NAVY TRAINING SYSTEM PLAN

FOR THE

CARRIER AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT

AND

AMPHIBIOUS AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT

N88-NTSP-E-50-8502C/D

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CARRIER AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT AND AMPHIBIOUS AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT

EXECUTIVE SUMMARY

The Carrier Air Traffic Control Center Direct Altitude and Identity Readout (CATCC DAIR) and Amphibious Air Traffic Control Center Direct Altitude and Identity Readout (AATCC DAIR) systems are air traffic control identification systems that permit Air Traffic Controllers (AC) to obtain rapid positive identification and altitude data of transponder equipped aircraft and to track transponder or non-transponder equipped (via radar skin paint) aircraft. The systems are used on Aircraft Carrier (CV), Nuclear Aircraft Carrier, (CVN), Helicopter Assault Landing (LHA), and Multi Purpose Amphibious Assault (LHD) ships.

Current CATCC DAIR and AATCC DAIR systems consisting of the AN/TPX-42A(V)8, AN/TPX-42A(V)12, and AN/TPX-42A(V)13 hardware configurations are to be replaced by the AN/TPX-42A(V)14 hardware configuration. Installation of the AN/TPX-42A(V)14 hardware configuration began in Fiscal Year (FY) 97 onboard the USS Iwo Jima LHD 7. Fleet-wide installation is scheduled for completion in FY09. The AN/TPX-42A(V)14 hardware system configuration is in the Operations and Support phase of the Defense Acquisition System. The Navy Support Date and Material Support Date are both scheduled for March 2003.

The AN/TPX-42A(V)14 is operated by ACs with Navy Enlisted Classification (NEC) 6902, CATCC Controller, and 6903, AATCC Controller. The AN/TPX-42A(V)14 is maintained at two levels. Organizational level maintenance is performed by Navy Electronics Technician (ET) personnel with NEC 1592, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician. Depot level maintenance is performed at Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes, Maryland.

Initial AN/TPX-42A(V)14 system training for operators and maintainers was held during third quarter FY99 at the NAWCAD, St. Inigoes, Maryland. Follow-on CATCC operators training is scheduled to begin in April 2002 and follow-on AATCC operator training is scheduled to begin in October 2002 at the Naval Air Technical Training Center (NATTC) Pensacola, Florida. Follow-on maintenance training is scheduled to begin in October 2002 at NATTC Pensacola. Until NATTC Pensacola is on-line with AN/TPX-42(V)14 training, NAWCAD St. Inigoes is providing training for the operators and maintainers.

The installation of the AN/TPX-42A(V)14 will not change quantitative or qualitative operator manpower requirements for CV, CVN, LHA, or LHD ships. The installation of the AN/TPX-42A(V)14 will not change current quantitative maintenance manpower requirements.

However, qualitative maintenance manpower changes will occur as NEC 1568, AN/TPX-42A(V)13 Shipboard DAIR Maintenance Technician, is phased out and replaced with NEC 1592.

CARRIER AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT AND AMPHIBIOUS AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT

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CARRIER AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT AND AMPHIBIOUS AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT

LIST OF ACRONYMS

AATCC	Amphibious Air Traffic Control Center
AATCC DAIR	Amphibious Air Traffic Control Center Direct Altitude and Identity Readout
AC	Air Traffic Controller
ACDS	Advanced Combat Direction System
ACDU	Active Duty
ACP	Azimuth Change Pulse
AOB	Average Onboard
ARP	Azimuth Reference Pulse
ATIR	Annual Training Input Requirement
BIT	Built-In Test
CATCC	Carrier Air Traffic Control Center
CATCC DAIR	Carrier Air Traffic Control Center Direct Altitude and Identity Readout
CDC	Combat Direction Center
CFY	Current Fiscal Year
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief Atlantic Fleet
CINCPACFLT	Commander in Chief Pacific Fleet
CM	Corrective Maintenance
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COTS	Commercial Off-The-Shelf
CV	Aircraft Carrier
CVN	Aircraft Carrier, Nuclear
DAIR	Direct Altitude and Identity Readout
ET	Electronics Technician
FY	Fiscal Year

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LIST OF ACRONYMS

GFE	Government Furnished Equipment
IFF	Identification Friend or Foe
KCMX	Keyset Central Multiplexer
LHA	Helicopter Assault Landing Ship
LHD	Multi-Purpose Amphibious Assault Ship
MSD	Material Support Date
NA	Not Applicable
NATOPS	Naval Air Training and Operating Procedures Standardization
NATTC	Naval Air Technical Training Center
NAVAIRSYSCOM	Naval Air Systems Command
NAVICP	Naval Inventory Control Point
NAVMAC	Naval Manpower Center
NAVOSH	Navy Occupational Safety and Health
NAVPERSCOM	Naval Personnel Command
NAWCAD	Naval Air Warfare Center Aircraft Division
NEC	Navy Enlisted Classification
NTDS	Naval Tactical Data System
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPO	Office of the Chief of Naval Operations Principal Official
PALS	Precision Approach Landing System
PDA	Principal Developmental Activity
PFY	Prior Fiscal Year
PM	Preventive Maintenance
PMA	Program Manager, Air
PQS	Personnel Qualification Standards

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LIST OF ACRONYMS

RFT	Ready For Training
SDMS	Shipboard Data Multiplex System
SELRES	Selected Reserve
SPETE	Special Purpose Electronic Test Equipment
SRA	Shop Replaceable Assembly
TAR	Training and Administration of the Naval Reserve
TD	Training Device
TSA	Training Support Agency
TTE	Technical Training Equipment
VSP	Video Signal Processor
WRA	Weapon Replaceable Assembly

CARRIER AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT AND AMPHIBIOUS AIR TRAFFIC CONTROL CENTER DIRECT ALTITUDE AND IDENTITY READOUT

PREFACE

This Draft Navy Training System Plan (NTSP) for the Carrier Air Traffic Control Center Direct Altitude and Identity Readout (CATCC DAIR) and Amphibious Air Traffic Control Center Direct Altitude and Identity Readout (AATCC DAIR) is an update of the Approved CATCC DAIR and AATCC DAIR NTSP, E-50-8502B/A, dated March 2000. This NTSP reflects the latest information on the Direct Altitude and Identity Readout (DAIR) program and has been updated to comply with guidelines set forth in the Navy Training Requirements Documentation Manual. The major changes to this NTSP are as follows:

- An updated AN/TPX-42A(V)14 system installation schedule is included.
- New course *C-103-2056, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician Pipeline,* has been added.
- New Navy Enlisted Classification (NEC) 1592, AN/TPX-42A(V)14, Shipboard DAIR Maintenance Technician, awarded to personnel completing pipeline course C-103-2056 was added.
- Phase-out of NEC 1568, AN/TPX-42A(V)8, AN/TPX-42A(V)12, and AN/TPX-42A(V)13 Shipboard DAIR Maintenance Technician is addressed.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Carrier Air Traffic Control Center Direct Altitude and Identity Readout (CATCC DAIR) and Amphibious Air Traffic Control Center Direct Altitude and Identity Readout (AATCC DAIR)

2. Program Element

Training ..... 84731X and 84771X
Hardware 283100N

B. SECURITY CLASSIFICATION

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

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N785)

OPO Resource Sponsor ..... CNO (N785)

Developing Agency ..... NAVAIRSYSCOM (PMA213)

Training Agency ..... CINCLANTFLT
CINCPACFLT
CNET

Training Support Agency ..... NAVAIRSYSCOM (PMA205)

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training ..... CNO (N795)

D. SYSTEM DESCRIPTION

1. Operational Uses. The CATCC DAIR system software is for air traffic control aboard Aircraft Carrier (CV) and Nuclear Aircraft Carrier (CVN) ships, and AATCC DAIR system software is designed for air traffic control aboard Helicopter Assault Landing (LHA) and Multi Purpose Amphibious Assault (LHD) ships. Although the Identification Friend or Foe (IFF) beacon is the primary means of establishing target detection and tracking, the CATCC DAIR and AATCC DAIR systems incorporate radar track processing as a backup. Through automation, the system tracks aircraft (using beacon response), associating each with the proper identification data from the flight data stores list. As each aircraft leaves the controller's area of responsibility, its track is automatically handed off either to another Carrier Air Traffic Control Center (CATCC) or Amphibious Air Traffic Control Center (AATCC) control position, the Combat Direction Center (CDC), or Precision Approach Landing System (PALS), as appropriate. Additionally, the CATCC DAIR and AATCC DAIR systems accept ship's data such as speed, heading, position, clock time, and barometric pressure. It displays the data in tabular list form on the controllers' indicators. The final bearing is automatically computed and displayed as a vector on the indicators. CATCC and AATCC responsibility covers an area within a 50 nautical mile radius surrounding the ship.

