

NAVY TRAINING SYSTEM PLAN

FOR THE

**JOINT SERVICE IMAGERY PROCESSING
SYSTEM - NAVY (JSIPS-N)
AN/SYQ-23**

N78-NTSP-A-50-9204C/D

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EXECUTIVE SUMMARY

This Draft Navy Training System Plan for the JSIPS-N was developed using the format shown in the Navy Training Requirements Documentation Manual (NTRDM), P-751-1-9-97. This document provides manpower, personnel, and training requirements needed to support the Joint Service Imagery Processing System-Navy (JSIPS-N) employment concept.

The JSIPS-N is a shipboard digital imagery system with the capability to receive, process, exploit, store, and disseminate imagery products and imagery derived intelligence reports based upon multi-source imagery from national and tactical sensors. JSIPS-N is an Acquisition Category III program under the sponsorship of the Chief of Naval Operations (CNO) N61. JSIPS-N was fielded in 1995 and is currently in full Rate Production (FRP) with an inventory of 37 systems. It is installed in intelligence spaces of Aircraft Carriers (CV), Aircraft Carriers Nuclear Power (CVN), Amphibious Assault Ships, General Purpose (LHA), Amphibious Assault Ships, Multi-Purpose (LHD), Miscellaneous Command Ships (AGF), and Amphibious Command Ship (LCC) class ships. Segments of JSIPS-N are also installed ashore at Commander Fifth Fleet (COMFIFTHFLT) Headquarters in Manama, Bahrain and at selected support and training sites.

The JSIPS-N architecture includes the Precision Targeting Workstation (PTW), Tactical Input Segment (TIS), and the JSIPS-N Concentrator Architecture (JCA). The JCA has two different component make-ups, one for the Concentrator (and back up) and one for the sites. At the Concentrator the JCA consists of the Dissemination Element (DE), Imagery Exploitation Support System (IESS), Concentrator Open Primary Server (COPS), and the Image Product Library (IPL). At the sites the JCA consists of the IESS Client, COPS Web-based Client, and the IPL. Commercial Off The Shelf (COTS) and Non-Developmental Item (NDI) components include three printers: a Kodak 8650, a Laser Jet, and a Large Format Printer (LFP).

Operation of the JSIPS-N will be performed by specially trained Intelligence Specialists (IS), Navy Enlisted Classification (NEC) 3910, 3923, 3925, 3926 and (in rare cases) NEC 0000. System administration and database administration duties will be performed by Information Systems Technician (IT) personnel, NEC IT-2720, while maintenance of the JSIPS-N will be performed by Electronics Technicians (ET) personnel, NEC 1654. Based on the desktop Hardman analysis, Manpower requirements are within the capabilities of Navy's existing rating structure.

Specialized Training for the JSIPS-N operators is accomplished during formal schoolhouse courses of instruction, post-software-installation functionality training, and advanced systems operational training. Maintenance Training is accomplished during formal schoolhouse instruction or as *ad hoc* training for the requesting activity.

TABLE OF CONTENTS

	Page
Executive Summary	i
List of Acronyms	iii
Preface.....	viii
 PART I - TECHNICAL PROGRAM DATA	
A. Nomenclature-Title-Program	I-1
B. Security Classification.....	I-1
C. Manpower, Personnel, and Training Principals	I-1
D. System Description.....	I-2
E. Developmental Test and Operational Test	I-2
F. Aircraft and/or Equipment/System/Subsystem Replaced	I-3
G. Description of New Development	I-3
H. Concepts	I-10
1. Operational.....	I-10
2. Maintenance	I-13
3. Manning	I-15
4. Training.....	I-16
I. On Board (In-Service) Training	I-23
J. Logistics Support.....	I-24
K. Schedules.....	I-28
L. Government Furnished Equipment and Contractor Furnished Equipment Training Requirements.....	I-29
M. Related NTSPs and Other Applicable Documents.....	I-29
 PART II - BILLET AND PERSONNEL REQUIREMENTS	 II-1
PART III - TRAINING REQUIREMENTS	III-1
PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS.....	IV-1
PART V - MPT MILESTONES.....	V-1
PART VI - DECISION ITEMS/ACTION REQUIRED.....	VI-1
PART VII - POINTS OF CONTACT.....	VII-1

LIST OF ACRONYMS

ACDU	Active Duty
ACDUTRA	Active Duty Training
AGF	Miscellaneous Command Ship
ALSP	Acquisition Logistics Support Plan
AMD	Activity Manpower Document
AOB	Average On Board
APS	Afloat Planning System
AS	Administration Support
AT	Annual Training
ATARS	Advanced Tactical Air Reconnaissance System
ATIR	Annual Training Input Requirement
ATM	Asynchronous Transfer Mode
C4I	Command, Control, Communications, Computers, and Intelligence
CAF	Course Attrition Factors
CANTRAC	Catalog of Navy Training Courses
CBT	Computer Based Training
CDL	Common Data Link
CDL-N	Common Data Link - Navy
CFE	Contractor Furnished Equipment
CFY	Current Fiscal Year
CHBDL-ST	Common High Bandwidth Data Link - Shipboard Terminal
CIN	Course Identification Number
CIP	Common Imagery Processor
CM	Corrective Maintenance
CMC	Commandant of the Marine Corps
CNETINST	Chief of Naval Education and Training Instruction
CNO	Chief of Naval Operations
COMFIFTHFLT	Commander Fifth Fleet
COTF	Commander Operational Test and Evaluation Force
COPS	Concentrator Open Primary Server
COTS	Commercial-off-the-Shelf
CaNDI	Commercial-off-the-Shelf (COTS) and Non-Developmental Items
CRB	Change Review Board
CSOM	Computer Systems Operator's Manual
CV	Aircraft Carrier
CVIC	CV Intelligence Center
CVN	CV Nuclear Power
CWSP	Commercial Wideband Satellite Program

LIST OF ACRONYMS

D-Level	Depot Level
DA	Developing Activity
DARO	Defense Airborne Reconnaissance Office
DATM-C	Defense Information System Agency (DISA) Asynchronous Transfer Mode (ATM) – Classified
DCGS	Distributed Common Ground System
DCGS-I	Distributed Common Ground System – Imagery
DCNO	Deputy Chief of Naval Operations
DE	Dissemination Element
DISA	Defense Information System Agency
DIWS	Digital Imagery Workstation Suite
DIWSA	Digital Imagery Workstation Suite Afloat
DLA	Defense Logistics Agency
DoD	Department of Defense
DSN	Defense Switching Network
DSS	Data Storage System
DT	Developmental Test
E/S/S	Equipment/System/Subsystem
ECP	Engineering Change Proposal
ELT	Electronic Light Table
ESIS	Enhanced SCI Isolation Segment
ET	Electronics Technician
ETE	Electronic Test Equipment
ETM	Equipment Technical Manual
FEDEX	Federal Express
FMS	Foreign Military Sales
FRP	Full Rate Production
FY	Fiscal Year
GCCS-M	Global Command and Control System – Maritime
GENSER	General Service
GFE	Government Furnished Equipment
GPETE	General Purpose Electronic Test Equipment
HERB	Hardware Engineering Review Board
HP	Hewlett Packard
HSI	Human Systems Integration
IDTC	Inter-Deployment Training Cycle
IESS	Imagery Exploitation Support System
IMINT	Imagery Intelligence

LIST OF ACRONYMS

IPL	Image Product Library
IS	Intelligence Specialists
ISEA	In-Service Engineering Agent
ISS	Image Scanning System
IT	Information Systems Technician
JCA	JSIPS-N Concentrator Architecture
JQR	Job Qualification Requirements
JSIPS-N	Joint Service Imagery Processing System – Navy
LAN	Local Area Network
LCC	Amphibious Command Ship
LFP	Large Format Printer
LHA	Amphibious Assault Ship (General Purpose)
LHD	Amphibious Assault Ship (Multi Purpose)
LRFS	Logistic Requirements and Funding Document
LRU	Lowest Replaceable Unit
LSA	Logistics Support Analysis
M&P	Manpower & Personnel
MPT	Manpower, Personnel, and Training
NAVAIR	Naval Air Systems Command
NAVAIRSYSCOM	Naval Air Systems Command
NAVMAC	Navy Manpower Analysis Center
NAVSEASYSYSCOM	Naval Sea Systems Command
NAVSPAWARSYSCOM	Naval Space and Warfare Systems Command
NDI	Non-Developmental Items
NEC	Navy Enlisted Classification
NIMA	National Imagery Mapping Agency
NIS-DE	National Input Segment Dissemination Element
NMITC	Navy and Marine Corps Intelligence Training Center
NOBC	Navy Officer Billet Classification
NRT	Near Real Time
NTP	Navy Training Plan
NTRDM	Navy Training Requirements Documentation Manual
NTSP	Navy Training System Plan
O-Level	Organizational Level
OAT	Operational Assist Team
OEM	Original Equipment Manufacturer
OJT	On-the-Job Training
OPNAV	Office of the Chief of Naval Operations

LIST OF ACRONYMS

OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
ORD	Operational Requirement Document
OT	Operational Test
PAF	Pipeline Attrition Factor
PEO	Program Executive Officer
PFY	Previous Fiscal Year
PM	Program Manager or Planned Maintenance/Preventive
PMS	Planned Maintenance System
PNEC	Primary Navy Enlisted Classification
POE	Projected Operational Environment
PQS	Personnel Qualification Standard
PSE	Peculiar Support Equipment
PTW	Precision Targeting Workstation
PUK	Pack Up Kit
Q2	Quick Query
RAID	Redundant Array of Independent Disks
RFD	Ready For Delivery
RFOU	Ready For Operational Use
ROC	Required Operational Capability
SCI	Sensitive Compartmented Information
SDD	System Description Document
SES	Softcopy Exploitation Segment
SET	System Engineering Team
SHARP	Shared Airborne Reconnaissance Pod
SMD	Ship Manning Document
SME	Subject Matter Expert
SNDL	Standard Navy Distribution List
SNEC	Secondary Navy Enlisted Classification
SOF	Special Operation Forces
SOM	System Operator's Manuals
SPAWAR	Space & Naval Warfare Systems Command
SPE	Screener Processor Element
SPETE	Special Purpose Electronic Test Equipment
SPF	Strike Planning Folder
SSC SD	Space and Naval Warfare Systems Center, San Diego
SUM	System User's Manuals
TA	Training Agency

LIST OF ACRONYMS

TAC	Tactical Advanced Computer
TAD	Temporary Additional Duty
TAMPS	Tactical Automated Mission Planning System
TD	Training Device
TE	Training Equipment
TEMP	Test and Evaluation Master Plan
TFMMS	Total Force Manpower Management System
TIS	Tactical Input Segment
TQCP	Training, Qualification, Certification, and Proficiency
TRPPM	Training Planning Process Methodology
TSA	Training Support Agency
TTE	Technical Training Equipment
UIC	Unit Identification Code
ULSS	User's Logistic Support Summary
UPS	Uninterruptible Power Supply
WPC	Washington Planning Center

PREFACE

This Draft Navy Training System Plan (NTSP) for the AN/SYQ-23 JSIPS-N program has been developed as part of the regular NTSP update process within the guidelines set forth in the NTRDM, Chief of Naval Operations (OPNAV) Publication P-751-3-9-97. This NTSP reflects the changes that have occurred since the last approved NTP, N88-NTP-A-50-9204B/A dated December 1998. The major changes to this NTSP consist of:

- Functionality of the Digital Imagery Workstation Suite (DIWS) to be absorbed by the Precision Targeting Workstation (PTW) 4.X in Fiscal Year (FY)03.
- JSIPS-N Concentrator Architecture (JCA) added.
- Tactical Input Segment (TIS) fielding in Calendar Year (CY) 03 with three Tactical Advanced Computer (TAC) 4 rack configuration.
- PTW hosts the Strike Planning Folder (SPF).
- Replacement for the Sensitive Compartmented Information (SCI) Isolation Segment / Enhanced SCI Isolation Segment (ESIS) being evaluated (Security Guard).
- Elimination of the Image Scanning System (ISS), PTW 3.x and National Input Segment-Dissemination Element (NIS-DE).
- Additional manpower to support TIS.
- PTW Client/Server architecture was implemented

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** Joint Service Imagery Processing System-Navy (JSIPS-N).

2. **Program Element.** 0305208D

B. SECURITY CLASSIFICATION

1. **System Characteristics**..... Unclassified

2. **Capabilities**..... Unclassified

3. **System Functions**..... Unclassified

Note: JSIPS-N combines equipment that processes data classified as TOP SECRET/Sensitive Compartmented Information (TS/SCI) and SECRET General Service (GENSER). **This NTSP document is Unclassified.**

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor CNO (N61)

OPO Resource Sponsor..... CNO (N61)

Developing Activity (DA)CNATT (FID N5)

Training Agency (TA)NETC (ETE41)

Training Support ActivityPMA281 (PMA281L)

Manpower and Personnel (M & P)..... CNO (N12)

NAVPERSCOM (PERS-4, PERS-402C,
PERS-403, PERS-408)

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

D. SYSTEM DESCRIPTION

1. Operational Uses. JSIPS-N is the Navy portion of an Office of the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence (C3I) (formerly the Defense Airborne Reconnaissance Office (DARO)) effort entitled Distributed Common Ground System (DCGS). DCGS is a cooperative effort between the services, agencies, and Department of Defense (DoD) to provide systems capable of receiving, processing, exploiting, and disseminating data from airborne and national reconnaissance platforms. DCGS is further subdivided into systems which process, exploit, and disseminate Measurements Analysis and Signatures Intelligence (MASINT) data, Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery data. Cooperative imagery processing systems are collected under the general heading, Distributed Common Ground System – Imagery (DCGS-I). JSIPS-N is the Navy's DCGS-I component.

