



**NAVY TRAINING SYSTEM PLAN**  
**FOR THE**  
**NAVAL MISSION PLANNING SYSTEM**  
**(NavMPS)**

**N88-NTSP-A-50-9301E/D**

**FEBRUARY 2004**

**NAVAL MISSION PLANNING SYSTEM  
(NavMPS)****EXECUTIVE SUMMARY**

This Draft Navy Training System Plan for the Naval Mission Planning System (NavMPS) was developed using the format shown in the Navy Training Requirements Documentation Manual P-751-1-9-97. This document provides manpower, personnel and training requirements needed to support the NavMPS employment concept.

The NavMPS provides the Navy and Marine Corps with an automated method of mission planning and optimizing routes for strike warfare. NavMPS provides mission planners with a computer-based system capable of rapidly processing large quantities of digitized terrain, threat data, and environmental data, as well as, aircraft and weapon system parameters. In addition, NavMPS also provides digital download capabilities (i.e., Joint Tactical Information Distribution System (JTIDS), Global Positioning System (GPS), Enhanced Main Display Unit (EMDU), F/A-18 MU, etc.).

NavMPS are hybrid programs combining Commercial-Off-The-Shelf (COTS) and Non-Developmental Items (CaNDI) hardware with CaNDI, Government Off-The-Shelf (GOTS) and custom-developed software. The NavMPS systems include software and a tactical computing system.

NavMPS is an Acquisition Category IV (ACAT IV) program under the sponsorships of Chief of Naval Operations (CNO) N61, N78, and APW. The Secretary of the Navy directed the development of the Tactical Aircraft Mission Planning System (TAMPS) in 1986. The name was changed to Tactical Automated Mission Planning System. The TAMPS Program Office name was later changed to Naval Mission Planning Systems to designate a family of mission planning systems. TAMPS achieved an Initial Operational Capability (IOC) in December 1986 aboard the USS Carl Vinson. NavMPS is an evolutionary acquisition program that will achieve Full Operational Capability (FOC) with full execution of JMPS-M. JMPS-M is the replacement system for TAMPS and N-PFPS.

Instructor requirements at the Fleet Replacement Squadrons (FRS)/Wing Tactical Units (WTU), the weapon schools, and the Navy and Marine Corps Intelligence Training Center (NMITC) remain consistent with existing billet structure. Fleet and fleet support billet requirements will also remain consistent.

This NTSP contains Navy and Marine Corps Active Duty (ACDU), Navy Selected Reserves (SELRES), and Selected Marine Corps Reserve (SMCR) Manpower, Personnel and Training requirements regarding the NavMPS. As future modifications are made to the NavMPS program, they will be included in this NTSP via the annual review/revision process.

**NAVAL MISSION PLANNING SYSTEM  
(NavMPS)**

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**LIST OF ACRONYMS**

AD	Active Duty
AOB	Average On Board
ARC	Aircraft Radio Communications
ATIR	Annual Training Input Requirements
ATM	Asynchronous Transfer Mode
A/W/E	Aircraft/Weapons/Electronics
CaNDI	Commercial-off-the-Shelf (COTS) and Non-Developmental Items
CBT	Computer Based Training
CCA	
CD-ROM	Compact Disk Read Only Memory
CIN	Course Identification Number
COMLANTFLT	Commander, Atlantic Fleet
COMPACFLT	Commander, Pacific Fleet
CMC	Commandant of the Marine Corps
CNATRA	Chief of Naval Air Training
CNO	Chief of Naval Operations
CPU	Central Processing Unit
CV	Aircraft Carrier
CVIC	Aircraft Carrier Intelligence Center
CVN	Aircraft Carrier, Nuclear Powered
DAFIF	Digital Aeronautical Flight Information Files
DBA	Data Base Administration/Administrator
DSU	Data Storage Unit
DT	Developmental Test
DTED	Digital Terrain Elevation Data
DVD	Digital Video Disc
EDT	Enhanced Developmental Test
EMDU	Enhanced Main Display Unit
ET	Electronics Technician
FIT	Fleet Introduction Team
FMS	Foreign Military Sales
FPM	Flight Performance Model
FRS	Fleet Replacement Squadron
FY	Fiscal Year

**NAVAL MISSION PLANNING SYSTEM  
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**LIST OF ACRONYMS**

GB	Gigabyte
GFE	Government Furnished Equipment
GOTS	Government Off The Shelf
GPETE	General Purpose Electronics Test Equipment
GPS	Global Positioning System
HARM	High Speed Anti-Radiation Missile
HSI	Human Systems Integration
IS	Intelligence Specialist
ISNS	Integrated Shipboard Network System
ITAC	
JCP	JMPS Combat PGM
JDAM	Joint Direct Attack Munition
JMPS-M	Joint Mission Planning System-Maritime
JSOW	Joint Stand Off Weapon
LAN	Local Area Network
LRU	Lowest Replaceable Unit
MAWTS-1	Marine Aviation Weapons and Tactics Squadron One
MB	Megabyte
MCCDC	Marine Corps Combat Development Center
MDL	Mission Data Loader
MHz	Mega Hertz
MIDB	Modernized Integrated Database
MOS	Military Occupational Specialty
MPF	Mission Planning Function
MPM	Mission Planning Module
MPT	Manpower, Personnel and Training
MRC	Maintenance Requirements Card
MU	Memory Unit
NAS	Naval Air Station
NATOPS	Naval Air Training and Operating Procedures Standardization
NAVAIRLANT	Naval Air Force Atlantic Fleet

**NAVAL MISSION PLANNING SYSTEM  
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**LIST OF ACRONYMS**

NAVAIRPAC	Naval Air Force Pacific Fleet
NAVAIRSYSCOM	Naval Air Systems Command
NavMPS	Naval Mission Planning System
NAWC - WD	Naval Air Warfare Center - Weapons Division
NEC	Navy Enlisted Classification
NFO	Naval Flight Officer
NMITC	Navy and Marine Corps Intelligence Training Center
NOBC	Navy Officer Billet Classification
N-PFPS	Navy - Portable Flight Planning Software
NSAWC	Naval Strike and Air Warfare Center
NTSP	Navy Training System Plan
OEM	Original Equipment Manufacturer
OPNAV	Office of the Chief of Naval Operations
OPO	OPNAV Principal Official
OS	Operating System
OT	Operational Test
PC	Personal Computer
PCL	Pocket Check List
PCMCIA	Personal Computer Memory Card International Association
PGM	Precision Guided Munitions
PMA	Program Manager, Air
PMOS	Primary Military Occupational Specialty
PNEC	Primary Navy Enlisted Classification
RAID	Redundant Array of Independent Disks
RAM	Random Access Memory
RFT	Ready For Training
R&M	Revision & Maintenance
SA	System Administrator/Administration
SDD	System Description Document
SEACONWPNSLANT	Sea Control Weapons School, Atlantic
SELRES	Selected Reserve
SFWSLANT	Strike Fighter Weapons School, Atlantic
SFWSPAC	Strike Fighter Weapons School, Pacific
SLAM	Standoff Land-Attack Missile
SLAM-ER	Standoff Land-Attack Missile- Extended Range

**NAVAL MISSION PLANNING SYSTEM  
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**LIST OF ACRONYMS**

SMCR	Selected Marine Corps Reserve
SMOS	Secondary Military Occupational Specialty
SNEC	Secondary Navy Enlisted Classification
SPAWAR	Space and Naval Warfare System Center
SPETE	Special Purpose Electronic Test Equipment
SPTE	Special Purpose Test Equipment
SSC SD	Space and Naval Warfare Systems Center San Diego
SWATSLANT	Strike Weapons and Tactics School, Atlantic
TAC	Tactical Advanced Computer
TAMMAC	Tactical Aircraft Moving Map Capability
TAMPS	Tactical Automated Mission Planning System
TBD	To Be Determined
TEAMS	Tactical EA-6B Mission Support
TID	Tactical Information Device
TTE	Technical Training Equipment
UNIX	Uniplexed Information and Computing System
UPC	Unique Planning Component
UPS	Uninterruptible Power Supply
USMC	United States Marine Corps
USN	United States Navy
WTU	Wing Training Unit

**NAVAL MISSION PLANNING SYSTEM  
(NavMPS)****PREFACE**

This Draft Navy Training System Plan (NTSP) for the Naval Mission Planning System (NavMPS) program has been developed as part of the regular NTSP update process within the guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-3-9-97. This NTSP reflects the changes that have occurred since the last approved NSTP, N88-NSTP-A-50-9301D/A dated July 2001. The major changes to this NTSP consist of:

- The introduction schedule has been modified to meet current NavMPS deliveries.
- Technical Training Equipment (TTE) delivery schedules and Ready for Training (RFT) dates have been updated to reflect current planning.
- The SUN ULTRA 2, Aircraft Carrier Intelligence Center (CVIC) Enterprise 4000 and 2300 information has been updated.
- The Navy - Portable Flight Planning Software (N-PFPS) information has been updated.
- Joint Mission Planning System-Maritime (JMPS-M) System information has been updated.



## D. SYSTEM DESCRIPTION

**1. Operational Uses.** The NavMPS provides the Navy and Marine Corps with automated methods of mission planning and optimizing routes for strike warfare. NavMPS provides mission planners with a computer-based system capable of rapidly processing large quantities of digitized terrain, threat and environmental data, aircraft and weapon system parameters, avionics, Precision Guided Munitions (PGM), and imagery. NavMPS is a proven tactical mission planning system that has demonstrated the ability to effectively integrate intelligence data for Navy and Marine Corps fixed-wing and rotary-wing aircraft, stand-off weapons, avionics systems, mission support systems, and unmanned aerial vehicles. Strike planners meet mission objectives by using NavMPS' extensive databases to generate applicable mission planning products (e.g., strip charts, radar predictions, flight plans, and data transfer to Data Storage Units (DSU), Memory Units (MU), Mission Data Loaders (MDL), Tactical Tape Cartridges, and Personal Computer Memory Card International Association (PCMCIA) Cards). These NavMPS products greatly increase the probability of mission success while providing the capability to greatly decrease mission planning and weapon system preflight preparation time. One of the greatest benefits of these products is that they enhance the aviator's situational awareness when he is on the flight deck strapped into an aircraft preparing for a flight. They give the aviator more time to concentrate on the immediate tasks at hand. NavMPS consists of Tactical Automated Mission Planning System (TAMPS), N-PFPS and JMPS-M.

- a. TAMPS.** TAMPS is currently used primarily for PGM planning by the fixed-wing squadrons.
- b. N-PFPS.** N-PFPS is primarily used for flight planning in all squadrons.
- c. JMPS-M.** JMPS-M is the follow-on mission planning system to TAMPS and N-PFPS. Initially it is aimed at getting TAMPS off the aircraft carriers so all deploying aviation units will be using the same system – JMPS-M. JMPS-M is a scalable mission-planning system that can be tailored by the planners for their specific needs and deployed on a wide variety of hardware. It is planned to replace both TAMPS and N-PFPS.

**2. Foreign Military Sales.** Foreign Military Sales (FMS) of NavMPS varies with the type of software.

- a. TAMPS.** France has purchased an unclassified version of TAMPS that includes Help Desk support.
- b. N-PFPS.** Countries that purchase Navy aircraft may purchase N-PFPS from the Air Force and may also purchase Navy Flight Performance Modules (FPM), weaponeering, and navigation data loading.
- c. JMPS-M.** The eight Joint Strike Fighter partners will be purchasing JMPS-M and several other countries have expressed an interest in purchasing JMPS-M.

**E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** The NavMPS program is based upon an evolutionary acquisition strategy. This allows the NavMPS to be fielded while enhancements are developed in a series of software releases and hardware updates. NavMPS Developmental Tests (DT) and Operational Tests (OT) are structured to ensure that new software and hardware updates incorporate requirements generated from fleet use of previous software releases and hardware configurations. For the most up to date DT/OT information please refer to the Test and Evaluation Master Plan.

**1. TAMPS.** The TAMPS 6.2.1 software completed testing during the third quarter of Fiscal Year (FY) 01.

**2. N-PFPS.** N-PFPS 3.2 completed testing during the fourth quarter of FY02.

**3. JMPS-M.** The JMPS-M software completed Enhanced Developmental Test (EDT) #3 during the fourth quarter of FY03 and EDT #4 completed testing during the first quarter of FY04. The JMPS-M software is planned to complete OT during the fourth quarter of FY04.

**F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.** The NavMPS strategic goals are to continually provide the fleet strike planners with a user-friendly, automated mission planning system that processes mission critical information quickly, accurately, and reliably.

**1.** For most activities receiving NavMPS systems for the first time, NavMPS will augment the manual method of presenting threat data to the mission planners and automate mission route planning and chart development.

**2.** For most activities currently utilizing a NavMPS system, the older version will be replaced by updated hardware and software. This transition provides the fleet a faster system with expanded memory, improved graphics, and media transfer and printing capabilities that are essential to ensuring increased operational readiness and usability.

**3.** The NavMPS hardware has migrated from Uniplexed Information and Computing System (UNIX) based systems (TAMPS) to a Personal Computer (PC) based system with the introduction of N-PFPS, followed by JMPS-M hosted on Navy standard PC computers.

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

**1. Functional Description.** The different systems that constitute NavMPS have certain characteristics in common. They are all software intensive systems that help the planner analyze the mission environment (e.g., weather, terrain, threats), develop specific mission plans (e.g., route, fuel calculation, communications, weapons employment), and prepare all required mission and briefing products (e.g., briefing slides, knee board cards, charts, data transfer device loads). NavMPS systems are designed to operate either as stand-alone assets or in a variety of networked configurations that provide server applications and/or access to external imagery and

intelligence data sources. Specific hardware and Data Transfer Devices descriptions are provided elsewhere in this document.

**a. Software.** The software of all NavMPS systems can be divided into three distinct areas: Operating System, Core/Framework, and Mission Specific Applications. Operating system and Core/Framework are required for all mission planning. Mission specific applications will vary depending on the aircraft, weapon, or avionics system being planned for.

**(1) Operating System.** In all NavMPS systems the Operating System (OS) is a Commercial-off-the-Shelf (COTS) and Non-Developmental Items (CaNDI) product, supported by documentation and training materials developed by Space and Naval Warfare System Center (SPAWAR) Space and Naval Warfare Systems Center (SSC) Command, Control, Communications, Computers, & Intelligence (C4I) Programs Office, Philadelphia.

**(a) TAMPS.** The OS for TAMPS is UNIX.

**(b) N-PFPS.** The OS for N-PFPS is Microsoft Windows New Technology (NT) or Windows 2000.

**(c) JMPS-M.** The OS for JMPS-M is Microsoft Windows 2000.

**(2) Core/Framework.** Core/Framework software is that component of each NavMPS system that has been developed to represent the “release” version of the system. In some cases the core/framework may be modularized, permitting adequate system operation with less than 100% of the code loaded (if certain applications are not required by the planner). Core/Framework software executes the common or “community” functions within the system. For example, manipulations of background map displays are handled by core/framework instead of having each specific mission platform develop its own way of performing those operations. Among the other functions handled by core/framework software are data loading to the system, search and retrieve from databases, basic route calculations (range, bearing, time), user account management, and controlling communication in networked configurations.

