		2
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	6060		1		0		0		0		0		0
CPL	6092 6043		1		0		0		0		0		0
CPL	6092 6044		1		1		1		1		1		2
CPL	6094		1		0		0		0		0		0
CPL	6132		1		0		0		0		0		0
CPL	6413		3		1		1		1		1		2
CPL	6423		2		0		0		0		0		0
CPL	6433		2		0		0		0		0		0
CPL	6467		2		2		2		2		2		4
CPL	6483		2		1		1		1		1		2
CPL	6492		1		0		0		0		0		0
CPL	6541		2		2		2		2		2		4
CPL	6672		5		2		2		2		2		4
LCPL	6060		3		2		2		2		2		4
LCPL	6072		3		1		1		1		1		2
LCPL	6073		2		0		0		0		0		0
LCPL	6092		2		0		0		0		0		0
LCPL	6094		3		1		1		1		1		2
LCPL	6132		2		1		1		1		1		2
LCPL	6413		2		0		0		0		0		0
LCPL	6423		2		1		1		1		1		2
LCPL	6433		3		1		1		1		1		2
LCPL	6467		2		2		2		2		2		4

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
LCPL	6483		2		0		0		0		0		0
LCPL	6492		2		2		2		2		2		4
LCPL	6672		7		3		3		3		3		6
SGT	6092 6044		1		0		0		0		0		0
SGT	6094		1		0		0		0		0		0
SGT	6132		1		1		1		1		1		2
SGT	6412		2		0		0		0		0		0
SGT	6413		2		0		0		0		0		0
SGT	6422 6412		1		1		1		1		1		2
SGT	6433		2		1		1		1		1		2
SGT	6483		1		0		0		0		0		0
SGT	6492		1		0		0		0		0		0
SGT	6672		2		1		1		1		1		2
SUMMARY TOTALS:													
USMC OPERATIONAL ACTIVITIES - ACDU		2	6	1	3	1	3	1	3	1	3	2	6
USMC OPERATIONAL ACTIVITIES - USMC		67	446	32	129	33	130	32	130	32	172	64	258
USMC FLEET SUPPORT ACTIVITIES - USMC			73		27		27		27		27		54
GRAND TOTALS:													
USMC - ACDU		2	6	1	3	1	3	1	3	1	3	2	6
USMC - USMC		67	519	32	156	33	157	32	157	32	199	64	312

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

SOURCE: PMA275 (for schedule), TFS (for manpower) **DATE:** 09/01/2000

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - USMC							
CH-46 Squadron (12 Aircraft)	00000	1	1	1	1	1	2
TOTAL:		1	1	1	1	1	2

There are 18 CH-46 Squadrons and four CH-53D Squadrons that will transition to the MV-22. The schedule calls for one CH-46 Squadron transitioning per year beginning in FY01 until FY04. Starting in FY05, two CH-46 Squadrons will transition per year until all squadrons have transitioned, which will occur in FY14.

HMT-204 continues CH-46 FREST training, but transferred FRS responsibilities to MCAS Miramar.

This Deactivation Schedule shows CH-46 Squadrons transitioning only. The four CH-53D Squadrons will transition in the out-years and will be included as they come into transition.

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
VMMT-204 (FRS) MCAS New River, 52842, FY02 Increment					
USMC	3	0	7532		
	0	1	CPL	6326	
	0	2	MSGT	6119	
	0	1	SGT	6047	
	0	2	SGT	6116	
	0	2	SGT	6156	
	0	1	SGT	6326	
	0	1	SGT	6412	
	0	1	SSGT	6116	
	0	2	SSGT	6156	
	0	2	SSGT	6175	
	0	2	SSGT	6326	
ACTIVITY TOTAL:	3	17			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
USMC OPERATIONAL ACTIVITIES - USMC													
7532		28		0		-3		0		0		0	
CPL	6326		9		0		-1		0		0		0
MSGT	6119		0		0		-2		0		0		0
SGT	6047		0		0		-1		0		0		0
SGT	6116		18		0		-2		0		0		0
SGT	6156		8		0		-2		0		0		0
SGT	6326		11		0		-1		0		0		0
SGT	6412		2		0		-1		0		0		0
SSGT	6116		15		0		-1		0		0		0
SSGT	6156		7		0		-2		0		0		0
SSGT	6175		0		0		-2		0		0		0
SSGT	6326		10		0		-2		0		0		0

SUMMARY TOTALS:

USMC OPERATIONAL ACTIVITIES - USMC													
		28	80	0	0	-3	-17	0	0	0	0	0	0

GRAND TOTALS:

USMC - USMC													
		28	80	0	0	-3	-17	0	0	0	0	0	0

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

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

Marine Corps Instructor Requirements

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRU DET Osprey, MCAS New River, South Carolina, 52842

INSTRUCTOR BILLETS

USMC													
GYSGT	6116	0	0	0	8	0	10	0	9	0	9	0	11
GYSGT	6156	0	0	0	3	0	5	0	4	0	4	0	6
GYSGT	6176	0	0	0	9	0	14	0	10	0	10	0	17
GYSGT	6326	0	0	0	3	0	6	0	4	0	4	0	6
TOTAL:		0	0	0	23	0	35	0	27	0	27	0	40

HMT-204 was disestablished in FY00 and will start training personnel in March 2001 for the MV-22. HMT-204FREST will continue to train maintenance personnel for CH-46. HMT-204 FRS Pilot Training was moved to HMM-164 in Tustin, California.

Instructor requirements were calculated by Inter-service Training Review Organization (ITRO) methodology MCAS New River and were used in this part of the JTSP.

MALS Augment personnel for VMMT-204 were trained during Initial Training for EMD as they will be required prior to their training being established.

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

Air Force Instructor Requirements

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
INSTRUCTOR BILLETS													
TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRU DET Osprey, MCAS New River, 52842													
USAF													
	1A1X1B	0	0	0	1	0	1	0	4	0	5	0	8
	2A3X2	0	0	0	1	0	2	0	2	0	2	0	2
	2A5X2	0	0	0	0	0	2	0	2	0	2	0	2
	2A6X1B	0	0	0	0	0	1	0	1	0	1	0	1
	2A6X5	0	0	0	0	0	1	0	1	0	1	0	1
	2A6X6	0	0	0	1	0	2	0	2	0	2	0	2
TOTAL ACTIVITY:		0	0	0	3	0	9	0	12	0	13	0	16

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
INSTRUCTOR BILLETS													
TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRU DET Osprey, MCAS New River, 52842													
USAF													
	1A1X1B	0	8	0	10	0	11	0	10	0	10	0	10
	2A3X2	0	2	0	2	0	3	0	3	0	4	0	4
	2A5X2	0	2	0	2	0	2	0	2	0	2	0	2
	2A6X1B	0	1	0	1	0	1	0	1	0	1	0	1
	2A6X5	0	1	0	1	0	2	0	2	0	2	0	2
	2A6X6	0	2	0	2	0	3	0	3	0	4	0	4
TOTAL ACTIVITY:		0	16	0	18	0	22	0	21	0	23	0	23

NOTE: Instructor requirements were calculated by the Inter-service Training Organization (ITRO) methodology in MCAS New River.

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204 FRS, MCAS New River, 52842													
	USMC	0.0	0.0	15.3	8.7	29.1	16.3	16.8	11.2	19.2	11.8	37.0	19.0
NAMTRAGRU DET Osprey, MCAS New River, 52842													
	USMC	0.0	0.0	0.0	22.3	0.0	40.4	0.0	28.5	0.0	29.6	0.0	46.8
SUMMARY TOTALS:													
	USMC	0.0	0.0	15.3	31.0	29.1	56.7	16.8	39.7	19.2	41.4	37.0	65.8
GRAND TOTALS:													
	USMC	0.0	0.0	15.3	31.0	29.1	56.7	16.8	39.7	19.2	41.4	37.0	65.8
VMMT-204 FRS, MCAS New River, 52842													
	USMC	37.0	19.0	46.8	20.5	44.4	22.0	48.3	23.8	53.3	25.3	58.2	27.1
NAMTRAGRU DET Osprey, MCAS New River, 52842													
	USMC	0.0	46.8	0.0	51.0	0.0	54.9	0.0	58.3	0.0	62.4	0.0	66.5
SUMMARY TOTALS:													
	USMC	37.0	65.8	46.8	71.5	44.4	76.9	48.3	82.1	53.3	87.7	58.2	93.6
GRAND TOTALS:													
	USMC	37.0	65.8	46.8	71.5	44.4	76.9	48.3	82.1	53.3	87.7	58.2	93.6