JSIPS-N is a shipboard imagery exploitation system with the capability to receive, process, exploit, store, and disseminate imagery, imagery-derived products, and Imagery Intelligence (IMINT) reports based on multi-source imagery from multiple inputs. The primary mission of JSIPS-N is to assist strike planners, tactical aviators, and Marine Corps amphibious planners in the delivery of Precision-Guided munitions (PGM). Secondary missions of the system are to provide near-real-time imagery and support to fleet intelligence assets, Special Operations Forces (SOF), and to support primary exploitation and dissemination of tactical organic and theater IMINT products.

The JSIPS-N is installed in intelligence and mission planning spaces of all Aircraft Carriers (CV/CVN), Large Deck Amphibious ships (LHA/LHD) and Fleet Command and Control ships (AGF/LCC). Segments of JSIPS-N are installed ashore at Commander Fifth Fleet (COMFIFTHFLT) Headquarters in Manama, Bahrain and at selected support and training sites.

2. Other Procurement. Foreign Military Sales (FMS) of JSIPS-N is **not anticipated** at this time. However, the United Kingdom (UK) purchased an FMS variant of the Precision Targeting Workstation (PTW) and the Digital Imagery Workstation Suite Afloat (DIWS).

E. DEVELOPMENTAL TEST (DT) AND OPERATIONAL TEST (OT)

1. DT and OT Not Completed. Refer to the current JSIPS-N Test and Evaluation Master Plan (TEMP) Number 1341, latest revision, for further details on DT/OT testing. JSIPS-N version 3.2 was tested in December 2001 with a favorable report issued by Commander Operational Test and Evaluation Force (COTF) in April 2002.

2. DT and OT Completed. DT/OT was completed for various components of the JSIPS-N system. For a complete listing of DT/OT events, time frame of completion, and results refer to the JSIPS-N TEMP Number 1341, latest revision, for further details on DT/OT testing.

F. SHIP/AIRCRAFT AND EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. JSIPS-N is an existing capability, and therefore no systems will be replaced. However, JSIPS-N represents a quantum improvement in processing tactical reconnaissance over film-based sensors by providing information within minutes of image acquisition. Additionally, with the transition from Tactical Aircraft Reconnaissance Pod System (TARPS) to the SHared Airborne Reconnaissance Pod (SHARP), the requirement for processing large volumes of film-based reconnaissance imagery will be eliminated.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. JSIPS-N receives, processes, exploits, and stores imagery, imagery-derived products, and IMINT based on multi-source imagery. JSIPS-N generates, stores, and disseminates these products to interoperable systems and organizations. JSIPS-N performs these activities in support of PGM strike planners, tactical aviators, and Marine Corps amphibious planners in accomplishment of their tasks, including those tasks associated with the delivery of precision ordnance. JSIPS-N provides support to Intelligence Preparation of the Battlespace Surveillance and Reconnaissance, Combat Assessment, SOF and Bomb Hit Assessment (BHA). Figure I-1 depicts the JSIPS-N Afloat Architecture. The JSIPS-N system design is based upon the integration and upgrade of functional capabilities of the following primary components. They include the following:

a. Precision Targeting Workstation Client/Server. The PTW Client/Server architecture was implemented in CY-2001. The PTW is the primary image exploitation, geopositioning, and viewing subsystem within the JSIPS-N architecture for Tomahawk Land Attack Missile (TLAM) and Tactical Aircraft (TACAIR) PGM targeting and mission planning. The PTW architecture is based on a client/server configuration consisting of a single Sun Server and multiple PC-based clients.

The PTW Server functions as an imagery repository for the system and provides certain services to the client workstations. The PTW Operator is expected to interact directly with the server as little as possible. The server is the physical ingest point for imagery and data. The PTW Operator will conduct some system administration functions directly through the server, but the majority of functions will be executed from the PTW Client Workstations. All hardware components (PTW Server, PTW Client Workstations) of the system must be installed on the same Local Area Network (LAN). The PTW Server also includes a PTW Website (PTWeb) that allows external customers to request the creation of products by the PTW Operator or PTW System. The PTW Website also provides links to common imagery product servers such as the IPL, which provide the capability to query and browse for existing JSIPS-N imagery products.

b. Precision Targeting Workstation. There are two types of *integrated* client workstations: Stereo Workstation and Mono Workstation. Both workstations support the following general roles: target development, precision geopositioning, and imagery exploitation/management.

(1) Stereo Workstation. This Stereo Workstation, running the SOCET SET Electronic Light Table (ELT) provides all PTW capabilities and is configured with hardware supporting the stereoscopic viewing of imagery. This allows the PTW Operator to view imagery pairs in stereo and perform precision geopositioning while viewing imagery in stereo.

(2) Mono Workstation. The Mono Workstation, running the Visual Information Technologies (VITec) ELT, provides all PTW capabilities with the exception of stereoscopic viewing of imagery. It provides monoscopic use of imagery and the generation of precision aimpoints through a monoscopic interface to the same point calculation services (provided by the PTW Server) as the Stereo Workstation and Web Client imagery exploitation capabilities.

The PTW also provides a Web Client. It is a Java applet imagery viewing and exploitation tool, called PTWeb. This tool is launched through the use of a browser connection (Local or Wide Area Network). PTWeb provides a web-based imagery exploitation capability that includes the use of Source Selection (query of images resident on the in search of the best set of images that meet an accuracy goal), precision geopositioning (monoscopic), mensuration, imagery annotation, textual product generation, and the generation of image products (TIFF, GIF or PowerPoint).

c. JSIPS-N Concentrator Architecture (JCA)/ IPL. The JCA implemented in CY-2000 is the architecture JSIPS-N uses to order and disseminate imagery to the users. It consists of a Concentrator, Back-Up Concentrator, and a communications network. The Dissemination Element (DE) and IESS servers are located at the concentrator sites and are developed by National Imagery Mapping Agency (NIMA). The Concentrator Open Primary Server (COPS) is also located at the Concentrator and provides an extensive imagery archive for the fleet. Each site configuration includes a COPS client, IESS client, and an IPL. The IPL acts as the imagery receiver and local database for the user sites. Imagery may be sent to the sites Near-Real Time (NRT) via the DE or as requested via COPS. All imagery and image products transmitted from JCA to the Afloat Systems are classified as GENSER. The JCA consists of four system components: the Source, the Concentrator, the Sites, and Communications. These four system components are briefly described below.

(1) Source. The source component provides NRT imagery to the Battle Group/Amphibious Readiness Group Commanders. The source component for the JCA is the Enhanced Processing Segment.

(2) Concentrator. The concentrator component is the clearing-house for imagery within the JCA. The Concentrator includes a NIS-DE, COPS, IESS, and Global Access Library. The Primary Concentrator is located at the National Maritime Intelligence Center (NMIC), Suitland, Maryland. The Backup Concentrator is located at the Washington Planning Center (WPC) located at the Washington Navy Yard, Washington, DC.

(3) Sites. The Site component includes ships with bandwidth allocated for imagery dissemination, and shore sites such as the WPC, the Naval Strike Air Warfare Center

(NSAWC) Fallon, and the Navy and Marine Corps Intelligence Training Center (NMITC) Dam Neck, Virginia. The basic function of the Site is to request and receive imagery and imagery products to satisfy local requirements and provide access to archived products at the Concentrator. The Site is comprised of three functional components that reside on a single IPL: the IPL Quick Query (Q2), IESS client, and COPS client. The IESS and COPS clients can be accessed from the IPL. The IPL Q2 can be accessed from any computer on the LAN that has Netscape.

(4) Communications. The communications component of the JCA provides the network required to transfer data throughout the system. Ships of the Atlantic Fleet are supported via the Defense Information System Agency (DISA) Asynchronous Transfer Mode (ATM) – Classified (DATM-C) connection at the Naval Computer and Telecommunications Area Master Station Atlantic Command (NCTAMSLANT). Ships of the Pacific Fleet are supported via the DATM-C connection at the Naval Computer and Telecommunications Station San Diego, CA. The primary communications interface between the shore and site is the existing Commercial Wideband Satellite Program (CWSP), previously known as Challenge Athena.

d. Strike Planning Folder (SPF) – The SPF application hosted on the PTW provides a means to coordinate and integrate various strike planning information coming from PTW, Tactical Automated Mission Planning System (TAMPS), Global Command and Control System – Maritime (GCCS-M) and other strike related systems. A completed folder provides a consolidated view of the strike picture for use by shipboard strike planning team members.

e. Tactical Input Segment (TIS) (OL-691/SYQ). As part of the JSIPS-N block upgrade development schedule, the TIS was added to the JSIPS-N architecture in FY-03 providing a digital imagery interface for tactical and theater input into JSIPS-N. It is designed to receive, process, and screen tactical imagery and is capable of accepting and processing raw imagery and auxiliary support data from multiple sensors necessary for exploitation. It accepts and processes data from the Common Data Link – Navy (CDL-N) communications link and storage media. The TIS is capable of formatting the output data into exploitable imagery and transferring this information to other components of JSIPS-N, or other shipboard systems in common data formats.

The TIS accepts inputs from two external sources: (1) a cable link from the Common Data Link (CDL) variant Common High Bandwidth Data Link-Shipboard Terminal (CHBDL-ST); and (2) Data Storage System (DSS) data cartridges from the F/A-18 SHARP sensor. All input data is routed to the Screener Processor Element (SPE). SHARP sensor data is processed only by the SPE, while all other tactical legacy sensor data is passed to the Common Imagery Processor (CIP) for processing.

The CIP is the primary sensor-processing element of the TIS. The function of the CIP is to accept imagery and support data and process it into an exploitable image and output it to the SPE for screening and Selected Image Target Area (SITA) selection.

f. Security Guard. The Security Guard will provide an accredited interface between the high side and the low side networks. It will provide a means to isolate the two networks so that imagery, imagery products, and metadata can be shared between the SCI and GENSER systems. A tradeoff study is currently underway to select a system to perform the security guard functions.

g. Image Scanning System (ISS) (OL-692/SYQ). The ISS is installed aboard CV/CVN to provide softcopy digital imagery from film. It also can provide hard copy imagery printed locally. The requirement for an ISS will no longer be required when the F-14 is retired from active service.

h. JSIPS-N LAN Printers. Several printers are fielded and configured as network printers for JSIPS-N systems. The Hewlett Packard (HP) 755CM LFP allows the GENSER operator to print black and white or color prints up to three feet wide. A high quality Kodak 8650/8670 image (color) printer is available on the GENSER network. A Tektronix Phaser 350 image (color) printer is available on the SCI LAN for paper or transparencies that require high print quality. A HP LaserJet 5M text printer is also installed on the SCI and GENSER networks for general printing applications.

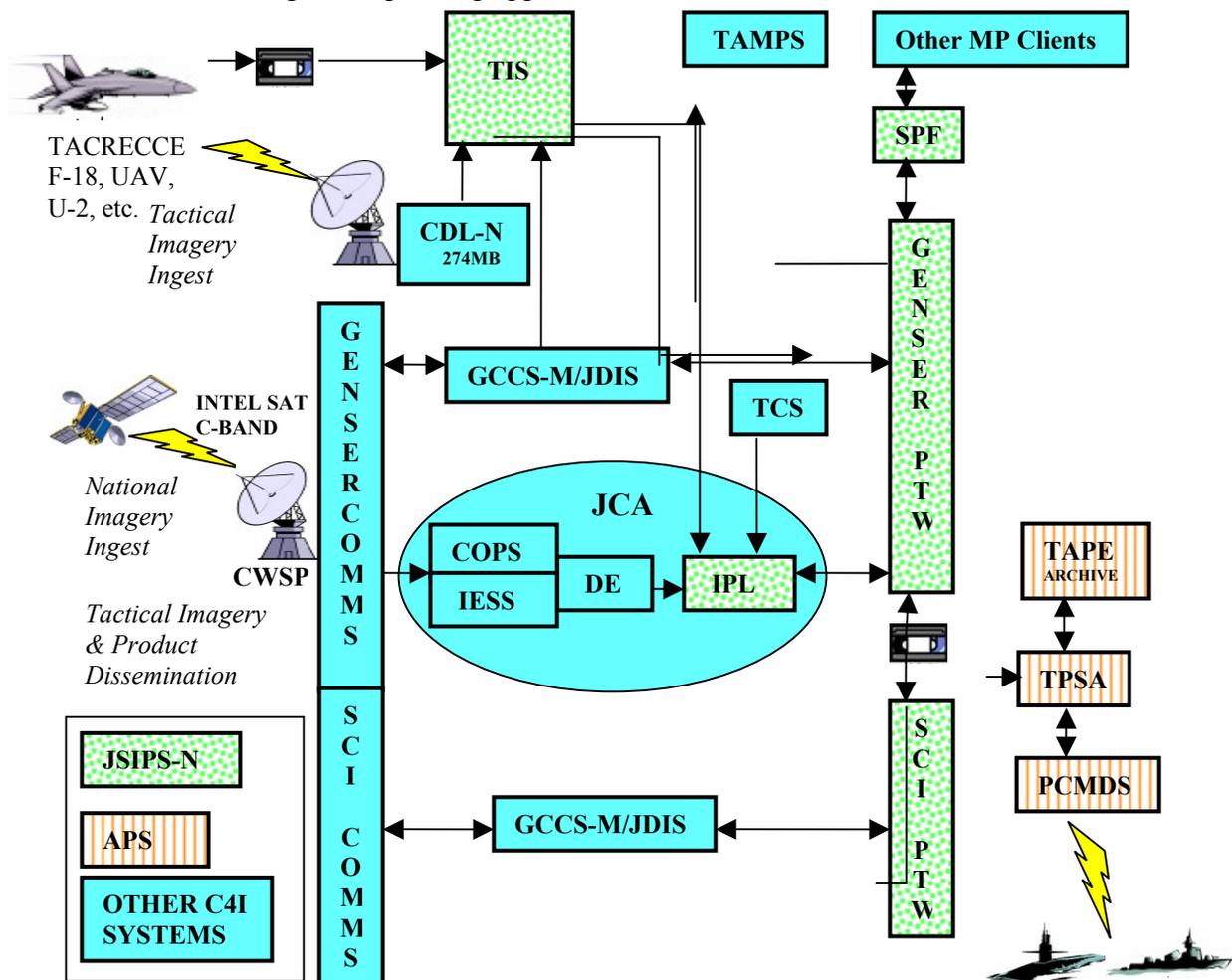


Figure I-1. JSIPS-N Afloat Architecture.