**(3) Mission Specific Applications.** Mission specific applications are modules of software that permit the mission planner to prepare missions that are exactly tailored to an aircraft, weapon, or avionics system. In most cases, options allow the planner to specify down to the weapon or aircraft operational flight program or hardware version. In addition to functional capabilities, the mission specific applications typically contain specific performance data for the aircraft, weapon, or avionics system that they support. Mission specific application modules have a different name depending on the NavMPS system they are associated with:

**(a) TAMPS.** TAMPS mission specific applications are called Mission Planning Modules (MPM) or Mission Planning Functions (MPF). Currently TAMPS has MPMs/MPFs supporting the following aircraft, weapons, and avionics systems:

HH-60	CH-53D	KC-130F/R/T	UH-1
CH-53E	P-3C	C-2	F/A-18

AV-8B	EA-6B	S-3B	E-2C
CH-46E	F-14A/B/D	SH6-B/F	High Speed Anti-Radiation Missile (HARM)
Standoff Land-Attack Missile - Extended Range (SLAM-ER)	Standoff Land-Attack Missile (SLAM)	Joint Direct Attack Munitions (JDAM)	Joint Stand Off Weapon (JSOW)
Aircraft Radio Communications (ARC)-210	Global Positioning System (GPS)		

**(b) N-PFPS.** N-PFPS mission specific applications are called Aircraft/Weapons/Electronics (A/W/E). They extend the core N-PFPS software to provide detailed planning for a specific weapons system, and to generate data files to be loaded to aircraft, weapons, or electronic devices. A/W/Es have been developed for the following:

AH-1	CH-46E	SH60F	HH60H
S-3B	P-3C	C-2R	F/A-18 (ALL)
UH-1N	T-45A/C	E-2C	C/KC-130F/R/T
F-14B(U)	Handheld GPS	ITALD	BQM-74E/F
MH-60R/S	MH-53E		

**(c) JMPS-M.** JMPS-M mission specific applications are called Unique Planning Components (UPC). Similar to the A/W/Es for N-PFPS. UPCs will be added continuously throughout the life cycle of JMPS-M and current configuration management documents should be consulted for specific platform availability. Initial JMPS-M UPCs that will be going through OT with JMPS-M are:

F/A-18	JSOW	SLAM-ER	Enhanced Guided Bomb Unit (EGBU)
F-14	JDAM	Tactical Aircraft Moving Map Capability (TAMMAC)	ARC-210
E-2C	HARM	AV-8	

**b. Hardware.** The NavMPS hardware is all CaNDI hardware purchased by Program Manager, Air (PMA) 281 and distributed to all Fleet units designated by the asset managers. SSC SD, C4I Programs Office, Philadelphia does the actual purchasing and distributing of the hardware.

**(1) TAMPS Hardware.** There are currently three hardware configurations; TAMPS Desktop Portable, the CVIC system and the Mini Server system hosting the TAMPS software. This is due to the evolutionary acquisition process that takes advantage of gains in software and hardware capabilities. Naval Air Systems Command (PMA-281) coordinates the NavMPS hardware quantity and the delivery schedule with the appropriate NavMPS asset managers.

**(a) TAMPS Desktop Portable.** TAMPS is hosted on the SUN ULTRA 2 (1200/1300) that is comprised of CaNDI, hardware. The SUN ULTRA 2 (1200/1300) has the capability to operate as a stand-alone system or may be connected to a Local Area Network (LAN). The main hardware components of a fleet configured NavMPS SUN ULTRA 2 are listed in Physical Description section of this document.

**(b) CVIC System.** TAMPS software is hosted on the CVIC system that is composed of the SUN Enterprise 4000 (Model 4002), the SUN ULTRA 2 (2300), PC clients and server printers. These hardware components are comprised of CaNDI hardware. The main hardware components of a fleet configured CVIC system is listed in Physical Description section of this document.

**(c) Mini-Server System.** TAMPS software is hosted on the Mini-Server System that is composed of the SUN ULTRA 2 (2300) and is composed of CaNDI hardware. The main hardware components of a fleet configured CVIC system is listed in Physical Description section of this document.

**(2) N-PFPS Hardware.** N-PFPS hardware is in two variations, Laptop and Desktop. These variations are not unique. They are CaNDI equipment. They are commercially purchased based on the requisites needed to operate the N-PFPS software.

### **(3) JMPS-M Hardware**

**(a) JMPS-M Combat Enterprise Server.** The JMPS-M Combat Enterprise configuration includes the full JMPS-M Combat Server suite. It is designed to meet all the shipboard network, power, and survivability requirements. This configuration supports four mission-planning workstations (JMPS-M Clients) in the CVIC as well as four JMPS-M Clients positioned in Ready Rooms, etc. The Combat Enterprise configuration consists of two JMPS-M Combat Servers and an external shared Redundant Array of Independent Disks (RAID) array (see Figure I-1). This configuration includes a high level of redundancy to ensure continuous availability, fault tolerance, and data integrity. The RAID array is sized to support up to 180 JMPS-M users. The processor performance and memory requirements of the Combat Server are sized to support up to 55 concurrent users, a fraction of the total number of actual users (not all users on-line concurrently). All systems are equipped with Uninterruptible Power Supplies (UPS) with auto shutdown capabilities. The network cards on the servers and clients are provisioned for either Integrated Shipboard Network System (ISNS) or ISNS Asynchronous Transfer Mode (ATM) Gigabyte (GB) networks. User authentication is provided by a centralized user accounts database (Microsoft Active Directory). The user profiles (implemented as roaming profiles) as well as user data is stored on the server. Microsoft SQL Server 2000 provides the required relational database management system. Both servers and clients are configured with the appropriate Defense Information Infrastructure Common Operating Environment segments. Centralized Antivirus protection is provided by Norton AntiVirus Corporate Edition via a Department of the Navy Enterprise License. The capability to backup/restore both clients and server mission data is provided with this configuration. The

JMPS-M Combat Enterprise group fulfills the requirements of the Afloat, Aircraft Carrier (CV)/Aircraft Carrier, Nuclear Powered (CVN) Class environment.

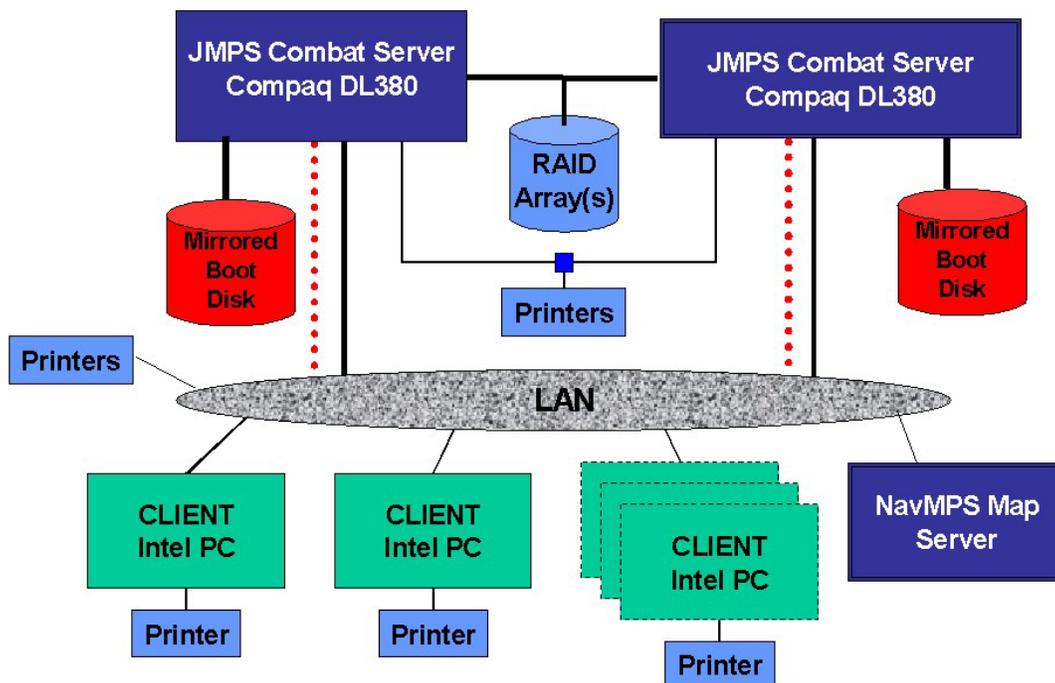


Figure I-1 JMPS-M Combat Enterprise Configuration

The JMPS-M Combat Enterprise System is fielded in one of three configurations: Afloat, Ashore, and Desktop.

**(b) JMPS-M Combat Enterprise Lite Server.** The JMPS-M Combat Enterprise Lite configuration is a scaled down version of the JMPS-M Combat Enterprise configuration discussed above. It is flexible to meet the less stringent, sometimes fluid, requirements of smaller ships and other non-shipboard environments. The JMPS-M Combat Enterprise Lite configuration is capable of being configured for ashore, afloat or forward-deployed locations. A single server with less fail-over capabilities replaces the dual-server configuration. Servers and Clients in this configuration are configured as depicted (see Figure I-2). The JMPS-M Combat Enterprise Lite group fulfills the requirements of the L-Class Ships and Other Battle Group Assets (Afloat) environments and is suitable for the Non-combatant and Combatant (Ashore) environments.

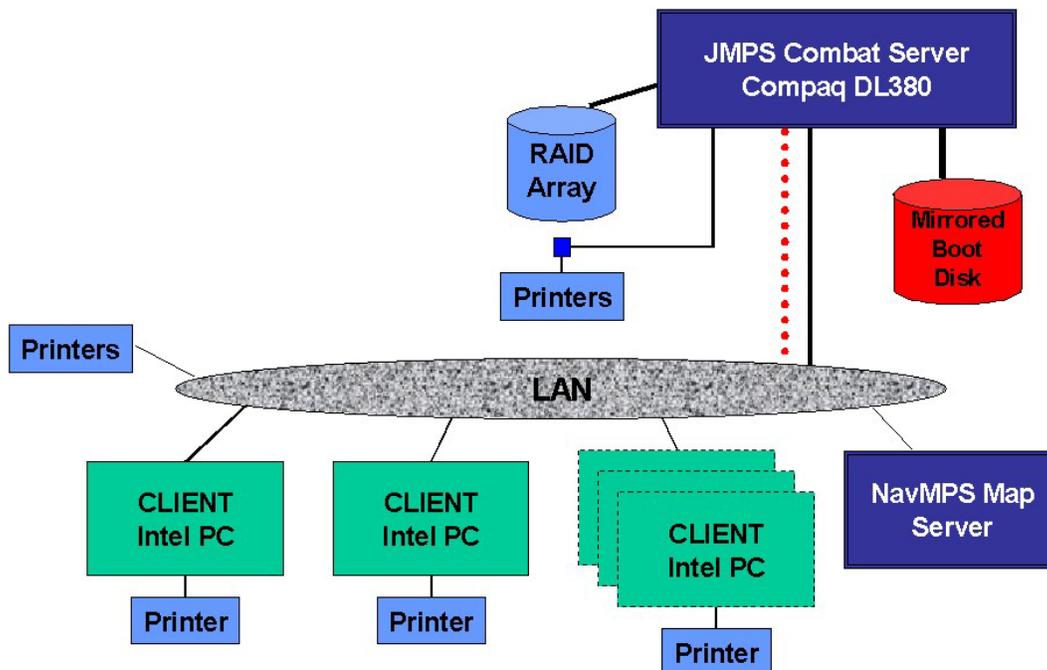


Figure I-2 JMPS-M Combat Enterprise Lite Configuration

The JMPS-M Combat Enterprise Lite System is fielded in one of three configurations, depending upon activity requirements: Afloat, Ashore, and Desktop.

**(c) JMPS-M Combat Pico Configuration.** The JMPS PICO Server configuration will contain a subset of the JMPS Combat Enterprise hardware. The main component will be the Compaq DL380 G2 server. The internal configuration of this single server will exactly match the Enterprise and Enterprise Lite configurations except for the number of hard drives installed in the system. The PICO server will be outfitted with 5 internal hard drives vs. the 2 used in both the Enterprise and Enterprise Lite configurations. 3 of these drives will be setup in a RAID 5 configuration for the JMPS data storage area since there will be no external RAID drive provided in the PICO configuration. This configuration was designed to meet the requirements of the non-shipboard environments.

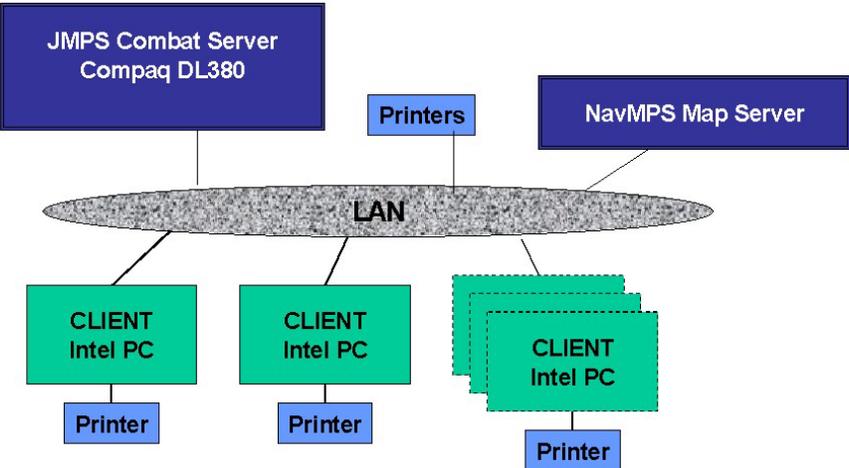


Figure I-3 JMPS-M Combat Pico Configuration

The JMPS-M Combat Pico System will be fielded in one of three configurations, depending upon activity requirements: Ashore, Transit, and Desktop.

**(d) JMPS-M Combat Desktop – Workgroup Configuration.**

The JMPS-M Combat Workgroup configuration consists of two or more JMPS-M workstations connected via a network operating in a peer-to-peer mode (see Figure I-4). The purpose of this configuration is to allow sharing of common data and resources without the complexity of a client-server configuration. Any workstation can establish share drives (e.g., drive, partition, directory) for access by other workstations in the workgroup. Although the original intent is to maintain the workgroup off-line, the capability for connectivity to the outside world is available. User account information is stored and managed locally on each workstation.