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
a. OFFICER - USN													
Operational Billets ACDU and TAR													
2102			2	1	3	1	4	1	5	1	6	2	8
TOTAL USN OFFICER BILLETS:													
Operational			2	1	3	1	4	1	5	1	6	2	8
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
HM1	8404		1	0	1	0	1	0	1	0	1	0	1
HM1	8406		1	1	2	1	3	1	4	1	5	2	7
HM2	8401		1	1	2	1	3	1	4	1	5	2	7
HM2	8404		1	1	2	1	3	1	4	1	5	2	7
HM2	8406		2	0	2	0	2	0	2	0	2	0	2
TOTAL USN ENLISTED BILLETS:													
Operational			6	3	9	3	12	3	15	3	18	6	24
c. OFFICER - USMC													
Operational Billets USMC and AR													
0170			2	1	3	1	4	1	5	1	6	2	8
6002			3	1	4	1	5	1	6	1	7	2	9
6004			3	1	4	1	5	1	6	1	7	2	9
6302			3	1	4	1	5	1	6	1	7	2	9
7532			56	28	84	25	109	28	137	28	165	56	221
9967			0	0	0	1	1	0	1	0	1	0	1
Chargeable Student Billets USMC and AR													
			0	15	15	14	29	-12	17	2	19	18	37
TOTAL USMC OFFICER BILLETS:													
Operational			67	32	99	30	129	32	161	32	193	64	257
Chargeable Student													
			0	15	15	14	29	-12	17	2	19	18	37
d. ENLISTED - USMC													
Operational Billets USMC and AR													
CPL	0121		5	1	6	1	7	1	8	1	9	2	11
CPL	0151		4	1	5	1	6	1	7	1	8	2	10
CPL	4066		1	0	1	0	1	0	1	0	1	0	1
CPL	0431		2	1	3	1	4	1	5	1	6	2	8

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
CPL	6042		1	0	1	0	1	0	1	0	1	0	1
CPL	6046		5	3	8	3	11	3	14	3	17	6	23
CPL	6048		2	0	2	0	2	0	2	0	2	0	2
CPL	6062		1	0	1	0	1	0	1	0	1	0	1
CPL	6072		1	1	2	1	3	1	4	1	5	2	7
CPL	6092		1	0	1	0	1	0	1	0	1	0	1
CPL	6116		18	5	23	5	28	5	33	8	41	10	51
CPL	6132		1	0	1	0	1	0	1	0	1	0	1
CPL	6156		14	6	20	6	26	6	32	9	41	12	53
CPL	6176		21	6	27	6	33	6	39	8	47	12	59
CPL	6326		14	5	19	4	23	5	28	9	37	10	47
CPL	6413		2	0	2	0	2	0	2	0	2	0	2
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		1	0	1	0	1	0	1	0	1	0	1
CPL	6492		1	0	1	0	1	0	1	0	1	0	1
CPL	6531		3	3	6	3	9	3	12	5	17	6	23
CPL	6672		3	0	3	0	3	0	3	0	3	0	3
CPL	7041		1	1	2	1	3	1	4	1	5	2	7
GYSGT	0193		1	0	1	0	1	0	1	0	1	0	1
GYSGT	0491		1	1	2	1	3	1	4	1	5	2	7
GYSGT	6047		1	1	2	1	3	1	4	1	5	2	7
GYSGT	6048		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6060		1	1	2	1	3	1	4	1	5	2	7
GYSGT	6116		6	2	8	2	10	2	12	2	14	4	18
GYSGT	6156		2	1	3	1	4	1	5	1	6	2	8
GYSGT	6176		3	1	4	1	5	1	6	1	7	2	9
GYSGT	6326		3	1	4	1	5	1	6	1	7	2	9
GYSGT	6469		0	0	0	0	0	1	1	0	1	0	1
GYSGT	6531		1	1	2	1	3	1	4	1	5	2	7
GYSGT	7041		1	0	1	0	1	0	1	0	1	0	1
LCPL	0121		6	2	8	2	10	2	12	2	14	4	18
LCPL	0151		3	1	4	1	5	1	6	1	7	2	9
LCPL	2111		2	1	3	1	4	1	5	1	6	2	8
LCPL	0231		1	1	2	1	3	1	4	1	5	2	7
LCPL	4066		2	0	2	0	2	0	2	0	2	0	2
LCPL	5711		1	0	1	0	1	0	1	0	1	0	1
LCPL	6042		4	1	5	1	6	1	7	1	8	2	10
LCPL	6046		3	1	4	1	5	1	6	1	7	2	9
LCPL	6048		3	0	3	0	3	0	3	0	3	0	3
LCPL	6060		1	1	2	1	3	1	4	1	5	2	7
LCPL	6062		2	0	2	0	2	0	2	0	2	0	2
LCPL	6072		5	0	5	0	5	0	5	0	5	0	5
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	6116		28	9	37	9	46	9	55	13	68	18	86
LCPL	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	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
LCPL	6156		31	14	45	14	59	14	73	18	91	28	119
LCPL	6176		22	6	28	6	34	6	40	9	49	12	61
LCPL	6326		17	6	23	6	29	6	35	10	45	12	57
LCPL	6413		2	0	2	0	2	0	2	0	2	0	2
LCPL	6423		1	0	1	0	1	0	1	0	1	0	1
LCPL	6433		2	0	2	0	2	0	2	0	2	0	2
LCPL	6483		2	0	2	0	2	0	2	0	2	0	2
LCPL	6531		3	2	5	2	7	2	9	3	12	4	16
LCPL	6672		5	0	5	0	5	0	5	0	5	0	5
LCPL	7041		3	1	4	1	5	1	6	1	7	2	9
MGYSGT	6019		1	0	1	0	1	0	1	0	1	0	1
MGYSGT	6119		1	1	2	2	4	1	5	1	6	2	8
MGYSGT	9999		2	1	3	1	4	1	5	1	6	2	8
MSGT	0193		1	1	2	1	3	1	4	1	5	2	7
MSGT	6019		4	0	4	0	4	0	4	0	4	0	4
MSGT	6119		1	1	2	-1	1	1	2	1	3	2	5
MSGT	6391		3	1	4	1	5	1	6	1	7	2	9
SGT	0121		3	1	4	1	5	1	6	1	7	2	9
SGT	0151		1	0	1	0	1	0	1	0	1	0	1
SGT	6042		1	1	2	1	3	1	4	1	5	2	7
SGT	6046		1	0	1	0	1	0	1	0	1	0	1
SGT	6047		0	0	0	-1	-1	0	-1	0	-1	0	-1
SGT	6048		1	0	1	0	1	0	1	0	1	0	1
SGT	6060		1	1	2	1	3	1	4	1	5	2	7
SGT	6062		1	0	1	0	1	0	1	0	1	0	1
SGT	6092		1	0	1	0	1	0	1	0	1	0	1
SGT	6116		20	2	22	0	22	2	24	4	28	4	32
SGT	6156		11	3	14	1	15	3	18	5	23	6	29
SGT	6176		18	4	22	4	26	4	30	6	36	8	44
SGT	6326		14	3	17	2	19	3	22	5	27	6	33
SGT	6412		2	0	2	-1	1	0	1	0	1	0	1
SGT	6413		2	0	2	0	2	0	2	0	2	0	2
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		4	3	7	3	10	3	13	3	16	6	22
SGT	6672		2	0	2	0	2	0	2	0	2	0	2
SGT	8711		2	1	3	1	4	1	5	1	6	2	8
SSGT	0193		1	0	1	0	1	0	1	0	1	0	1
SSGT	0231		1	1	2	1	3	1	4	1	5	2	7
SSGT	6046		3	0	3	0	3	0	3	0	3	0	3
SSGT	6047		2	2	4	2	6	2	8	2	10	4	14
SSGT	6072		3	1	4	1	5	1	6	1	7	2	9
SSGT	6116		17	2	19	1	20	2	22	3	25	4	29
SSGT	6156		11	4	15	2	17	4	21	5	26	8	34
SSGT	6175		0	0	0	-2	-2	0	-2	0	-2	0	-2
SSGT	6176		9	3	12	3	15	3	18	5	23	6	29
SSGT	6326		12	2	14	0	14	2	16	3	19	4	23
SSGT	6531		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	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
SSGT	7041		2	1	3	1	4	1	5	1	6	2	8
SSGT	8421		2	1	3	1	4	1	5	1	6	2	8
Fleet Support Billets USMC and AR													
CPL	6060		1	0	1	0	1	0	1	0	1	0	1
CPL	6092	6043	1	0	1	0	1	0	1	0	1	0	1
CPL	6092	6044	1	1	2	1	3	1	4	1	5	2	7
CPL	6094		1	0	1	0	1	0	1	0	1	0	1
CPL	6132		1	0	1	0	1	0	1	0	1	0	1
CPL	6413		3	1	4	1	5	1	6	1	7	2	9
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	6467		2	2	4	2	6	2	8	2	10	4	14
CPL	6483		2	1	3	1	4	1	5	1	6	2	8
CPL	6492		1	0	1	0	1	0	1	0	1	0	1
CPL	6541		2	2	4	2	6	2	8	2	10	4	14
CPL	6672		5	2	7	2	9	2	11	2	13	4	17
LCPL	6060		3	2	5	2	7	2	9	2	11	4	15
LCPL	6072		3	1	4	1	5	1	6	1	7	2	9
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	6094		3	1	4	1	5	1	6	1	7	2	9
LCPL	6132		2	1	3	1	4	1	5	1	6	2	8
LCPL	6413		2	0	2	0	2	0	2	0	2	0	2
LCPL	6423		2	1	3	1	4	1	5	1	6	2	8
LCPL	6433		3	1	4	1	5	1	6	1	7	2	9
LCPL	6467		2	2	4	2	6	2	8	2	10	4	14
LCPL	6483		2	0	2	0	2	0	2	0	2	0	2
LCPL	6492		2	2	4	2	6	2	8	2	10	4	14
LCPL	6672		7	3	10	3	13	3	16	3	19	6	25
SGT	6092	6044	1	0	1	0	1	0	1	0	1	0	1
SGT	6094		1	0	1	0	1	0	1	0	1	0	1
SGT	6132		1	1	2	1	3	1	4	1	5	2	7
SGT	6412		2	0	2	0	2	0	2	0	2	0	2
SGT	6413		2	0	2	0	2	0	2	0	2	0	2
SGT	6422	6412	1	1	2	1	3	1	4	1	5	2	7
SGT	6433		2	1	3	1	4	1	5	1	6	2	8
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	6672		2	1	3	1	4	1	5	1	6	2	8
Staff Billets USMC and AR													
GYSGT	6116		0	8	8	2	10	-1	9	0	9	2	11
GYSGT	6156		0	3	3	2	5	-1	4	0	4	2	6
GYSGT	6176		0	9	9	5	14	-4	10	0	10	7	17
GYSGT	6326		0	3	3	3	6	-2	4	0	4	2	6
Chargeable Student Billets USMC and AR													
			0	31	31	26	57	-17	40	1	41	25	66