2. Physical Description

a. PTW Client/Server. The PTW Server GENSER rack is a ruggedized rack that provides a shock-mounted housing, input air filter, fans, and input air temperature thermostat for the Rotary Storage Peripheral (RSP) 2150i Tape Drive, Mono Client Computer, Uninterruptible Power Supply/Power Distribution Unit (UPS/PDU), Redundant Array of Independent Disks (RAID) 1, RAID 2, Peripheral Enclosure, Monitor, Bull Nose Assembly, Enterprise 4500 (E4500) Computer, and Battery. The SCI PTW Server rugged rack configuration is identical to the PTW Server GENSER rack with one exception; the lower RAID-1 assembly is not used in this rack. The Client/Server is in a TAC-4 equipment rack with the dimensions 79 inches in height (includes the ICS), 24 inches in width, 32 inches in depth, and weighs approximately 1100 pounds with all equipment installed. When the keyboard is extended the overall width is 57 inches.

b. PTW Workstations

(1) Stereo Workstation. PTW GENSER and SCI Stereo clients are integrated into a short rack or into the Phase Two Peripheral Rack depending upon site requirements. A Phase Two Peripheral Rack is a TAC-4 equipment rack with the dimensions 49 inches in height, 24 inches in width, 28 inches in depth, and weighs approximately 300 pounds with all equipment installed. When the keyboard is extended the overall width is 57 inches. They are installed in SCI and GENSER spaces on board CV/CVN, LHA/LHD, and AGF/LCC class ships. The GENSER rack is identical to the SCI rack with the exception the 10/100 MB Hub (SCI Only). Major components housed in these racks includes a color monitor, 3D Overlay Z Screen, Bull Nose Assembly, two Trackball Assemblies, Computer Assembly, and an UPS Assembly. More detailed information on the PTW equipment can be found in PTW Equipment Technical Manual (ETM), JSIPS-N-ETM-102-3. More detailed information on the JSIPS-N Phase Two Peripheral Rack can be found in the IESS/JSIPS-N Printers and JSIPS-N Phase Two Peripheral Rack Equipment Technical Manual, JSIPS-N-ETM-102-6.

(2) Web Client. The Web Client is Server based and allows access to PTWeb throughout the LAN.

(3) Mono Workstation. PTW GENSER and SCI Mono clients are integrated into the same rack as the server/client. They are installed in SCI and GENSER spaces on board CV/CVN, LHA/LHD, and AGF/LCC class ships. The GENSER rack is identical to the SCI rack with the exception of the 10/100 MB Hub (SCI Only). Major components housed in these racks include a color monitor, Bull Nose Assembly, Trackball Assembly, Computer Assembly, and an UPS Assembly. More detailed information on the PTW 4.0 equipment can be found in PTW 4.0 Equipment Technical Manual (ETM), JSIPS-N-ETM-102-3. More detailed information on the JSIPS-N Phase Two Peripheral Rack can be found in the IESS/JSIPS-N Printers and JSIPS-N Phase Two Peripheral Rack Equipment Technical Manual, JSIPS-N-ETM-102-6.

c. JCA/IPL. The IPL Rack is installed in a TAC-4 equipment rack with the dimensions 79 inches in height, 24 inches in width, 32 inches in depth, and weighs approximately 1500 pounds with all equipment installed. When the keyboard is extended the overall width is 57 inches. Major components assembled in the IPL rack include: RSP-2150i, UPS/PDU; three CIPRICO 7000 RAIDs; peripheral enclosure containing a 8mm tape drive and DVD-ROM drive; Flat Panel Display; bullnose assembly; SUN Enterprise 4500 (E4500); and battery. JCA crypto and communications equipment is assembled into the JSIPS-N Phase Two Peripheral Rack or into a JCA Communications Enclosure depending upon site requirements. Major components assembled in the JCA shipboard configuration are: a CISCO router, KIV-7HS Chassis with two KIV-7HS, Canoga Perkins Fiber Optic Modems, Black Patch Panel and Red Patch Panel. More detailed information on this equipment can be found in the IPL/JCA Equipment Technical Manual, JSIPS-N ETM-102-4.

d. SPF. SPF is a software application that resides on the PTW server and does not have any specific hardware associated with it.

e. TIS Configuration. The TIS consists of three (3) TAC-4 equipment racks with each having the dimensions 72 inches in height, 24 inches in width, 32 inches in depth, and weighs approximately 2933 pounds with all equipment installed for all three units. When the keyboard is extended the overall width is 57 inches. These racks are bolted together to form a single unit when installed aboard ship. The left-hand rack (A1), also known as the Situational Awareness Workstation, houses the Situational Awareness Processor and provides top-level management of TIS software functions. The middle rack (A2) houses the SPE, the unit that manages screener functions. The SPE identifies and distributes data received via the CDL or read from DSS data cartridges. SHARP data from these input sources is processed within the SPE. All other data is passed to the CIP in the right-hand rack (A3) for processing.

f. Security Guard. Security Guard is a future modification to the PTW to secure transfer of information between the GENSER and SCI PTWs.

g. ISS. The ISS consists of a Vexcel Scanner, color monitors, keyboard and mouse tray, computer assembly (comptroller), video interface, UPS/PDU assembly and a JSIPS-N switch.

h. LAN Printers. These printers are obsolete and PMA281 is in process of identifying replacements for them. Currently the Okidata 7300 Image Printer has been authorized for the replacement of the Tektronic Phaser 350 Image Printer for afloat units only.

3. New Development Introduction. JSIPS-N is not a new development. It has been in place since 1996 but has experienced upgrade of equipment and software defined in this revised document. Comprised of mostly CaNDI equipment and software, and also Government Furnished Equipment (IPL, CIP, and SPE), it is subject to further upgrades of equipment to keep pace with commercial equipment advances. TIS is currently being installed on multiple platforms and is awaiting OT. The functional and physical aspects of TIS are explained above. As new upgrades are introduced they will be addressed in future iterations of this document.

4. Significant Interfaces. In the Afloat environment there are overlaps of JSIPS-N requirements with other Navy requirements. JSIPS-N is designed to take advantage of these overlaps where possible, or to use existing modified systems to support specific JSIPS-N requirements. JSIPS-N system interfaces are external and internal. External interfaces are considered outside of the JSIPS-N system boundary (i.e., client interfaces with the JSIPS-N). Internal interfaces are considered inside the JSIPS-N system boundary.

a. System External Interfaces. System external interfaces are required to move data between JSIPS-N components and external systems. They include additional client systems such as TAMPS and other intel/imagery databases. JSIPS-N external interfaces and applicable interface control documents are shown in Figure I-2.

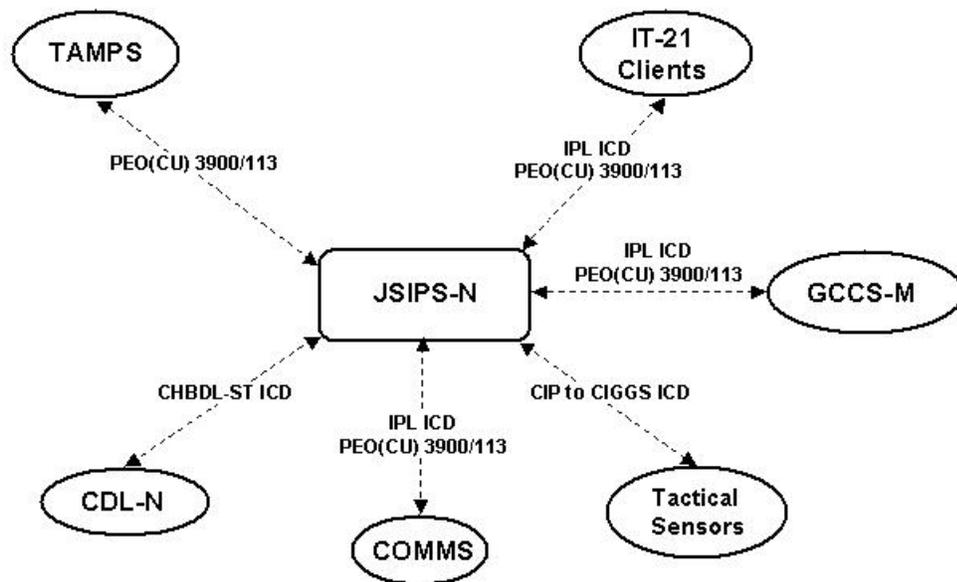


Figure 1-2 JSIPS-N External Interfaces Diagram

b. System Internal Interfaces. System internal interfaces are required to move data in and among the JSIPS-N components. JSIPS-N internal interfaces and applicable interface control documents are shown in Figure I-3. Detailed information on JSIPS-N system interfaces can be found in the System Specification for the Joint Service Imagery Processing System - Navy (JSIPS-N) PEO (CU) 3900/119 dated 18 June 1998.

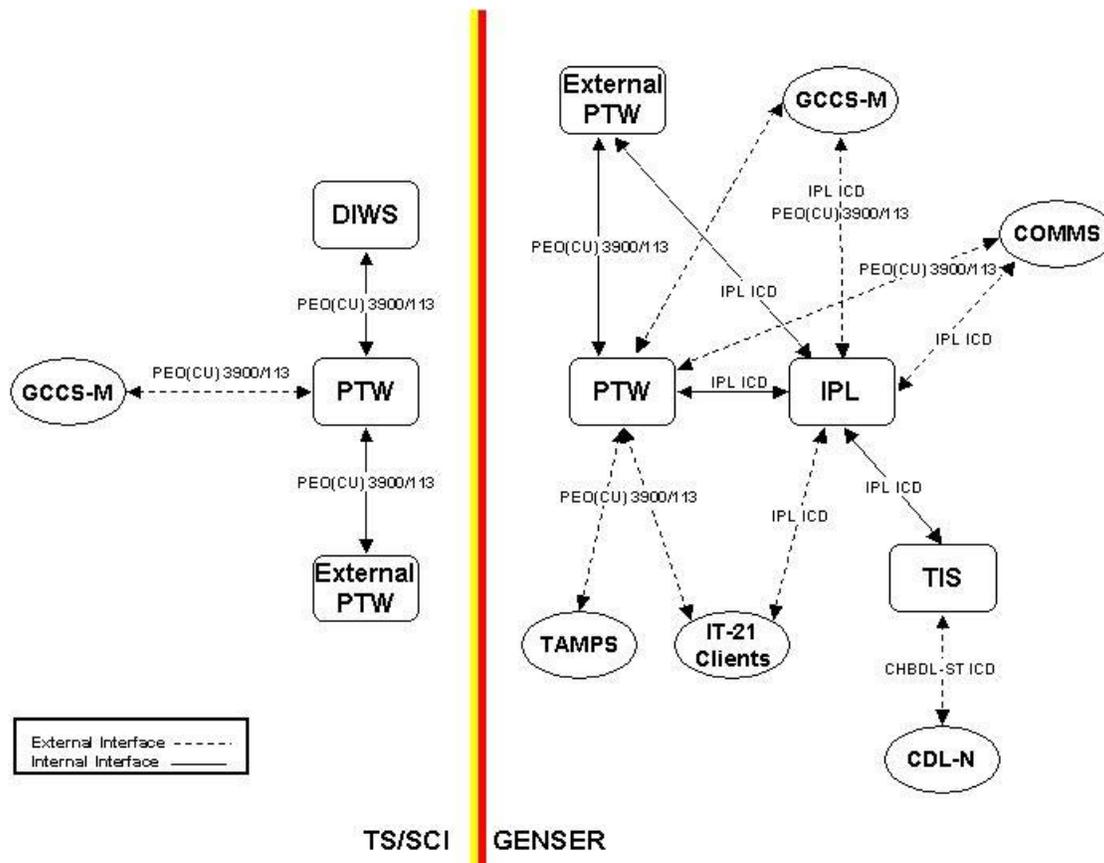


Figure I-3. JSIPS-N Internal Interface Diagram

5. New Features, Configurations, or Material. JSIPS-N uses technology which was previously demonstrated or in full-scale development for other systems. The JSIPS-N equipment will be principally CaNDI equipment that has been ruggedized for the Afloat environment. It consists of state-of-the-art computational systems, high-resolution graphic displays, and extremely large mass storage devices. The requirement to remain with CaNDI as much as possible was to minimize cost, development time and to maintain the high-speed computational capabilities available in existing off-the-shelf hardware. Software upgrades to the JSIPS-N System are ongoing. These changes enhance the operational capability of the system and increase operator friendliness.