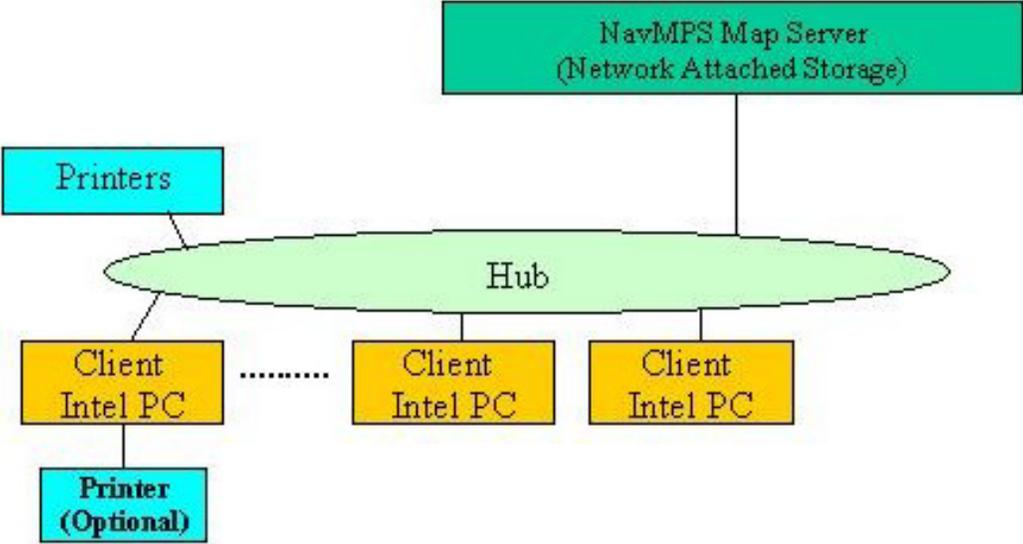


Figure I-4 JMPS-M Combat Desktop - Workgroup Configuration

The JMPS Combat workgroup configuration fulfills the space and mission requirements of the Forward-Deployment environment and provides portability for the Airborne, Expeditionary, and Special Operations environments

**(e) JMPS-M Combat Desktop and Laptop – Standalone**

**Configuration.** The JMPS-M Combat Standalone configuration is defined as a workstation that has no direct electronic connection to the outside world (see Figure I-5). In the Standalone configuration, data exchange is accomplished via manual keyboard entry or an extractable common media format (e.g., floppy diskette), or crossover cables can be employed to connect the standalone workstation to external devices (e.g., Network Access Server). The standalone configuration may be further defined as a workstation that has not been physically connected to any LAN, has no access to the LAN, nor is it intended to be connected to a LAN. Data and executables must be installed on the workstation by manual means or from removable magnetic media only. User account information is created and maintained on the local system only.

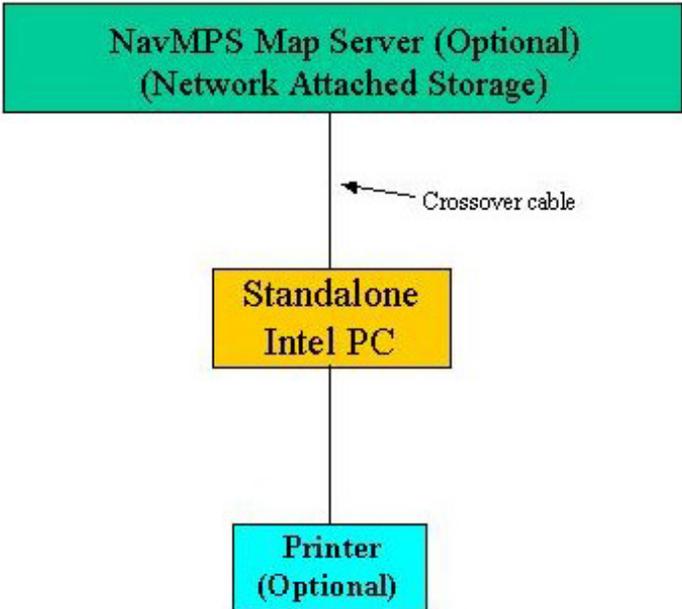


Figure I-5 JMPS-M Combat Standalone Configuration

The Standalone configuration can be a Desktop PC or a Laptop and will fulfill the requirements of the Other Battle Group Assets (Afloat) environment. It is also suitable for the Non-combatant and Combatant (Ashore) environments.

**(f) Application of JMPS-M Combat Configurations**

<b>JMPS-M Combat Design Objectives</b>	<b>JMPS-M Combat Configuration</b>
Home port air station	JMPS-M Combat Enterprise Lite
On Detachments from parent organization (e.g., without external support)	JMPS-M Combat Workgroup
Squadron deployed land-based	JMPS-M Combat Standalone, Workgroup or Enterprise Lite (depending on location)
Centers of Excellence (e.g., Naval Strike Air Warfare Center (NSAWC)- Fallon)	JMPS-M Combat Enterprise
Airborne (with or without wireless connectivity)	JMPS-M Combat Standalone, Workgroup
Onboard aviation capable ships (in CVIC, Ready Rooms, etc.)	JMPS-M Combat Enterprise
Land-based expeditionary operations	JMPS-M Combat Standalone, Workgroup
Special Operations	JMPS-M Combat Standalone, Workgroup

**2. Physical Description.** The NavMPS systems will be used in a variety of harsh operating environments; it has been mandated that NavMPS, overall, must meet at least Grade B shock specifications with a future capability to meet Grade A specifications.

**a. Software.** The software operation was described above. There are no pieces of equipment associated with the different software builds. Hardware is described below.

**b. Hardware.** NavMPS hardware mainly consists of CaNDI equipment. Specifications are listed below.

**(1) TAMPS.** A fleet SUN ULTRA 2 (1200/1300) configuration will contain one workstation and peripherals. A fleet CVIC system configuration manages the shipboard NavMPS LAN. If a NavMPS activity receives multiple systems, only one peripheral rack will be required. The peripheral rack will contain the DSU receptacles. Depending upon the recipient activity's location and deployability, the NavMPS systems may be in a desktop or rack mounted configuration. There are currently three hardware configurations; TAMPS Desktop Portable, the CVIC system and the Mini Server system.

**(a) TAMPS Desktop Portable.** The equipment for the desk top portable system is listed below.

1 Sun Ultra 2 1200/1300 w/ 300 Mega Hertz (MHz) Ultra SPARC Central Processing Unit (CPU) w/256 Megabyte (MB) Random Access Memory (RAM)
2 18 GB Hard Drives
1 ATM Network Card
1 1.44 MB 3 1/2" Disk Drive
1 Compact Disk - Read Only Memory (CD-ROM) Drive
1 8mm Exabyte Tape Drive
1 20" High Resolution Color Monitor
1 Keyboard
1 ITAC Trackball
1 Xerox Color Laser Printer
1 DSU Receptacle, and/or MDL, and/or TID (as required by site)
1 UPS

**(b) CVIC System.** The equipment for the CVIC system is listed below. A generic representation of the NavMPS CVIC system, comprised of the SUN Enterprise 4000 (Model 4002), the SUN ULTRA 2 (2300), PC clients, and printers.

The Primary Server System (SUN Enterprise 4000 (Model 4002) components are listed below.

**The Primary Server System (SUN Enterprise 4000 (Model 4002))**

1 Four 250MHz CPU w/1 GB RAM
1 126 GB Disk Array
1 Ethernet Controller
1 Fibre Channel Interface
2 ATM Network Cards
1 CD-ROM Drive
1 8mm 14 GB Exabyte Tape Drive
1 17" High Resolution Color Monitor with Creator 24 Bit Graphics
1 Keyboard
1 ITAC Trackball
1 Laser Printer
2 UPSs

The Permanent Client System (SUN ULTRA 2 (2300)) components are listed below.

**Permanent Client System (SUN ULTRA 2 (2300))**

1 Two 300MHz CPU w/512 MB RAM
2 18 GB Hard Drives
1 Ethernet Controller
1 Fibre Channel Interface
2 ATM Network Cards
1 1.44 MB 3 1/2" Disk Drive
1 CD-ROM Drive
1 8mm Exabyte Tape Drive
1 20" High Resolution Color Monitor with Creator 24 Bit Graphics
1 Keyboard
1 ITAC Trackball
1 HP Laser Printer (Server Mode)
1 Xerox Color Laser Printer (Client Mode)
1 DSU Receptacle, and/or MDL, and/or TID (as required by site)
1 UPS

The PC Client System components are listed below:

**PC Client System**

1 Pentium PC
1 3.5 GB Hard Drive
1 Ethernet Adapter
1 PCMCIA
1 CD-ROM Drive
1 17" High Resolution Color Monitor
1 Keyboard
1 Mouse
1 Microphone
2 Speakers

The PC Client System components are listed below:

**Server Printers**

1 High-Quality Color Laser Printer
1 Black and White Laser Printer

(c) **Mini-Server System.** The PC Client System components are listed below:

**CCA, System Board, Ultra 2**

2 CCA, CPU ULTRA SPARC2, 300 MHz
8 CCA, Memory Module, 64 MB
1 CCA, Video Display Controller
1 CCA, Interface Adapter
1 Adapter, Host Fiber Channel
1 CCA, Fiber Channel
2 CCA, ATM Interface
1 Power Supply
1 Cable Assembly, Power
1 Disk Array Assembly
1 Fan Tray Assy
1 Backplane
1 CCA, Controller Assembly
1 Power Supply Assy
1 Power Supply 440W
2 Disk Tray Assy
4.2 GB Disk Drive
2 CCA, Fiber Channel
1 SCSI Enclosure (9 Bay)
1 Drive, PCMCIA
1 Drive, CD-ROM, 12X
1 Drive, Tape, 8mm

**(2) N-PFPS Hardware**

(a) **Laptops.** The PC Client System components are housed in a standard Laptop computer. The equipment for the CVIC system is listed below:

1 Pentium III PC
1 12 GB Hard Drive
1 3.5" Floppy Drive
1 CD-ROM/Digital Video Disc (DVD) Drive
1 PCMCIA Card
1 56K Modem
1 10/100 Ethernet Network Card
1 15" Super-eXtended Graphics Array+ Monitor

**(b) Desktops.** The PC Client System components are housed in a standard desktop computer. The equipment for the CVIC system is listed below:

1 Pentium III PC
1 30 GB Hard Drive
1 3.5" Floppy Drive
1 CD-ROM/DVD Drive
1 Zip Drive
1 10/100 Ethernet Network Card
1 19" Color Monitor

### **(3). JMPS-M Hardware**

**(a) JMPS-M Combat Enterprise Server.** The JMPS-M Combat Enterprise System consists of the Afloat, Ashore, and Desktop configurations. The Tactical Advanced Computer (TAC)-4 rack is 24" wide and 72". The following lists contain the equipment for each system depending upon activity requirements:

#### **JMPS-M Combat Enterprise System, Afloat**

2 JMPS-M Combat Servers
1 JMPS-M Enterprise RAID Array
1 Shared Map Storage
4 JMPS-M Workstations
1 JMPS-M Combat Enterprise Rack – Afloat
1 Shipboard Ethernet Switch

#### **JMPS-M Combat Enterprise System, Ashore**

2 JMPS-M Combat Servers
1 JMPS-M Enterprise RAID Array
1 Shared Map Storage
4 JMPS-M Workstations
2 JMPS-M Combat Enterprise Rack – Ashore
1 16-Port Ethernet Switch

#### **JMPS-M Combat Enterprise System, Desktop**

2 JMPS-M Combat Servers
1 JMPS-M Enterprise RAID Array
1 Shared Map Storage
1 Desktop Configuration
1 8-Port Ethernet Switch

**(b) JMPS-M Combat Enterprise Lite Server.** The JMPS-M Combat Enterprise Lite configuration is a scaled down version of the JMPS-M Combat Enterprise configuration discussed above. The JMPS-M Combat Enterprise Lite System consists of the Afloat, Ashore, and Desktop configurations. The TAC-4 is also used with the Enterprise Lite configuration. The TAC-4 rack is 24” wide and 72” tall.

The following lists contain the equipment for each system depending upon activity requirements:

#### **JMPS-M Combat Enterprise Lite System, Afloat**

1 JMPS-M Combat Server
1 JMPS-M Enterprise Lite RAID Array
1 Shared Map Storage
4 JMPS-M Workstations
1 JMPS-M Combat Enterprise Lite Rack – Afloat
1 Shipboard Ethernet Switch

#### **JMPS-M Combat Enterprise Lite System, Ashore**

1 JMPS-M Combat Server
1 JMPS-M Enterprise Lite RAID Array
1 Shared Map Storage
4 JMPS-M Workstations
1 JMPS-M Combat Enterprise Lite Rack – Ashore
1 16-Port Ethernet Switch

#### **JMPS-M Combat Enterprise Lite System, Desktop**

1 JMPS-M Combat Server
1 JMPS-M Enterprise Lite RAID Array
1 Shared Map Storage
1 Desktop Configuration
1 8-Port Ethernet Switch

**(c) JMPS-M Combat Pico Server Configuration.** The JMPS software will be hosted on the JMPS-M Combat PICO Server. JMPS PC Clients, and printer will be connected to the server via a network interface. These hardware components are comprised of CaNDI equipment. The following is a list of the main hardware components of a fleet configured system. The JMPS-M Combat Pico System consists of the Ashore, Transit, and Desktop configurations.

The following lists contain the equipment for each system depending upon activity requirements:

#### **JMPS-M Combat Pico Server**

1	Compaq ProLiant DL380 G2
2	Compaq 1.4 GHz Intel Pentium III Processor
3	Compaq 2048-MB memory upgrades, total 4,352-MB
5	Compaq Wide Ultra 3 72.8 GB SCSI drive, 10000 RPM
1	Compaq AIT 50/100 GB Tape Drive
1	Compaq NC7131 Gigabit Server Adapter, PCI 10/100/1000-T
1	Compaq Redundant Power Supply Module
1	Compaq Redundant Fan Option Kit
2	Compaq FCA2101 Host Adapter
1	Compaq Smart Array 5i Plus Controller & BBWC Enabler Bundle
1	Compaq DVD-ROM Drive
1	Third Party Rail Kit
1	Drive Blanks
1	Extra AIT Tapes for Servers (5 pack from Compaq)
1	Compaq P729 17" Monitor
1	Fellows 104 Enhanced key Boards
1	Microsoft Wheel Mouse PS/2
1	APC UPS

**JMPS-M Combat Pico System, Ashore**

1	JMPS-M Combat Servers
1	JMPS-M Pico RAID Array
1	Shared Map Storage
4	JMPS-M Workstations
1	JMPS-M Combat Pico Server – Afloat
1	8-Port Ethernet Switch

**JMPS-M Combat Pico System, Transit**

1	JMPS-M Combat Server
1	JMPS-M Pico RAID Array
1	Shared Map Storage
4	JMPS-M Workstations
1	JMPS-M Combat Pico Server – Transit
1	8-Port Ethernet Switch

**JMPS-M Combat Pico System, Desktop**

1 JMPS-M Combat Server
1 JMPS-M Pico RAID Array
1 Shared Map Storage
1 Desktop Configuration
1 8-Port Ethernet Switch

**(d) JMPS-M Combat Desktop – Workgroup Configuration.**

The workstation configuration computer selected for JMPS is the Micron ClientPro 525G. The ClientPro computer features a high-performance system board, an Intel Pentium 4 processor, Intel 850E chipset, ultra-fast 533MHz system bus, PC800 RDRAM memory, and integrated high-speed USB 2.0.

**(e) JMPS-M Combat Desktop and Laptop – Standalone**

**Configuration.** The Desktop unit would be the same as the workgroup configuration but used separately. A laptop can be used as a standalone unit or as a part of the network. However, it must be understood that when the laptop is connected to a classified system (e.g., for Server Walkaway), it becomes permanently classified.

**JMPS-M Combat Standalone, Afloat**

1 Shared Map Storage (optional)
1 JMPS-M Workstation

**JMPS-M Combat Standalone, Ashore**

1 Shared Map Storage (optional)
1 JMPS-M Workstation

**3. New Development Introduction.** NavMPS hardware and software are based upon evolutionary upgrades to the previous version. This allows the program to take advantage of hardware and software advancements as well as fleet inputs to further enhance the NavMPS's capability to assist the mission planner. The next spiral development will be JMPS-M Combat Precision Guided Munitions (JCP).