AATCC DAIR has all the capabilities of CATCC DAIR described in the previous paragraph, with the exception of a PALS interface. In addition, AATCC DAIR also provides information such as Air Plan Lists, Mode 4 IFF capability, helicopter control points, and surface tracks. AATCC DAIR provides the dual capability of terminal control and amphibious assault missions.

2. Foreign Military Sales. Not Applicable (NA)

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The AN/TPX-42A(V)14 system configuration did not require Developmental or Operational tests. The AN/TPX-42A(V)14 is an upgrade of the AN/TPX-42A(V)8, AN/TPX-42A(V)12, and AN/TPX-42A(V)13 configurations of the system using Government Furnished Equipment (GFE) and Commercial Off-The-Shelf (COTS) hardware.

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

1. CATCC DAIR. Field Change Kits are being used to upgrade the AN/TPX-42A(V)8 and AN/TPX-42A(V)13 system configurations to the AN/TPX-42A(V)14 system configuration. This is a retrofit to existing equipment and does not constitute a system replacement.

2. AATCC DAIR. Field Change Kits are being used to upgrade the AN/TPX-42A(V)12 and AN/TPX-42A(V)13 system configurations to the AN/TPX-42A(V)14 AATCC DAIR configuration. This is a retrofit to existing equipment and does not constitute a system replacement.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The AN/TPX-42A(V)8, AN/TPX-42A(V)12, AN/TPX-42A(V)13, and AN/TPX-42A(V)14 configurations of the system are similar in function. The upgrades of the major components are intended to improve reliability and quality of the system.

a. AN/TPX-42A(V)14

(1) Data Processing Group OL-541

(a) CP-1716A Radar Target Data Processor. The CP-1716A Radar Target Data Processor detects AN/SPN-43 primary radar video signals, triggers, and azimuth data, and develops a single digital report for each operating aircraft within the range of the antenna scan. It then transfers the messages to the CP-1716 Track Processor. All operating controls, self-test controls, and indicators are located on the front panel of the equipment. The Radar Target Data Processor consists of 28 types of plug-in circuit cards and a power supply.

(b) CV-3477 Analog to Digital Converters. The CV-3477 Analog to Digital Converters accept single speed synchro voltage inputs and produce Azimuth Reference Pulses (ARP) and Azimuth Change Pulses (ACP). The four Analog to Digital Converters provide the ARP and ACP signals for two of four available radar systems and one of four IFF systems. The extra unit is in standby mode for the IFF Radar System.

(c) CP-2177 Video Signal Processor. The CP-2177 Video Signal Processor (VSP) generates target report messages once per antenna scan for each IFF transponder replying within the selected range. The target message is properly formatted and transmitted to the Signal Data Converter after the beam of the rotating antenna has passed each replying aircraft. Two VSPs are provided in the system for dual channel capability. Each unit consists of 32 types of plug-in circuit cards and a power supply. The OL-373 has been integrated into the same rack that replaces the OL-372 in the AN/TPX-42A(V)13 or AN/TPX-42A(V)14.

(2) Conversion-Switching Group OU-162

(a) AN/USQ-69B(V) Data Terminal Set. The AN/USQ-69B(V) Data Terminal Set provides a 25 line, 80 character Cathode Ray Tube display which interfaces with the AN/UYK-44. The 15-inch diagonal display tube has a self-refresh capability. The Data Terminal Set features a three-page display memory, micro program control, character protection, and character emphasis capabilities.

(b) CV-3953 Signal Data Converter. The CV-3953 Signal Data Converter has dual channel capability in transferring data to and from the AN/UYK-44(V) Data Processing Set. It interfaces the AN/UYK-44(V) with the Video Signal Processor's Frequency Shift Keyed data (no longer a function in the AN/TPX-42A(V)13), the Analog to Digital Converter's ACP data, and the time code generator signals. The Signal Data Converter consists of three types of plug-in circuit cards, an Alarm Driver assembly, and two power supplies.

(c) AN/UYK-44(V)EP/OSM Data Processing Set. The AN/UYK-44(V)EP/OSM Data Processing Set is a militarized, reconfigurable, programmable mini-computer. Two units are used for dual channel capability. Each Data Processing Set has a total memory capacity of 384K words. The AN/TPX-42A(V)14 system will use the enhanced processor version of the AN/UYK-44, which will have five times the processing power of the basic unit. The AN/UYK-44 can be installed as a separate change to the AN/TPX-42A(V)8 system, which allows the system to operate program version five, (i.e., the ability to store map lines). The system remains an AN/TPX-42A(V)8 until an AN/TPX-42A(V)14 kit is installed.

(d) SA-2497 Data Signal Switching Unit. The SA-2497 Data Signal Switching Unit provides interface switching for the Track Processor on LHAs, the Track Processor and AN/WSN-5 navigational source on LHDs, and the Track Processor on CV and CVN ships. It also provides switching between radar switchboard and AN/SPN-43 direct data in the event of a switchboard failure. The equipment room local-remote channel switch is also located on this unit. The SA-2497 is designed after the SA-2164.

(e) SA-2164 Data Signal Switching Unit. The SA-2164 Data Signal Switching Unit provides interconnection of the on-line Data Processing Set with the Keyset Central Multiplexer (KCMX) (LHA, CV, and CVN application), Shipboard Data Multiplex System (SDMS) (LHD application), Navy Tactical Data System (NTDS) (LHA application), and Advanced Combat Direction System (ACDS) (LHD, CV, and CVN application). The Data Signal Switching Unit consists of a front panel, relay assemblies, indicator lamps, interrogator set control, and a power supply.

(3) Indicator Control Group OD-220

(a) OD-220 Display Console. The OD-220 Display Console is a new cabinet design housing a 29-inch high resolution (2000 by 1536 pixels) diagonal, large screen, raster-scan display. The CATCC DAIR configuration will have five operator positions; the AATCC DAIR configuration will have eight operator positions.

(b) 506 0001E Keyboard. The 506 0001E Keyboard provides for keyboard inputs by the operator. Five or eight keyboards may be used in a typical system. The keyboard has been designed for application to the CV, CVN, LHA, and LHD missions. The keyboard is located on a shelf in front of the display on the OD-220 Display Console.

(c) 625-G2520-2 Trackball. The 625-G2520-2 Trackball assembly interfaces with the keyboard at each individual indicator. Five or eight trackballs may be used in a typical system. The trackball is located on a shelf in front of the display on the OD-220 Display Console.

(d) 512890 Writing Panel. The 512890 Writing Panel is an illuminated writing surface located on the shelf of the OD-220 Console Display.

(e) C-11618 Interrogator Set Control. The C-11618 Interrogator Set Control provides supervisor control for the selection of interrogation modes, processing

range, navigational data input source, primary or alternate radar selection, alarm indications, channel selection, and defruiter on-off switching. The Interrogator Set Control consists of a front panel assembly, a switch assembly, and two circuits cards.

(f) WordSafe Maxima Video Recorder and Reproducer. The AN/TPX-42A(V)14 has two WordSafe multi-channel magnetic tape recorders connected to the equipment to record flight operations. The WordSafe has 16 channels dedicated to video data recording and 48 channels dedicated to voice recording. Time information is internally generated and does not require a dedicated channel. Information may be recorded by operating position or individual frequency. Use of two tape transports ensures uninterrupted recording capability.