H. CONCEPTS

1. Operational Concept. JSIPS-N provides PGM targeting services to users aboard aircraft carriers, large deck amphibious ships, fleet command and control ships, and select shore sites. Various segments of JSIPS-N are used to receive and exploit national and tactical imagery. Electro-Optical, Infrared, and Synthetic Aperture Radar imagery from all national sources is available today. Tactical sources, such as Advanced Tactical Air Reconnaissance System (ATARS), U2 aircraft and SHARP, will be available when the TIS is fielded. The Softcopy

Exploitation Segment (SES) is the heart of the exploitation capability of JSIPS-N. SES is comprised of two systems, the Digital Imagery Workstation Suite Afloat, which is being removed, and the PTW. It provides for the display and manipulation of digital imagery for exploitation, mensuration, and reporting. Imagery inputs to the SES PTW include the JCA, which brings current, selected frames of national imagery to the requesting unit. Additional imagery sources include archived tapes, the IPL, and the TIS. The IPL will provide access to a large volume of imagery stored at NIMA via existing communication links (i.e., CWSP). The TIS will allow receipt of theater and tactical digital imagery from the ATARS (F/A-18D ATARS), the U2, Global Hawk and other Unmanned Aerial Vehicles (UAV) and USN F/A-18F SHARP. Imagery dissemination is accomplished by using the GCCS-M and the IPL. The JSIPS-N will be used to support, but will not be limited to, the following CV Intelligence Center (CVIC)/Joint Intelligence Center functions:

- Strike and Mission Planning
- Targeting and Weaponing
- Precision Geopositioning
- Naval Gun Fire Support
- Battlefield/Open Ocean Search and Surveillance
- Indications and Warning
- Mission Rehearsal
- Post Strike Bomb Hit Assessment
- Amphibious Assault Planning and Execution
- Combat Search and Rescue
- Non-combatant Evacuation Operations and
- Special Operations Force Mission Planning

Based on the original NAVMAC desktop HARDMAN manpower analysis, the watch stations required to support JSIPS-N operations already exist in the applicable Ship's Manning Document (SMD). However, it should be noted, at that time, COMLANTFLT, COMNAVAIRLANT, and COMNAVAIRPAC did not concur with NAVMAC's assessment. Recently a study has been done for CVN 68 and is at the N12 and N78 level. A study was also accomplished for the amphibious units and is currently at the N75 level for funding determination.

Comments provided by CNO (N2M) advised that discussions with NAVMAC 40 confirmed JSIPS-N architecture supports watch station requirements for three IS2's. N2M further advised that if extensive architecture changes have occurred and warrant a change in manning requirements, N2M will request NAVMAC survey and host a manpower requirements conference with the proper manning control authority at Arlington Annex. CNO Washington DC 042224Z Sep 98 (NOTAL) pertains. By separate correspondence, COMLANTFLT (N2), COMPACFLT (N2), and NETC (ETE41) have concurred with this proposal. At this time the conference has not been held.

a. Intelligence Specialist. Based upon NAVMAC's assessment validated watch stations already exist in CV/CVN and LHA/LHD to support the IS manning requirements.

(1) 3926 Requirement. NTP-A-50-9204A identified a requirement for three IS-3926 (Afloat Imagery Manager, formerly known as JSIPS-N Imagery Dissemination Manager) billets/watch stations per CV/CVN, LHA/LHD, and AGF/LCC to support JSIPS-N softcopy exploitation requirements. IS-3926 personnel will utilize the JSIPS-N equipment to input, view, and manipulate near-real-time digital imagery received via the JCA, IPL, TIS, or from tape media in support of PGM targeting services, strike and mission planning, naval gun fire support, battlefield/open ocean search and surveillance, and amphibious assault planning and execution. Personnel assigned to these billets/watch stations must first attend the Afloat Imagery Manager course (A-243-1956) at the NMITC, Dam Neck, VA, which awards NEC IS-3926.

(2) 3910 Requirement. The JSIPS-N equipment will also be utilized by IS personnel holding NEC 3910 (Naval Imagery Interpreter) who will utilize the JSIPS-N equipment to support imagery mensuration, exploitation/interpretation, and annotation in support of briefs, contingencies, and all source analysis. To ensure that these personnel are trained on how to effectively utilize this shipboard imagery exploitation system, PTW familiarization is incorporated into the 3910 Imagery Interpretation course (J-242-0993) at NMITC.

(3) 3923 Requirement. Additionally, the JSIPS-N equipment will be utilized by IS personnel holding NEC 3923 (Strike Planning Applications Analyst). IS-3923 personnel will utilize the JSIPS-N equipment to mensurate, annotate, and update imagery that supports the strike planning process. PTW familiarization is incorporated into the 3923 Strike Warfare Applications Analyst course (J-150-0991) at NMITC.

b. System Administrator. Based on the original NAVMAC desktop HARDMAN manpower analysis, the three GCCS-M System Operator watch stations that exist aboard CV/CVN, LHA/LHD, and AGF/LCC can support the additional JSIPS-N system administrator workload. Specific training requirements for these personnel are described in Part II. Due to the nature of data processed, the SCI PTW must operate at the TS/SCI level. Based upon this requirement, Type Commander's should update applicable SMDs and Activity Manpower Documents (AMD) to reflect requirements for a minimum of two IT-2720 billets/watch station per ship to be "Q" coded to support JSIPS-N system administration requirements.

Currently, system database administration is being done by the JSIPS-N operators. The "IS" is not trained to properly perform these functions as it is not part of the IS skills set. The "IT's" that should be performing these functions usually do not possess the proper security clearance to enter the CVIC to perform these tasks. The Human Performance Center has been contacted and a Human Performance Analysis will be conducted for this growing problem.

c. Electronics Technician/Maintenance Technician. Based on the original NAVMAC desktop HARDMAN manpower analysis, JSIPS-N maintenance requirements can be satisfied by maintenance personnel assigned to existing ET-1654 (Intelligence Center Maintenance Technician) billets. Curriculum covering JSIPS-N system maintenance

requirements has been incorporated into the ET-1654 Intelligence Center Maintenance course (J-150-2019). Currently training is performed in theory only. The training assets have been absorbed into the Operator courses. Technicians do see the equipment in operation but do not perform hands on maintenance functions. Details of this training are provided in Part II. Due to the nature of data processed, the SCI PTW must operate at the TS/SCI level. Based upon this requirement, Type Commander's should update applicable SMDs and AMDs to reflect requirements for a minimum of two 1654 billets per ship to be "Q" coded to support JSIPS-N maintenance requirements.

2. Maintenance Concept. The maintenance concept for JSIPS-N is based upon two levels of maintenance: Organizational level (O-Level) and Depot level (D-Level). At the O-Level, maintenance personnel will use Built-In-Test and diagnostics, limited support and test equipment, spare parts, and procedures described in the appropriate ETM or maintenance manual to troubleshoot and repair the system. The faulty Lowest Repairable Unit (LRU) will be removed and replaced with a serviceable item and the equipment tested to verify return to operational service. The failed LRU will be packaged and shipped to Government and contractor-owned depot facilities for failure analysis or discarded as determined by the assigned Source, Maintainability & Recoverability (SM&R) code. At the D-Level, the failed LRUs will be analyzed and repaired using diagnostics, automatic test equipment, test program sets, interface test adapters, and technical documentation. LRUs repaired off-site will be returned to the stocking point. Failed LRUs that cannot be repaired at the D-Level will be condemned and replaced.

a. O-Level Maintenance. O-Level maintenance consists of Preventive Maintenance (PM) and Corrective Maintenance (CM) tasks that are performed with available resources by a maintenance technician holding an ET-1654 (Intelligence Center Maintenance Technician) NEC. The maintenance will normally be performed on-site.

(1) PM. PM tasks are to maintain equipment at satisfactory operational status by providing systematic inspection, servicing, and replacement of parts to prevent impending failures.

(2) CM. CM tasks primarily consist of location and replacement of the faulty LRU in a particular system or rack. LRUs are the lowest unit that can be replaced according to the maintenance concept. In some cases, LRUs are completely replaceable units such as peripheral assemblies. In other cases, LRUs are Circuit Card Assemblies or other electrical/mechanical components located within a peripheral or subsystem rack. Hardware faults are detected through a logical process of test and elimination. Observing indicators and/or software diagnostics on equipment control panels/displays is generally sufficient to detect the fault.

b. I-Level Maintenance. The use of Intermediate Level (I-Level) repair is not required.

c. D-Level Maintenance. D-Level maintenance is performed at Government and/or contractor facilities that are equipped and staffed to perform overhaul type activities, and

repair and testing of failed LRUs.

d. Federal Express (FedEx) Support Concept. PMA281 has devised a unique logistical support system to best support JSIPS-N equipment. This system entails minimizing the inventory required on-site, while at the same time decreasing response time to the customer when a part is required. PMA281's goal is to provide increased readiness at a significantly reduced cost. To accomplish this task, a Pack Up Kit (PUK) is placed on-site to provide support for single point failures. The remaining parts are stored ashore at a contractor owned, contractor operated facility in Memphis, TN. FedEx operates and maintains the warehouse in which these parts are stored, under a contract administered by Defense Logistics Agency; PMA281 has chosen this venue due to its proximity to the main FedEx hub also located in Memphis, TN. PMA281 maintains a home page, called [Lifeline](https://lifeline.spawar.navy.mil/) at <https://lifeline.spawar.navy.mil/>, on the World Wide Web to support the installed JSIPS-N equipment. Included on the home page is a Quick Reference Guide (QRG) that is intended to provide the user with procedures for utilizing the FedEx System and a Space & Naval Warfare Systems Command (SPAWAR) on-line Catalog that provides a parts list for JSIPS-N equipment. To access the QRG for FedEx orders or the SPAWAR On-line Catalog, personnel should log on to Lifeline web site.

e. Software Maintenance. Software maintenance is the process of introducing changes into the JSIPS-N software baseline. Software maintenance includes but, is not limited to: maintenance to correct existing processing, performance and implementation failures or faults; maintenance to adapt to changes in processing or in the data environments resulting from hardware changes or changes in operations; and maintenance to eliminate processing inefficiencies, improve maintainability, and improve performance.

The Washington Planning Center (WPC) is the designated Software Support Activity (SSA) for the analysis, development, testing, and life cycle support of all Cruise Missiles Mission Planning System software for all Cruise Missiles Command and Control Projects under the cognizance of PMA281. As the SSA, WPC is responsible for the planning and execution of all software maintenance requirements for JSIPS-N.

f. Source of Technical Assistance. Engineering and technical services will be provided by the In-Service Engineering Agent (ISEA) for PMA281, which is Space and Naval Warfare Systems Center, San Diego (SSC SD) SPAWAR Programs Office Philadelphia, PA. The ISEA will provide spares support and coordinate all D-Level repair requirements. Requests for technical assistance to repair system failures will be submitted by message to the Type Commander, info SPAWARSYSCEN SAN DIEGO CA//2423//. Routine assistance may be requested by telephone directly to the ISEA. A Help Desk has been established at the ISEA to support Tomahawk Command and Control Systems users. Personnel requiring assistance with JSIPS-N related problems should contact the Help Desk. The toll free 24 x 7 help desk number is 1-800-759-1263.

g. Life Cycle Maintenance Plan. The JSIPS-N equipment described in previous sections consists of state-of-the-art computational systems, high-resolution graphics displays, and extremely large mass storage devices that have an average life span of three to five years or less. Due to the high population of TAC-4 and CaNDI components and Government Furnished

Equipment (GFE) in the JSIPS-N architecture, the Program Office has determined that a formal Logistics Support Analysis (LSA) of the JSIPS-N system is not required. However, PMA281 with support from the SPAWAR Programs Office has conducted O-Level repair level analysis of JSIPS-N hardware systems to determine LRUs and their repair/throw away classification, and to identify the support resources such as spares, support equipment, and tools required for operations and maintenance of the JSIPS-N subsystems. As a result of these analysis, and follow-on meetings with representatives from the Naval Inventory Control Point (NAVICP), formerly the Navy Ships Parts Control Center in Mechanicsburg, PA, it was determined that it was not cost effective to implement traditional supply support procedures. Rather, it was decided that the Program Office with support from the SPAWAR Programs Office would provide life cycle support for fielded JSIPS-N systems. The logistical support system used by PMA281 to support fielded JSIPS-N systems are described in paragraph 5.2 of the Acquisition Logistics Support Plan (ALSP).