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
TOTAL USMC ENLISTED BILLETS:													
Operational			446	129	575	113	688	130	818	172	990	258	1248
Fleet Support			73	27	100	27	127	27	154	27	181	54	235
Staff			0	23	23	12	35	-8	27	0	27	13	40
Chargeable Student			0	31	31	26	57	-17	40	1	41	25	66

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

Marine Corps Annual Training Inputs

CIN, COURSE TITLE: M-2A-XXXX, V-22 Pilot Training
COURSE LENGTH: 26 Weeks
ATTRITION FACTOR: 0% **BACKOUT FACTOR:** 0.52

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
	Marine	USMC		31		59		34		39		75
TOTALS:				31		59		34		39		75

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
	Marine	USMC		95		90		98		108		118
TOTALS:				95		90		98		108		118

CIN, COURSE TITLE: M-050-6176, V-22 Crew Chief
COURSE LENGTH: 15.8 Weeks
ATTRITION FACTOR: 0% **BACKOUT FACTOR:** 0.32

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
	Marine	USMC		29		54		37		39		63
TOTALS:				29		54		37		39		63

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
	Marine	USMC		68		73		79		84		90
TOTALS:				68		73		79		84		90

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-601-6116, V-22 Power Plants and Related Systems Organizational Maintenance
COURSE LENGTH: 9.6 Weeks
ATTRITION FACTOR: 0% **BACKOUT FACTOR:** 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
	Marine	USMC		30		52		38		39		60
TOTALS:				30		52		38		39		60

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
	Marine	USMC		65		70		74		79		84
TOTALS:				65		70		74		79		84

CIN, COURSE TITLE: M-602-6326, V-22 Avionics and Electrical Systems Organizational Maintenance
COURSE LENGTH: 14.0 Weeks
ATTRITION FACTOR: 0% **BACKOUT FACTOR:** 0.28

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
	Marine	USMC		23		41		29		30		47
TOTALS:				23		41		29		30		47

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
	Marine	USMC		51		55		58		62		66
TOTALS:				51		55		58		62		66

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-603-6156, V-22 Airframes and Hydraulic Systems Organizational Maintenance
COURSE LENGTH: 9.6 Weeks
ATTRITION FACTOR: 0% **BACKOUT FACTOR:** 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
	Marine	USMC		34		65		45		47		77
TOTALS:				34		65		45		47		77

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
	Marine	USMC		84		91		98		105		112
TOTALS:				84		91		98		105		112

NOTE 1: The above computations were provided by ITRO.

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

Air Force Annual Training Inputs

CIN, COURSE TITLE: M-602-XXX4, CV-22 Electro-Environmental Systems Organizational Maintenance
COURSE LENGTH: 11.4 Weeks
ATTRITION FACTOR: 14% **BACKOUT FACTOR:** 0.23

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
		USAF		0		6		12		18		21
TOTALS:				0		6		12		18		21

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
		USAF		23		26		30		35		43
TOTALS:				23		26		30		35		43

CIN, COURSE TITLE: M-602-XXX5, CV-22 Integrated Avionics Systems Organizational Maintenance
COURSE LENGTH: 16.0 Weeks
ATTRITION FACTOR: 14% **BACKOUT FACTOR:** 0.32

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
		USAF		0		6		12		18		21
TOTALS:				0		6		12		18		21

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
		USAF		23		26		30		35		43
TOTALS:				23		26		30		35		43

Note 1: This attrition factor was calculated with 14 percent training attrition from the student throughput requirements provided by the Air Force.

Note 2: The above computations were provided by ITRO.

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-602-XXX6, CV-22 Propulsion Systems Organizational Maintenance
COURSE LENGTH: 4.8 Weeks
ATTRITION FACTOR: 14% **BACKOUT FACTOR:** 0.09

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
		USAF		0		4		8		12		13
TOTALS:				0		4		8		12		13

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
		USAF		16		17		20		23		29
TOTALS:				16		17		20		23		29

CIN, COURSE TITLE: M-602-XXX7, CV-22 Hydraulic Systems Organizational Maintenance
COURSE LENGTH: 9.8 Weeks
ATTRITION FACTOR: 14% **BACKOUT FACTOR:** 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
		USAF		0		6		12		18		21
TOTALS:				0		6		12		18		21

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
		USAF		23		26		30		35		43
TOTALS:				23		26		30		35		43

Note 1: This attrition factor was calculated with 14 percent training attrition from the student throughput requirements provided by the Air Force.

NOTE 2: The above computations were provided by ITRO.

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-602-XXX8, CV-22 Crew Chief Organizational Maintenance
COURSE LENGTH: 19.9 Weeks
ATTRITION FACTOR: 14% **BACKOUT FACTOR:** 0.40

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
VMMT-204, MCAS New River												
		USAF		0		12		24		36		38
TOTALS:				0		12		24		36		38

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL	FY09 OFF	FY09 ENL	FY10 OFF	FY10 ENL
VMMT-204, MCAS New River												
		USAF		45		52		59		68		84
TOTALS:				45		52		59		68		84

Note 1: This attrition factor was calculated with 14 percent training attrition from the student throughput requirements provided by Air Force.

Note 2: The above computations were provided by ITRO.

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the V-22 Osprey and, therefore, are not included in Part III of this NTSP:

III.A.2. Follow-on Training

III.A.2.a. Existing Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: CV Pilot Delta Operator Course
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: Air Force Testing

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Sep 99	11	2	5	Input
		0.2	0.0		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Feb 01	TBD	TBD	TBD	Input
					AOB
					Chargeable

COURSE TITLE: CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Advanced Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: Air Force Testing

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Feb 01	TBD	TBD	TBD	Input
					AOB
					Chargeable

COURSE TITLE: CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Initial Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 16 Days
ACTIVITY DESTINATIONS: Air Force Testing

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jun 00	3	0	1	Input
		0.1	0.0		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MV-22B LRIP Pilot Ground Course (Validation)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 9 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jan 00	0	0	3	Input
		0.0	0.0		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B LRIP Pilot Ground Course
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 11 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Feb 00	1	4	3	Input
		0.0	0.1		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jul 00	3	13	7	Input
		0.1	0.4		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B EMD Pilot Ground Course
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jul 00	6	0	1	Input
		0.1	0.0		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MV-22B Pilot Ground Course (Instructors)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 16 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Feb 99	3	8	3	Input
		0.1	0.4		AOB
		1	1		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jul 00	1	5	2	Input
		0.0	0.2		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Aug 00	3	3	3	Input
		0.1	0.1		AOB
		1	1		Chargeable