CATCC DAIR AND AATCC DAIR SYSTEM CONFIGURATIONS

AN/TPX-42A(V)8	AN/TPX-42A(V)12	AN/TPX-42A(V)13	AN/TPX-42A(V)14
OL-201 DATA PROCESSING GROUP	**OL-372 DATA PROCESSING GROUP**	**OL-541 DATA PROCESSING GROUP**	**OL-541 DATA PROCESSING GROUP**
CY-7567 Electrical Equipment Cabinet (one each)	CY-8421 Electrical Equipment Cabinet (one each)	MT-6932 Electrical Equipment Cabinet (one each)	MT-6932 Electrical Equipment Cabinet (one each)
CP-1319A Radar Target Data Processor (one each)	CP-1319A Radar Target Data Processor (one each)	CP-1716A Track Processor (one each)	CP-1716A Track Processor (one each)
CV-3477 Analog To Digital Converter (three each)	CV-3477 Analog To Digital Converter (four each)	CV-3477 Analog To Digital Converter (four each)	CV-3477 Analog To Digital Converter (four each)
CN-1506 Signal Processor (one each)	CN-1506 Signal Processor (one each)		
CP-1318 Video Signal Processor (two each)	CP-1318 Video Signal Processor (two each)	CP-2177 Video Signal Processor (two each)	CP-2177 Video Signal Processor (two each)
	MT-6439 Electrical Equipment Rack (one each)		
	CP-1716 Track Processor (one each)		
AN/USQ-69(V) Data Terminal Set (one each)	AN/USQ-69(V) Data Terminal Set (one each)	AN/USQ-69B(V) Single Channel (one each)	AN/USQ-69B(V) Single Channel (one each)

OU-131 CONVERSION SWITCHING GROUP	OU-162 CONVERSION SWITCHING GROUP	OU-162 CONVERSION SWITCHING GROUP	OU-162 CONVERSION SWITCHING GROUP
MT-4939 Electrical Equipment Rack (one each)	MT-6440 Electrical Equipment Rack (one each)	MT-6440 Electrical Equipment Rack (one each)	MT-6440 Electrical Equipment Rack (one each)
MT-4940 Electrical Equipment Rack (one each)	MT-6443 Electrical Equipment Rack (one each)	MT-6443 Electrical Equipment Rack (one each)	MT-6443 Electrical Equipment Rack (one each)
AN/USH-26(V) Signal Data Record/Repro Unit (one each)	AN/USH-26(V) Signal Data Record/Repro Unit (one each)	AN/USQ-69B(V) Dual Channel Data Terminal Set (one each)	AN/USQ-69B(V) Dual Channel Data Terminal Set (one each)
CV-3476 Signal Data Converter (one each)	CV-3953 Signal Data Converter (one each)	CV-3953 Signal Data Converter (one each)	CV-3953 Signal Data Converter (one each)
AN/UYK-44(V) Data Processing Set (two each)	AN/UYK-44(V)EP Data Processing Set (two each)	AN/UYK-44(V)EP Data Processing Set (two each)	AN/UYK-44(V) EP/OSM Data Processing Set (two each)
	SA-2497 Data Signal Switching Unit (one each)	SA-2497 Data Signal Switching Unit (one each)	SA-2497 Data Signal Switching Unit (one each)
SA-2164 Data Signal Switching Unit (one each)	SA-2164 Data Signal Switching Unit (one each)	SA-2164 Data Signal Switching Unit (one each)	SA-2164 Data Signal Switching Unit (one each)

OD-146 INDICATOR CONTROL GROUP	OD-201 INDICATOR CONTROL GROUP	OD-201 INDICATOR CONTROL GROUP	OD-220 INDICATOR CONTROL GROUP
OD-146 Display Console (five each)	OD-201 Display Console (five each)	OD-201 Display Console (five each)	OD-220 Display Console (five or eight each)
PP-7433 Power Supply (five each)	PP-7433 Power Supply (five each)	PP-7433 Power Supply (five each)	
C-10330 Indicator Control Box (five each)	C-11619 Indicator Control Box (five each)	C-11619 Indicator Control Box (five each)	

OD-146 INDICATOR CONTROL GROUP	OD-201 INDICATOR CONTROL GROUP	OD-201 INDICATOR CONTROL GROUP	OD-220 INDICATOR CONTROL GROUP
KY-844 Keyboard Controller (five each)	KY-900 Keyboard Controller (five each)	KY-900 Keyboard Controller (five each)	506 0001E Keyboard (five or eight each)
	MX-10719 Position Entry Module (five each)	MX-10719 Position Entry Module (five each)	625-G2520-2 Trackball (five or eight each)
505580-1Illuminated Writing Panel (five each)	512890-2 Illuminated Writing Panel (five each)	512890-2 Illuminated Writing Panel (five each)	Writing Panel P/N 512890 (five or eight each)
C-10329 Interrogator Set Control (one each)	C-11618 Interrogator Set Control (one each)	C-11618 Interrogator Set Control (one each)	C-11618 Interrogator Set Control (one each)
RD-379A(V)/UNH Magnetic Recorder/Reproducer (one each)	RD-379A(V)/UNH Magnetic Recorder/Reproducer (one each)	RC-3212 or WordSafe Maxima Video Recorder/Reproducer (one each)	WordSafe Maxima Video Recorder/Reproducer (one each)
Junction Box 502799-1 (four each)	Junction Box 502799-1 (four each)	Junction Box 502799-1 (four each)	Junction Box 502799-1 (four or eight each)
Junction Box 502799-100 (one each)	Junction Box 502799-100 (one each)	Junction Box 502799-100 (one each)	Junction Box 502799-100 (one each)

2. Physical Description

AN/TPX-42(V)14				
NOMENCLATURE	**HEIGHT**	**WIDTH**	**DEPTH**	**WEIGHT**
CP-1716A/TPX-42A(V) Track Processor	13.00	19.00	23.00	93
CV-3477 A/D Converter	5.25	4.25	17.75	13
CP-2177 Video Signal Processor	13.00	19.00	23.00	93
MT-6440 Electrical Cabinet	65.00	27.25	29.75	100
MT-6443 Electrical Cabinet	65.00	27.25	29.75	100
AN/USQ-69B(V) Single Channel	20.00	19.00	27.25	147
CV-3953 Signal Data Converter	22.75	19.00	20.00	128

AN/TPX-42(V)14				
NOMENCLATURE	**HEIGHT**	**WIDTH**	**DEPTH**	**WEIGHT**
AN/UYK-44(V) Data Processing Set	20.00	19.25	21.25	220
SA-2497/TPX-42A(V) Data Signal Switching Unit	9.00	23.50	49.00	58
SA-2164 Data Signal Switching Unit	9.00	23.50	19.00	58
OD-220 Display Console	49.31	30.03	32.50	695

CURRENT FLEET CONFIGURATION

ACTIVITY	**AN/TPX-42A(V)8**	**AN/TPX-42A(V)12**	**AN/TPX-42A(V)13**	**AN/TPX-42A(V)14**
CV 63 USS Kitty Hawk			X	
CV 64 USS Constellation	X			
CVN 65 USS Enterprise			X	
CVN 67 USS John F. Kennedy				X
CVN 68 USS Nimitz				X
CVN 69 USS Dwight D. Eisenhower	X			
CVN 70 USS Carl Vinson	X			
CVN 71 USS Theodore Roosevelt	X			
CVN 72 USS Abraham Lincoln				X
CVN 73 USS George Washington	X			
CVN 74 USS John C. Stennis			X	
CVN 75 USS Harry S. Truman			X	
CVN 76 USS Ronald Reagan				X
LHA 1 USS Tarawa				X
LHA 2 USS Saipan		X		
LHA 3 USS Belleau Wood			X	
LHA 4 USS Nassau			X	
LHA 5 USS Peleliu			X	
LHD 1 USS Wasp		X		
LHD 2 USS Essex		X		
LHD 3 USS Kearsarge		X		

ACTIVITY	AN/TPX-42A(V)8	AN/TPX-42A(V)12	AN/TPX-42A(V)13	AN/TPX-42A(V)14
LHD 4 USS Boxer		X		
LHD 5 USS Bataan			X	
LHD 6 USS Bonhomme Richard			X	
LHD 7 USS Iwo Jima				X
NATTC Pensacola				X

3. New Development Introduction. The AN/TPX-42A(V)14 is a new procurement for new construction LHD and CVN ships. Existing AN/TPX-42A(V)8, AN/TPX-42A(V)12, and AN/TPX-42A(V)13 systems are being upgraded to the AN/TPX-42A(V)14 configuration through the use of field change kits.