3. Manning Concept. Elements of JSIPS-N will be operated by specially trained Intelligence Specialists who will utilize elements of JSIPS-N to perform softcopy imagery dissemination, processing and exploitation tasks, by Information Systems Technician (IT) who will operate the JSIPS-N LAN, assist functional operators with network/software-related problems, and perform system administration and database administration duties, and by Electronics Technicians (ET) who will maintain and repair the JSIPS-N hardware. The manning concept is based upon the redistribution of IS, IT, and ET billets in CV/CVN, LHA/LHD, AGF, and LCC, and where required, adding new billets/watch stations to support JSIPS-N requirements. Specific manpower requirements are described in Part I.L.

a. NAVMAC letter 5311 Ser 412/0383 of 13 June 1995 pertains. Based upon discussions at the NTP Conference conducted 11-13 March 1996, COMNAVAIRLANT (N2) took exception to the NAVMAC “take it out of hide” assessment and recommended the following statement be included in this paragraph.

“[COMCLANTFLT], COMNAVAIRLANT and COMNAVAIRPAC do not concur with the NAVMAC manpower analysis, contending that JSIPS-N brings new additional workload requirements (e.g. dissemination management) and that the new imagery analytical capabilities that JSIPS-N brings to the Battlegroup coupled with the shift in warfighting methods to an emphasis on precision guided munitions, are causing a quantum increase in the quantity and quality of imagery exploitation onboard the CV. The result is increased workload due to both entirely new tasks as well as a significant increase in quantity, complexity, and required precision of existing tasks. COMNAVAIRLANT and COMNAVAIRPAC are proposing an out-of-cycle manpower review to address this and other CVIC manpower shortfalls.”

b. Analysis of AGF and LCC Requirements. Manpower requirements to support operation and maintenance of the JSIPS-N equipment to be installed in AGF and LCC were not included in the manpower analysis described above. However, at the NTP Conference conducted 11-13 March 1996, it was agreed that the manpower requirements should be the same as those described above for LHA and LHD. In response to a manpower analysis request from the Program Office (PMA281), NAVMAC has advised that a manpower analysis of IS, IT, and ET watch station requirements for AGF and LCC, and associated staffs is ongoing and that the

results of these studies will be forth coming in future Draft Ship Manpower Documents. NAVMAC letter 5311 Ser 412/0051 of 27 January 1997 pertains.

4. Training Concept. The training concept is based upon the requirement that all personnel assigned to operate and/or maintain the JSIPS-N equipment will require specialized training to effectively use and maintain the system. Formal training is conducted at NMITC utilizing JSIPS-N Technical Training Equipment (TTE). This is also known as phase 1 training. Post software installation functionality training (phase 2), provided by the ISEA and Software Support Activity (SSA), and advanced systems operation and integration training (phase 3) will be coordinated by PMA281 and conducted by contractors aboard the ship. Computer Based Training (CBT) is conducted on-site by, user personnel. Maintenance Training is accomplished during formal schoolhouse course of instruction conducted at NMITC, and ADHOC training requested by the site as needed.

a. Initial Training. Initial training was completed during equipment installation. For all new hardware being introduced into the JSIPS-N architecture, PMA281 will arrange for initial factory operator and maintenance training for prospective operators and maintainers to be provided on-site utilizing contractor instructors and contractor-developed curriculum.

b. Follow-on Training. Prior to being assigned to perform duties as a JSIPS-N operator or maintainer, all personnel shall attend the appropriate operator and/or maintainer training course identified below. JSIPS-N system administration and maintenance curriculum have been merged into existing training courses being taught at NMITC. The Intelligence Team Trainer Pacific and Atlantic Intelligence Strike Team Trainer are listed in the following tables to identify classes that are available to train operators and imagery officers, however they are not supported or funded by PMA281.

Title	Afloat Imagery Manager
CIN	A-243-1956
Model Manager....	NMITC
Description.....	Provides Navy and Marine Corps personnel with the specialized training necessary to perform softcopy imagery processing, exploitation, and dissemination tasks using elements of the JSIPS-N JCA and TIS with emphasis on the PTW.
Location	NMITC, Dam Neck
Length.....	15 days
RFT date	Currently available
Skill identifier	IS 3926

TTE/TD	1 PTW Server 1 JCA 1 Terra Byte IPL 9 PC Work Station Mono Clients 2 PC Work Station Stereo Clients
Prerequisite	<ul style="list-style-type: none"> ◦ Designator 3910 ◦ MOS 0241 ◦ Security Clearance - Top Secret SCI with justification of need ◦ E3 - E6, Rate IS.
Title	Strike Warfare Intelligence Analyst
CIN	A-150-0991
Model Manager....	NMITC
Description.....	Provides baseline knowledge and skills to perform at the journeyman level in supporting all phases of naval strike and surface fire support missions. It includes strike planning support and product familiarity via hands-on system training.
Location	NMITC, Dam Neck
Length.....	47 days (JSIPS-N is covered in a 2-week module that is integrated into this course)
RFT date	Currently available
Skill identifier	IS 3923
TTE/TD	2 PTW Servers, 17 PC Work Station Mono Clients, and 6 PC Work Station Stereo Clients
Prerequisite	<ul style="list-style-type: none"> ◦ Previous tour in intelligence and/or enroute to a strike support assignment ◦ GCCS-M 'F' School (CIN A-150-2958) within the last calendar year ◦ E4-E6, Rate – IS ◦ Security Clearance - Top Secret, SCI with justification

Title **Intelligence Team Trainer Pacific**
CIN K-243-0001
Model Manager.... FITCPAC
Description..... Designed to exercise Carrier Battle Group and Amphibious Ready Group intelligence watch standers in a simulated shipboard environment allowing them to develop/refine critical skills and operational procedures necessary to support tactical decision makers across a broad operational spectrum.
Location FITCPAC, San Diego
Length..... 5 days
RFT date Currently available
Skill identifier None
TTE/TD

- 1 PTW Server
- 3 PC Work Station Mono Clients
- 1 PC Work Station Stereo Client

Prerequisite

- Rate = CTO, CTR, CTT, EW, IS, OS
- Skill = MC MOS-0202, 0203, 0204, 0206, 0207, 0210, 0211, 0231, 0241, 0251, 0261, 0291.

Title **Intelligence Center Maintenance**
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 (JSIPS-N 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"> ◦ 1 PTW Server ◦ 1 PC Work Station Mono Client ◦ 1 TIS ◦ 1 Vexcel Scanner ◦ 1 IPL ◦ 1 Phase Two Peripheral Rack
Prerequisite	<ul style="list-style-type: none"> ◦ Graduate of ET "A" school or equivalent ◦ Rate – ET ◦ Security Clearance Secret ◦ Designator 1677
Title	Atlantic Intelligence Strike Team Trainer
CIN	A-243-008
Model Manager....	NMITC
Description.....	The Intelligence Team Trainer allows CVBG, ARG and Marine Expeditionary Unit (MEU) intelligence/cryptologic watch teams to develop and refine core skills and afloat intelligence center operating procedures in a realistic tactical environment.
Location	NMITC, Dam Neck
Length.....	5 Days
RFT date	Currently available
Skill identifier	None
TTE/TD	<ul style="list-style-type: none"> ◦ 1 PTW Server ◦ 4 PC Work Station Mono Clients ◦ 2 PC Work Station Stereo Client
Prerequisite	<ul style="list-style-type: none"> ◦ Open to officer and enlisted intelligence personnel attached to deployable units, which require intelligence training of related integrated afloat intelligence skills and functions. ◦ Top Secret/SCI prior to entering course

Title **Strike Fighter Weapons Schools**
CIN None
Model Manager.... NSAWC
Description..... Individual and Unit level training in PGM Weapon's employment
Location Naval Air Station, Oceana, Virginia Beach VA
(Scheduling SPAWAR C4I site survey for SFWSPAC)
Length..... Self paced training
RFT date TBD
Skill identifier Strike Analyst, Mission Planner, Weaponeer and Targeteer
TTE/TD ° 1 PTW Server w/SPF
 ° 2 PTW Mono Client Workstations
Prerequisite Managed by SFWSLANT in support of Strike Mission Planning and PGM weapon's delivery

Title **Post Installation Training**
CIN None
Model Manager.... SSC-SD SPAWAR Philadelphia
Description..... Contractor led training designed to present to the user the functionality's that a particular software release brings to the system. Training is coordinated through SSC-SD SPAWAR Philadelphia Training Coordinator
Location At Site Location
Length..... Varies by System
RFT date Currently available
Skill identifier None
TTE/TD None
Prerequisite ° Designated by the Site
 ° Attended Phase I Training at NMITC
 ° Good working knowledge of the system

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
IS 3926	<ul style="list-style-type: none"> ◦ J-242-0010, Intelligence Specialist Class A1 ◦ Designator 3910 ◦ MOS 0241 ◦ Security Clearance - TOP SECRET SCI with justification of need ◦ E3 - E6
IS 3923	<ul style="list-style-type: none"> ◦ J-242-0010, Intelligence Specialist Class A1 ◦ Previous tour in intelligence and/or enroute to a strike support assignment ◦ A-150-2958 GCCS-M 'F' School within the last calendar year ◦ Security Clearance - TOP SECRET, SCI with justification
ET 1654	<ul style="list-style-type: none"> ◦ A-100-0139 Electronics Technician Core Class A1 ◦ A-100-0146, Electronic Technician Communications Strand Class A School ◦ Security Clearance – SECRET ◦ ET 1677
IT 2720	<ul style="list-style-type: none"> ◦ A-202-0014 Information Systems Technician Class A1 ◦ A-531-0011, GCCS-M System Administration Core Course

d. Post Software Installation Training (phase 2). PMA281 provides post installation contractor lead training designed to present to the user the functionalities that a new software release brings to the system. Candidates for this instruction are designated by the command. Trainees should have attended formal training at the NMITC, assigned as an operator, and have a good working knowledge of the system. Most component training events and the follow on advanced level operator training, covers five days/40 hours of material. Dates are based on the Command’s schedule and any unique requirements for training. Training is coordinated with the command through the PMA281 Training Coordinator. Training will be provided as necessary to support the operation and maintenance of new JSIPS-N equipment. This interim training utilizes existing materials, accomplishes JSIPS-N training milestones, allows for growth, includes theory and concept of operations, satisfies immediate information requirements, and satisfies requirements for manning.

e. Advanced Operation and Integration Training (phase 3). This PMA281 provided/funded training is normally conducted underway or on-site by an Operational Assist Team (OAT) and/or transit ship riders. This week long training targets previously trained personnel providing advanced end-to-end Concept of Operations training onboard ship. The OAT provides system wide task oriented training with emphasis placed on mission accomplishment in an operational environment. Coordination for this training is between the command and the PMA281 Training Coordinator. An OAT event is normally scheduled toward the end of the commands training cycle but can occur during a deployment transit. When this training is complete, personnel will be able to:

- Effectively utilize JSIPS-N functionality in support of mission accomplishment.
- Understand and execute the Imagery Life Cycle as it is supported by JSIPS-N.
- Support the PGM tasking requirements for imagery.
- Distribute imagery throughout the Strike LAN.
- Archive and retrieve imagery throughout the Strike LAN.

f. Training Pipelines. No new training pipelines are required.

g. Training, Qualification, Certification, and Proficiency (TQCP). As PTW is transitioned to the Navy's single precision point geopositioning tool, the TQCP process was developed as an interim procedure used to train and certify PTW point mensuration fleet-wide during the Inter-Deployment Training Cycle (IDTC) to ensure the high quality standards of DIWS operators was maintained throughout the fleets' transition to PTW. The TQCP process meets this goal by assembling existing procedures and applying those procedures to personnel currently assigned to afloat units with PTW. The TQCP process is stopgap in nature and is considered authoritative until superceded by a long-term solution.

TQCP's Job Qualification Requirements (JQR) includes PTW system operation (startup/shutdown/reboot), imagery management, and precision geo-positioning and products. JCA and system communication and dissemination management are included in the imagery management module of the JQR. The TQCP process provides the fleet a standardized process for training, qualification, and certification of those skills needed to conduct geo-positioning in single or multiple image combinations on PTW.

TQCP is completed in a four-phase approach.

- Phase I (basic skills) training is conducted at NMITC and/or FITCPAC. The basic skills could also be acquired through OJT.
- Phase II (basic-to-intermediate skills) focuses on those changes to operational procedures and/or system software that have been implemented since the point mensurators achieved basic skills proficiency. Also, extensive system communication segment training is conducted for the JCA. Phase II training will be given by PMA281 contractors and/or fleet Subject Matter Experts (SME).
- Phase III (advanced integrated skills) focuses on training of advanced level system skills. These skills include operational understanding of imagery lifecycle management (collection, processing, and dissemination), conducting mensuration and precision geo-positioning, target deck management, and use of the ships JSIPS-N/PTW imagery management system. Phase III training will be given by PMA281 contractors and/or fleet Subject Matter Experts (SME).

- Phase IV (evaluation and certification) is a comprehensive evaluation to test the individual's ability to conduct the full range of PTW system operations as they pertain to precision geo-positioning.

The process review and certification is conducted by the following certification authority commands: COMCARGRU ONE, COMCARGRU FOUR, COMPHIBGRU ONE, COMPHIBGRU TWO, and COMPHIBGRU THREE. Skills are evaluated during the intermediate phase of IDTC, specifically during COMPTUEX.