**4. Significant Interfaces.** In order for TAMPS to be able to provide reliable and useful data to the mission planner, the databases must be updated to keep abreast of constant global changes. This data is provided by existing resources and will not increase/decrease the interfacing systems manpower requirements. Below are the methods for maintaining the NavMPS databases.

**a. Threat Databases.** The source data is provided via the Defense Intelligence Agency Modernized Integrated Database (MIDB). The MIDB consists of friendly, neutral, and enemy order of battle.

**(1) Manual Updates.** The System Administrator (SA)/Data Base Administrator (DBA) may utilize available resources to maintain the database by updating the threat files with the latest intelligence data, reconnaissance information, or pilot reports.

**(2) Electronic Updates.** The SA/DBA may utilize the ETHERNET or ATM interface from the CVIC to the Global Command and Control System - Maritime for retrieving updates to Order of Battle.

**b. System Database.** The NavMPS database will also consist of geo-political data. This data will be imported into the NavMPS from the National Imagery and Mapping Agency charts, Digital Terrain Elevation Data (DTED), Controlled Image Base files and Digital Aeronautical Flight Information Files (DAFIF).

**c. Additional Interfaces.** There are additional interfaces under development that could potentially be utilized in loading and updating NavMPS data files.

**(1) Tactical EA-6B Mission Support (TEAMS) System.** NavMPS possesses the capability to interface with TEAMS. TEAMS handles mission activities of the EA-6B aircraft and its intelligence information. This interface can save SA/DBAs time in interactive updates to the threat database. Data review and System Administration (SA)/Database Administration (DBA) initiated actions are required to apply the TEAMS updates to the NavMPS program. Mission planners are able to transfer route data across this interface.

**d. Mission Rehearsal.** Mission Rehearsal is the practice of planned tasks and functions critical to mission success using a true-to-life, interactive representation of the expected operating environment. Planner selected missions from NavMPS can be passed to Tactical Operations Scene (TOPSCENE) where mission rehearsal can occur using realistic scenes of imagery draped over DTED. Prior to execution, aircrews will receive detailed briefings based on the detailed products developed by NavMPS that include mission data loads, kneeboard cards, strip charts, etc

**5. New Features, Configurations, or Material.** NavMPS does not drive technology breakthroughs, but utilizes state-of-the-art, commercially available hardware in conjunction with a mix of CaNDI, Government Off-The-Shelf (GOTS), and NavMPS specific software to perform mission planning.

The NavMPS program is built upon the philosophy of adding enhanced capabilities through new software releases. Below is a summary of system upgrades planned to be incorporated into future NavMPS software releases.

**a. TAMPS Software Release 6.2.1.** Software release 6.2.1 was a maintenance release for UNIX systems and was introduced during the third quarter of FY01. It incorporated improved force level planning tools connection, JDAM, TAMMAC, and GPS terminal procedures. No additional TAMPS software releases are planned. Patch Sets will continue to be produced to maintain TAMPS software until its planned retirement in FY 07.

**b. N-PFPS Software Release 3.3.1.** The next intended release of N-PFPS by PMA-281 to DoN is 3.3.1. The scheduled release date is first quarter of FY05.

**c. JMPS-M Software Release 1.1.** -Software release 1.1 will be the first release of JMPS software fielded with the first JMPS systems in the fleet. This software release will run in a Windows 2000 environment. Software release 1.3 will be the next Navy software version scheduled for release in FY05.

## H. CONCEPTS

**1. Operational Concept.** NavMPS, with properly maintained databases, will greatly enhance the mission planning process by providing the operator with threat projections, calculating aircraft and weapons data (although the pubs must still be used to verify the output data) and providing flight data, strip charts, and radar predictions upon mission route selection. NavMPS will also allow the mission planner to initiate route modifications to enhance the probability of mission success.

**2. Maintenance Concept.** The NavMPS maintenance concept has been designed to provide a high degree of operational readiness. Because of the variety of CaNDI hardware in NavMPS, a modified maintenance approach is used to provide optimum coverage during equipment changes. There are two levels of maintenance associated with NavMPS; Organizational Level (O-Level) and Depot Level(D-Level) (Depot in this case is the Original Equipment Manufacturer (OEM)). Direction and guidance concerning the maintenance concept for the NavMPS hardware is provided in NavMPS User Logistics Support Summary.

**a. Organizational.** O-Level maintenance is performed at the operating unit. These maintenance actions encompass preventive and some corrective maintenance, depending on the deployment status of the equipment. Tasks at-sea are performed by a ship's company Intelligence Center Maintenance Technician who holds an Electronics Technician (ET-1654) Navy Enlisted Classification (NEC). When non-deployed, this maintenance may be performed by the squadron personnel.

**(1) Preventive Maintenance.** Preventative maintenance tasks are those tasks performed to prevent or minimize wear, deterioration, and performance degradation. Those tasks include periodic inspection, testing, cleaning, lubrication and minor repair (light bulb and fuse replacement) to maintain equipment in satisfactory operational status. These maintenance actions are define in the NavMPS Maintenance Requirements Cards (MRC). The MRC cards will delineate what rate and amount of time required to perform the tasks. There are currently MRC cards and PMS for the TAMPS system. JMPS system MRC cards and PMS are being developed.

**(2) Corrective Maintenance.** Corrective maintenance actions taken will vary depending on the deployment status of the operating unit. For deployed equipment, corrective maintenance consists of Lowest Replaceable Unit (LRU) (printer, keyboard, monitor, etc) and Shop Replaceable Unit (SRU) (circuit cards, disk drives, etc.) removal and replacement. On-site repair kits are deployed aboard CV/CVNs and at select United States Navy (USN) and

United States Marine Corps (USMC) land sites to support organizational maintenance for non-deployed equipment, corrective maintenance consists of LRU (printer, keyboard, monitor, etc.) removal and replacement only. For non-deployed equipment, personnel should contact the NavMPS Help Desk to determine availability of replacement parts or warranty action. SSC SD, C4I Programs Office, Philadelphia will support non-deployed units by providing at least one of the following:

- Interface with warranty providers to affect repairs.
- Dispatch a Technical Representative (Tech Rep) to repair the equipment.
- FED EX replacement parts if site is capable of affecting repair.

**b. Intermediate.** No intermediate maintenance on this system.

**c. Depot.** All D-Level maintenance is coordinated by SSC-SD C4I Programs Office, Philadelphia as the ISEA for PMA-281. D-Level maintenance is limited to repairs or replacement of equipment performed under warranty by the vendor of the OEM. The commercial manufacturers' hardware warranties provide for repair or replacement of the defective part for a period of 1-3 years from date of purchase by the government. Laptops are purchased with a 1 year warrantee with the additional 2-year extended warrantee making the total 3 years. Desk tops and Printers are purchased with a 1 year warrantee. If need arises where D-Level maintenance is required after warrantees have expired, the OEM is used as the repair facility.

**d. Interim Maintenance**

(1) SSC SD, C4I Programs Office, Philadelphia is the focal point for product support. This will consist of field level training in conjunction with initial system installation and maintenance support.

(2) The Naval Air Warfare Center - Weapons Division (NAWC - WD), Pt. Mugu is the Software Support Activity, integrator, and configuration manager for TAMPS software. NAWC - AD, Patuxent River is responsible for software Independent Verification and Validation. Repair and disposition of retrograde assemblies beyond the capability of the organizational level is accomplished by the designated depot activity. SSC SD, C4I Programs Office, Philadelphia, PA, is currently the designated depot site for all NavMPS hardware. Interim level depot maintenance consists of special shop equipment and trained personnel for testing, troubleshooting, inspecting, servicing, lubricating, adjusting, and replacing parts, major assemblies, and subassemblies to the original configuration.

**e. Life-Cycle Maintenance Plan.** System components are under warrantee for 3 years (most printers are warranted for only one year) at which time the system will be replaced. This technology refresh will not require a life cycle maintenance plan.

**3. Manning Concept.** The NavMPS manning concept is driven by the total system requirements for effective utilization and confidence in NavMPS. Functional operating requirements will be accomplished through the utilization of existing manpower. These

positions include mission planners, SAs, DBAs, and maintenance personnel. Mission planners are primarily squadron level aircrew (i.e., pilots, Naval Flight Officers (NFOs), navigators). System administration and database administration is performed by ISs and Its respectively. Maintenance is performed by ETs aboard ship and by SSC SD, C4I Philadelphia ashore by providing the maintenance support through the Help Desk, warrantees, and FEDEX.

**4. Training Concept.** The NavMPS training concept is based on the precept that the users and maintainers have attained the necessary primary Navy Officer Billet Classification (NOBC), Navy Enlisted Classification (NEC), or Military Occupational Specialty (MOS) and prerequisite levels of experience in their specialty prior to receiving NavMPS training. The NavMPS training will build upon this knowledge base and provide the trainee with the necessary instruction to effectively operate the NavMPS hardware and software to conduct the Framework (generic) mission planning. Training for specific avionics/functionality is the responsibility of the applicable platform Program Office. Coordination between all participating organizations will ensure specific aircraft platform, avionics, and functionality mission planning training is available.

NavMPS training is incorporated into existing courses for maintenance, SA/DBA and Pilots/Naval Flight Officers. The automated mission planning training concept is for an integrated training continuum that lays the foundation for automated mission planning at the Naval Aviation Training Command (Level 1) and continues to build on that knowledge at the Fleet Replacement Squadrons (FRS) and/or Wing Training Units (WTU) (Level 2). Intermediate level training will be conducted at the appropriate weapon schools and in fleet squadrons (Level 3), and advanced training will be conducted at the advanced weapon schools NSAWC and Marine Air Weapons Training Squadron-One (MAWTS-1)) and in fleet squadrons (Level 4). Refer to table I-1 for breakdown of training level to applicable school.

LVL	CATEGORY	TRAINING ACTIVITY	LOCATION	PLATFORM
1	CNATRA	TRAWING 1	MERIDIAN, MS	T-45C
		TRAWING 2	KINGSVILLE, TX	T-45A
		TRAWING 4	CORPUS CHRISTI, TX	T-44
		TRAWING 5	MILTON, FL	TH-57
1	CNATRA (cont)	TRAWING 6	PENSACOLA, FL	NFO's
2	TRAINING SQUADRON	VMAT-203	CHERRY POINT, NC	AV-8
		HMT-164	CAMP PENDLETON, CA	CH-46E
		HMT-301	KANEOHE BAY, HI	CH-53D
		HMT-302	NEW RIVER, NC	CH-53E
		HMT-303	CAMP PENDLETON, CA	AH-1W/UH-1N
		VMMT-204	NEW RIVER, NC	MV-22
		VMGRT-253	CHERRY POINT, NC	KC-130

LVL	CATEGORY	TRAINING ACTIVITY	LOCATION	PLATFORM
		VMFAT-101	MIRAMAR, CA	F/A-18
2	FLEET REPLACEMENT SQUADRON	VFA-125	LEMOORE, CA	F/A-18
		VFA-106	OCEANA, VA	F/A-18
		VFA-122	LEMOORE, CA	F/A-18E/F
		VF-101	OCEANA, VA	F-14
		VAW-120	NORFOLK, VA	E-2C
		COMAEWWINGPAC	PT. MUGU, CA	E-2C
		HSL-40/WTU	MAYPORT, FL	SH-60B
		HSL-41	NORTH ISLAND, CA	SH-60B
		HC-2	NORFOLK, VA	H-3
		HC-3	NORTH ISLAND, CA	H-46
		AMWSTS	NORFOLK, VA	MH-53E
		VAQ-129	WHIDBEY ISLAND, WA	EA-6B
		VP-30/WTU	JACKSONVILLE, FL	P-3/EP-3
		VS-41	NORTH ISLAND, CA	S-3
		HSWINGPAC WTU/HS-10	NORTH ISLAND, CA	SH-60F/HH-60H
		HSWINGLANT WTU	JACKSONVILLE, FL	SH-60F/HH-60H
CTR FOR MARITIME DOMINANCE	NORTH ISLAND, CA	S-3		
3	WEAPONS SCHOOL	SFWSLANT	OCEANA, VA	F/A-18; F-14
		SFWSPAC	LEMOORE, CA	F/A-18
		SEACONTWPNSLANT	JACKSONVILLE, FL	S-3
		EAWS	WHIDBEY ISLAND, WA	EA-6B
4	ADVANCED WEAPONS	NSAWC	FALLON, NV	VARIOUS
		MAWTS-1	YUMA, AZ	VARIOUS
	SCHOOL HOUSES	NMITC	DAM NECK, VA	SA/DBA
				MAINTENANCE

Table I-1 School Level Breakdown

The intent of the NavMPS training program is to provide applicable training at each major phase of the aviation training pipeline. This will include the advanced stage for undergraduate pilot training (CNATRA) and advanced stage for NFO training (CNATRA),

FRS/WTU, and weapon school training. The goal is to teach automated mission planning as a team of products or “system of applications” so they appear as a seamless family. This will provide each aviator with the knowledge of what tools are available to assist him in planning a single flight plan or a complete strike package.

**a. TAMPS.** SSC SD, C4I Programs Office, Philadelphia developed the training materials for the common core functions for TAMPS 6.2.1. Some MPMs/MPFs provided SSC SD, C4I Programs Office, Philadelphia with an addendum for their specific platform/weapon system/avionics (F/A-18, E-2C, JSOW, JDAM, SLAM, SLAM-ER, and ARC-210).

Due to the evolutionary nature of the NavMPS program and the open architecture of the software, there is potential for new MPMs/MPFs to be added to the NavMPS. As new MPMs/MPFs are developed, the developing agency will ensure the appropriate training and training material are also generated. Additionally, the developing agency will ensure that this course data is coordinated with SSC SD, C4I Programs Office, Philadelphia for distribution, prior to fleet introduction, to the impacted FRSs/WTUs, weapon schools, and Navy and Marine Corps Intelligence Training Center (NMITC) for incorporation into their NavMPS training unit of instruction modules. The SA/DBA package is distributed to NMITC while the full mission planning package is distributed to the weapon schools, FRSs/WTUs, MAWTS-1, Marine Aircraft Wings, and Marine Aircraft Groups. The individual communities will modify the mission planning course materials to fit their requirements and integrate the NavMPS training into their respective mission planning curricula.

NSAWC is the Model Manager for the NavMPS functionality. NMITC is the Model Manager for the SA/DBA course and the maintenance course.

**b. N-PFPS.** SSC SD, C4I Programs Office, Philadelphia provides training at Philadelphia the first week of every month. They also have regional support personnel that can provide training upon request.

**c. JMPS.** SSC SD, C4I has developed paged based training materials with power point slides for mission planners, SA/DBAs and maintenance courses.

Planning for JMPS-M training includes page based materials and tutorials for mission planning and SA/DBA. NavMPS Program Office has contracted for the JMPS-M Core/Framework training materials to be developed. Style Guides was developed for these materials.

The initial portion of the JMPS-M training concept remains the same as with TAMPS. SSC SD, C4I Programs Office, Philadelphia contracts with Lockheed Martin to develop the JMPS-M training materials. UPCs may contract with SSC SD, C4I Programs Office, Philadelphia to develop their UPC specific training materials if they desire. Where SSC SD, C4I Programs Office, Philadelphia distributes the final product will change with the additions of aircraft platforms and weapons systems. After the training materials are accepted by PMA281, SSC SD, C4I Programs Office, Philadelphia will distribute the final product(s) to PMA 205 for further distribution to the various CNATRA, FRS, WTU, and Weapon School schoolhouses.