4. Significant Interfaces. The AN/TPX-42A(V)14 operates in conjunction with several shipboard radar systems and requires trigger and azimuth data so the DAIR information can be superimposed on and correlated with the primary video. The AN/TPX-42A(V)14 interfaces with the following equipment:

- AN/UPX-37 Digital Interrogator
- ACDS
- NTDS
- KCMX
- PALS
- AN/USQ-82(V) Shipboard Data Multiplex System
- AN/SPN-43 Series Radar System and Alternate Radar Sources
- AN/UPX-23, AN/UPX-25, AN/UPX-27 IFF Interrogators
- RD-379A/UNH Recorder-Reproducer and SG-1064/U Time Code Generator
- SB-1505, SB-4149, SB-4229 Radar Switchboards

5. New Features, Configurations, or Material. The AN/TPX-42A(V)14 configuration improves on the performance of the predecessor systems through the introductions of the following new features:

- Improved IFF processor increases target capacities from 200 to more than 800 per scan
- Radar track processor with 200 tracks and scan capability
- IFF and radar track correlation
- Sixty percent faster refresh rate on the indicators with 50 percent greater symbol and data display capacity
- Enhanced AN/UYK-44 computer with 68040 microprocessor based processing power

- Quick action key sequences
- Expanded ACDS interface
- Four versus three navigational sources
- Elimination of the old IFF Normal-Emergency switch and its restrictions
- Stiff stick replaced by a trackball
- Virtual elimination of “coasting” tracks through better processors and improved tracking software algorithms
- Improved hardware design for better uptime and easier maintainability
- A track can be initiated and maintained on skin paint, IFF position data only, Mode 1, Mode C, Mode 3, and Mode 2, or any combination of the same

H. CONCEPTS

1. Operational Concept. The CATCC DAIR and AATCC DAIR systems are air traffic control systems in which an operator or team of operators control air traffic via the display devices. Operation includes gathering and assembling information for air traffic within a given area. AATCC DAIR system operators are Air Traffic Controllers (AC) with NEC 6903. The operators of the CATCC DAIR system are personnel in the AC rating with NEC 6902.

2. Maintenance Concept. The maintenance concept for the AN/TPX-42(V)14 is based on two levels of maintenance, organizational and depot. No intermediate level maintenance is required.

a. Organizational. Organizational level maintenance for AATCC DAIR and CATCC DAIR consists of using Built-In Test (BIT) to isolate faults, system operational checks, alignments, adjustments, and repairs. Repairs are made by isolating discrete chassis components, modules, or digital circuit cards, and replacing the failed items.

(1) Preventive Maintenance. Preventive Maintenance (PM) is performed in accordance with Maintenance Requirement Cards and maintenance instruction manuals prepared for the system. PM consists of inspection, cleaning, lubricating, pressurization checks, calibration, and operational checks.

(2) Corrective Maintenance. Corrective Maintenance (CM) consists of fault isolation of Weapon Replaceable Assemblies (WRA) and Shop Replaceable Assemblies (SRA) using BIT equipment and special purpose electronic test equipment. CM also includes removal and replacement of WRAs and SRAs, and operational test to verify repairs.

b. Intermediate. NA

c. Depot. Depot level maintenance responsibilities include restoration of repairables that are beyond the organizational level capability, including inspection, test, repair, modification, alteration, modernization, conversion, overhaul, reclamation, or rebuilding of parts, assemblies, subassemblies, components, and equipment. Common DAIR items (common to the

AN/TPX-42A(V)5 DAIR) will be repaired at the Sacramento Air Logistics Center, McClellan Air Force Base, California, under a joint task agreement. Depot level maintenance is performed at the Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes, Maryland.

d. Interim Maintenance. Mobile Technical Units are and will be providing technical assistance to the organizational level technicians. Engineering technical services are available through NAWCAD St. Inigoes on an on-call basis.

e. Life Cycle Maintenance Plan. The AATCC DAIR and CATCC DAIR have no established Life Cycle Maintenance Plan. The AATCC DAIR and CATCC DAIR are maintained through scheduled and unscheduled inspections until the components become unserviceable.

3. Manning Concept. ACs with NEC 6902 or 6903 operate the AN/TPX-42A(V)14. The installation of the AN/TPX-42A(V)14 will not change quantitative or qualitative operator manpower requirements for CV, CVN, LHA, or LHD ships. Navy Electronics Technician (ET) personnel maintain shipboard DAIR systems. The installation of the AN/TPX-42A(V)14 will not change current quantitative maintenance manpower requirements. However, qualitative maintenance manpower changes will occur as NEC 1568, AN/TPX-42A(V)13 Shipboard DAIR Maintenance Technician, is phased out and replaced with NEC 1592, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician.

4. Training Concept. Initial training for the AN/TPX-42A(V)14 operators, maintainers, and instructors was provided by NAWCAD St. Inigoes during first quarter Fiscal Year (FY) 98. Follow-on CATCC operator training is scheduled to begin in April 2002 and follow-on AATCC operator training is scheduled to begin in October 2002 at Naval Air Technical Training Center (NATTC) Pensacola, Florida. Follow-on maintenance training is scheduled to begin in October 2002 at NATTC Pensacola. Until NATTC Pensacola is on-line with AN/TPX-42(V)14 training, NAWCAD St. Inigoes is providing training for operators and maintainers. Maintenance personnel completing AN/TPX-42A(V)14 training at NAWCAD St. Inigoes are eligible to receive NEC 1592. Additionally, NAWCAD St. Inigoes program personnel will continue to provide AN/TPX-42A(V)14 operator and maintainer training to shipboard personnel during installation. The existing AN/TPX-42A(V)8, AN/TPX-42A(V)12, and AN/TPX-42A(V)13 training being provided in course C-103-2055 will continue until phased out in 2009.

a. Initial Training

Title	**AN/TPX-42A(V)14 Initial Operator**
Description	This course familiarizes operators with differences between the AN/TPX-42A(V)14 and AN/TPX-42A(V)8, AN/TPX-42A(V)12, and AN/TPX-42A(V)13.
Location	NAWCAD St. Inigoes
Length	5 days

RFT date FY98

TTE/TD..... AN/TPX-42A(V)14

Prerequisites ..... ° C-222-2010, Air Traffic Controller
° NEC 6902 or 6903

Title ..... AN/TPX-42A(V)14 Initial Maintenance

Description ..... This course familiarizes maintainers with differences between the AN/TPX-42A(V)14 and AN/TPX-42A(V)8, AN/TPX-42A(V)12, and AN/TPX-42A(V)13.

Location ..... NAWCAD St. Inigoes

Length ..... 19 days

RFT date FY99

TTE/TD..... AN/TPX-42A(V)14

Prerequisites ..... ° A-100-0138, Electronics Technician Core A School
° A-100-0140, Electronics Technician Strand A School
° NEC 1568

b. Follow-on Training

Title ..... AN/TPX-42A(V)13 Shipboard DAIR Maintenance Technician Pipeline

CIN C-103-2055

Model Manager ... NATTC Pensacola

Description ..... This course provides training to the ET, including:

° AN/TPX-42A(V)8, AN/TPX-42A(V)12 and AN/TPX-42A(V)13 DAIR Systems Troubleshooting
° OL-372 Data Processing Group Maintenance
° OL-541 Data Processing Group Maintenance
° OU-162 Conversion Switching Group Maintenance
° OD-201 Indicator Control Group Maintenance

Upon completion, the student will be able to perform organizational level maintenance of the AN/TPX-42A(V)12 and AN/TPX-42A(V)13 DAIR systems under limited supervision.