Proficiency must be maintained by each mensurator and be monitored by the command. The command must develop a training plan that regularly exercises the perishable skills that the certified PTW point mensurator has developed

I. ON BOARD (INSERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. The Program Office has worked with other various program offices that provide elements of JSIPS-N as GFE and with individual JSIPS-N contractors to develop CBT and On-the-Job Training (OJT) materials to support on-board proficiency training. It is not intended that CBT and OJT materials replace formal operator and maintenance training at NMITC; however, CBT and OJT materials modeled from the traditional lecture/lab materials accomplish the following:

- Provide alternative instructional strategy for correction or enhancement
- Support recurring training for operations where dedicated instructors are not available
- Improve training effectiveness and efficiency
- Available as needed for individual study or refresher training
- Provide the student with the actual feel of the software without the risk of corrupting the operational databases

CBT is being developed for PTW 4.1.1 by BAE. This CBT will be used as a familiarization with the PTW and is geared toward users of the PTW. CBT is being developed for SPF by SAIC System Engineering. This CBT will be used to familiarize/refresh operators/pilots of the operations of SPF. Currently, there is no maintenance CBT being developed.

2. Personnel Qualification Standards (PQS). PQS is a compilation of the minimum knowledge and skills for which understanding and competency must be demonstrated in order to qualify for a specific watch station, to maintain specific equipment, or to perform as a team member within a unit.

3. Job Qualification Requirements (JQR). The JSIPS-N program is using JQRs, a subset of the PQS program that enhances and covers operator specific tasks, for the qualification of the users. The currency and modular format of the JQR allows the user to select the appropriate modules to qualify to a specific job task relative to a specific software version on a

system. In addition to the PTW JQR modules that are being used in TQCP above, there are three standalone JSIPS-N JQRs covering PTW, TIS, and JCA operator functionality that have been developed and are being reviewed at the TYCOM level.

4. Other On Board/In-service Training Packages. TBD.

J. LOGISTICS SUPPORT

1. Manufacturer/Contract Numbers. Due to its CaNDI nature, several manufacturers and Government Program Offices provide hardware and software to JSIPS-N, including the following:

CONTRACT NUMBER	ITEM	MANUFACTURER
N68786-97-G-6741	PTW	BAE Systems, Inc
N68939-95-D-0004	TAC-4 Components	Hewlett Packard
F30602-96-C-0195	IESS	GDE Systems
NMA201-97-C-1064	IPL	BAE Systems, Inc
F19628-97-D-0008	TIS	Lockheed Martin
F19628-97-C-0095	CIP	NGC Electronic Sensors and Systems

2. Program Documentation

a. Operational Requirements Document number (ORD). The JSIPS-N ORD revision is in draft form dated 25 September 2002.

b. JSIPS-N User's Logistic Support Summary (ULSS). CMP Publication ULSS-PMA281-002, Revision C, dated 1 March 1999 is the current ULSS for JSIPS-N. A stand-alone JSIPS-N ULSS has been developed and is in the review/approval cycle within PMA281. This ULSS was distributed under to all CV/CVN, LHA/LHD, and AGF/LCC - applicable Type Commanders and major staffs.

c. JSIPS-N Logistics Requirement and Funding Summary (LRFS). CMP Publication LRFS-PMA281-005, Revision C, dated 1 August 1996 is the current LRFS for JSIPS-N. Due to the nature of this document, the LRFS will not generally be distributed outside of PMA281.

d. JSIPS-N Acquisition Logistics Support Plan. CMP Publication 4150/2 Volume 8, Revision E, dated 1 August 2000 is the current ALSP for JSIPS-N. This ALSP was distributed under PEOCOMPANDUAV letter 4150, Serial PMA281/038, dated 10 August 2000 to all CV/CVN, LHA/LHD, and AGF/LCC -applicable Type Commanders and major staffs.

3. Technical Data Plan. Technical documentation and technical data for JSIPS-N

hardware and software are procured through multiple contracts. Contractor developed technical manuals include System Operator's Manuals (SOM), Computer System Operator's Manuals (CSOM), Software and/or System User's Manuals (SUM), and ETM that have been developed to support the operation and maintenance of the various equipments that make up JSIPS-N. JSIPS--N ALSP, Section 7, describes technical documentation requirements, identifies technical manuals, applicable government documents, and engineering drawings.

4. Test Sets, Tools, and Test Equipment. The need for General Purpose Electronic Test Equipment (GPETE), Special Purpose Electronic Test Equipment (SPETE), and other support equipment to perform maintenance at the O-Level has largely been minimized due to the use of diagnostics software to detect, fault isolate, and diagnose LRU failures. JSIPS-N ALSP, Section 6, describes support equipment requirements and identifies applicable support equipment and materials required to perform maintenance at the O-Level. Support equipment requirements are included in the ETM.

5. Repair Parts. Permanent Interim Support is being provided through PMA281 and by the ISEA. The ISEA will provide each site with a PUK containing critical spares (single point failure), applicable tools and test equipment, initial consumable materials, and technical manuals required to support the operation and maintenance of JSIPS-N equipment.

JSIPS-N ALSP, Section 5, identifies material support dates and describes interim support requirements utilizing the FedEx support concept described previously. Additionally, Section 5 identifies applicable allowance parts lists, allowance appendix pages, and requisitioning procedures.

6. Human Systems Integration (HSI). No separate or specific HSI Plan was developed for JSIPS-N. HSI elements including Human Factors Engineering (HFE); 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 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 JSIPS-N 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 HARDMAN analysis. These data are detailed in Part I, Section I.D and Section I.H.3, and Part II, Section II.A. Future JSIPS-N 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, JSIPS-N should not introduce any additional qualitative or quantitative manpower requirements on operational forces than previous releases subject to CNO approval. Tradeoffs that reduce MPT requirements will be favored during follow-on design and development. JSIPS-N must be maintainable by the 5th percentile female and the 95th percentile male.

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 JSIPS-N in earlier years. Each ship has a unique mix of military billets defined by the specific command mission. Personnel factors are discussed in Part I, Section I.H.1 and Part II, Section II.A.

d. Training. All personnel assigned to operate and maintain the JSIPS-N equipment will require specialized training to effectively use and maintain the system. This specialized training shall consist of on-site factory training, formal training conducted at Navy and Marine Corps training commands, post installation/contractor training, and Operational Assistance Team (OAT) training provided by Mobile Training Teams and by embarked technicians. Training of JSIPS-N personnel is conducted in phases and is explained in detail in the Training Concepts section of this NTSP. Training concepts, methods, qualification and certification process requirements are defined in Part I, Section I.D.1, Section I.H.4, and Section I.J; in Part III, Section III.A; and in Part IV.

e. Health Hazards. No hazardous materials are involved in the operation and maintenance of JSIPS-N 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 JSIPS-N 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 JSIPS-N equipment or facilities.

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

i. Habitability. The JSIPS-N 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 take the form of changes to an existing SOM, CSOM, SUM, or ETM. These source materials form the basis to changes to the curriculum materials (instructor guides, trainee guides, electronic media, etc.) used by the trainers. Development contractors may use their own formatted training materials, which are then provided to JSIPS-N trainers to incorporate into their own training materials. Depending on the degree of change, PMA281 may task development contractors to provide delta training to assigned personnel. Or, PMA281 may task assigned contracted post installation and delta trainers to conduct any required delta training. Ultimately, all changes to training are paid for by the program sponsor.

K. SCHEDULES.

The Program Office maintains a Master Integrated PMA281 Installation Schedule. Copies of this schedule are available upon request from the SPAWAR Programs Office. Request should be submitted to Jim Engelke at DSN 442-8004 or commercial (215) 214-8004 or by FAX (215) 214-8109. Internet cc: mail address is: engelke@spawar.navy.mil.

Given the evolutionary nature of the JSIPS-N equipment, hardware and software development schedules, pending milestone decisions, and funding limitations, the Program Office is unable to procure and install all of the subsystems at the same time. When required, PMA281 will back fit installation of required segments during pier-side availability.

1. Installation/Delivery Schedule. The installation of JSIPS-N is complete. As new components of the JSIPS-N architecture are introduced they will be installed based on the availability of the ship. Due to the real world tempo of operations and ever changing military requirements the installation schedule is in flux. Refer to the latest Master Installation Schedule for the most up to date installation schedule.

a. CV/CVN Installations. JSIPS-N equipment installed on CV/CVN consist of the following equipment: one GENSER PTW server with one stereo and two mono client work stations, one SCI PTW server with one stereo and one monoclient workstation, one IPL, MDS, Afloat Planning System (APS), one ISS (VEXCEL), LFP, color, and text printers. TIS installs will begin in FY-03. As new equipment/upgrades are introduced they will be installed based on the PMA281 Installation Schedule.

b. LHA/LHD Installations. JSIPS-N equipment installed on LHA/LHD consists of the following equipment: one GENSER PTW server with one each stereo and mono client work stations, one SCI PTW server with one each stereo and mono client workstation (starting FY-03), one IPL, one LFP, and color, and text printers. TIS installs will begin in FY-03. As new equipment/upgrades will be installed as they are introduced, based on the PMA281 Installation Schedule.

c. AGF/LCC Installations. JSIPS-N equipment installed on AGF/LCC consists of the following equipment: one GENSER PTW, one SCI PTW, one IPL, one LFP, and color and text printers. As new equipment/upgrades will be installed as they are introduced, based on the PMA281 Installation Schedule.

2. Ready For Operational Use (RFOU) Schedule. JSIPS-N is ready for operational use on all above installation platforms. All future equipment/software installs will be RFOU upon completion of installation and operational testing. No implication is made that at the RFOU date, a unit is ready to deploy or perform as part of a Battle Group.

3. Time Required to Install at Operational Sites. Installation and checkout of the various segments can be accomplished during selected restricted availability, overhaul, or other pier side availability periods. Where possible, installations will be scheduled to coincide with installation of other Command and Control System equipment. The SPAWAR Programs Office

- Philadelphia will coordinate the installation and checkout of the JSIPS-N equipment. A typical installation consists of the following events, which are depicted, in the Installation Management Database on Lifeline:

- Hardware installation
- Hardware checkout
- Software installation for the various JSIPS-N segments
- System Acceptance Test (SAT)
- Onboard (delta) Training
- Logistics certification
- System Operational Verification Test (SOVT)

4. Foreign Military Sales (FMS) and Other Source Delivery Schedule. All FMS equipment has been delivered.

5. Training Device (TD) and Technical Training Equipment (TTE) Delivery Schedule. JSIPS-N TTE has been delivered and installed and is currently being used. As new equipment is introduced the installation/delivery will be reflected in the Master Integrated PMA281 Installation Schedule.

L. GOVERNMENT FURNISHED EQUIPMENT (GFE) AND CONTRACTOR FURNISHED EQUIPMENT (CFE) TRAINING REQUIREMENTS. NA

M. RELATED NTSPs, TEEP, AND OTHER APPLICABLE DOCUMENTS

DOCUMENT/NTSP TITLE	DOCUMENT or NTSP NUMBER	PDA CODE	STATUS
APS NTSP	NTP-A00-9001C		Approved Oct 98
NAVMPS NTSP	N88-NTSP-A-50-9301D/A		Approved Jul 01
TMPC/CMSA NTSP	N86-NTSP-A-80-9901		Approved Dec 00
TMPC/CMSA NTSP	N76-NTSP-A-80-0301		Draft Jan 03

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the JSIPS-N 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

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

SOURCE OF SCHEDULE: PMA 281

DATE: Jan 2003

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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
OPERATIONAL ACTIVITIES - USN							
AGF 3, USS LaSalle	07172	1	0	0	0	0	0
CV 67, USS John F Kennedy	03367	1	0	0	0	0	0
CVN 65, USS Enterprise	03365	1	0	0	0	0	0
CVN 69, USS Dwight D Eisenhower	03369	1	0	0	0	0	0
CVN 71, USS Theodore Roosevelt	21247	1	0	0	0	0	0
CVN 73, USS George Washington	21412	1	0	0	0	0	0
CVN 75, USS Harry S Truman	21853	1	0	0	0	0	0
CVN 76, USS Ronald Reagan	22178	1	0	0	0	0	0
LCC 20, USS Mount Whitney	20001	1	0	0	0	0	0
LHA 2, USS Saipan	20632	1	0	0	0	0	0
LHA 4, USS Nassau	20725	1	0	0	0	0	0
LHD 1, USS Wasp	21560	1	0	0	0	0	0
LHD 3, USS Kearsarge	21700	1	0	0	0	0	0
LHD 5, USS Bataan	21879	1	0	0	0	0	0
LHD 7, USS Iwo Jima	23027	1	0	0	0	0	0
CV 63, USS Kitty Hawk	03363	1	0	0	0	0	0
CV 64, USS Constellation	03364	1	0	0	0	0	0
CVN 68, USS Nimitz	03368	1	0	0	0	0	0
CVN 70, USS Carl Vinson	20993	1	0	0	0	0	0
CVN 72, USS Abraham Lincoln	21297	1	0	0	0	0	0
CVN 74, USS John C Stennis	21847	1	0	0	0	0	0
LCC 11, USS Coronado	07194	1	0	0	0	0	0
LCC 19, USS Blue Ridge	05840	1	0	0	0	0	0
LHA 1, USS Tarawa	20550	1	0	0	0	0	0
LHA 3, USS Belleau Wood	20633	1	0	0	0	0	0
LHA 5, USS Peleliu	20748	1	0	0	0	0	0
LHD 2, USS Essex	21533	1	0	0	0	0	0
LHD 4, USS Boxer	21808	1	0	0	0	0	0
LHD 6, USS BonHomme Richard	22202	1	0	0	0	0	0
NSAWC Fallon	49390	1	0	0	0	0	0
TOTAL:		30	0	0	0	0	0
OPERATIONAL ACTIVITIES - USMC							
Marine Corp Forces Atlantic	00001	1	0	0	0	0	0
Marine Corp Forces Okinawa	00003	1	0	0	0	0	0
Marine Corp Forces Pacific	00002	1	0	0	0	0	0
TOTAL:		3	0	0	0	0	0
FLEET SUPPORT ACTIVITIES - USN							
AOSDLANT	39492	1	0	0	0	0	0
COMFIFTHFLT	57045	1	0	0	0	0	0
NMITC	0387A	1	0	0	0	0	0