The associated R & M contractors will use the mission planning training materials to develop/update the current mission planning class in their respective schoolhouse curriculum. The applicable Mission Planning UPCs will distribute their material to PMA205 also, and PMA205 will distribute it to the respective schoolhouse (R & M contractor). The R & M contractor will use the complete package to complete their respective mission planning class for type aircraft mission planning training. The PGM UPC will provide their material directly to the applicable weapon school. Figure I-1 shows the process.

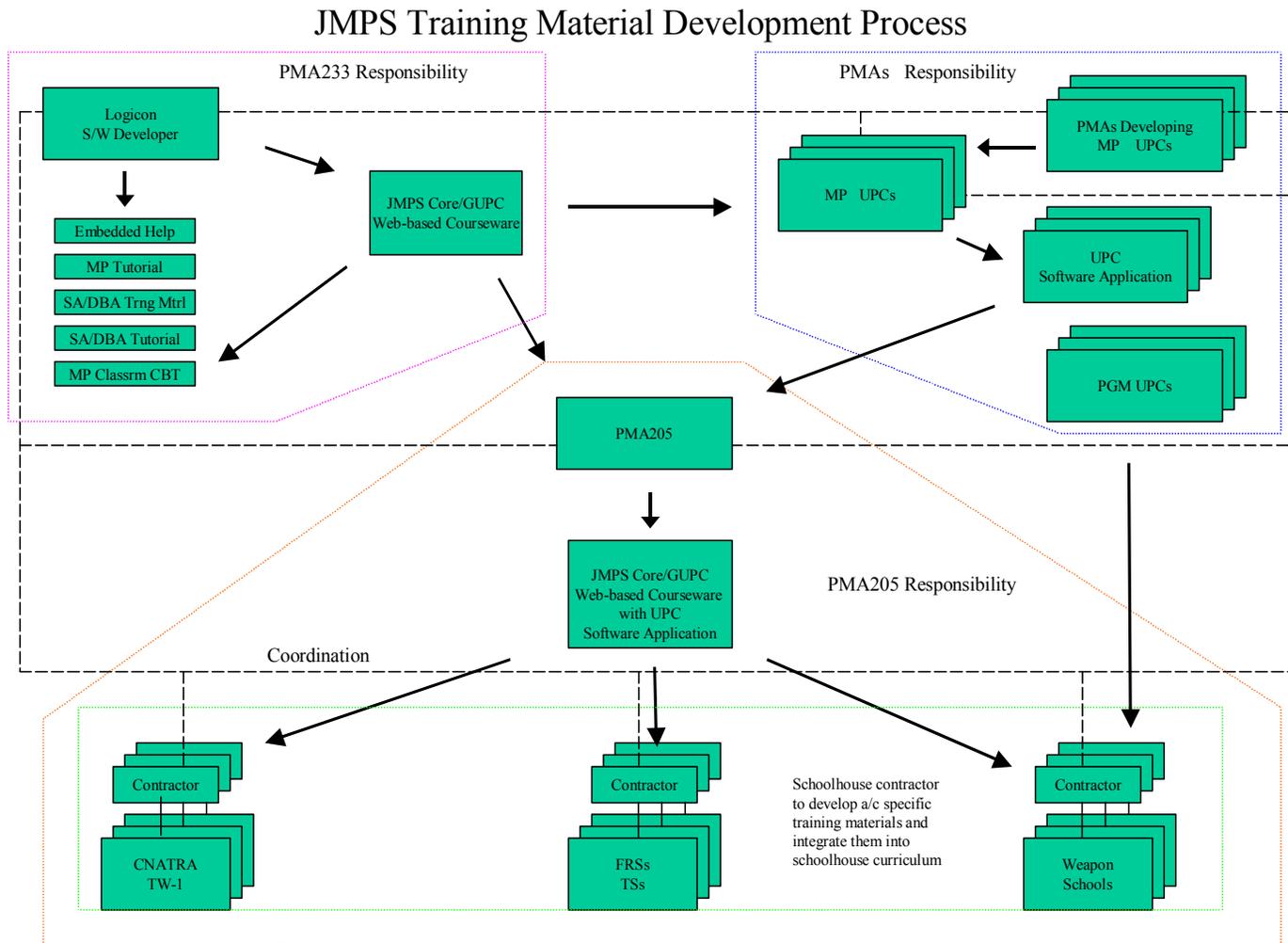


Figure 1-18 JMPS Training Material Development Process

**a. Factory Training.** For each new software release, SSC SD, C4I Programs Office, Philadelphia provides initial SA/DBA training to the instructors at NMITC and initial mission planning training to CNATRA, FRSs/WTUs and weapon schools instructors.

**b. Follow-on Training.** Follow-on training is formal training conducted at military schools to ensure qualified operators and proper life cycle support. This is accomplished through a training methodology that tailors the courseware to the targeted student population. The ultimate goal of the NavMPS training program is to have appropriate schoolhouses provide applicable training at each major phase of the aviation training pipeline. This will include primary pilot training and basic NFO training, FRS/WTUs, and weapon school training

**(1) NavMPS Mission Planner.** Pilots and NFOs will be provided the necessary skills and knowledge requirements for proper operation of the NavMPS. The aircrew training is building block in nature and based on minimum terminal objectives. This is accomplished by integrating the required NavMPS information into the specific aircraft mission planning training syllabus at each level of an aviator's training.

**(a)** The Naval Air Training Command will introduce the system of applications concept with a focus on basic mission planning capabilities using the N-PFPS until it is eventually replaced with JMPS-M. The T-45 is the only CNATRA aircraft that has an FPM and can download the planned flight into the aircraft computer.

**(b)** All FRSs/WTUs will integrate the NavMPS training into the existing type aircraft mission planning syllabus by having training materials tailored to specific platforms, utilizing basic systems applications, and focusing on combat mission planning capabilities. Courses will be updated for NavMPS upon the FRSs/WTUs receipt of the appropriate training materials. The major objectives are to use NavMPS for basic mission planning as follows:

- Create single aircraft mission to include the Target Attack event, if applicable.
- Display chart, imagery, and elevation data background.
- Display target area threats.
- Generate single aircraft kneeboard products.
- Generate applicable aircraft digital loads.

**(c)** The weapons schools will integrate NavMPS training into their existing weapon system/advanced readiness program syllabi providing full use of system applications capabilities, and focusing on integrated combat and strike/force level mission planning. The major objectives are to use NavMPS for mission planning as follows:

- Analyze strike mission susceptibility to target threats.
- Create strike mission package.
- Generate strike mission briefing products.
- Generate products provided by the applicable mission planning modules and digital loads.

(d) Advanced weapons schools (NSAWC and MAWTS-1) will provide strike planning focused on advanced, full spectrum, strike mission planning with NavMPS products. NSAWC evaluates NavMPS training effectiveness through practical application during air wing deployments to Naval Air Station (NAS) Fallon. MAWTS-1 conducts two Weapons Tactics Instructor courses annually with major strike planning exercises.

Aircrews will attend applicable courses as part of their normal pre-deployment workups. The participating weapons schools are as follows:

Strike Fighter Weapons School, Atlantic  
(SFWSLANT), Strike Weapons and Tactics School, Atlantic  
(SWATSLANT), NAS Oceana, VA

Strike Fighter Weapons School, Pacific  
(SFWSLANT), NAS Lemoore, CA

Sea Control Weapons School, Atlantic  
(SEACONWPNSLANT), NAS Jacksonville, FL

Electronic Attack Weapons School  
(EAWS), NAS Whidbey Island, WA

Naval Strike and Air Warfare Center  
(NSAWC), NAS Fallon, NV

Marine Aviation Weapons and Tactics Squadron One  
(MAWTS-1), MCAS Yuma, AZ

**(2) System Administrator/Database Administrator.** The intent of the SA/DBA course is to provide Navy Intelligence Specialist (IS) 3923 and Marine Corps MOS 0231 personnel in-depth database and system management training to include descriptions of database files, a functional description of the database administration sub-process, and instruction in procedures for generation and update of operational and aircraft databases. The students will also be trained to oversee and coordinate the use of NavMPS equipment, loading of upgraded software, system backup procedures, and the ability to limit access through password and level of use assignment. The Marine Corps will use the Navy training at NMITC. The following is the course information:

<b>Title .....</b>	<b>Tactical Aircraft Mission Planning System Administrator</b>
CIN .....	J-150-2965
Model Manager....	NMITC, Dam Neck, VA
Description.....	This course is designed to provide Navy, Marine, and other Department of Defense (DOD) component personnel filling TAMPS System Administrator billets with the training necessary to perform basic operations, system administration, database administration of TAMPS.  Topic areas taught include: - TAMPS configurations - User interface - Aircraft mission planning and data loads - General system administration - Backup and restore functions - Software installation - Trouble-shooting
Location .....	NMITC (Stand-alone Course)
Length.....	12 Days
RFT date	Currently available
Skill identifier .....	° NA
TTE/TD.....	° Enterprise 4000/Sun 2300 ° 6 Desktops-1200/1300
Prerequisite .....	° NEC - IS 3923 or Marine Corps MOS 0231 open class ° Security Clearance - Secret

**(3) Maintenance Technician.** The NavMPS hardware maintenance course is embedded in the Intelligence Center Maintenance (ICM) Course for Electronics Technician (ET) training for NEC 1654 (course J-150-2019). This training is available only at NMITC and provides maintenance technicians with the skills and knowledge required to perform both preventive and corrective maintenance on the NavMPS hardware. In addition, the maintenance technician will receive limited instruction on the operation of the software to facilitate troubleshooting the NavMPS in accordance with the established Maintenance Plans. The maintenance course includes the CVIC system and the SUN ULTRA 2 (1200/1300).

<b>Title .....</b>	<b>Intelligence Center Maintenance</b>
CIN .....	J-150-2019
Model Manager....	NMITC
Description.....	This course is designed to provide selected ET with an overall understanding of and the ability to maintain digital computer system commonly found in the CVIC.
Location .....	NMITC, Dam Neck
Length.....	33 days (JMPS-M is covered in a 2-week module that is integrated into this course
RFT date .....	Currently available
Skill identifier .....	ET 1654
TTE/TD.....	<ul style="list-style-type: none"> <li>◦ AN/TYQ-84(V)2 Desktop Portable System</li> <li>◦ AN/UYQ-81(V)</li> </ul>
Prerequisite .....	<ul style="list-style-type: none"> <li>◦ Graduate of ET "A" school or equivalent</li> <li>◦ Rate – ET</li> <li>◦ Security Clearance Secret</li> <li>◦ NEC 1677</li> </ul>

(4) An abbreviated NavMPS mission planning demonstration is incorporated into the Naval Intelligence Officer Basic Course, Course Identification Number (CIN) J-3A-0010. This will provide the attending students with a basic knowledge of TAMPS capabilities and data interface requirements.

(5) A four-day introduction class is embedded in the Afloat Strike Planning Support Course, CIN J-150-0987. This block of instruction will provide attending students with basic skills and an introduction to basic mission planning.

**c. Cadre Training.** SSC SD, C4I Programs Office, Philadelphia Fleet Introduction Team (FIT) will conduct cadre training. This training can cover mission planning, SA/DBA, and maintenance training for personnel at activities receiving the NavMPS hardware and/or software. SSC SD, C4I Programs Office, the FIT will conduct any specialized NavMPS training that is in addition to the training mentioned above. Formal (schoolhouse) NavMPS follow-on training, however, will be obtained by activities when notified of receiving their first NavMPS system and prior to NavMPS installation. The FIT will evaluate the NavMPS training requirements at the recipient activity and tailor the training program to meet the training requirements of that activity. Upon completion of the instruction, the FIT will again evaluate the students at the recipient activity to ensure that they possess the necessary knowledge and skills to effectively operate the NavMPS hardware and software.

**d. Student Profiles.** The installation of the NavMPS will not change the existing qualitative manpower requirements in the recipient fleet activities.

**(1) Watch Station Requirements.** The display and tracking of information in relation to aircraft mission planning is currently required at all targeted NavMPS sites. NavMPS provides, organizes, and displays information already available for use by aircrew personnel.

**e. Reserve Component.** The current delivery schedule includes reserve activities that will receive NavMPS work stations. All training required for effective system utilization is available for reserve personnel by attending the active duty curriculum.

**f. Training Pipelines.** There are no new training pipelines required for these systems. Pilot/NFO, SA/DBA, and maintainer training is incorporated into existing training pipelines.

**I. ONBOARD (IN-SERVICE) TRAINING.** There is currently no onboard training required.

**1. Proficiency or Other Training Organic to the New Development.** There is currently no proficiency training in place.

**a. Maintenance Training Improvement Program (MTIP).** NavMPS is not currently part of MTIP.

**b. Aviation Maintenance Training Continuum System (AMTCS).** NavMPS is not currently part of AMTCS.

**2. Personnel Qualification Standards.** NA

**3. Other Onboard or In-service Training Packages.** NA

**J. LOGISTICS SUPPORT**

**1. Manufacturer and Contract Numbers.** NAWC - WD Pt. Mugu is the prime 6.2.1 software integrator, and SUN is the prime Sun Enterprise 4000/SUN ULTRA 2 hardware contractor. The following are the current contract numbers:

<b>CONTRACT NUMBER</b>	<b>MANUFACTURER</b>
N66032-94-D-0012	Sun
0014002-F-5512	Gateway
N0014002-F-3679	Micron
N0014002-F-5130	HP

**2. Program Documentation.** An Acquisition Logistics Support Plan for NavMPS, dated December 2000, has been generated to identify the logistic support elements and the manner in which support resources will be developed for the operation and maintenance of the NavMPS systems of application. A Joint Acquisition Logistics Support Plan, dated 1 June 2002, has been developed for JMPS-M. The JMPS-M ORD was approved on 15 June 2003 and the TEMP, J1588, is awaiting approval signature.

**3. Technical Data Plan.**

**a. TAMPS.** Hardware manuals are modified from commercially available documentation. Software manuals have been developed and tailored to the specific requirements of each functional position. TAMPS 6.X manuals will be available concurrent with each fleet release of the software. The user manuals are available on compact disk as an alternative to the hard copy format. Additionally, distribution of the TAMPS software user manuals are available on-line at <https://mps.chinalake.navy.mil>. MRC cards have been developed and distributed to the appropriate commands via CD-ROM.

**b. N-PFPS.** Help files are built into the operational software to assist operators. A Pocket Check List (PCL) has also been developed by C4I to assist operators. The PCL is also available on Lifeline at <https://lifeline.spawar.navy.mil/>.

**c. JMPS-M.** Hardware manuals are modified from commercially available documentation. Software manuals have been developed and tailored to the specific requirements of each functional position. JMPS-M manuals will be available concurrent with each fleet release of the software. The user manuals are available on compact disk as an alternative to the hard copy format. Additionally, distribution of the JMPS-M software user manuals are available on-line. MRC cards are currently being developed for the JMPS-M system. MRCs and manuals are available on Lifeline at <https://lifeline.spawar.navy.mil/>.