Location ..... NATTC Pensacola

Length ..... 117 days

RFT date ..... Currently available

Skill identifier..... ET 1568

TTE/TD..... Refer to element IV.A.1

Prerequisite..... ° A-100-0138, Electronics Technician Core A School
° A-100-0140, Electronics Technician Strand A School

Title ..... Carrier Air Traffic Control Center Operator

CIN C-222-2012

Model Manager ... NATTC Pensacola

Description ..... This course provides training to the prospective CATCC operator, including:

- ° The Organization, Directives, Rules, Procedures, and Phraseology Related to CATCC
- ° Shipboard Organization and Interrelations
- ° Operational Directives
- ° Carrier Naval Air Training and Operating Procedures Standardization (CV NATOPS)
- ° CATCC Doctrine, Operation Orders, and Daily Air Plans
- ° CATCC Radar
- ° DAIR System
- ° Internal and External Communications
- ° Informational Display System
- ° Duties, Responsibilities, and Skill Requirements Associated with the Operational and Controller Positions in the CATCC
- ° CATCC Controller and Status Board Keeper Watch Station Operations Under Simulated Operational Conditions

Upon completion, the student will be qualified to perform functions under direct supervision in a CATCC that lead to completion of Personnel Qualification Standards (PQS) for a CATCC Watch Stander.

Location ..... NATTC Pensacola

Length ..... 42 days

RFT date ..... Currently available. April 2002 with the AN/TPX-42A(V)14 configuration.

Skill identifier..... AC 6902

TTE/TD..... Refer to elements IV.A.1 and IV.A.2

Prerequisites .....
- ° AC Rating
- ° C-222-2010, Air Traffic Controller Class A1
- ° Current NAVMED 6410/2 Clearance Notice (Aeronautical) signed by a Naval Flight Surgeon

Title ..... Amphibious Air Traffic Control Center Operations

CIN C-222-2019

Model Manager ... NATTC Pensacola

Description ..... This course provides training to the prospective AATCC operator, including:

- ° Organization, Directives, Rules, Procedures, and Phraseology Related to AATCC
- ° Amphibious Air Operations
- ° Amphibious Task Force Organization and Command Relationships
- ° Tactical Air Control Squadron Operations and their Relationship to Operations in an AATCC
- ° Operations Control Division Responsibility for Equipment and Pre-Launch Brief
- ° Publications, Charts, and Messages Used During Amphibious Air Operations
- ° Publication and Use of the Daily Air Plan
- ° AATCC Watch Station Duties and Responsibilities
- ° Air Traffic Control Doctrine
- ° Departure, Assault, and Recovery Procedures for Both Helicopter and Vertical/Short Take Off and Landing During Case I, II, and III Operations
- ° AATCC Radar
- ° DAIR System
- ° Status Boards
- ° AATCC Watch Station and System Operations Functions Under Simulated Operational Conditions

Upon completion, the student will be qualified to perform functions under direct supervision in an AATCC that lead to the completion of PQS for an AATCC Watch Stander.

Location	NATTC Pensacola
Length	40 days
RFT date	Currently available. October 2002 with the AN/TPX-42A(V)14 configuration.
Skill identifier	AC 6903
TTE/TD	Refer to elements IV.A.1 and IV.A.2
Prerequisites	° AC Rating ° C-222-2010, Air Traffic Controller Class A1 ° Current NAVMED 6410/2 Clearance Notice (Aeronautical) signed by a Naval Flight Surgeon

Title	**AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician Pipeline**
CIN	C-103-2056
Model Manager ...	NATTC Pensacola
Description	This course provides training to the ET, including: ° AN/TPX-42A(V)14 DAIR Systems Troubleshooting ° OJ-314(V) FSC MOD-25 Maintenance ° OL-541 Data Processing Group Maintenance ° OU-162 Conversion Switching Group Maintenance ° OD-220 Indicator Control Group Maintenance Upon completion, the student will be able to perform organizational level maintenance of the AN/TPX-42A(V)14 DAIR system under limited supervision.
Location	NATTC Pensacola
Length	82 days
RFT date	October 2002
Skill identifier.....	ET 1592
TTE/TD.....	Refer to element IV.A.1
Prerequisites	° A-100-0138, Electronics Technician Core A School ° A-100-0140, Electronics Technician Strand A School

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
ET 1568 ET 1592	A-100-0138, Electronics Technician Core A School A-100-0140, Electronics Technician Strand A School
AC 6902 AC 6903	C-222-2010, Air Traffic Controller

d. Training Pipelines. NA

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. Each ship has a proficiency training program for AC personnel assigned to the Air Traffic Control Center that has been tailored to encompass specific procedures unique to that platform's mission.

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance Training Continuum System. NA

2. Personnel Qualification Standards. The following PQS will be revised to include applicable AN/TPX-42A(V)14 information.

PQS TITLE	PUBLICATION NUMBER
Amphibious Air Traffic Control Center (AATCC)/Helicopter Direction Center (HDC)	NAVEDTRA 43315-6B
CV/CVN Air Traffic Control Center (CATCC)	NAVEDTRA 43496-6C
CV/CVN Air Traffic Control Center (CATCC)	NAVEDTRA 43496-6C/SA

3. Other Onboard or In-Service Training Packages. NA

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00039-81-C-016J N00039-84-C-0334 N00039-84-C-0411 N00019-90-C-0219	Telephonics Corporation, Command Systems Division (formerly Eaton Corporation, Command Systems Division)	815 Broad Hollow Road Farmingdale, NY 11735
N00421-97-C-1434	BAE Systems	6500 Tracor Lane Austin, TX 78725-2050

2. Program Documentation. The User's Logistics Support for the AN/TPX-42A(V)14 Interrogator Set, ATC-ULSS-34-02, was approved in October 2001. The Maintenance Plan for the AN/TPX-42A(V)14 Interrogator Set, ATCE-MAP1-34-03, was approved in October 2001.

3. Technical Data Plan. Planned Maintenance System documentation for AATCC DAIR and CATCC DAIR has been developed by NAWCAD St. Inigoes. NAWCAD St. Inigoes has developed operator manuals for AATCC DAIR and CATCC DAIR. The technical documentation, including maintenance and troubleshooting procedures, logic flow diagrams, illustrated parts breakdown, and performance and maintenance standards for each assembly of the AATCC and CATCC DAIR systems is available in manuscript format.

4. Test Sets, Tools, and Test Equipment. The AN/TPM-32 Test Set is Special Purpose Electronic Test Equipment (SPETE) required for the CP-1318. Refer to element IV.A.1 for applicable Technical Training Equipment (TTE) for CATCC DAIR and AATCC DAIR systems.

5. Repair Parts. The CATCC DAIR and AATCC DAIR Systems will be supported through Naval Inventory Control Point (NAVICP), Mechanicsburg, Pennsylvania. The AN/TPX-42A(V)14 proposed Material Support Date (MSD) is March 2002. Common DAIR equipment is already under NAVICP support.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules

AN/TPX-42A(V)14 INSTALLATION SCHEDULE

ACTIVITY	FY01	FY02	FY03	FY04	FY05
CV 67 USS John F. Kennedy	X				
CVN 70 USS Carl Vinson		X			
CVN 71 USS Theodore Roosevelt		X			
CVN 76 USS Ronald Reagan	X				
NATTC Pensacola	X				

AN/TPX-42A(V)14 WITH FIELD CHANGE 1 INSTALLATION SCHEDULE

ACTIVITY	FY01	FY02	FY03	FY04	FY05
CVN 73 USS George Washington			X		
CVN 74 USS John C. Stennis			X		
LHD 1 USS Wasp			X		

AN/TPX-42A(V)14 WITH FIELD CHANGE 2 INSTALLATION SCHEDULE

ACTIVITY	FY04	FY05	FY06	FY07	FY08	FY09
CV 63 USS Kitty Hawk		X				
CVN 65 USS Enterprise	X					
CVN 67 USS John F. Kennedy				X		
CVN 68 USS Nimitz				X		
CVN 69 USS Dwight D. Eisenhower	X					
CVN 70 USS Carl Vinson			X			
CVN 71 USS Theodore Roosevelt		X				
CVN 72 USS Abraham Lincoln					X	
CVN 73 USS George Washington	X					
CVN 74 USS John C. Stennis		X				