COURSE TITLE: MV-22B Pilot Ground Course (Initial Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 12 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Sep 00	0	7	2	Input
		0.0	0.2		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Aircrew Familiarization Course (Crew Chief)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Mar 99	7	6	1	Input
		0.1	0.1		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MV-22B Aircraft Familiarization Course (Validation)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 2 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Mar 99	2	6	0	Input
		0.0	0.0		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jun 99	4	18	4	Input
		0.0	0.1		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Aircraft Familiarization Training Course
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 3 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Oct 00	12	35	4	Input
		0.1	0.3		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Airframe Organizational Maintenance Training Course (Advanced Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 10 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Mar 99	2	2	2	Input
		0.1	0.1		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Oct 00	0	10	0	Input
		0.0	0.3		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Dec 00	0	10	0	Input
		0.0	0.3		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MV-22B Airframes Organizational Maintenance Training Course (Initial Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 21 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jan 00	0	0	7	Input
		0.0	0.0		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Airframes Organizational Maintenance Training Course (Validation)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 17 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Nov 98	0	11	0	Input
		0.0	0.5		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Airframes Organizational Maintenance Training Course (Instructor)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 31 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jan 00	1	2	1	Input
		0.1	0.2		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Avionics/Electrical Organizational Maintenance Training Course (Initial Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 27 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204, 52842	Feb 99	1	2	5	Input
		0.1	0.1		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Oct 00	6	5	4	Input
		0.4	0.4		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204, 52842	Dec 00	6	5	4	Input
		0.4	0.4		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jan 01	6	5	4	Input
		0.4	0.4		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Avionics System Organizational Maintenance Training Course (for Testing)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jan 00	0	3	4	Input
		0.0	0.0		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Oct 00	6	5	4	Input
		0.1	0.1		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Avionics System Organizational Maintenance Training Course (Advanced Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 21 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jan 00	1	2	7	Input
		0.1	0.1		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Oct 00	6	5	4	Input
		0.3	0.3		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Nov 00	6	5	4	Input
		0.3	0.3		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Avionics/Electrical Organizational Maintenance Training Course (Instructor)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 55 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204, 52842	Jun 99	3	15	0	Input
		0.5	2.3		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Environmental Control Unit Organizational Maintenance Training Course (Advanced Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 3 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Nov 98	5	15	0	Input
		0.0	0.1		AOB
		1	1		Chargeable

COURSE TITLE: MV-22B Environmental Control System Organizational Maintenance Course (Instructors)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Nov 99	3	24	2	Input
		0.0	0.3		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Oct 00	6	10	0	Input
		0.1	0.1		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MV-22B Environmental Control System Organizational Maintenance Course (Initial Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Feb 00	3	17	4	Input
		0.0	0.2		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Power Plant and Related Course (Initial Cadre)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 10 Days
ACTIVITY DESTINATIONS: MV-22B Initial Cadre

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Mar 99	3	5	0	Input
		0.1	0.1		AOB
		0	0		Chargeable

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Oct 00	6	10	0	Input
		0.2	0.3		AOB
		0	0		Chargeable

COURSE TITLE: MV-22B Power Plant and Related Course (for Testing)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 25 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

LOCATION, UIC	BEGIN DATE	STUDENTS USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jan 00	3	19	4	Input
		0.2	1.3		AOB
		0	0		Chargeable

BEGIN LOCATION, UIC	STUDENTS DATE	USAF	USMC	CIV	
VMMT-204 (FRS), 52842	Jun 99	5	18	4	Input
		0.3	1.2		AOB
		0	0		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MV-22B Power Plant and Related Course (Instructors)
COURSE DEVELOPER: Bell-Boeing
COURSE INSTRUCTOR: Bell-Boeing
COURSE LENGTH: 31 Days
ACTIVITY DESTINATIONS: MV-22B Instructor

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**USAF**	**USMC**	**CIV**	
VMMT-204 (FRS), 52842	May 99	4	17	0	Input
		0.3	1.4		AOB
		0	0		Chargeable

USMC Training

CIN, COURSE TITLE: M-2A-XXXX, V-22 Pilot Training
TRAINING ACTIVITY: VMMT-204 FRS
LOCATION, UIC: MCAS New River, 52842

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
31		59		34		39		75		ATIR
31		59		34		39		75		Output
15.3		29.1		16.8		19.2		37.0		AOB
15.3		29.1		16.8		19.2		37.0		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
95		90		98		108		118		ATIR
95		90		98		108		118		Output
46.8		44.4		48.3		53.3		58.2		AOB
46.8		44.4		48.3		53.3		58.2		Chargeable

CIN, COURSE TITLE: M-050-6176, V-22 Crew Chief
TRAINING ACTIVITY: VMMT-204 FRS
LOCATION, UIC: MCAS New River, 52842

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
29		54		37		39		63		ATIR
29		54		37		39		63		Output
8.7		16.3		11.2		11.8		19.0		AOB
8.7		16.3		11.2		11.8		19.0		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
68		73		79		84		90		ATIR
68		73		79		84		90		Output
20.5		22.0		23.8		25.3		27.1		AOB
20.5		22.0		23.8		25.3		27.1		Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: M-601-6116, V-22 Power Plants and Related Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
30		52		38		39		60		ATIR
30		52		38		39		60		Output
6.2		10.7		7.8		8.0		12.3		AOB
6.2		10.7		7.8		8.0		12.3		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
65		70		74		79		84		ATIR
65		70		74		79		84		Output
13.4		14.4		15.2		16.2		17.3		AOB
13.4		14.4		15.2		16.2		17.3		Chargeable

CIN, COURSE TITLE: M-603-6156, V-22 Airframes and Hydraulic Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
34		65		45		47		77		ATIR
34		65		45		47		77		Output
7.0		13.4		9.2		9.7		15.8		AOB
7.0		13.4		9.2		9.7		15.8		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
84		91		98		105		112		ATIR
84		91		98		105		112		Output
17.3		18.7		20.1		21.6		23.0		AOB
17.3		18.7		20.1		21.6		23.0		Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: M-602-6326, V-22 Avionics and Electrical Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
23		41		29		30		47		ATIR
23		41		29		30		47		Output
9.1		16.3		11.5		11.9		18.7		AOB
9.1		16.3		11.5		11.9		18.7		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
51		55		58		62		66		ATIR
51		55		58		62		66		Output
20.3		21.8		23.0		24.6		26.2		AOB
20.3		21.8		23.0		24.6		26.2		Chargeable

USAF Training

CIN, COURSE TITLE: M-602-XXX4, CV-22 Electro-Environmental Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF **STUDENT CATEGORY:** USAF

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		6		12		18		21		ATIR
0		5		10		15		18		Output
0.0		1.2		2.4		3.6		4.2		AOB
0.0		1.2		2.4		3.6		4.2		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
23		26		30		35		43		ATIR
20		22		26		30		37		Output
4.7		5.2		6.1		7.0		8.7		AOB
4.7		5.2		6.1		7.0		8.7		Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: M-602-XXX5, CV-22 Integrated Avionics Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF **STUDENT CATEGORY:** USAF

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		6		12		18		21		ATIR
0		5		10		15		18		Output
0.0		1.7		3.3		5.0		5.9		AOB
0.0		1.7		3.3		5.0		5.9		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
23		26		30		35		43		ATIR
20		22		26		30		37		Output
6.5		7.3		8.5		9.9		12.2		AOB
6.5		7.3		8.5		9.9		12.2		Chargeable

CIN, COURSE TITLE: M-602-XXX6, CV-22 Propulsion Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF **STUDENT CATEGORY:** USAF

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		4		8		12		13		ATIR
0		3		7		10		10		Output
0.0		0.3		0.7		1.0		1.1		AOB
0.0		0.3		0.7		1.0		1.1		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
16		17		20		23		29		ATIR
14		15		17		20		25		Output
1.4		1.5		1.7		2.0		2.5		AOB
1.4		1.5		1.7		2.0		2.5		Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: M-602-XXX7, CV-22 Hydraulic Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF **STUDENT CATEGORY:** USAF

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		6		12		18		21		ATIR
0		5		10		15		18		Output
0		1.0		2.1		3.1		3.7		AOB
0		1.0		2.1		3.1		3.7		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
23		26		30		35		43		ATIR
20		22		26		30		37		Output
4.1		4.5		5.3		6.1		7.6		AOB
4.1		4.5		5.3		6.1		7.6		Chargeable

CIN, COURSE TITLE: M-602-XXX8, CV-22 Crew Chief Organizational Maintenance
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF **STUDENT CATEGORY:** USAF

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		12		24		36		38		ATIR
0		10		21		31		33		Output
0.0		4.2		8.6		12.8		13.5		AOB
0.0		4.2		8.6		12.8		13.5		Chargeable

FY06		FY07		FY08		FY09		FY10		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
45		52		59		68		84		ATIR
39		45		51		58		72		Output
16.0		18.5		20.9		24.0		29.7		AOB
16.0		18.5		20.9		24.0		29.7		Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the V-22 Osprey, 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.A. TRAINING HARDWARE

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

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control Systems (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Probe Lead Assembly (Part # C22161)	2	Jan 01	GFE	Onboard
ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard
302	Computer	1	Jan 01	GFE	Onboard
324	Maintenance Crane Hoist, 8.5 Ton	1	Jan 01	GFE	Onboard
337	Universal Aircraft Jet Start Unit (Part # 3323AS100-1)	1	Jan 01	GFE	Onboard
338	Oxygen Servicing Trailer (Part # 1828AS100-1)	1	Jan 01	GFE	Onboard
339	HFC-134A Refrigerant Reclaimer (Part # ST-1000-HFC)	1	Jan 01	GFE	Onboard
340	Sling Assembly (Part # 901-220-928-103)	1	Jan 01	GFE	Onboard
341	Pressure Fill Tank Pre-oiler (Part # 61A108J1-1)	1	Jan 01	GFE	Onboard
404	ECU/NBC Leakage Test Set (Part # 918770-1-1)	1	Jan 01	GFE	Onboard
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard

Note: There are other courses requiring Training Equipment, Test Equipment, and Special Tools in Track M-601-6116, however, this information is not currently in the Training Course Control Documents.