**4. Test Sets, Tools, and Test Equipment.** In-depth analysis of the NavMPS maintenance philosophy has resulted in the identification of test equipment requirements. The test equipment requirements identified are items carried on the individual material readiness list of the recipient activities. Therefore, the installation of NavMPS does not drive additional special tools or test equipment requirements.

**5. Repair Parts.** The supply support initiated for NavMPS will provide a centralized repository of NavMPS repair parts. SSC SD, C4I Programs Office, Philadelphia will provide all repair parts provisioning. On Board Repair Parts pack-up kits are provided to CV/CVN and USMC forward deployed activities to ensure limited computer "down time". Shore based activities will coordinate repair parts requirements with SSC SD, C4I Programs Office, Philadelphia.

**6. Human Systems Integration (HSI).** No separate or specific HSI Plan was developed for NavMPS. HSI elements of Human Factors Engineering; Manpower, Personnel, and Training (MPT); Health Hazards; Safety Factors; Medical Factors; Personnel Survivability Factors; and

Habitability have been considered in the acquisition process and are discussed below or elsewhere within this document.

**a. Human Factors Engineering.** Human Factors are primarily employed by specifying that the system shall meet the requirements of DoD Design Criteria Human Engineering, MIL-STD-1472. This specification is included in the System Description Document (SDD), which defines system requirements. The SDD is used by all developers and designers in development of the system as well as when evaluating CaNDI components within the system. This standard establishes general human engineering criteria for design and development of equipment and facilities. Its purpose is to present human engineering design criteria, principles and practices to be applied in the design of systems, equipment and facilities. The intent is to achieve required performance by operators, control and maintenance personnel; minimize skill and personnel requirements and training time; achieve required reliability of personnel-equipment combinations; and foster design standardization within and among systems. The SDD applies within the original design, and also throughout the life of the system. Any changes to the system with respect to a Request For Change (RFC) or Engineering Change Proposal (ECP) must meet this requirement.

As new releases are introduced to the operational environment, design for ease of use for human-computer systems accomplished with these concepts in mind; 1) human-computer interfaces are designed in accordance with user cognitive, perceptual, and memory capabilities, 2) displays are standardized and are easily read and interpreted, 3) user documentation is clear, easily accessed, and readable, 4) on-line help and a manned (24/7) helpdesk is available and responsive, and 5) the user understands how to navigate through a program and retrieve needed information.

Human engineering factors and issues were addressed by the NavMPS System Integration Contractor and Associate Hardware Contractors during the design and development of the system and during selection of equipment components. The system is comprised of state-of-the-art commercial equipment and software which have been individually designed with due regard for human factors and in compliance with commercial standards.

**b. Manpower.** Manpower requirements, organizational structures, manning concepts, manpower policies and other related manning issues were determined through the application of extensive comparative analysis of similar systems and TRPPM analysis. These data are detailed in Part I, Section I.H.3, and Part II, Section II.A. Future NavMPS upgrades shall consider human centered design during all phases of development and production. The system shall be simple to operate, intuitive, and easy to learn. As an objective, NavMPS systems should not introduce any additional qualitative or quantitative manpower requirements on operational forces than previous releases subject to Chief of Naval Operations (CNO) approval. Tradeoffs that reduce MPT requirements will be favored during follow-on design and development.

**c. Personnel.** Personnel requirements and factors such as classification, pipeline flow, qualification and prerequisite experience were all considered in the original manpower studies used to activate the NavMPS System in earlier years. Each ship and type squadron has a

unique mix of military billets defined by the specific command mission. Personnel factors are discussed in Part I, Section I.H.4 and Part II, Section II.A.

**d. Training.** All personnel assigned to operate and maintain the NavMPS equipment will require specialized training to effectively use and maintain the system. This specialized training shall consist of on-site factory training, follow-on training conducted at Navy and Marine Corps training facilities, post installation/contractor training, and customized training provided by Mobile Training Teams. Training of NavMPS is conducted in a training continuum and is explained in detail in the Training Concepts section of this NTSP. Training concepts, methods, and process requirements are defined in Part I, Section I.H.4, in Part III, Section III.A; and in Part IV.

**e. Health Hazards.** No hazardous materials are involved in the operation and maintenance of NavMPS equipment or facilities. Electrical shock hazards exist when working on multiple computer components and support systems; however, operator and maintenance manuals all include applicable warnings and cautions and were addressed in the related human engineering studies. The systems are in compliance with commercial and military standards.

**f. Safety Factors.** Safety factors and issues were addressed by the NavMPS System Integration Contractor and Associate Hardware Contractors during the design and development of the system and during selection of equipment components. The system is comprised of state-of-the-art commercial equipment and software which have been individually designed with due regard for safety factors and in compliance with commercial standards.

**g. Medical Factors.** No specific medical factors are involved in the operation and maintenance of NavMPS equipment or facilities.

**h. Personnel Survivability Factors.** No specific personnel survivability factors are involved in the operation and maintenance of NavMPS equipment or facilities.

**i. Habitability.** The NavMPS has no habitability impact.

**j. ECP Process**

**(1) General.** PMA281 has an established process that involves a System Engineering Team (SET), a Change Review Board (CRB), a Hardware Engineering Review Board (HERB) and a Software Engineering Review Board (SERB). These bodies perform engineering review and decision functions to all proposed changes to system hardware/software, whether proposed by fleet users, system developers, or PMA281 personnel. Changes are not acted on until approved by the CRB.

Proposals are submitted to the appropriate review board by the originator. PMA281 conducts the review process, and if warranted, approves the change. If approved, the program sponsor pays for the ECPs.

**(2) Training.** Changes required to training may result from hardware change, software change, or combination of both. Delta training is provided for hardware changes and any time a significant change is made to system software. Delta training materials may be generated from changes to an existing User Manual and/or System Technical Manual. These changes to the curriculum materials (lesson plans, trainee guides, electronic media, etc.) will be used by the trainers. Software development contractors provide beta software to the government for use in developing training materials for NavMPS training. Ultimately, all changes to NavMPS Framework training materials derived from hardware or software changes are paid for by the program sponsor. Changes to aircraft platform and weapons systems training are paid for by the specific program sponsor.

**K. SCHEDULES.** The NavMPS systems will be delivered to CV/CVNs, USN/USMC activities, and Naval Reserve squadrons.

**1. Installation and Delivery Schedules.** Asset managers at Naval Air Force Atlantic Fleet (NAVAIRLANT), Naval Air Force Pacific Fleet (NAVAIRPAC), Commandant of the Marine Corps (CMC) (APW), etc. will control the distribution of hardware assets for fleet and schoolhouse units. PMA-281 is responsible for overall distribution including test, NMITC and NSAWC assets. Refer to Part 2 for breakdown of schedule (same as activation schedule). Refer to PMA 281 JMPS-M build Plan for command specific breakdown of JMPS-M equipment.

**Note:**

- No additional hardware will be procured for TAMPS (Last year was FY99).
- CVIC hardware is being procured to support JMPS-M C1.
- Hardware is refreshed on a three-year basis (five years for servers).  
The following is the proposed hardware procurement plan: (Delivery of hardware may not be completed in the fiscal year that the hardware is procured.)
- The NavMPS hardware requirements are displayed for informational purposes only. Actual procurements may vary depending on budget constraints. SSC SD, C4I Programs Office, Philadelphia coordinates the initial delivery of assets following approval from the asset managers (NAVAIRLANT, NAVAIRPAC, CMC (APW), etc.). Refer to the asset managers for any questions regarding distribution of NavMPS hardware

**2. Ready For Operational Use Schedule.** Upon successful installation and post installation/delta training, the systems are Ready for Operational use. Refer to the installation schedule for appropriate dates.

**3. Time Required to Install at Operational Sites.** The NavMPS hardware will require approximately one week for equipment installation, software loading, and system testing. Training, at the recipient's site by SSC SD, C4I Programs Office-Philadelphia, will not take place until the hardware and software have been installed and tested and prerequisite training requirements have been met.

**4. Foreign Military Sales and Other Source Delivery Schedule.**

- (1) **TAMPS.** All FMS equipment has been delivered.
- (2) **N-PFPS.** N-PFPS is purchased through the Air Force.
- (3) **JMPS-M.** No FMS equipment has been purchased.

**5. Training Device and Technical Training Equipment Delivery Schedule.** TTE will be utilized at fleet training sites in order to fulfill follow-on training requirements. NMITC TTE requirements are based upon one NavMPS workstation per student. Refer to Part 2 for schedule (it is included and the same as the Activation Schedule).

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

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

<b>DOCUMENT TITLE</b>	<b>DOCUMENT NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
AH-1W Aircraft	A-50-8520D/A	PMA276	Approved February 96
C-2a (Reserve)	A-50-8308C/A	PMA231	Approved September 03
CH-53D&E Helicopters	A-50-7604G/A	PMA261	Approved March 01
E-2C Aircraft	A-50-8716E/A	PMA231	Approved August 03
E-6A TACAMO Aircraft	A-50-8516E/A	PMA271	Approved September 03
EA-6B ICAP II Aircraft, Block 89	A-50-7904D/A	PMA234	Approved March 01
EP-3E ARIES II Aircraft	A-50-8605D/A	PMA290	Approved March 01
ES-3A Aircraft	A-50-8818B	PMA244	Approved March 93
F-14A/B/D Aircraft	A-50-8511C/A	PMA241	Approved February 02
F-18 Aircraft Weapons System	A-50-7703H/A	PMA265	Approved December 01
H-46 Communication Navigation Control System	A-50-9409A/A	PMA226	Approved May 01
UH-1N Aircraft	A-50-9404A/D	PMA225	Draft October 94
KC-130T Aircraft	A-50-8423	PMA200	Approved June 85
MH-53E Helicopter	A-50-8417D/A	PMA261	Approved February 01
Navy Undergraduate Jet Flight Training System, T45TS	A-50-8703B	PMA273	Approved February 95
P-3C Update II.5/III and ASUW Improvement Program	A-50-8112C/A	PMA290	Approved April 03
S-3B Aircraft	A-50-8310D/A	PMA290	Approved February 01

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<b>DOCUMENT TITLE</b>	<b>DOCUMENT NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
SH-60B LAMPS MK-III Part B, Aircraft Subsystems	A-50-7702D	PMA299	Proposed
SH-60F Carrier Inner Zone Helicopter	A-50-8508D/A	PMA299	Approved August 00
SH-60R Multi Purpose Helicopter	A-50-9403	PMA299	Proposed
V22A Aircraft	A-50-8412D/A	PMA275	Approved August 99
Afloat Planning System (APS)	A-00-03XX	PMA281	Draft
AGM-84E SLAM	A-50-8813B/A	PMA258	Approved May 96
AGM-84M SLAM Expanded Response	A-50-9502A/A	PMA258	Approved November 00
AGM-88A HARM Missile	A-50-8101B/A	PMA242	Approved September 99
Joint Direct Attach Munitions (JDAM)	A-50-9104A/P	PMA201	Proposed January 03
Joint Stand Off Weapon (JSOW)	A-50-8906A/A	PMA201	Approved March 00
JMCIS	E-70-9401A	PMW172	Approved January 96
NAVSTAR Global Positioning System (GPS)	E-70-8215G	PMW156	Draft
AV-8B	A-50-8210D/A	PMA-257	Approved September 01

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

The following elements are not affected by NavMPS and, therefore, are not included in Part II of this NTSP:

### II.A. Billet Requirements

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

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

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

### **Notes:**

#### **- BILLETS ARE DISPLAYED FOR INFORMATION AND COMPUTATION OF TRAINING REQUIREMENTS ONLY**

- The introduction of the JMPS does not change the existing manpower at the recipient activities. The below functions are displayed only to identify the training requirements for NavMPS.
- Mission planners are primarily squadron level aircrew (i.e., pilots, Naval Flight Officers (NFO), navigators). Billet and personnel requirements are covered in the appropriate platform NTSP

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

SOURCE OF SCHEDULE: PMA281

DATE: Dec 2003

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

ACTIVITY, UIC	PFYs	CFY04	FY05	FY06	FY07	FY08
<b>OPERATIONAL ACTIVITIES - USN</b>						
JMPS, CV/CVN	00000	0	3	5	5	0
JMPS, CVW	00000	0	3	5	1	0
JMPS, HC/HCS	00000	0	0	10	2	0
JMPS, HS/HSL	00000	0	0	26	0	0
JMPS, VAQ	00000	0	0	16	0	0
JMPS, VAW	00000	0	0	13	0	0
JMPS, VF	00000	0	0	8	0	0
JMPS, VFA	00000	0	6	31	0	0
JMPS, VP/VPU	00000	0	0	22	0	0
JMPS, VQ	00000	0	0	4	2	0
JMPS, VR/VRC	00000	0	0	8	8	0
JMPS, VS	00000	0	0	2	9	0
JMPS, VT/VTC	00000	0	0	4	2	0
JMPS, VX	00000	0	1	4	0	0
N-PFPS, Base OPS	00000	30	0	0	0	0
N-PFPS, CPRW-11	00000	5	0	0	0	0
N-PFPS, CTW	00000	26	0	0	0	0
N-PFPS, CVW'S	00000	9	0	0	0	0
N-PFPS, HC	00000	56	0	0	0	0
N-PFPS, HCS RESERVES	00000	11	0	0	0	0
N-PFPS, HS/HSL	00000	163	0	0	0	0
N-PFPS, HM	00000	5	0	0	0	0
N-PFPS, HX-21	00000	5	0	0	0	0
N-PFPS, VAQ	00000	47	0	0	0	0
N-PFPS, VAW	00000	31	0	0	0	0
N-PFPS, VF	00000	44	0	0	0	0
N-PFPS, VFA	00000	171	0	0	0	0
N-PFPS, VP/VPU	00000	110	0	0	0	0
N-PFPS, VQ	00000	15	0	0	0	0
N-PFPS, VR/VRC	00000	18	0	0	0	0
N-PFPS, VS	00000	54	0	0	0	0
N-PFPS, VT	00000	4	0	0	0	0
N-PFPS, VX	00000	18	0	0	0	0
TAMPS, CMD, NORTH ISLAND	00000	7	0	0	0	0
TAMPS, CMVP-10	00000	1	0	0	0	0
TAMPS, COMPATRECONFORPAC	00000	1	0	0	0	0
TAMPS, CPRW	00000	1	0	0	0	0
TAMPS, CTW	00000	17	0	0	0	0
TAMPS, CV/CVN	00000	55	0	0	0	0
TAMPS, HC	00000	4	0	0	0	0
TAMPS, HS/HSL	00000	22	0	0	0	0

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

ACTIVITY, UIC		PYs	CFY04	FY05	FY06	FY07	FY08
TAMPS, HT	00000	4	0	0	0	0	0
TAMPS, VAW	00000	3	0	0	0	0	0
TAMPS, VF	00000	7	0	0	0	0	0
TAMPS, VFA	00000	35	0	0	0	0	0
TAMPS, VP/VPU	00000	1	0	0	0	0	0
TAMPS, VR	00000	5	0	0	0	0	0
TAMPS, VS	00000	13	0	0	0	0	0
TAMPS, VX	00000	9	0	0	0	0	0
<b>TOTAL:</b>		1022	13	158	29	0	0