ACTIVITY	FY04	FY05	FY06	FY07	FY08	FY09
CVN 75 USS Harry S. Truman			X			
CVN 76 USS Ronald Reagan			X			
CVN 77 (New Construction)		X				
LHA 1 USS Tarawa						X
LHA 2 USS Saipan						X
LHA 3 USS Belleau Wood				X		
LHA 4 USS Nassau					X	
LHA 5 USS Peleliu					X	
LHD 1 USS Wasp		X				
LHD 2 USS Essex			X			
LHD 3 USS Kearsarge	X					
LHD 4 USS Boxer				X		
LHD 5 USS Bataan				X		
LHD 6 USS Bonhomme Richard			X			
LHD 7 USS Iwo Jima						X
LHD 8 (New Construction)	X					
NATTC Pensacola	X			X		
NAWCAD St. Inigoes					X	
Integrated Combat System Test Facility						X

2. Ready For Operational Use Schedule. The AN/TPX-42A(V)14 is ready for operational use at each activity upon completion of retrofit.

3. Time Required to Install at Operational Sites. Time required to retrofit AN/TPX-42A(V)14 on ships with the AN/TPX-42A(V)8 and AN/TPX-42A(V)12 is three months. Retrofit time required on ships with AN/TPX-42A(V)13 is three weeks. Installation of Field Change 1 and Field Change 2 on ships with the AN/TPX-42A(V)14 configuration will require approximately three weeks.

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

5. Training Device and Technical Training Equipment Delivery Schedule. All AN/TPX-42A(V)14 TTE has been delivered. Refer to element IV.A.1.

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

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Navy Training Systems Plan for the AN/SPN-46(V) Automatic Carrier Landing System	E-50-8206E/A	PMA213	Approved Nov 99
Navy Training Systems Plan for the Enhanced Terminal Voice Switch	A-50-9701/A	PMA213	Approved Apr 99
Navy Training Systems Plan for the Visual Information Display System	NA	PMA213	Initial Jan 00
Navy Training Systems Plan for the AN/FSQ-204 Standard Terminal Automation Replacement System	NA	PMA213	Initial Feb 00
Navy Training Systems Plan for the AN/SSC-12 Shipboard Air Traffic Control Communications System	A-50-0003/I	PMA213	Initial Apr 01
Navy Training Systems Plan for the Common IFF Digital Transponder Program	A-50-0014/I	PMA213	Initial Aug 00
Navy Training Systems Plan for the National Airspace System Modernization Program	A-50-0011/A	PMA213	Approved Jul 00
User's Logistics Support for the AN/TPX-42A(V)14 Interrogator Set	ATC-ULSS-34-02	PMA213	Approved Oct 01
Maintenance Plan for the AN/TPX-42A(V)14 Interrogator Set	ATCE-MAP1-34-03	PMA213	Approved Oct 01

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

SOURCE OF MANPOWER: Total Force Manpower Management System **DATE:** Dec 2001
SOURCE OF SCHEDULE: Code 4.5.9.2 NAWCAD St. Inigoes **DATE:** Jan 2002

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

ACTIVITY, UIC		PFYs	CFY02	FY03	FY04	FY05	FY06
OPERATIONAL ACTIVITIES - USN							
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	21178	1	0	0	0	0	0
CVN 77 (New Construction)	23170	0	0	0	0	1	0
LHA 2 USS Saipan	20632	1	0	0	0	0	0
LHA 4 USS Nassau	10725	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
LHD 8 (New Construction)	23171	0	0	0	1	0	0
MCS 12 USS Inchon	20009	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
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
TOTAL:		26	0	0	1	1	0
FLEET SUPPORT ACTIVITIES - USN							
COMNAVSAFECEN Norfolk	48570	1	0	0	0	0	0
NATTC Pensacola	63093	1	0	0	0	0	0
NAWCAD St. Inigoes	64485	1	0	0	0	0	0
TACRON 22	09812	1	0	0	0	0	0
COMNAVAIRPAC	57025	1	0	0	0	0	0
FACSFAC Pearl Harbor	43583	1	0	0	0	0	0
FACSFAC San Diego	09528	1	0	0	0	0	0
FASOTRAGRUPAC Det Coronado	35947	1	0	0	0	0	0
NAS Lemoore	63042	1	0	0	0	0	0
NAS North Island (ALF Staff)	31466	1	0	0	0	0	0

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

ACTIVITY, UIC		PFYs	CFY02	FY03	FY04	FY05	FY06
TACRON 12 Det Sasebo, Japan	55623	1	0	0	0	0	0
TACRON 21	09807	1	0	0	0	0	0
TOTAL:		12	0	0	0	0	0

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USN					
CV 67 USS John F. Kennedy, 03367					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	26			
CVN 65 USS Enterprise, 03365					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CVN 65 USS Enterprise, 03365, FY04 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
CVN 69 USS Dwight D. Eisenhower, 03369					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CVN 69 USS Dwight D. Eisenhower, 03369, FY04 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
CVN 71 USS Theodore Roosevelt, 21247					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CVN 71 USS Theodore Roosevelt, 21247, FY02 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
CVN 73 USS George Washington, 21412					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CVN 73 USS George Washington, 21412, FY03 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
CVN 75 USS Harry S. Truman, 21853					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CVN 75 USS Harry S. Truman, 21853, FY05 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
CVN 76 USS Ronald Reagan, 21178					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1592	
	0	2	ET3	1592	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	26			
CVN 77 (New Construction), 23170, FY05 Increment					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	26			
LHA 2 USS Saipan, 20632					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1568	1419
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	14			
LHA 4 USS Nassau, 10725					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1568	1419
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	14			
LHD 1 USS Wasp, 21560					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1568	1419
	0	1	ET3	1568	
LHD 1 USS Wasp, 21560, FY03 Increment					
ACDU	0	1	ET1	1592	1419
	0	1	ET3	1592	
ACTIVITY TOTAL:	0	16			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LHD 3 USS Kearsarge, 21700					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1568	1419
	0	1	ET3	1568	
LHD 3 USS Kearsarge, 21700, FY04 Increment					
ACDU	0	1	ET1	1592	1419
	0	1	ET3	1592	
ACTIVITY TOTAL:	0	16			
LHD 5 USS Bataan, 21879					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1568	1419
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	14			
LHD 7 USS Iwo Jima, 23027					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
ACTIVITY TOTAL:	0	12			
LHD 8 (New Construction), 23171, FY04 Increment					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1592	1419
	0	1	ET3	1592	
ACTIVITY TOTAL:	0	14			
MCS 12 USS Inchon, 20009					
ACDU	0	1	ACC	6903	
TAR	0	1	AC1	6903	
	0	5	AC2	6903	
	0	2	AC3	6903	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SELRES	0	1	AC2	6903	
	0	1	AC3	6903	
ACTIVITY TOTAL:	0	11			
CV 63 USS Kitty Hawk, 03363					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CV 63 USS Kitty Hawk, 03363, FY05 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
CV 64 USS Constellation, 03364					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	26			
CVN 68 USS Nimitz, 03368					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	26			
CVN 70 USS Carl Vinson, 20993					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CVN 70 USS Carl Vinson, 20993, FY02 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
CVN 72 USS Abraham Lincoln, 21297					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	26			
CVN 74 USS John C. Stennis, 21847					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
CVN 74 USS John C. Stennis, 21847, FY03 Increment					
ACDU	0	1	ET1	1592	
	0	2	ET3	1592	
ACTIVITY TOTAL:	0	29			
LHA 1 USS Tarawa, 20550					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET2	9602	1592
	0	1	ET3	9602	1592
ACTIVITY TOTAL:	0	14			
LHA 3 USS Belleau Wood, 20633					
ACDU	0	1	ACC	6903	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET2	9602	1568
	0	1	ET3	9602	1568
ACTIVITY TOTAL:	0	14			
LHA 5 USS Peleliu, 20748					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1568	1419
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	14			
LHD 2 USS Essex, 21533					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	9602	1568
	0	1	ET3	1568	
LHD 2 USS Essex, 21533, FY06 Increment					
ACDU	0	1	ET1	9602	1592
	0	1	ET3	1592	
ACTIVITY TOTAL:	0	16			
LHD 4 USS Boxer, 21808					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	1568	1419
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	14			
LHD 6 USS Bonhomme Richard, 22202					
ACDU	0	1	ACC	6903	
	0	1	AC1	6903	
	0	7	AC2	6903	
	0	3	AC3	6903	
	0	1	ET1	9602	1568