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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
Strike Fighter Weapons School	00000	1	0	0	0	0	0
AOSDPAC	39493	1	0	0	0	0	0
FITCPAC	0388A	1	0	0	0	0	0
Washington Planning Center	00032	1	0	0	0	0	0
TOTAL:		7	0	0	0	0	0

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USN					
AGF 3, USS LaSalle, 07172					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CV 67, USS John F Kennedy, 03367					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 65, USS Enterprise, 03365					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 69, USS Dwight D Eisenhower, 03369					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 71, USS Theodore Roosevelt, 21247					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 73, USS George Washington, 21412					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
CVN 75, USS Harry S Truman, 21853					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 76, USS Ronald Reagan, 22178					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LCC 20, USS Mount Whitney, 20001					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHA 2, USS Saipan, 20632					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHA 4, USS Nassau, 20725					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHD 1, USS Wasp, 21560					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
LHD 3, USS Kearsarge, 21700					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHD 5, USS Bataan, 21879					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHD 7, USS Iwo Jima, 23027					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CV 63, USS Kitty Hawk, 03363					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CV 64, USS Constellation, 03364					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 68, USS Nimitz, 03368					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
CVN 70, USS Carl Vinson, 20993					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 72, USS Abraham Lincoln, 21297					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
CVN 74, USS John C Stennis, 21847					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LCC 11, USS Coronado, 07194					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LCC 19, USS Blue Ridge, 05840					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHA 1, USS Tarawa, 20550					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
LHA 3, USS Belleau Wood, 20633					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHA 5, USS Peleliu, 20748					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHD 2, USS Essex, 21533					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHD 4, USS Boxer, 21808					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
LHD 6, USS BonHomme Richard, 22202					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
NSAWC Fallon, 49390					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USMC					
Marine Corp Forces Atlantic, 00001					
USMC	0	4	GYSGT	0421	
ACTIVITY TOTAL:	0	4			
Marine Corp Forces Okinawa, 00003					
USMC	0	2	GYSGT	0421	
ACTIVITY TOTAL:	0	2			
Marine Corp Forces Pacific, 00002					
USMC	0	4	GYSGT	0421	
ACTIVITY TOTAL:	0	4			
FLEET SUPPORT ACTIVITIES - USN					
AOSDLANT, 39492					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
COMFIFTHFLT, 57045					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
NMITC, 0387A					
ACDU	1	0	03	1630	
	0	4	PO1	1654	9502
	0	2	PO1	2720	9502
	0	2	PO1	3910	9502
	0	5	PO1	3923	9502
	0	1	PO2	0000	
	0	2	PO2	2720	
	0	1	PO2	3910	
	0	1	PO2	3923	
	0	1	C	3910	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
AR	0	1	GYSGT	0421	
ACTIVITY TOTAL:	1	20			
AOSDPAC, 39493					
ACDU	1	0	03	1630	
	0	3	PO2	3926	3910
	0	2	PO3	1654	
	0	2	PO3	2720	
ACTIVITY TOTAL:	1	7			
FITCPAC, 0388A					
ACDU	0	1	PO1	2735	2720
	0	2	PO1	3923	3910
	0	1	PO2	1654	1677
	0	1	PO2	3910	9502
ACTIVITY TOTAL:	0	5			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USN OPERATIONAL ACTIVITIES - ACDU														
03	1630		30		0		0		0		0		0	
PO2	3926	3910		90		0	0	0	0	0	0	0	0	0
PO3	1654			60		0	0	0	0	0	0	0	0	0
PO3	2720			60		0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - USMC														
GYSGT	0421			10		0		0		0		0		0
USN FLEET SUPPORT ACTIVITIES - ACDU														
03	1630		4		0		0		0		0		0	
PO1	1654	9502		4		0	0	0	0	0	0	0	0	0
PO1	2720	9502		2		0	0	0	0	0	0	0	0	0
PO1	2735	2720		1		0	0	0	0	0	0	0	0	0
PO1	3910	9502		2		0	0	0	0	0	0	0	0	0
PO1	3923	3910		2		0	0	0	0	0	0	0	0	0
PO1	3923	9502		5		0	0	0	0	0	0	0	0	0
PO2	0000			1		0	0	0	0	0	0	0	0	0
PO2	1654	1677		1		0	0	0	0	0	0	0	0	0
PO2	2720			2		0	0	0	0	0	0	0	0	0
PO2	3910			1		0	0	0	0	0	0	0	0	0
PO2	3910	9502		1		0	0	0	0	0	0	0	0	0
PO2	3923			1		0	0	0	0	0	0	0	0	0
PO2	3926	3910		9		0	0	0	0	0	0	0	0	0
PO3	1654			6		0	0	0	0	0	0	0	0	0
PO3	2720			6		0	0	0	0	0	0	0	0	0
C	3910			1		0	0	0	0	0	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - AR														
GYSGT	0421			1		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SUMMARY TOTALS:													
USN OPERATIONAL ACTIVITIES - ACDU													
		30	210	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - USMC													
		10		0		0		0		0		0	
USN FLEET SUPPORT ACTIVITIES - ACDU													
		4	45	0	0	0	0	0	0	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - AR													
			1		0		0		0		0		0
GRAND TOTALS:													
USN - ACDU													
		34	255	0	0	0	0	0	0	0	0	0	0
USN - AR													
			1		0		0		0		0		0
USMC - USMC													
			10		0		0		0		0		0

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
FLEET SUPPORT ACTIVITIES - USN					
FITCPAC, 0388A, FY05 Increment					
ACDU	0	1	PO1	2735	2720
ACTIVITY TOTAL:	0	1			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USN FLEET SUPPORT ACTIVITIES - ACDU													
PO1	2735 2720		0		0		0		-1		0		0
SUMMARY TOTALS:													
USN FLEET SUPPORT ACTIVITIES - ACDU													
			0		0		0		-1		0		0
GRAND TOTALS:													
USN - ACDU													
			0		0		0		-1		0		0

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

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: FITCPAC San Diego, San Diego, CA, 0388A

INSTRUCTOR BILLETS

USN

PO1	2735	2720	0	1	0	1	0	1	0	0	0	0	0	0
PO1	3923	3910	0	2	0	2	0	2	0	2	0	2	0	2
PO2	1654	1677	0	1	0	1	0	1	0	1	0	1	0	1
PO2	3910	9502	0	1	0	1	0	1	0	1	0	1	0	1

TOTAL: 0 5 0 5 0 5 0 4 0 4 0 4 0 4

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

INSTRUCTOR BILLETS

USN

PO1	1654	9502	0	4	0	4	0	4	0	4	0	4	0	4
PO1	2720	9502	0	2	0	2	0	2	0	2	0	2	0	2
PO1	3910	9502	0	2	0	2	0	2	0	2	0	2	0	2
PO1	3923	9502	0	5	0	5	0	5	0	5	0	5	0	5
PO2	2720		0	2	0	2	0	2	0	2	0	2	0	2
PO2	3910		0	1	0	1	0	1	0	1	0	1	0	1
PO2	3923		0	1	0	1	0	1	0	1	0	1	0	1

TOTAL: 0 17 0 17 0 17 0 17 0 17 0 17 0 17

TRAINING ACTIVITY, LOCATION, UIC: NSAWC, Strike Fighter Weapons School, 00000

INSTRUCTOR BILLETS

USN

PO1	3910	9502	0	1	0	1	0	1	0	1	0	1	0	1
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TOTAL: 0 1 0 1 0 1 0 1 0 1 0 1 0 1

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Dam Neck, VA, 0387A													
	USN	0.5	23.4	0.2	8.4	0.2	8.4	0.2	8.4	0.2	8.4	0.2	8.4
FITCPAC San Diego, San Diego, CA, 0388A													
	USN	0.5	1.4	0.2	0.5	0.2	0.5	0.2	0.5	0.2	0.5	0.2	0.5
SUMMARY TOTALS:													
	USN	1.0	24.8	0.4	8.9	0.4	8.9	0.4	8.9	0.4	8.9	0.4	8.9
GRAND TOTALS:													
		1.0	24.8	0.4	8.9	0.4	8.9	0.4	8.9	0.4	8.9	0.4	8.9

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY03 +/- CUM	FY04 +/- CUM	FY05 +/- CUM	FY06 +/- CUM	FY07 +/- CUM
------------------	---------------	---------------	----------------	------------------	-----------------	-----------------	-----------------	-----------------

a. OFFICER - USN

Operational Billets ACDU and TAR													
03	1630		30	0	30	0	30	0	30	0	30	0	30
Fleet Support Billets ACDU and TAR													
03	1630		4	0	4	0	4	0	4	0	4	0	4
Chargeable Student Billets ACDU and TAR													
			1	0	1	0	1	0	1	0	1	0	1

TOTAL USN OFFICER BILLETS:

Operational			30	0	30	0	30	0	30	0	30	0	30
Fleet Support			4	0	4	0	4	0	4	0	4	0	4
Chargeable Student			1	0	1	0	1	0	1	0	1	0	1

b. ENLISTED - USN

Operational Billets ACDU and TAR													
PO2	3926	3910	90	0	90	0	90	0	90	0	90	0	90
PO3	1654		60	0	60	0	60	0	60	0	60	0	60
PO3	2720		60	0	60	0	60	0	60	0	60	0	60
Fleet Support Billets ACDU and TAR													
PO1	1654	9502	4	0	4	0	4	0	4	0	4	0	4
PO1	2720	9502	2	0	2	0	2	0	2	0	2	0	2
PO1	2735	2720	1	0	1	0	1	-1	0	0	0	0	0
PO1	3910	9502	2	0	2	0	2	0	2	0	2	0	2
PO1	3923	3910	2	0	2	0	2	0	2	0	2	0	2
PO1	3923	9502	5	0	5	0	5	0	5	0	5	0	5
PO2	0000		1	0	1	0	1	0	1	0	1	0	1
PO2	1654	1677	1	0	1	0	1	0	1	0	1	0	1
PO2	2720		2	0	2	0	2	0	2	0	2	0	2
PO2	3910		1	0	1	0	1	0	1	0	1	0	1
PO2	3910	9502	1	0	1	0	1	0	1	0	1	0	1
PO2	3923		1	0	1	0	1	0	1	0	1	0	1
PO2	3926	3910	9	0	9	0	9	0	9	0	9	0	9
PO3	1654		6	0	6	0	6	0	6	0	6	0	6
PO3	2720		6	0	6	0	6	0	6	0	6	0	6
C	3910		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY03		FY04		FY05		FY06		FY07	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM

Staff Billets ACDU and TAR

PO1	1654	9502	4	0	4	0	4	0	4	0	4	0	4
PO1	2720	9502	2	0	2	0	2	0	2	0	2	0	2
PO1	2735	2720	1	0	1	0	1	-1	0	0	0	0	0
PO1	3910	9502	3	0	3	0	3	0	3	0	3	0	3
PO1	3923	3910	2	0	2	0	2	0	2	0	2	0	2
PO1	3923	9502	5	0	5	0	5	0	5	0	5	0	5
PO2	1654	1677	1	0	1	0	1	0	1	0	1	0	1
PO2	2720		2	0	2	0	2	0	2	0	2	0	2
PO2	3910		1	0	1	0	1	0	1	0	1	0	1
PO2	3910	9502	1	0	1	0	1	0	1	0	1	0	1
PO2	3923		1	0	1	0	1	0	1	0	1	0	1

Chargeable Student Billets ACDU and TAR

	25	-16	9	0	9	0	9	0	9	0	9	0	9
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TOTAL USN ENLISTED BILLETS:

Operational	210	0	210	0	210	0	210	0	210	0	210	0	210
Fleet Support	45	0	45	0	45	-1	44	0	44	0	44	0	44
Staff	23	0	23	0	23	-1	22	0	22	0	22	0	22
Chargeable Student	25	-16	9	0	9	0	9	0	9	0	9	0	9

c. OFFICER - USMC

Not Applicable

d. ENLISTED - USMC

Operational Billets USMC and AR

GYSGT	0421		10	0	10	0	10	0	10	0	10	0	10
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Fleet Support Billets USMC and AR

GYSGT	0421		1	0	1	0	1	0	1	0	1	0	1
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TOTAL USMC ENLISTED BILLETS:

Operational	10	0	10	0	10	0	10	0	10	0	10	0	10
Fleet Support	1	0	1	0	1	0	1	0	1	0	1	0	1

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

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

COURSE LENGTH: 5.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.10

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Dam Neck, VA	USN	ACDU		24		24		24		24		24
		TOTAL:		24		24		24		24		24

CIN, COURSE TITLE: A-150-0991, Strike Warfare Intelligence Analyst

COURSE LENGTH: 7.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.14

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Dam Neck, VA	USN	ACDU		36		36		36		36		36
		TOTAL:		36		36		36		36		36