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

CIN, COURSE TITLE: Q-2A-0036, V-22 Enlisted Aircrew Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
ST					
342	Preflight Tool Kit	10	Jan 01	GFE	Pending

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Display Systems (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Probe Lead Assembly (Part # C22161)	1	Jan 01	GFE	Onboard
ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard
302	Computer	1	Jan 01	GFE	Onboard
403	Rapid Reprogrammable Terminal Software	1	Jan 01	GFE	Pending
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard
502	Digital Multimeter, 3.5 Digit (Part # 77BN)	1	Jan 01	GFE	Onboard
503	Display Unit	1	Jan 01	GFE	Onboard
SPETE					
607	Memory Loader Verifier Set	1	Jan 01	GFE	Onboard
608	Cable Assembly Set, Special 1553 Data Bus	1	Jan 01	GFE	Pending
609	1553 Data Bus Network Tester	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Probe Lead Assembly (Part # C22161)	1	Jan 01	GFE	Onboard
003	Receiver-Transmitter (Part # RT841PRC77)	2	Jan 01	GFE	Onboard

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

ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard
302	Computer	1	Jan 01	GFE	Onboard
307	B-1 Maintenance Stand	1	Jan 01	GFE	Onboard
308	B-4 Aircraft Maintenance Platform	1	Jan 01	GFE	Onboard
325	Coax Adapter Set (Part # 901-270-006-101)	1	Jan 01	GFE	Onboard
326	1553 Adapter Set (Part # 901-270-007-101)	1	Jan 01	GFE	Onboard
327	MAGR Data Cable (Part # 3486AS100-1)	1	Jan 01	GFE	Onboard
328	Electric Dummy Load	1	Jan 01	GFE	Onboard
329	Absorption Wattmeter (Part # PM10B)	1	Jan 01	GFE	Onboard
330	B-2 Maintenance Stand	1	Jan 01	GFE	Onboard
331	Trailer Mounted Diesel Engine Generator	1	Jan 01	GFE	Onboard
332	DC Power Supply (Part # E3617A)	1	Jan 01	GFE	Onboard
333	Signal Generator (Part # 4795-6A)	1	Jan 01	GFE	Onboard
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard
502	Digital Multimeter, 3.5 Digit (Part # 77BN)	1	Jan 01	GFE	Onboard
SPETE					
610	Radio (VOR/ILS Marker Beacon) Test Set	1	Jan 01	GFE	Onboard
611	Radio Test Set (Part # 1000-0000)	1	Jan 01	GFE	Onboard
612	Data Transfer Device (Part # AN/CYZ-10)	1	Jan 01	GFE	Onboard
613	RF Termination Type Power Meter (Part # 6154)	1	Jan 01	GFE	Onboard
614	IFF Portable Transponder Test Set (Part # AN/APM-424(V)2)	1	Jan 01	GFE	Onboard
615	1553 Data Bus Network Tester (Part # 3434AS1000)	1	Jan 01	GFE	Onboard
616	Metallic TDR Cable Tester (Part # 1502C)	1	Jan 01	GFE	Onboard
617	Program Loader (Part # 5922000000-01)	1	Jan 01	GFE	Onboard
617	RF Termination Type Power Meter (Part # 6154)	1	Jan 01	GFE	Onboard

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

CIN, COURSE TITLE: C-102-3626, V-22 Electrical Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Probe Lead Assembly (Part # C22161)	1	Jan 01	GFE	Onboard
ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard
302	Computer	1	Jan 01	GFE	Onboard
307	B-1 Maintenance Stand	2	Jan 01	GFE	Onboard
322	B-5 Maintenance Stand	1	Jan 01	GFE	Onboard
334	Aircraft Wiring Tool Set (Part # 3329AS100-1)	1	Jan 01	GFE	Onboard
335	Electronic Mobile Power Plant (Part # 328AS100-2)	1	Jan 01	GFE	Onboard
336	Air Start Trailer Unit (Part # 1203AS100-1)	1	Jan 01	GFE	Onboard
337	Universal Aircraft Jet Start Unit (Part # 3323AS100-1)	1	Jan 01	GFE	Onboard
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard
502	Digital Multimeter, 3.5 Digit (Part # 77BN)	2	Jan 01	GFE	Onboard
SPETE					
617	Program Loader (Part # 5922000000-01)	1	Jan 01	GFE	Onboard
618	Loop Current Sensor Test Set (Part # 901-275-904-101)	1	Jan 01	GFE	Onboard
619	Cargo Hook Auto-jettison Test Set (Part # 901220001101)	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Probe Lead Assembly (Part # C22161)	1	Jan 01	GFE	Onboard

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

ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard
302	Computer	1	Jan 01	GFE	Onboard
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard
SPETE					
601	Countermeasures Chaff Dispensing Set Tester	1	Jan 01	GFE	Onboard
602	Radar Signal Simulator, Hand Held	1	Jan 01	GFE	Onboard
603	Flight Line Test Set, AAR-47	1	Jan 01	GFE	Onboard
605	Countermeasures Test Set (AN/ALM-286)	2	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard
302	Computer	1	Jan 01	GFE	Onboard
332	DC Power Supply (Part # E3617A)	1	Jan 01	GFE	Onboard
343	TFU Adapter Handle (Part # 901-270-005-101)	1	Jan 01	GFE	Onboard
GPETE					
502	Digital Multimeter, 3.5 Digit (Part # 77BN)	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Probe Lead Assembly (Part # C22161)	1	Jan 01	GFE	Onboard
ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard

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

302	Computer	1	Jan 01	GFE	Onboard
303	Hydraulic/Pneumatic Component Test Stand	1	Jan 01	GFE	Onboard
304	Air Data Accessory Set	1	Jan 01	GFE	Onboard
305	Hydraulic Supply Starter System	1	Jan 01	GFE	Onboard
306	Driveshaft Coupling Cover Shaft	1	Jan 01	GFE	Onboard
307	B-1 Maintenance Stand	1	Jan 01	GFE	Onboard
308	B-4 Aircraft Maintenance Platform	1	Jan 01	GFE	Onboard
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard
SPETE					
604	Air Data Test Set	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
ST					
301	Power Plant, Mobile Electric (Part # 328AS100-3)	1	Jan 01	GFE	Onboard
302	Computer	1	Jan 01	GFE	Onboard
304	Air Data Accessory Set	1	Jan 01	GFE	Onboard
306	Driveshaft Coupling Cover Shaft	1	Jan 01	GFE	Onboard
307	B-1 Maintenance Stand	1	Jan 01	GFE	Onboard
308	B-4 Aircraft Maintenance Platform	1	Jan 01	GFE	Onboard
309	W53 Adapter, AN/AWM-54 Test Set	1	Jan 01	GFE	Onboard
310	Hydraulic Tripod Jack, Model T25-1FH	4	Jan 01	GFE	Onboard
311	Portable Nitrogen Cylinder Assembly	2	Jan 01	GFE	Onboard
312	Hydraulic Fluid Dispensing Cart	1	Jan 01	GFE	Onboard
313	Aircraft Tow Bar	1	Jan 01	GFE	Onboard

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

314	Fluid Servicing Unit (Part # 630AS100-11)	1	Jan 01	GFE	Onboard
315	Bladefold and Wing Stow Pin Assembly	1	Jan 01	GFE	Onboard
316	Hydraulic Supply Starter System	1	Jan 01	GFE	Onboard
317	Nitrogen Servicing Unit (NAN-4)	1	Jan 01	GFE	Onboard
318	Tractor, Wheeled, Aircraft Towing	1	Jan 01	GFE	Onboard
319	Valve Tool High Pressure	1	Jan 01	GFE	Onboard
320	Trailer Adapter, Conversion Actuator	1	Jan 01	GFE	Onboard
321	Portable Air Compressor	1	Jan 01	GFE	Onboard
322	B-5 Maintenance Stand	1	Jan 01	GFE	Onboard
323	Nitrogen Servicing Hand Truck	1	Jan 01	GFE	Onboard
324	Maintenance Crane Hoist, 8.5 Ton	1	Jan 01	GFE	Onboard
401	Hydraulic Fluid Contamination Analysis Kit	1	Jan 01	GFE	Onboard
402	Manual Pressure Temperature Test Set	1	Jan 01	GFE	Onboard
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard
502	Digital Multimeter, 3.5 Digit (Part # 77BN)	1	Jan 01	GFE	Onboard
SPETE					
604	Air Data Test Set	1	Jan 01	GFE	Onboard
606	AN/AWM-54 Aircraft Firing Circuit Test Set	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-603-3627, V-22 Airframes (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Probe Lead Assembly (Part # C22161)	1	Jan 01	GFE	Onboard
ST					
307	B-1 Maintenance Stand	1	Jan 01	GFE	Onboard