**OPERATIONAL ACTIVITIES - USMC**

JMPS, HMM/HMLA/HMM	00000	0	0	41	3	0	0
JMPS, VMA	00000	0	0	7	1	0	0
JMPS, VMAQ	00000	0	0	4	0	0	0
JMPS, VMFA	00000	0	0	20	0	0	0
JMPS, VMGR	00000	0	0	6	0	0	0
N-PFPS, 31ST MEU	00000	1	0	0	0	0	0
N-PFPS, CAMP LEJEUNE	00000	3	0	0	0	0	0
N-PFPS, HMM/HMX/HMH/HMLA	00000	234	0	0	0	0	0
N-PFPS, MAG 11	00000	2	0	0	0	0	0
N-PFPS, VMA/VMAQ	00000	40	0	0	0	0	0
N-PFPS, VMFA/VMFA (AW)	00000	68	0	0	0	0	0
N-PFPS, VMGR	00000	36	0	0	0	0	0
N-PFPS, VMMT	00000	1	0	0	0	0	0
TAMPS, BASE OPERATIONS	00000	34	0	0	0	0	0
TAMPS, HMM/HMLA/HMH	00000	18	0	0	0	0	0
TAMPS, MAG-11, 12, 31	00000	8	0	0	0	0	0
TAMPS, VMFA/VMFA(AW)	00000	58	0	0	0	0	0
TAMPS, VMGR	00000	4	0	0	0	0	0
<b>TOTAL:</b>		507	0	78	4	0	0

**FLEET SUPPORT ACTIVITIES - USN**

JMPS, ADVANCED WEAPONS SCHOOLS	00000	0	2	0	0	0	0
JMPS, CNATRA SPOSORED SITES	00000	0	0	1	2	0	2
JMPS, FLEET REPLACEMENT SQUADRONS	00000	0	0	8	7	1	0
JMPS, NMITC	00000	0	0	1	0	0	0
JMPS, WEAPON SCHOOLS	00000	0	0	5	0	0	0
N-PFPS, AEWWINGLANT	00000	4	0	0	0	0	0
N-PFPS, AEWWINGPAC WTU	00000	3	0	0	0	0	0
N-PFPS, BLUE ANGELS	00000	3	0	0	0	0	0
N-PFPS, EAWS	00000	1	0	0	0	0	0
N-PFPS, HT	00000	2	0	0	0	0	0
N-PFPS, NAWCWD	00000	2	0	0	0	0	0
N-PFPS, NMITC	00000	1	0	0	0	0	0
N-PFPS, NSAWC	00000	4	0	0	0	0	0
N-PFPS, SEACONWPNSLANT	00000	2	0	0	0	0	0
N-PFPS, SWATSLANT/SFWSLANT	00000	3	0	0	0	0	0
N-PFPS, SFWSPAC	00000	7	0	0	0	0	0

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

ACTIVITY, UIC		PFYs	CFY04	FY05	FY06	FY07	FY08
N-PFPS, PMA281	00000	13	0	0	0	0	0
TAMPS, AEWINGLANT	00000	3	0	0	0	0	0
TAMPS, AEWINGPAC	00000	3	0	0	0	0	0
TAMPS, AWSTS	00000	1	0	0	0	0	0
TAMPS, C4I	00000	2	0	0	0	0	0
TAMPS, EAWS	00000	3	0	0	0	0	0
TAMPS, MAWTS 1	00000	7	0	0	0	0	0
TAMPS, NAWCWD	00000	13	0	0	0	0	0
TAMPS, NMITC	00000	10	0	0	0	0	0
TAMPS, NSAWC	00000	10	0	0	0	0	0
TAMPS, SEACONWPNSPAC	00000	2	0	0	0	0	0
TAMPS, SECONWPNSLANT	00000	5	0	0	0	0	0
TAMPS, SFWSPAC	00000	9	0	0	0	0	0
TAMPS, SWATSLANT/SFWSLANT	00000	13	0	0	0	0	0
TAMPS, SSA/DEV, POINT MAGU	00000	1	0	0	0	0	0
TAMPS, WASHINGTON PLANNING CENTER	00000	7	0	0	0	0	0
<b>TOTAL:</b>		141	2	15	9	1	2

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<u>OPERATIONAL ACTIVITIES - USN</u>					
<b>NavMPS, CV/CVN</b>					
ACDU	0	24	PO2	1654	
ACDU	0	12	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>36</b>			
<b>NavMPS, CVW</b>					
ACDU	0	9	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>9</b>			
<b>NavMPS, HC/HCS</b>					
ACDU	0	12	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>12</b>			
<b>NavMPS, HM</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>1</b>			
<b>NavMPS, HS/HSL</b>					
ACDU	0	27	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>27</b>			
<b>NavMPS, VAQ</b>					
ACDU	0	16	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>16</b>			
<b>NavMPS, VAW</b>					
ACDU	0	13	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>13</b>			
<b>NavMPS, VF</b>					
ACDU	0	11	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>11</b>			
<b>NavMPS, VFA</b>					
ACDU	0	32	PO2		
<b>ACTIVITY TOTAL:</b>	<b>0</b>	<b>32</b>			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>NavMPS, VP/VPU</b>					
ACDU	0	22	PO2		
<b>ACTIVITY TOTAL:</b>	0	22			
<b>NavMPS, VQ</b>					
ACDU	0	5	PO2		
<b>ACTIVITY TOTAL:</b>	0	5			
<b>NavMPS, VR/VRC</b>					
ACDU	0	16	PO2		
<b>ACTIVITY TOTAL:</b>	0	16			
<b>NavMPS, VS</b>					
ACDU	0	11	PO2		
<b>ACTIVITY TOTAL:</b>	0	11			
<b>NavMPS, VT/VTC</b>					
ACDU	0	14	PO2		
<b>ACTIVITY TOTAL:</b>	0	14			
<b>NavMPS, VX</b>					
ACDU	0	2	PO2		
<b>ACTIVITY TOTAL:</b>	0	2			
<b>NavMPS, Base OPS</b>					
ACDU	0	29	PO2		
<b>ACTIVITY TOTAL:</b>	0	29			
<b>NavMPS, CTW</b>					
ACDU	0	2	PO2		
<b>ACTIVITY TOTAL:</b>	0	2			
<b>NavMPS, COMPATRECONFORPAC</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	1			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<b>NavMPS, CPRW</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	1			
<u>OPERATIONAL ACTIVITIES - USMC</u>					
<b>NavMPS, HMM/HMLA/HMM</b>					
USMC	0	3	SGT		
<b>ACTIVITY TOTAL:</b>	0	3			
<b>NavMPS, VMA</b>					
USMC	0	7	SGT		
<b>ACTIVITY TOTAL:</b>	0	7			
<b>NavMPS, VMAQ</b>					
USMC	0	3	SGT		
<b>ACTIVITY TOTAL:</b>	0	3			
<b>NavMPS, VMFA</b>					
USMC	0	14	SGT		
<b>ACTIVITY TOTAL:</b>	0	14			
<b>NavMPS, VMGR</b>					
USMC	0	6	SGT		
<b>ACTIVITY TOTAL:</b>	0	6			
<b>NavMPS, MAG</b>					
USMC	0	3	SGT		
<b>ACTIVITY TOTAL:</b>	0	3			
<b>NavMPS, BASE OPERATIONS</b>					
USMC	0	34	SGT		
<b>ACTIVITY TOTAL:</b>	0	34			
<b>NavMPS, MAWTS 1</b>					
USMC	0	1	SGT		
<b>ACTIVITY TOTAL:</b>	0	1			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
<u>FLEET SUPPORT ACTIVITIES - USN</u>					
<b>NavMPS, ADVANCED WEAPONS SCHOOLS</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	1			
<b>NavMPS, AEWINGLANT</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	1			
<b>NavMPS, AEWINGPAC WTU</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	1			
<b>NavMPS, AWSTS</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	1			
<b>NavMPS, CNATRA SPOSED SITES</b>					
ACDU	0	5	PO2		
<b>ACTIVITY TOTAL:</b>	0	5			
<b>NavMPS, FLEET REPLACEMENT SQUADRONS</b>					
ACDU	0	16	PO2		
<b>ACTIVITY TOTAL:</b>	0	16			
<b>NavMPS, NMITC</b>					
ACDU	0	1	PO2	1654	
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	2			
<b>NavMPS, WEAPON SCHOOLS</b>					
ACDU	0	5	PO2		
<b>ACTIVITY TOTAL:</b>	0	5			
<b>NavMPS, EAWS</b>					
ACDU	0	1	PO2		
<b>ACTIVITY TOTAL:</b>	0	1			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
NavMPS, HSWINGLANT/HSWINGPAC/HSLWINGLANT ACDU	0	3	PO2		
ACTIVITY TOTAL:	0	3			
NavMPS, HT ACDU	0	2	PO2		
ACTIVITY TOTAL:	0	2			
NavMPS, NAWCWD ACDU	0	1	PO2		
ACTIVITY TOTAL:	0	1			
NavMPS, NSAWC ACDU	0	1	PO2		
ACTIVITY TOTAL:	0	1			
NavMPS, SEACONWPNSPAC ACDU	0	1	PO2		
ACTIVITY TOTAL:	0	1			
NavMPS, SEACONWPNSLANT ACDU	0	1	PO2		
ACTIVITY TOTAL:	0	1			
NavMPS, SFWSPAC ACDU	0	1	PO2		
ACTIVITY TOTAL:	0	1			
NavMPS, SWATSLANT/SFWSLANT ACDU	0	1	PO2		
ACTIVITY TOTAL:	0	1			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USN OPERATIONAL ACTIVITIES - ACDU													
PO2		236		0		0		0		0		0	
USN OPERATIONAL ACTIVITIES - ACDU													
PO2	1654	25		0		0		0		0		0	
USMC OPERATIONAL ACTIVITIES - USMC													
SGT		71		0		0		0		0		0	
USN FLEET SUPPORT ACTIVITIES - ACDU													
PO2		43		0		0		0		0		0	
<b>SUMMARY TOTALS:</b>													
USN OPERATIONAL ACTIVITIES - ACDU													
		261		0		0		0		0		0	
USMC OPERATIONAL ACTIVITIES - USMC													
		71		0		0		0		0		0	
USN FLEET SUPPORT ACTIVITIES - ACDU													
		43		0		0		0		0		0	
<b>GRAND TOTALS:</b>													
USN - ACDU													
		304		0		0		0		0		0	
USMC - USMC													
		71		0		0		0		0		0	

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: AMWSTS, Norfolk, VA

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

TRAINING ACTIVITY, LOCATION, UIC: COMAEWWINGPAC, Pt Mugu, CA

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

TRAINING ACTIVITY, LOCATION, UIC: CTR for Maritime Dominance, North Island, CA, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

TRAINING ACTIVITY, LOCATION, UIC: EAWS, Whidbey Island, WA, 47445

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** HC-2, Norfolk, VA, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** HC-3, North Island, CA, 69822

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** HMT-164, Camp Pendleton, CA, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** HMT-301, Kanehoe, HI, 52843

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** HMT-302, New River, NC, 28545

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** HMT-303, Camp Pendleton, CA, 55176

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** CHSLWL WTU, Mayport, FL, 53912

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** HSL-41, North Island, CA, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** HSWINGLANT WTU, Mayport, FL, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** HSWINGPAC WTU, North Island, CA, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** MAWTS-1, Yuma, AZ, 62974

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** NMITC, Dam Neck, VA, 0387A

**INSTRUCTOR BILLETS**

USN PO1 3923		0	1	0	1	0	1	0	1	0	1	0	1
PO1 1654		0	1	0	1	0	1	0	1	0	1	0	1
<b>TOTAL:</b>		0	2	0	2	0	2	0	2	0	2	0	2

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** NSAWC, Fallon, NV, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** SEACONWPNSLANT, Jacksonville, FL, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** SFWSLANT/SWATSLANT, Oceana, VA, 47084

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** SFWSPAC, Lemoore, CA, 35185

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** VAQ-129, Whidbey Island, WA, 30694

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VAW-120, Norfolk, VA, 09527

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VF-101, Oceana, VA, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VFA-106, Oceana, VA, 65550

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

**TRAINING ACTIVITY, LOCATION, UIC:** VFA-122, Lemoore, CA, 00000

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VFA-125, Lemoore, CA, 65559

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VMAT-203, Cherry Point, NC, 45483

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VMFAT-101, Miramar, CA, 45526

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY04 OFF ENL	FY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL	FY08 OFF ENL
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**TRAINING ACTIVITY, LOCATION, UIC:** VMGRT-253, Cherry Point, NC, 28533

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VMMT-204, New River, NC, 28545

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** COMPATWINGLANT WTU, Jacksonville, FL, 09047

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

**TRAINING ACTIVITY, LOCATION, UIC:** VS-41, North Island, CA, 55138

**INSTRUCTOR BILLETS**

USN 163X/1311/1321		1	0	1	0	1	0	1	0	1	0	1	0
<b>TOTAL:</b>		1	0	1	0	1	0	1	0	1	0	1	0

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY04		FY05		FY06		FY07		FY08	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Virginia Beach, VA, 0387A	NAVY	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0
	USMC	0	.8	0	.8	0	.8	0	.8	0	.8	0	.8
<b>SUMMARY TOTAL</b>													
	NAVY	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0
	USMC	0	.8	0	.8	0	.8	0	.8	0	.8	0	.8
<b>GRAND TOTAL</b>													
		0	5.8	0	5.8	0	5.8	0	5.8	0	5.8	0	5.8

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY04 +/- CUM	FY05 +/- CUM	FY06 +/- CUM	FY07 +/- CUM	FY08 +/- CUM
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a. OFFICER - USN Refer to applicable platform NTSP for billets

TOTAL USN OFFICER BILLETS: Refer to applicable platform NTSP for billets

b. ENLISTED - USN

Operational Billets ACDU and TAR PO2			236	0	236	0	236	0	236	0	236	0	236
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Operational Billets ACDU and TAR PO2	1654		25	0	25	0	25	0	25	0	25	0	25
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Fleet Support Billets ACDU and TAR PO2			43	0	43	0	43	0	43	0	43	0	43
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TOTAL USN ENLISTED BILLETS:

Operational			261	0	261	0	261	0	261	0	261	0	261
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Fleet Support			43	0	43	0	43	0	43	0	43	0	43
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c. OFFICER - USMC Refer to applicable platform NTSP for billets

d. ENLISTED - USMC

Operational Billets USMC and AR SGT			71	0	71	0	71	0	71	0	71	0	71
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TOTAL USMC ENLISTED BILLETS:

Operational			71	0	71	0	71	0	71	0	71	0	71
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**II.B. ANNUAL TRAINING INPUT REQUIREMENTS**

**CIN, COURSE TITLE:** J-150-2019, Intelligence Center Maintenance

**COURSE LENGTH:** 6.0 Weeks

**NAVY TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10% USMC: 0%

**BACKOUT FACTOR:** 0.10

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Dam Neck, VA	USN	ACDU		20		20		20		20		20
		TOTAL:		20		20		20		20		20

**CIN, COURSE TITLE:** J-150-2965, TAMPS System Administrator

**COURSE LENGTH:** 2.0 Weeks

**NAVY TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10% USMC: 0%

**BACKOUT FACTOR:** 0.10

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Dam Neck, VA	USN	ACDU		93		93		93		93		93
	USMC	AD		24		24		24		24		24
		TOTAL:		117		116		117		117		117

### **PART III. TRAINING REQUIREMENTS**

The following elements are not affected by the NavMPS and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training

III.A.2. Follow on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

Note: Refer to applicable platform NTSP for operator training requirements.