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	ET3	1568	
LHD 6 USS Bonhomme Richard, 22202, FY06 Increment					
ACDU	0	1	ET1	9602	1592
	0	1	ET3	1592	
ACTIVITY TOTAL:	0	16			
FLEET SUPPORT ACTIVITIES - USN					
COMNAVSAFECEN Norfolk, 48570					
ACDU	0	1	ACCS	6902	
ACTIVITY TOTAL:	0	1			
NATTC Pensacola, 63093					
ACDU	0	1	ACCS	6902	9502
	0	1	ACCS	6903	9502
	0	4	ACC	6902	9502
	0	2	ACC	6903	9502
	0	16	AC1	6902	9502
	0	10	AC1	6903	9502
	0	3	AC2	6903	9502
	0	1	ETCS	1592	9502
	0	2	ETC	1592	9502
	0	2	ET1	1592	9502
ACTIVITY TOTAL:	0	42			
NAWCAD St. Inigoes, 64485					
ACDU	0	1	ACCM	6902	
	0	1	ACC	6902	
	0	1	ACC	6902	6901
ACTIVITY TOTAL:	0	3			
TACRON 22, 09812					
ACDU	0	2	ACC	6903	6904
	0	6	AC1	6903	
	0	8	AC2	6903	
	0	10	AC3	6903	
ACTIVITY TOTAL:	0	26			
COMNAVAIRPAC San Diego, 57025					
ACDU	0	1	ACCS	6902	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	1			
FACSFAC Pearl Harbor, 43583					
ACDU	0	4	AC1	6902	
ACTIVITY TOTAL:	0	4			
FACSFAC San Diego, 09528					
ACDU	0	1	ACC	6902	
ACTIVITY TOTAL:	0	1			
FASOTRAGRUPAC Det Coronado, 35947					
ACDU	0	1	ACCS	6902	
ACTIVITY TOTAL:	0	1			
NAS Lemoore, 63042					
ACDU	0	1	ACCM	6901	6902
ACTIVITY TOTAL:	0	1			
NAS North Island (ALF Staff), 31466					
ACDU	0	1	ACCM	6902	
	0	2	ACC	6902	
	0	4	AC1	6902	
	0	8	AC2	6902	
	0	7	AC3	6902	
	0	2	ACAN	6902	
ACTIVITY TOTAL:	0	24			
TACRON 12 Det Sasebo, Japan, 55623					
ACDU	0	1	AC2	6903	
ACTIVITY TOTAL:	0	1			
TACRON 21, 09807					
ACDU	0	2	ACC	6903	6904
	0	6	AC1	6903	
	0	8	AC2	6903	
	0	10	AC3	6903	
ACTIVITY TOTAL:	0	26			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
USN OPERATIONAL ACTIVITIES - ACDU													
ACCS	6902		13		0		0		0		1		0
ACC	6902		13		0		0		0		1		0
ACC	6903		13		0		0		1		0		0
AC1	6902		52		0		0		0		4		0
AC1	6903		12		0		0		1		0		0
AC2	6902		143		0		0		0		11		0
AC2	6903		84		0		0		7		0		0
AC3	6902		78		0		0		0		6		0
AC3	6903		36		0		0		3		0		0
ET1	1568		9		0		0		0		0		0
ET1	1568	1419	7		0		0		0		0		0
ET1	1592		4		2		2		2		3		0
ET1	1592	1419	0		0		1		2		0		0
ET1	9602	1568	2		0		0		0		0		0
ET1	9602	1592	0		0		0		0		0		2
ET2	9602	1568	1		0		0		0		0		0
ET2	9602	1592	1		0		0		0		0		0
ET3	1568		27		0		0		0		0		0
ET3	1592		8		4		5		6		6		2
ET3	9602	1568	1		0		0		0		0		0
ET3	9602	1592	1		0		0		0		0		0
USN OPERATIONAL ACTIVITIES - TAR													
AC1	6903		1		0		0		0		0		0
AC2	6903		5		0		0		0		0		0
AC3	6903		2		0		0		0		0		0
USN OPERATIONAL ACTIVITIES - SELRES													
AC2	6903		1		0		0		0		0		0
AC3	6903		1		0		0		0		0		0
USN FLEET SUPPORT ACTIVITIES - ACDU													
ACCM	6901	6902	1		0		0		0		0		0
ACCM	6902		2		0		0		0		0		0
ACCS	6902		3		0		0		0		0		0
ACCS	6902	9502	1		0		0		0		0		0
ACCS	6903	9502	1		0		0		0		0		0
ACC	6902		4		0		0		0		0		0
ACC	6902	6901	1		0		0		0		0		0
ACC	6902	9502	4		0		0		0		0		0
ACC	6903	6904	4		0		0		0		0		0
ACC	6903	9502	2		0		0		0		0		0
AC1	6902		8		0		0		0		0		0
AC1	6902	9502	16		0		0		0		0		0
AC1	6903		12		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 OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
AC1	6903 9502		10		0		0		0		0		0
AC2	6902		8		0		0		0		0		0
AC2	6903		17		0		0		0		0		0
AC2	6903 9502		3		0		0		0		0		0
AC3	6902		7		0		0		0		0		0
AC3	6903		20		0		0		0		0		0
ACAN	6902		2		0		0		0		0		0
ETCS	1592 9502		1		0		0		0		0		0
ETC	1592 9502		2		0		0		0		0		0
ET1	1592 9502		2		0		0		0		0		0
SUMMARY TOTALS:													
USN OPERATIONAL ACTIVITIES - ACDU			505		6		8		22		32		4
USN OPERATIONAL ACTIVITIES - TAR			8		0		0		0		0		0
USN OPERATIONAL ACTIVITIES - SELRES			2		0		0		0		0		0
USN FLEET SUPPORT ACTIVITIES - ACDU			131		0		0		0		0		0
GRAND TOTALS:													
USN - ACDU			636		6		8		22		32		4
USN - TAR			8		0		0		0		0		0
USN - SELRES			2		0		0		0		0		0

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

SOURCE OF SCHEDULE: Total Force Manpower Management System **DATE:** Dec 2001

ACTIVITY, UIC		PFYs	CFY02	FY03	FY04	FY05	FY06
OPERATIONAL ACTIVITIES - USN							
CV 64 USS Constellation	03364	0	0	1	0	0	0
TOTAL:		0	0	1	0	0	0

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USN					
CVN 65 USS Enterprise, 03365, FY04 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	3			
CVN 69 USS Dwight D. Eisenhower, 03369, FY04 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	3			
CVN 71 USS Theodore Roosevelt, 21247, FY02 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	3			
CVN 73 USS George Washington, 21412, FY03 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	3			
CVN 75 USS Harry S. Truman, 21853, FY05 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	3			
LHD 1 USS Wasp, 21560, FY03 Increment					
ACDU	0	1	ET1	1568	1419
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	2			
LHD 3 USS Kearsarge, 21700, FY04 Increment					
ACDU	0	1	ET1	1568	1419
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	2			
CV 63 USS Kitty Hawk, 03363, FY05 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	3			
CV 64 USS Constellation, 03364, FY03 Increment					
ACDU	0	1	ACCS	6902	
	0	1	ACC	6902	
	0	4	AC1	6902	
	0	11	AC2	6902	
	0	6	AC3	6902	
	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	26			
CVN 70 USS Carl Vinson, 20993, FY02 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	3			
CVN 74 USS John C. Stennis, 21847, FY03 Increment					
ACDU	0	1	ET1	1568	
	0	2	ET3	1568	
ACTIVITY TOTAL:	0	3			
LHD 2 USS Essex, 21533, FY06 Increment					
ACDU	0	1	ET1	9602	1568
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	2			
LHD 6 USS Bonhomme Richard, 22202, FY06 Increment					
ACDU	0	1	ET1	9602	1568
	0	1	ET3	1568	
ACTIVITY TOTAL:	0	2			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
USN OPERATIONAL ACTIVITIES - ACDU														
ACCS	6902			1		0		-1		0		0		0
ACC	6902			1		0		-1		0		0		0
AC1	6902			4		0		-4		0		0		0
AC2	6902			11		0		-11		0		0		0
AC3	6902			6		0		-6		0		0		0
ET1	1568			1		-2		-3		-2		-2		0
ET1	1568	1419		0		0		-1		-1		0		0
ET1	9602	1568		0		0		0		0		0		-2
ET3	1568			2		-4		-7		-5		-4		-2