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

308	B-4 Aircraft Maintenance Platform	1	Jan 01	GFE	Onboard
344	Optical Micrometer (Part # 8400K)	1	Jan 01	GFE	Onboard
345	Composite Repair Kit	1	Jan 01	GFE	Pending
346	Flow Detector (Part # 022-506-552)	1	Jan 01	GFE	Onboard
347	Dial Depth Gage (Part # 643J)	1	Jan 01	GFE	Onboard
348	Cilip Micrometer (Part # T230R)	1	Jan 01	GFE	Onboard
349	Port Air Compressor	1	Jan 01	GFE	Onboard
405	Ultra Sonic STD Set (Part # 901-220-950-101)	1	Jan 01	GFE	Onboard
GPETE					
501	Ohmmeter (Part # T477W)	1	Jan 01	GFE	Onboard

As TTE requirements are identified, they will be incorporated into this JTSP.

TTE repair parts are the responsibility of the contractor for the first year of operation. Follow-on support will be provided through the Mission Training Support System.

Additional training designated test equipment and special tools for the V-22 will be identified by the contractor as part of the Weapon System Support Equipment Analysis Program.

The contractor will provide a list of recommended General Purpose and Special Purpose Electronic Test Equipment used in the training program. Training on Peculiar Special Purpose Electronic Test Equipment will be provided during initial outfitting for each trainer. Special requirements are being developed by NAVAIRSYSCOM and the contractor to support the various TDs and TTE. When information becomes available, it will be included into this JTSP.

IV.A.2. TRAINING DEVICES

DEVICE: Airframe Composite Maintenance Trainer
DESCRIPTION: The Airframes CMT will be a replica of the hydraulic system (including landing gear), wing with nacelles (no engines), shortened prop-rotor blades, control surfaces, limited cockpit functions, and the gun. It will provide organizational level maintenance personnel with realistic training in the servicing, troubleshooting, and repair of these systems and associated subsystems.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-93-C-0006
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 06	Oct 06	Pending	C-603-3626 (Track M-603-6156)
				C-603-3627 (Track M-603-6156)

DEVICE: Airframe Part Task Trainer
DESCRIPTION: The Airframe PTT will be a replica of a wing (60%), from just beyond the mid-wing gearbox area out to and including the nacelle, and will include gearboxes, drive-train, engine, and prop-rotor components. Additionally, it will also include wing flight control surfaces. It will provide organizational level maintenance personnel with realistic training in the servicing and repair of the engine, drive-train systems, and wing flight control surfaces and associated components.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-93-C-0006
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 02	Oct 02	Pending	C-603-3626 (Track M-603-6156)
				C-603-3627 (Track M-603-6156)

IV.A.2. TRAINING DEVICES

DEVICE: An Actual V-22 Aircraft
DESCRIPTION: The V-22 is a dual-piloted, twin engine, medium-lift, tilt-rotor aircraft with turboprop engines. Its design incorporates advanced technologies in composite materials, fly-by-wire flight controls, and digital cockpit. The V-22 fuselage has a number of advanced composite structures. The V-22 power plant, designated AE-1107C, auxiliary internal fuel capacity, and aerial refueling capability allow for self-deployment internationally.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-92-C-0095
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
2	Jan 03	Mar 03	Pending	C-601-3627 (Track M-601-6116)
				C-601-3628 (Track M-601-6116)
				C-601-3626 (Track M-601-6116)
				C-102-3626 (Track M-602-6326)
				C-602-3626 (Track M-602-6326)
				C-102-3630 (Track M-602-6326)
				C-102-3629 (Track M-602-6326)
				C-198-3628 (Track M-602-6326)
				C-600-3626 (Track M-602-6326)
				C-198-3626 (Track M-602-6326)
				C-102-3627 (Track M-602-6326)
				C-603-3626 (Track M-603-6156)
				C-603-3627 (Track M-603-6156)

IV.A.2. TRAINING DEVICES

DEVICE: Avionics Composite Maintenance Trainer
DESCRIPTION: The Avionics CMT will be a replica of the cockpit, fuselage, and empenage, and will support all electrical and avionics tasks. It will be software driven to a fully functional cockpit and will support beyond Built-In-Test troubleshooting to the WRA and discrete components. It will provide organizational level avionics and electrical system maintenance personnel with training in the servicing, troubleshooting, and repair of these systems and associated subsystems.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-93-C-0006
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 05	Oct 05	Pending	C-102-3626 (Track M-602-6326)
				C-602-3626 (Track M-602-6326)
				C-102-3630 (Track M-602-6326)
				C-102-3629 (Track M-602-6326)
				C-198-3628 (Track M-602-6326)
				C-198-3626 (Track M-602-6326)
				C-102-3627 (Track M-602-6326)

DEVICE: Cabin Part Task Trainer
DESCRIPTION: The CPTT will be a replica of the interior cabin of the CV-22, including cargo-handling equipment. One Air Force unique CPTT will be procured for the Flight Engineer/Loadmaster training. When a description of this device becomes available, it will be included into this JTSP. The CPTT is USAF only and will only be delivered to Kirtland AFB.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-96-C-0188
TEE STATUS: NA

TRAINING ACTIVITY: Kirtland Air Force Base
LOCATION, UIC: Albuquerque, New Mexico, 00000

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 02	Oct 02	Pending	M-000-0006 (Track M-602-XXX8)

IV.A.2. TRAINING DEVICES

DEVICE: CV-Expeditionary Maintenance Trainer (CV-EMT)
DESCRIPTION: The CV-EMT, which may be composed of more than one device, will provide delta training for CV unique systems. A CV-EMT study will be completed by Bell-Boeing on 30 September 2000 and will include a recommended specification for this trainer. The CV-EMT is expected to be on contract by December 2000 with an RFT date of June 2002. When a description of this device becomes available, it will be included in this JTSP.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: NA
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 02	Jun 02	Pending	M-602-XXX4
				M-602-XXX5
				M-602-XXX6
				M-602-XXX7
				M-602-XXX8

DEVICE: Landing Gear Part Task Trainer
DESCRIPTION: This device will consist of three devices and will replicate the V-22 Landing Gear System. It will provide maintenance personnel with realistic, hands-on training in the servicing and repair of the landing gear wheel and brake system.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-93-C-0006
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 02	Oct 02	Pending	C-603-3626 (Track M-603-6156)
				C-603-3627 (Track M-603-6156)

IV.A.2. TRAINING DEVICES

DEVICE: Mechanic Part Task Trainer
DESCRIPTION: The Mechanic PTT will be a replica of a wing (60%), from just beyond the mid-wing gearbox area out to and including the nacelle, and will include gearboxes, drive-train, engine, and prop-rotor components. Additionally, it will include fuel, ECU and left-hand sponson components. It will provide organizational level maintenance personnel with realistic training in the servicing and repair of the engine and drive-train systems and associated components.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-93-C-0006
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 02	Oct 02	Pending	C-601-3627 (Track M-601-6116)
				C-601-3628 (Track M-601-6116)
				C-601-3626 (Track M-601-6116)

DEVICE: Mechanical (and Power Plant) CMT
DESCRIPTION: The Mechanical CMT will be a replica of the power plant and related drive-train systems and will include a full wing with nacelles, shortened prop-rotors, and limited cockpit functions. It will provide organizational level power plants personnel with realistic training in the servicing, troubleshooting, repair, removal, and replacement of major power plant components and associated systems.

MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-93-C-0006
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 05	Oct 05	Pending	C-601-3627 (Track M-601-6116)
				C-601-3628 (Track M-601-6116)
				C-601-3626 (Track M-601-6116)

IV.A.2. TRAINING DEVICES

DEVICE: Power Plant Part Task Trainer
DESCRIPTION: The Power Plant PTT is a Full Scale Development (FSD) wing with nacelles and FSD engines and prop-rotor assemblies. It includes EMD drive-train components. It provides organizational level maintenance personnel with realistic training in the servicing, troubleshooting, and repair of the engine and drive-train systems and associated components.
MANUFACTURER: Bell-Boeing
CONTRACT NUMBER: N00019-93-C-0006
TEE STATUS: NA

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 00	Jul 00	Onboard	C-601-3627 (Track M-601-6116) C-601-3628 (Track M-601-6116) C-601-3626 (Track M-601-6116)
1	Jul 01	Oct 01	Pending	C-601-3627 (Track M-601-6116) C-601-3628 (Track M-601-6116) C-601-3626 (Track M-601-6116)

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
CV Pilot Delta Operator Course	VMMT-204 (FRS), 52842	2	2	Sep 99
CV Pilot Delta Operator Course	VMMT-204 (FRS), 52842	10	10	Feb 01
CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Initial Cadre)	VMMT-204 (FRS), 52842	2	4.8	Jun 00
CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Advanced Cadre)	VMMT-204 (FRS), 52842	2	2	Feb 01
MV-22B Aircraft Familiarization Course (Validation)	VMMT-204 (FRS), 52842	2	0.8	Jun 99
MV-22B Aircraft Familiarization Course (Validation)	VMMT-204 (FRS), 52842	2	0.8	Mar 99
MV-22B Aircraft Familiarization Training Course	VMMT-204 (FRS), 52842	2	1.2	Oct 00
MV-22B Aircrew Familiarization Course (Crew Chief)	VMMT-204 (FRS), 52842	2	2	Mar 99
MV-22B Airframe Organizational Maintenance Training Course (Advanced Cadre)	VMMT-204 (FRS), 52842	2	3.2	Mar 99
MV-22B Airframe Organizational Maintenance Training Course (Advanced Cadre)	VMMT-204 (FRS), 52842	2	3.2	Oct 00
MV-22B Airframe Organizational Maintenance Training Course (Advanced Cadre)	VMMT-204 (FRS), 52842	2	3.2	Dec 00
MV-22B Airframes Organizational Maintenance Training Course (Validation)	VMMT-204 (FRS), 52842	2	5.2	Nov 98
MV-22B Airframes Organizational Maintenance Training Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	6	Jan 00
MV-22B Airframes Organizational Maintenance Training Course (Instructor)	VMMT-204 (FRS), 52842	2	9.2	Jan 00
MV-22B Avionics System Organizational Maintenance Training Course (Advanced Cadre)	VMMT-204 (FRS), 52842	2	6	Oct 00
MV-22B Avionics System Organizational Maintenance Training Course (for Testing)	VMMT-204 (FRS), 52842	2	1.6	Jan 00

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
MV-22B Avionics System Organizational Maintenance Training Course (Advanced Cadre)	VMMT-204 (FRS), 52842	2	6	Jan 00
MV-22B Avionics System Organizational Maintenance Training Course (Advanced Cadre)	VMMT-204 (FRS), 52842	2	6	Nov 00
MV-22B Avionics System Organizational Maintenance Training Course (for Testing)	VMMT-204 (FRS), 52842	2	1.6	Oct 00
MV-22B Avionics/Electrical Organizational Maintenance Training Course (Instructor)	VMMT-204 (FRS), 52842	2	16.4	Jun 99
MV-22B Avionics/Electrical Organizational Maintenance Training Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	8.4	Feb 99
MV-22B Avionics/Electrical Organizational Maintenance Training Course (Initial Cadre)	VMMT-204, 52842	2	8.4	Dec 00
MV-22B Avionics/Electrical Organizational Maintenance Training Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	8.4	Oct 00
MV-22B Avionics/Electrical Organizational Maintenance Training Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	8.4	Jan 01
MV-22B EMD Pilot Ground Course	VMMT-204 (FRS), 52842	2	1.6	Jul 99
MV-22B Environmental Control System Organizational Maintenance Course (Instructors)	VMMT-204 (FRS), 52842	2	2	Oct 00
MV-22B Environmental Control System Organizational Maintenance Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	2	Feb 00
MV-22B Environmental Control System Organizational Maintenance Course (Instructors)	VMMT-204 (FRS), 52842	2	2	Nov 99
MV-22B Environmental Control Unit Organizational Maintenance Training Course (Advanced Cadre)	VMMT-204 (FRS), 52842	2	1.2	Nov 98
MV-22B LRIP Pilot Ground Course Validation)	VMMT-204 (FRS), 52842	2	2.8	Jan 00
MV-22B LRIP Pilot Ground Course	VMMT-204 (FRS), 52842	2	3.6	Jul 99
MV-22B LRIP Pilot Ground Course	VMMT-204 (FRS), 52842	2	3.6	Feb 00
MV-22B Pilot Ground Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	4.8	Jul 00

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
MV-22B Pilot Ground Course (Instructors)	VMMT-204 (FRS), 52842	2	4.8	Aug 00
MV-22B Pilot Ground Course (Instructors)	VMMT-204 (FRS), 52842	2	4.8	Feb 99
MV-22B Power Plant and Related Organizational Maintenance Course (for Testing)	VMMT-204 (FRS), 52842	4	13.6	Jun 99
MV-22B Power Plant and Related Organizational Maintenance Course (Instructors)	VMMT-204 (FRS), 52842	2	9.2	May 99
MV-22B Power Plant and Related Organizational Maintenance Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	3.2	Mar 99
MV-22B Power Plant and Related Organizational Maintenance Course (for Testing)	VMMT-204 (FRS), 52842	4	13.6	Jan 00
MV-22B Power Plant and Related Organizational Maintenance Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	3.2	Oct 00

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, South Carolina, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Aircraft Familiarization	1	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Instructor Guides	3	Jan 01	Pending

CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanic's (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Basic Mechanic	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Instructor Guides	3	Jan 01	Pending
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1set	Jan 01	Pending

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control Systems (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Environmental Control System	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-601-3626, V-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Powerplant and Related Systems	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Instructor Guides	3	Jan 01	Pending
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: Q-2A-0036, V-22 Enlisted Aircrew Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Enlisted Aircrew	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Instructor Guides	3	Jan 01	Pending
Interactive Courseware for V-22 Enlisted Aircrew	3	Jan 01	Pending
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Aircraft Familiarization	1	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Display Systems (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Cockpit Management Systems	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Avionics Systems	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-102-3626, V-22 Electrical Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Electrical Systems	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-602-3626, V-22 Connector Repair (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Instructor Guides	3	Jan 01	Pending
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Electronic Warfare System	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for VF-22 Forward Looking Infrared	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Flight Control Systems	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Aircraft Familiarization	1	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending

CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Hydraulic Systems	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
Gyro Mouse	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Projection System, Electronic Presentation Capable	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending
Student Work Books	10	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending

CIN, COURSE TITLE: C-603-3627, V-22 Airframes (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction for V-22 Airframes	3	Jan 01	Pending
Curriculum Outline with Reproducible Master Copy	50	Jan 01	Pending
In-Focus Display	1	Jan 01	Onboard
Instructor Guides	3	Jan 01	Pending
Overhead Projector	1	Jan 01	Onboard
Projector Screen	1	Jan 01	Onboard
Student Evaluation Forms with Reproducible Master	50	Jan 01	Pending

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Student Work Books	10	Jan 01	Pending
Television	1	Jan 01	Onboard
Video Cassette Recorder	1	Jan 01	Onboard
Videotape # 7: V-22 Composite Repair 2488-VT-97	3	Jan 01	Pending
Videotape # 7: V-22 Exhaust Deflector Ground Test	3	Jan 01	Pending
Videotape # 8: V-22 Blade Fold	3	Jan 01	Pending
Videotape #1: VCRD Regions 2&6 Program 2	3	Jan 01	Pending
Videotape #2: VCRD Program 3 Region 5 Aft Repair	3	Jan 01	Pending
Videotape #3: VCRD Program 1A Repair 2 Soft Skin Penetration	3	Jan 01	Pending
Videotape #4: VCRD Regions 17, 22, and 24 Program 1	3	Jan 01	Pending
Videotape #5: Generic Wet Lay-up Program 8	3	Jan 01	Pending
Videotape #6: VCRD Program 3 Regions 1, 3, 7 Wing Stiffener Repair	3	Jan 01	Pending
Wall Charts and Transparencies	1 set	Jan 01	Pending
White Board	1	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanic's (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 00-80T-88 Helicopter History and Aerodynamics	Hard copy	10	Jan 01	Pending
NA 01-1A-509 Aircraft Weapons System Cleaning and Corrosion Control Manual	Hard copy	10	Jan 01	Pending
NA 01-1A-8 Structural Hardware	Hard copy	10	Jan 01	Pending
NA 17-1-108 Torque Tools	Hard copy	10	Jan 01	Pending
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program (NAMP)	CD ROM	10	Jan 01	Pending
OPNAVINST 5101.2 Series Shipboard Accident Prevention Manual	Hard copy	10	Jan 01	Pending
OPNAVINST P-5100.23B Safety and Health Program	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control Systems (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-601-3626, V-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: Q-2A-0036, V-22 Enlisted Aircrew Course (Track M-601-6116)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-CLG-000 Cargo Loading Manual (V-22)	Hard copy	10	Jan 01	Pending
A1-V22AB-MRC-100 Turnaround Inspection Maintenance Requirement Cards	Hard copy	25	Jan 01	Pending
A1-V22AB-MRC-300 Daily Inspection Maintenance Requirement Cards	Hard copy	25	Jan 01	Pending
A1-V22AB-NFM-000 NATOPS Flight Manual	Hard copy	10	Jan 01	Pending
A1-V22AB-NFM-900 Crewmember Pocket Checklist	Hard copy	25	Jan 01	Pending
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	3	Jan 01	Pending
OPNAVINST 3710.7 NATOPS General Flight and Operating Manual	Hard copy	10	Jan 01	Pending
OPNAVINST 4790.2 Series Naval Aviation Maintenance Program (NAMP)	CD ROM	3	Jan 01	Pending
T & R Manual Aviation Training and Readiness Manual, Volume 8	Hard copy	4	Jan 01	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Display Systems (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
901-970-715 Functional Test Procedure, AN/AVS-7 Night Vision Goggles/Heads-Up Display, Revision A	Hard copy	3	Jan 01	Pending
901-989-654 V-22 Crew Station Design Definition Document, Volume 1 Revision D	Hard copy	3	Jan 01	Pending
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending
A1-V22AB-WDM-000 Technical Manual Organizational Maintenance Wiring Diagram Manual	Hard copy	10	Jan 01	Pending
RDH-AR-260E Prime Item Development Specification, Signal Data Converter (SDC) US Army	Hard copy	3	Jan 01	Pending
RDH-AR-263E Prime Item Development Specification, Converter Control Unit (CCU) US Army	Hard copy	3	Jan 01	Pending

CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-102-3626, V-22 Electrical Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending
A1-V22AB-WDM-000 Technical Manual Organizational Maintenance Wiring Diagram Manual	Hard copy	3	Jan 01	Pending

CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
901-989-654 V-22 Crew Station Design Definition Document, Volume 1 Revision D	Hard copy	10	Jan 01	Pending
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending
A1-V22AB-WDM-000 Technical Manual Organizational Maintenance Wiring Diagram Manual	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending
A1-V22AB-WDM-000 Technical Manual Organizational Maintenance Wiring Diagram Manual	Hard copy	3	Jan 01	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-NFM-000 NATOPS Flight Manual	Hard copy	10	Jan 01	Pending
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending
NA 01-1A-505 Installation Practices, Aircraft Electrical	Hard copy	10	Jan 01	Pending
NA 01-1A-509 Aircraft Weapons System Cleaning and Corrosion Control Manual	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System Organizational Maintenance	Hard copy	10	Jan 01	Pending

CIN, COURSE TITLE: C-603-3627, V-22 Airframes (Initial) Organizational Maintenance Course (Track M-603-6156)
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-1A-1 V-22 Structural Repair	Hard copy	10	Jan 01	Pending
NA 01-1A-12 Fabrication, Maintenance, and Repair of Transparent Plastics	Hard copy	10	Jan 01	Pending

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-1A-16 Non-Destructive Inspection Methods	Hard copy	10	Jan 01	Pending
NA 01-1A-35 Aircraft Fuel Cell and Tanks	Hard copy	10	Jan 01	Pending
NA 01-1A-507 General Use of Cements and Sealants	Hard copy	10	Jan 01	Pending
NA 01-1A-509 Aircraft Weapons System Cleaning and Corrosion Control Manual	Hard copy	10	Jan 01	Pending
NA 01-1A-516 Grits and Abrasive Materials	Hard copy	10	Jan 01	Pending
NA 01-1A-8 Structural Hardware	Hard copy	10	Jan 01	Pending
NA 01-1A-9 Aerospace Metals- General Data and Usage Factors	Hard copy	10	Jan 01	Pending
NA 11-100-1.1 Cartridge Actuated Devices (Aircraft)	Hard copy	10	Jan 01	Pending

IV.C. FACILITY REQUIREMENTS

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

CIN, COURSE TITLE: C-102-3626, V-22 Electrical Systems (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

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

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

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

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Display Systems
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

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

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

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

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-601-3626, V-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

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

CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanic's (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control Systems (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

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

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending
CIN, COURSE TITLE: C-602-3626, V-22 Connector Repair (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

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

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

CIN, COURSE TITLE: C-603-3627, V-22 Airframes (Initial) Organizational Maintenance Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

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

CIN, COURSE TITLE: Q-2A-0036, V-22 Enlisted Aircrew Course
TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842
BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: Nov 1999
REQUIRED RFT: May 2002
STATUS: In work

BUILDING AND ROOM NUMBER:
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-526
REQUIRED PROJECT AWARD: Jan 2002
REQUIRED UCD: Jan 2004
REQUIRED RFT: Mar 2004
STATUS: Pending

BUILDING AND ROOM NUMBER: AS-518 Simulator Build
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD:
REQUIRED UCD:
REQUIRED RFT:
STATUS: Pending

IV.C.3. FACILITY PROJECT SUMMARY BY PROGRAM

TRAINING ACTIVITY: NAMTRAGRU DET Osprey
LOCATION, UIC: MCAS New River, 52842

PROJECT NUMBER	TOTAL SCOPE	PROJECTED AWARD DATE	PROJECTED UCD	STATUS
P-585		Dec 1997	May 2002	In work
P-526		Jan 2002	Mar 2004	Pending
P-617		Pending	Pending	Pending

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
ACNO (MPT)	Promulgated Update JTP	Jan 92	Completed
TSA	Approved Engineering, Manufacturing, and Development Contract	Oct 92	Completed
TSA	Began Initial Training	Aug 94	Completed
TSA	Began Training Advisory Services	Aug 94	Completed
TSA	Approved V-22 Milestone II+	Sep 94	Completed
TSA	Approved Acquisition Decision Memorandum	Feb 95	Completed
ACNO (MPT)	Promulgated Update JTP	Aug 95	Completed
TSA	Conducted JTP Conference	Nov 95	Completed
CMC	Began Ordering Enlisted Personnel (USMC MMEA-84)	FY97	Completed
CMC	Began Ordering Officer Personnel (USMC MMOA-2)	FY97	Completed
TSA	Awarded Curriculum Material and Maintenance Training Devices Contract	FY97	Completed
CMC	Allocated Fleet, Instructor, and Support Billets	FY98	Completed
CMC	Ordered Instructors and Support Personnel	FY98	Completed
CMC	Promulgated V-22 T/O	FY98	Completed
OPO	Initiated OPNAV Form 1000/4A	FY99	Completed
OPTEVFOR	Conducted OPEVAL	FY99	Completed
TSA	Delivered Curricula Materials	FY99	Completed
TSA	Delivered Technical Training Equipment	FY99	Completed
OPTEVFOR	Completed MV-22 OT&E	May 00	Completed
OPTEVFOR	Completed OPEVAL	Jul 00	Completed
MCCDC	Approved and forwarded Operational Requirements Document	Aug 00	Completed
PDA	Approved Manpower Estimate Report (MER)	Sep 00	Completed
TSA	Promulgated Update JTP	Nov 00	Completed
PDA	Attain Milestone III	Nov 00	Pending
AFPC	Began Programming for Officer Training	FY00	Ongoing
AFPC	Ordered Instructors and Support Personnel	FY00	Ongoing

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
TSA	Began VMMT-204 Initial Cadre and Instructor Training	FY00	Ongoing
PDA	Attain Initial Operating Capability for MV-22	Mar 01	Pending
TA	Begin Transition and Follow-on Training	Mar 01	Pending
OPTEVFOR	Begin CV-22 IOT&E	FY02	Pending
NAVICP	Achieve V-22 Material Support Date	FY04	Pending
NAVICP	Achieve Navy Support Date	FY05	Pending
PDA	Achieve USAF Initial Operating Capability for CV-22	FY05	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
Intermediate level engine maintenance training for Initial Fleet Cadre Training	NAVAIRSYSCOM		Closed
Navy Combat Search and Rescue (CSAR) Training	CNO		Open
Verification of Technical Publications	CNO		Open
Air Force participation in Joint Aircrew Training	HQ USAF		Ongoing
Training requirements for the Air Force	HQ USAF		Ongoing
Training track length and "A" School prerequisites for MOS 6325	NAVAIRSYSCOM		Closed
Navy manning and basing requirements	NAVPERSCOM		Open
V-22 Aircrew Training	HMX-1 (MOTT)		Closed
Follow-on FRS Training Concept	MCCDC		Closed
Navy and Air Force Staffing Plans	HQ USAF/BUPERS		Open
USAF manning and basing requirements	HQ USAF		Closed
Role of NAMTRAGRU and FRS / Consolidated Maintenance Training Unit	CNO/N889		Closed
Memorandum of Agreement	HQ USAF/CNO/CMC		Closed

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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