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** J-150-2019, Intelligence Center Maintenance  
**TRAINING ACTIVITY:** NMITC  
**LOCATION, UIC:** Dam Neck, VA, 0387A

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

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
20		20		20		20		20		ATIR
18		18		18		18		18		Output
2.1		2.1		2.1		2.1		2.1		AOB
2.1		2.1		2.1		2.1		2.1		Chargeable

**CIN, COURSE TITLE:** J-150-2965, TAMP System Administrator  
**TRAINING ACTIVITY:** NMITC  
**LOCATION, UIC:** Dam Neck, VA, 0387A

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

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
93		93		93		93		93		ATIR
83		83		83		83		83		Output
2.9		2.9		2.9		2.9		2.9		AOB
2.9		2.9		2.9		2.9		2.9		Chargeable

**SOURCE:** USMC **STUDENT CATEGORY:** AD - TAR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
24		24		24		24		24		ATIR
24		24		24		24		24		Output
.8		.8		.8		.8		.8		AOB
.8		.8		.8		.8		.8		Chargeable

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

The following elements are not affected by NavMPS, and therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

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

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

IV.C.3. Facility Project Summary by Program

Notes: Upon installation, JMPS Training Material (technical manuals, curricula materials and training aides) will be supplied to the schools.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

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

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** HC-2  
**LOCATION, UIC:** Norfolk, VA, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	1	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	1	Oct 06	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** HMT-302  
**LOCATION, UIC:** New River, NC, 28545

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	3	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 06	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** CHSLWL WTU  
**LOCATION, UIC:** Mayport, FL, 53912

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	6	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	6	Oct 05	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** HSWINGLANT WTU  
**LOCATION, UIC:** Mayport, FL, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	4	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 05	GFE	Pending

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

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** SEACONWPNSLANT  
**LOCATION, UIC:** Jacksonville, FL, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	4	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 05	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** SFWSLANT/SWATSLANT  
**LOCATION, UIC:** Oceana, VA, 47084

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	4	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	7	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	4	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VAW-120  
**LOCATION, UIC:** Norfolk, VA, 09527

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	1	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	2	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	2	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VF-101  
**LOCATION, UIC:** Oceana, VA, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	1	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	10	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	10	Oct 04	GFE	Pending

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

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VFA-106  
**LOCATION, UIC:** Oceana, VA, 65550

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	2	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	14	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	10	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VMAT-203  
**LOCATION, UIC:** Cherry Point, NC, 45483

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	5	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	5	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VMGRT-253  
**LOCATION, UIC:** Cherry Point, NC, 28533

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	4	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	4	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VMMT-204  
**LOCATION, UIC:** New River, NC, 28545

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	3	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 04	GFE	Pending

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

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** COMPATWINGLANT WTU  
**LOCATION, UIC:** Jacksonville, FL, 09047

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	6	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	4	Oct 05	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** COMAEWWINGPAC  
**LOCATION, UIC:** Pt Mugu, CA, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	3	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** EAWS  
**LOCATION, UIC:** Whidbey Island, WA, 47445

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	3	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** HC-3  
**LOCATION, UIC:** North Island, CA, 69822

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	6	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	1	Oct 05	GFE	Pending

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

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** HMT-301  
**LOCATION, UIC:** Kanehoe, HI, 52843

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	3	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 06	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** HMT-303  
**LOCATION, UIC:** Camp Pendleton, CA, 55176

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	3	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 06	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** HSWINGPAC WTU  
**LOCATION, UIC:** North Island, CA, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	4	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	3	Oct 05	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** MAWTS-1  
**LOCATION, UIC:** Yuma, AZ, 62974

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	1	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	9	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	8	Jun 04	GFE	Pending

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

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** NSAWC  
**LOCATION, UIC:** Fallon, NV, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	4	Oct 98	GFE	Onboard
0002	TAMPS (CVIC) Hardware/Software	1	Oct 04	GFE	Onboard
0003	JMPS Hardware/Software	1	Jun 04	GFE	Pending
0005	N-PFPS Hardware/Software	4	Oct 98	GFE	Onboard
0006	JMPS (CVIC) Hardware/Software	5	Jun 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** SFWSPAC  
**LOCATION, UIC:** Lemoore, CA, 35185

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	3	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	7	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	6	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VAQ-129  
**LOCATION, UIC:** Whidbey Island, WA, 30694

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	3	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	2	Oct 05	GFE	Pending

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

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VFA-122  
**LOCATION, UIC:** Lemoore, CA, 00000

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	14	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	10	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VFA-125  
**LOCATION, UIC:** Lemoore, CA, 65559

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	2	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	10	Oct 98	GFE	Onboard
0006	JMPS Hardware/Software	10	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VMFAT-101  
**LOCATION, UIC:** Miramar, CA, 45526

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	2	Oct 98	GFE	Onboard
0005	N-PFPS Hardware/Software	12	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	10	Oct 04	GFE	Pending

**CIN, COURSE TITLE:** Mission Planning  
**TRAINING ACTIVITY:** VS-41  
**LOCATION, UIC:** North Island, CA, 55138

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
<b>TTE</b>					
0005	N-PFPS Hardware/Software	6	Oct 99	GFE	Onboard
0006	JMPS Hardware/Software	4	Oct 05	GFE	Pending

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

**CIN, COURSE TITLE:** J-150-2019, Intelligence Center Maintenance  
**TRAINING ACTIVITY:** NMITC  
**LOCATION, UIC:** Dam Neck, VA, 0387A

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	3	Oct 98	GFE	Onboard
0002	TAMPS (CVIC) Hardware/Software	1	Jan 03	GFE	Onboard
0003	JMPS (CVIV) Hardware/Software	1	Jun 04	GFE	Pending

**CIN, COURSE TITLE:** J-150-2965, Tactical Aircraft Mission Planning System Administrator  
**TRAINING ACTIVITY:** NMITC  
**LOCATION, UIC:** Dam Neck, VA, 0387A

<b>ITEM NO.</b>	<b>EQUIPMENT / TYPE OR RANGE OF REPAIR</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>GFE CFE</b>	<b>STATUS</b>
<b>TTE</b>					
0001	TAMPS (Ultra 2) Hardware/Software	3	Oct 98	GFE	Onboard
0002	TAMPS (CVIC) Hardware/Software	1	Jan 03	GFE	Onboard
0003	JMPS (CVIV) Hardware/Software	1	Jun 04	GFE	Pending
0006	JMPS Hardware/Software	6	Jun 04	GFE	Pending

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

**CIN, COURSE TITLE:** Mission Planning

**TRAINING ACTIVITY, LOCATION, UIC:**

SFWSLANT/SWATSLANT, Oceana, VA, 47084	MAWTS-1, Yuma, AZ
SFWSPAC, Lemoore, CA, 35185	EAWS, Whidbey Island, WA
NSAWC, Fallon, NV	SEACONTWPNSLANT, Jacksonville, FL
CTR for Maritime Dominance, North Island, CA	

Each command receives the following

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outlines	1	Oct 01	Onboard
Index of Training Courses/Equipment/Audio Visual Aids	1	Oct 01	Onboard
Lesson Plan	3	Oct 01	Onboard
Soft copies of Training Materials	2	Oct 01	Onboard
Trainee Guide	20	Oct 01	Onboard

**CIN, COURSE TITLE:** Mission Planning

**TRAINING ACTIVITY, LOCATION, UIC:**

VFA-106, Oceana, VA, 65550;	COMAEWWINGPAC, PT. Mugu, CA
VFA-122, Lemoore, CA, ;	CHSLWL WTU, Mayport, FL
VFA-125, Lemoore, CA, 65559;	HSL-41, North Island, CA
VF-101, Oceana, VA, 65552;	AMWSTS, Norfolk, VA, ;
VAW-120, Norfolk, VA, 09527;	VAQ-129, Whidbey Island, WA, ;
HC-2, Norfolk, VA, ;	VS-41, North Island, CA
HC-3, North Island, CA, ;	HSWINGPAC WTU, North Island, CA
COMPATWINGLANT, Jacksonville, FL,	HSWINGLANT WTU, Jacksonville, FL
TRAWING 1, Meridian, MS	TRAWING 2, Kingsville, TX
TRAWING 4, Corpus Christi, TX	TRAWING 5, Milton, FL
TRAWING 6, Pensacola, FL	

Each command receives the following

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outlines	1	Oct 01	Onboard
Index of Training Courses/Equipment/Audio Visual Aids	1	Oct 01	Onboard
Lesson Plan	1	Oct 01	Onboard
Soft copies of Training Materials	2	Oct 01	Onboard
Trainee Guide	1	Oct 01	Onboard

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

**CIN, COURSE TITLE:** J-150-2019, Intelligence Center Maintenance

**TRAINING ACTIVITY:** NMITC

**LOCATION, UIC:** Dam Neck, VA, 0387A

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outlines	1	Oct 01	Onboard
Index of Training Courses/Equipment/Audio Visual Aids	1	Oct 01	Onboard
Instructor Guides	5	Oct 01	Onboard
Lesson Plan	1	Oct 01	Onboard
Soft copies of Training Materials	2	Oct 01	Onboard
Student Achievement Test	10	Oct 01	Onboard
Trainee Guide	10	Oct 01	Onboard

**CIN, COURSE TITLE:** J-150-2965, Tactical Aircraft Mission Planning System Administrator

**TRAINING ACTIVITY:** NMITC

**LOCATION, UIC:** Dam Neck, VA, 0387A

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outlines	1	Oct 01	Onboard
Index of Training Courses/Equipment/Audio Visual Aids	1	Oct 01	Onboard
Instructor Guides	5	Oct 01	Onboard
Lesson Plan	1	Oct 01	Onboard
Soft copies of Training Materials	2	Oct 01	Onboard
Student Achievement Test	25	Oct 01	Onboard
Trainee Guide	25	Oct 01	Onboard

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

**CIN, COURSE TITLE:** Mission Planning

**TRAINING ACTIVITY, LOCATION, UIC:**

SFWSLANT/SWATSLANT, Oceana, VA, 47084	MAWTS-1, Yuma, AZ
SFWSPAC, Lemoore, CA, 35185	EAWS, Whidbey Island, WA
NSAWC, Fallon, NV	SEACONTWPNSLANT, Jacksonville, FL
CTR for Maritime Dominance, North Island, CA	

Each command receives the following

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
SPAWAR Mission Planner Manual	Soft copy	8	Oct 01	Onboard
SPAWAR-OM-102 TAMPS AN/UYQ-81 System Administrator User's Manual	Soft copy	2	Oct 01	Onboard

**CIN, COURSE TITLE:** Mission Planning

**TRAINING ACTIVITY, LOCATION, UIC:**

VFA-106, Oceana, VA, 65550;	COMAEWWINGPAC, PT. Mugu, CA
VFA-122, Lemoore, CA, ;	CHSLWL WTU, Mayport, FL
VFA-125, Lemoore, CA, 65559;	HSL-41, North Island, CA
VF-101, Oceana, VA, 65552;	AMWSTS, Norfolk, VA, ;
VAW-120, Norfolk, VA, 09527;	VAQ-129, Whidbey Island, WA, ;
HC-2, Norfolk, VA, ;	VS-41, North Island, CA
HC-3, North Island, CA, ;	HSWINGPAC WTU, North Island, CA
COMPATWINGLANT, Jacksonville, FL,	HSWINGLANT WTU, Jacksonville, FL
TRAWING 1, Meridian, MS	TRAWING 2, Kingsville, TX
TRAWING 4, Corpus Christi, TX	TRAWING 5, Milton, FL
TRAWING 6, Pensacola, FL	

Each command receives the following

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
SPAWAR Mission Planner Manual	Soft copy	1	Oct 01	Onboard
SPAWAR-OM-102 TAMPS AN/UYQ-81 System Administrator User's Manual	Soft copy	1	Oct 01	Onboard

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

**CIN, COURSE TITLE:** J-150-2019, Intelligence Center Maintenance

**TRAINING ACTIVITY:** NMITC  
**LOCATION, UIC :** Dam Neck, VA, 0387A

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
SPAWAR-STM-101 TAMPS AN/UYQ-81(V) Secure Guard and Tactical Strike Coordination Manager Desktop Portable System, AN/TYQ-84(V)2, System Technical Manual	Soft copy	10	Oct 01	Onboard
SPAWAR-STM-102 TAMPS AN/UYQ-81(V) CVIC System Technical Manual	Soft copy	10	Oct 01	Onboard

**CIN, COURSE TITLE:** J-150-2965, Tactical Aircraft Mission Planning System Administrator  
**TRAINING ACTIVITY:** NMITC  
**LOCATION, UIC :** Dam Neck, VA, 0387A

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
SPAWAR Mission Planner Manual	Soft copy	4	Oct 01	Onboard
SPAWAR-OM-102 TAMPS AN/UYQ-81 System Administrator User's Manual	Soft copy	10	Oct 01	Onboard

**PART V - MPT MILESTONES**

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
PEO(CU)	Begin Analysis of Manpower, Personnel, and Training Requirements.		Complete
PMA233	Fleet Introduction of TAMPS Hosted on Microvax		Complete
FRS/NMITC	Commence TAMPS/Microvax Follow-on Training		Complete
PMA233	Fleet introduction of TAMPS Hosted on DTC-II.		Complete
FRS/WTU	Commence DTC-II/Software Release 5.0 Aircrew Follow-on Training		Complete
N6	Approved and Promulgated NTP		Complete
NMITC	Commence DTC-II Software Release 5.0 System Administrator Follow-on Training		
N6	Approve and Promulgate Updated NTP (Revision A)		Complete
PMA233	Begin Fleet Introduction of TAMPS Hosted on TAC-III		Complete
PMA233	Begin Introduction of TAMPS Hosted on ACE/VME		Complete
NMITC	Commence TAMPS/Software Release 6.0.3 System Administrator Follow-on Training		Complete
FRS/WTU	Commence TAMPS/Software Release 6.0.3 Aircrew Follow-on Training		Complete
N6	Approve and Promulgate Updated NTP (Revision B)		Complete
NMITC	Commence TAMPS/Software Release 6.1 System Administrator Follow-on Training		Complete
FRS/WTU	Commence TAMPS/Software Release 6.1 Aircrew Follow-on Training		Complete
PMA205	Promulgate Draft Update NTSP (Revision C) to ALCON for Review and Comment		Complete
PMA205	Submit Proposed NTSP (Revision C) for OPNAV Approval		Complete
N889	Approve and Promulgate Update NTSP (Revision C)		Complete
PMA205	Promulgate Draft Update NTSP (Revision D) to ALCON for Review and Comment		Complete
PMA205	Submit Proposed NTSP (Revision D) for OPNAV Approval		Complete

**PART V - MPT MILESTONES**

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
N789	Approve and Promulgate Update NTSP (Revision D)		Complete
PMA205	Promulgate Draft Update NTSP (Revision E) to ALCON for Review and Comment	Mar 04	Pending
PMA205	Submit Proposed NTSP (Revision E) for OPNAV Approval	Apr 04	Pending
N789	Approve and Promulgate Update NTSP (Revision E)	Jun 04	Pending
PMA281	Begin Fleet Introduction Of JMPS 1.1	Nov 04	Pending

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

**NOTE:** All actions/decisions of N88-NTSP-A-50-9301E/D are closed

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS

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