CIN, COURSE TITLE: K-243-0001, Intelligence Team Trainer Pacific

COURSE LENGTH: 1.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
FITCPAC San Diego, San Diego, CA	USN	ACDU		36		36		36		36		36
		ACDU	11		11		11		11		11	
		TOTAL:	11	36	11	36	11	36	11	36	11	36

CIN, COURSE TITLE: A-243-0008, Atlantic Intelligence Strike Team Trainer

COURSE LENGTH: 1.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Dam Neck, VA	USN	ACDU		36		36		36		36		36
		ACDU	11		11		11		11		11	
		TOTAL:	11	36	11	36	11	36	11	36	11	36

CIN, COURSE TITLE: A-243-1956, Afloat Imagery Manager

COURSE LENGTH: 2.2 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.04

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NMITC, Dam Neck, VA	USN	ACDU		36		36		36		36		36
		TOTAL:		36		36		36		36		36

PART III. TRAINING REQUIREMENTS

The following elements are not affected by the JSIPS-N 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

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	24		24		24		24		24	ATIR
	22		22		22		22		22	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: A-150-0991, Strike Warfare Intelligence Analyst
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	36		36		36		36		36	ATIR
	32		32		32		32		32	Output
	4.4		4.4		4.4		4.4		4.4	AOB
	4.4		4.4		4.4		4.4		4.4	Chargeable

CIN, COURSE TITLE: K-243-0001, Intelligence Team Trainer Pacific
TRAINING ACTIVITY: FITCPAC San Diego
LOCATION, UIC: San Diego, CA, 0388A

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	36		36		36		36		36	ATIR
	32		32		32		32		32	Output
	0.5		0.5		0.5		0.5		0.5	AOB
	0.5		0.5		0.5		0.5		0.5	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: A-243-0008, Intelligence Strike Team Trainer
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	36		36		36		36		36	ATIR
	32		32		32		32		32	Output
	0.5		0.5		0.5		0.5		0.5	AOB
	0.5		0.5		0.5		0.5		0.5	Chargeable

CIN, COURSE TITLE: A-243-1956, Afloat Imagery Manager
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	36		36		36		36		36	ATIR
	32		32		32		32		32	Output
	1.4		1.4		1.4		1.4		1.4	AOB
	1.4		1.4		1.4		1.4		1.4	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the JSIPS-N, 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

IV.A. TRAINING HARDWARE

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

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	PC Workstation Mono Client	1	Jan 02	GFE	Onboard
003	Tera Byte IPL	1	Jan 02	GFE	Onboard
028	PTW Server	1	Jan 01	GFE	Onboard
029	TIS	1	Jul 03	GFE	Onboard
050	JSIPS-N Phase Two Peripheral Rack	1	Jan 02	GFE	Onboard
051	Vexcel Scanner	1	Jan 02	GFE	Onboard

CIN, COURSE TITLE: A-150-0991, Strike Warfare Intelligence Analyst

TRAINING ACTIVITY: NMITC

LOCATION, UIC: Dam Neck, VA, 0387A

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	PC Workstation Stereo Client	17	Jan 02	GFE	Onboard
002	PC Workstation Mono Client	6	Jan 02	GFE	Onboard
028	PTW Server	2	Jan 02	GFE	Onboard

CIN, COURSE TITLE: K-243-0001, Intelligence Team Trainer Pacific

TRAINING ACTIVITY: FITCPAC San Diego

LOCATION, UIC: San Diego, CA, 0388A

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	PC Workstation Stereo Client	1	Jan 02	GFE	Onboard
002	PC Workstation Mono Client	3	Jan 02	GFE	Onboard
0025	NT PC	1	Jan 02	GFE	Onboard
0032	Flat screen Monitor	12	Jan 02	GFE	Onboard
004	SCI JOTS 1 UNIX Server	1	Jan 02	GFE	Onboard

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

005	SCI JOTS 19/12 UNIX Server	1	Jan 02	GFE	Onboard
006	GENSER JOTS 1 UNIX Server	1	Jan 02	GFE	Onboard
007	GENSER JOTS 14 UNIX Server	1	Jan 02	GFE	Onboard
008	GENSER JOTS 19/12 Server	1	Jan 02	GFE	Onboard
009	SCI NT PDC Server	1	Jan 02	GFE	Onboard
010	SCI NT BDC Server	1	Jan 02	GFE	Onboard
011	GENSER NT PDC Server	1	Jan 02	GFE	Onboard
012	GENSER BDC Server	1	Jan 02	GFE	Onboard
013	SCI GCCS-M UNIX Workstation (TAC-4)	2	Jan 02	GFE	Onboard
014	SCI GCCS-M UNIX Workstation (TAC-3)	1	Jan 02	GFE	Onboard
015	SCI GCCS-M NT Workstation	3	Jan 02	GFE	Onboard
016	GENSER Gale Lite (PC)	1	Jan 02	GFE	Onboard
017	SCI Gale Lite (PC)	1	Jan 02	GFE	Onboard
018	TRS/STRED (PC)	2	Jan 02	GFE	Onboard
019	Radiant Mercury Sanitizer	1	Jan 02	GFE	Onboard
020	Asset Track Injector	1	Jan 02	GFE	Onboard
021	Repeat Message Generator PC	2	Jan 02	GFE	Onboard
022	Internal Comms Sim	22	Jan 02	GFE	Onboard
023	Smart Switch	3	Jan 02	GFE	Onboard
024	Network Printer	1	Jan 02	GFE	Onboard
026	Cabling	Var	Jan 02	GFE	Onboard
028	PTW Server	1	Jan 02	GFE	Onboard
030	Aimpoint Injector	2	Jan 02	GFE	Onboard
031	BG Comms (Microwave, VSRT, Timeplex)	1	Jan 02	GFE	Onboard
033	Universal Power Supply	8	Jan 02	GFE	Onboard
034	Peripherals (KVM, Racks, Power Strips)	Var	Jan 02	GFE	Onboard

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

CIN, COURSE TITLE: A-243-0008, Atlantic Intelligence Strike Team Trainer
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
004	SCI JOTS 1 UNIX Server	1	May 01	GFE	Onboard
005	SCI JOTS 19/12 UNIX Server	1	May 01	GFE	Onboard
006	GENSER JOTS 1 UNIX Server	1	May 01	GFE	Onboard
007	GENSER JOTS 14 UNIX Server	1	May 01	GFE	Onboard
008	GENSER JOTS 19/12 Server	1	May 01	GFE	Onboard
009	SCI NT PDC Server	1	May 01	GFE	Onboard
010	SCI NT BDC Server	1	May 01	GFE	Onboard
011	GENSER NT PDC Server	1	May 01	GFE	Onboard
012	GENSER BDC Server	1	May 01	GFE	Onboard
013	SCI GCCS-M UNIX Workstation (TAC-4)	4	May 01	GFE	Onboard
015	SCI GCCS-M NT Workstation	3	May 01	GFE	Onboard
016	GENSER Gale Lite (PC)	1	May 01	GFE	Delayed
018	TRS/STRED (PC)	2	May 01	GFE	Delayed
019	Radiant Mercury Sanitizer	1	May 01	GFE	Onboard
020	Asset Track Injector	2	May 01	GFE	Delayed
021	Repeat Message Generator PC	2	May 01	GFE	Delayed
023	Smart Switch	1	May 01	GFE	Onboard
024	Network Printer	7	May 01	GFE	Onboard
026	Cabling	Var	May 01	GFE	Onboard
035	GENSER GCCS-M UNIX Workstation	5	May 01	GFE	Delayed
036	GENSER GCCS-M NT Workstation	8	May 01	GFE	Delayed
037	GENSER Gale Lite ELINT Server	1	May 01	GFE	Delayed
038	GENSER Gale Lite ELINT Client	1	May 01	GFE	Delayed
039	Joint Deployable Intel Support System	2	May 01	GFE	Delayed

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

040	Precision Targeting Workstation (Plus)	2	May 01	CFE	Delayed
041	Combat Assessment Workstation	1	May 01	GFE	Delayed
042	Stentophone C2W Network	1	May 01	GFE	Delayed
043	TOPSCENE Mission Rehearsal	1	May 01	GFE	Delayed
044	TAMPS Server	1	May 01	GFE	Delayed
045	NIMA Product Server	1	May 01	GFE	Delayed
046	Light Table	1	May 01	GFE	Onboard
047	Unclas NT PC	3	May 01	GFE	Delayed
048	High End Scanner (Imagery Digitization)	1	May 01	GFE	Delayed
049	24 Port Concentrator/Hub	4	May 01	GFE	Delayed

CIN, COURSE TITLE: A-243-1956, Afloat Imagery Manager
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	PC Workstation Stereo Client	2	Jan 02	GFE	Onboard
002	PC Workstation Mono Client	9	Jan 02	GFE	Onboard
003	Tera Byte IPL	1	Jan 02	GFE	Onboard
027	JCA	1	Jan 02	GFE	Onboard
028	PTW Server	1	Jan 02	GFE	Onboard
029	TIS	1	Jan 02	GFE	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

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructional Media Package	2	Jan 02	Onboard
Lesson Plan	4	Jan 02	Onboard
Trainee Guide	13	Jan 02	Onboard

CIN, COURSE TITLE: A-150-0991, Strike Warfare Intelligence Analyst
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	1	Jan 02	Onboard

CIN, COURSE TITLE: K-243-0001, Intelligence Team Trainer Pacific
TRAINING ACTIVITY: FITCPAC San Diego
LOCATION, UIC: San Diego, CA, 0388A

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	1	Jan 02	Onboard

CIN, COURSE TITLE: A-243-0008, Atlantic Intelligence Strike Team Trainer
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	1	May 01	Onboard

CIN, COURSE TITLE: A-243-1956, Afloat Imagery Manager
TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA, 0387A

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Lesson Plan	3	Jan 02	Onboard
Master Test Booklet	1	Jan 02	Onboard
Trainee Guide	8	Jan 02	Onboard

IV.B.3. TECHNICAL MANUALS

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

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
VX4000 Series Users Manual	Hard copy	10	Jan 02	Onboard
VX4000 Installation and Maintenance Manual	Hard copy	10	Jan 02	Onboard
OMNI Switch 3.2 Complete Switching Systems for the Next Generation of Computers	Hard copy	10	Jan 02	Onboard
JSIPS-N-ETM-102-1 Equipment Technical Manual Maintenance Instructions Organizational for JSIPS-N	Hard copy	10	Jan 02	Onboard
JSIPS-N-ETM-102-3 Equipment Technical Manual Maintenance Instructions Organizational for JSIPS-N	Hard copy	10	Jan 02	Onboard
JSIPS-N-ETM-102-5 Equipment Technical Manual Organizational for JSIPS-N	Hard copy	10	Jan 02	Onboard
PEO(CU) S8820/3C Conventional Land Attack Tomahawk Technical Description Document	Hard copy	10	Jan 02	Onboard
TO 31DDS-DE-N-1_HW National Input Segment-Dissemination Element, Navy Hardware Manual	Hard copy	10	Jan 02	Onboard
ULSS-PMA-281-002 User's Logistic Support Summary (ULSS) for APS and JSIPS	Hard copy	10	Jan 02	Onboard

CIN, COURSE TITLE: A-243-1956, Afloat Imagery Manager
TRAINING ACTIVITY: NMITC
LOCATION, UIC : Dam Neck, VA, 0387A

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Socet Set User's Manual	Hard copy	4	Jan 02	Onboard
Matrix User's Manual	Hard copy	4	Jan 02	Onboard
PTW User's Manual	Hard copy	4	Jan 02	Onboard
IESS System User's Manual	Hard copy	4	Jan 02	Onboard
4680285B Concept of Operations	Hard copy	4	Jan 02	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
OPO	Original NTP Approved and Distributed.	Jul 92	Complete
OPO	Chair NTPC for original NTP and issued minutes and action items that resulted.	Mar 94	Complete
TSA	DIWSA Pre-Production unit installed at NMITC	Jul 94	Complete
OPO	Program manpower and training resource requirements	Jan 95	Complete
TSA	Begin initial training.	Mar 95	Complete
NAVMAC	Manpower analysis. Results reported in NAVMAC Letter 5311 Ser 412/0383 of 13 Jun 1995	Jun 95	Complete
TSA	Begin training evaluations for effectiveness.	Jul 95	Ongoing
DA	JSIPS-N Fleet introduction	Aug 95	Complete
TSA	JSIPS-N equipment installation begins on ships	Oct 95	Complete
OPTEVFOR	OPEVAL.	May 96	Complete
NMITC	Incorporated PTW into J-242-0993 and J-243-2951 courses.	Aug 98	Complete
NMITC	Incorporated JSIPS-N into ICM Course J-150-2019.	Jan 99	Complete
DA	Begin TIS ship installations	Sep 02	Ongoing
NMITC	TIS added to AIM course A-243-1956. AIM course RFT.	Mar 03	Complete
DA	Begin update of NTP to NTSP format	May 03	Ongoing
DA	TIS maintenance curriculum delivered to NMITC	Jul 03	Complete
NMITC	TIS maintenance pilot course	Aug 03	Scheduled
OPO	Develop Draft NTSP for Fleet Review	Aug 03	Complete

PART VI – DECISION ITEMS/ACTION REQUIRED

NOTE: All actions/decisions of N88-NTP-A-50-9204B are closed. Significant new actions/decisions for this NTSP are identified below.

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS

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