SUMMARY TOTALS:

USN OPERATIONAL ACTIVITIES - ACDU														
				26		-6		-34		-8		-6		-4

GRAND TOTALS:

USN - ACDU														
				26		-6		-34		-8		-6		-4

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

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
TRAINING ACTIVITY, LOCATION, UIC: NATTC Pensacola, 63093														
INSTRUCTOR BILLETS														
USN														
ACCS	6902	9502	0	1	0	1	0	1	0	1	0	1	0	1
ACCS	6903	9502	0	1	0	1	0	1	0	1	0	1	0	1
ACC	6902	9502	0	5	0	5	0	5	0	5	0	5	0	5
ACC	6903	9502	0	2	0	2	0	2	0	2	0	2	0	2
AC1	6902	9502	0	11	0	11	0	11	0	11	0	11	0	11
AC1	6903	9502	0	10	0	10	0	10	0	10	0	10	0	10
ETCS	1592	9502	0	1	0	1	0	1	0	1	0	1	0	1
ETC	1592	9502	0	2	0	2	0	2	0	2	0	2	0	2
ET1	1592	9502	0	2	0	2	0	2	0	2	0	2	0	2
SUPPORT BILLETS														
USN														
AC1	6902	9502	0	5	0	5	0	5	0	5	0	5	0	5
AC2	6903	9502	0	3	0	3	0	3	0	3	0	3	0	3
TOTAL:			0	43	0	43	0	43	0	43	0	43	0	43

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
NATTC Pensacola, 63093													
	USN	0.0	22.8	0.0	22.4	0.0	26.2	0.0	26.8	0.0	27.7	0.0	25.6
SUMMARY TOTALS:													
	USN	0.0	22.8	0.0	22.4	0.0	26.2	0.0	26.8	0.0	27.7	0.0	25.6
GRAND TOTALS:													
		0.0	22.8	0.0	22.4	0.0	26.2	0.0	26.8	0.0	27.7	0.0	25.6

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY02 +/-	CFY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM
a. OFFICER – USN	Not Applicable												
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
ACCS	6902		13	0	13	-1	12	0	12	1	13	0	13
ACC	6902		13	0	13	-1	12	0	12	1	13	0	13
ACC	6903		13	0	13	0	13	1	14	0	14	0	14
AC1	6902		52	0	52	-4	48	0	48	4	52	0	52
AC1	6903		13	0	13	0	13	1	14	0	14	0	14
AC2	6902		143	0	143	-11	132	0	132	11	143	0	143
AC2	6903		89	0	89	0	89	7	96	0	96	0	96
AC3	6902		78	0	78	-6	72	0	72	6	78	0	78
AC3	6903		38	0	38	0	38	3	41	0	41	0	41
ET1	1568		9	-2	7	-3	4	-2	2	-2	0	0	0
ET1	1568	1419	7	0	7	-1	6	-1	5	0	5	0	5
ET1	1592		4	2	6	2	8	2	10	3	13	0	13
ET1	1592	1419	0	0	0	1	1	2	3	0	3	0	3
ET1	9602	1568	2	0	2	0	2	0	2	0	2	-2	0
ET1	9602	1592	0	0	0	0	0	0	0	0	0	2	2
ET2	9602	1568	1	0	1	0	1	0	1	0	1	0	1
ET2	9602	1592	1	0	1	0	1	0	1	0	1	0	1
ET3	1568		27	-4	23	-7	16	-5	11	-4	7	-2	5
ET3	1592		8	4	12	5	17	6	23	6	29	2	31
ET3	9602	1568	1	0	1	0	1	0	1	0	1	0	1
ET3	9602	1592	1	0	1	0	1	0	1	0	1	0	1
Fleet Support Billets ACDU and TAR													
ACCM	6901	6902	1	0	1	0	1	0	1	0	1	0	1
ACCM	6902		2	0	2	0	2	0	2	0	2	0	2
ACCS	6902		3	0	3	0	3	0	3	0	3	0	3
ACCS	6902	9502	1	0	1	0	1	0	1	0	1	0	1
ACCS	6903	9502	1	0	1	0	1	0	1	0	1	0	1
ACC	6902		4	0	4	0	4	0	4	0	4	0	4
ACC	6902	6901	1	0	1	0	1	0	1	0	1	0	1
ACC	6902	9502	4	0	4	0	4	0	4	0	4	0	4
ACC	6903	6904	4	0	4	0	4	0	4	0	4	0	4
ACC	6903	9502	2	0	2	0	2	0	2	0	2	0	2
AC1	6902		8	0	8	0	8	0	8	0	8	0	8
AC1	6902	9502	16	0	16	0	16	0	16	0	16	0	16
AC1	6903		12	0	12	0	12	0	12	0	12	0	12
AC1	6903	9502	10	0	10	0	10	0	10	0	10	0	10
AC2	6902		8	0	8	0	8	0	8	0	8	0	8
AC2	6903		17	0	17	0	17	0	17	0	17	0	17
AC2	6903	9502	3	0	3	0	3	0	3	0	3	0	3

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY02 +/-	CFY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM
AC3	6902		7	0	7	0	7	0	7	0	7	0	7
AC3	6903		20	0	20	0	20	0	20	0	20	0	20
ACAN	6902		2	0	2	0	2	0	2	0	2	0	2
ETCS	1592	9502	1	0	1	0	1	0	1	0	1	0	1
ETC	1592	9502	2	0	2	0	2	0	2	0	2	0	2
ET1	1592	9502	2	0	2	0	2	0	2	0	2	0	2
Staff Billets ACDU and TAR													
ACCS	6902	9502	1	0	1	0	1	0	1	0	1	0	1
ACCS	6903	9502	1	0	1	0	1	0	1	0	1	0	1
ACC	6902	9502	5	0	5	0	5	0	5	0	5	0	5
ACC	6903	9502	2	0	2	0	2	0	2	0	2	0	2
AC1	6902	9502	16	0	16	0	16	0	16	0	16	0	16
AC1	6903	9502	10	0	10	0	10	0	10	0	10	0	10
AC2	6903	9502	3	0	3	0	3	0	3	0	3	0	3
ETCS	1592	9502	1	0	1	0	1	0	1	0	1	0	1
ETC	1592	9502	2	0	2	0	2	0	2	0	2	0	2
ET1	1592	9502	2	0	2	0	2	0	2	0	2	0	2
Chargeable Student Billets ACDU and TAR													
			23	0	23	4	27	0	27	1	28	-2	26
SELRES Billets													
AC2	6903		1	0	1	0	1	0	1	0	1	0	1
AC3	6903		1	0	1	0	1	0	1	0	1	0	1
TOTAL USN ENLISTED BILLETS:													
Operational			513	0	513	-26	487	14	501	26	527	0	527
Fleet Support			131	0	131	0	131	0	131	0	131	0	131
Staff			43	0	43	0	43	0	43	0	43	0	43
Chargeable Student			23	0	23	4	27	0	27	1	28	-2	26
SELRES			2	0	2	0	2	0	2	0	2	0	2

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC Not Applicable

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-103-2055, AN/TPX-42(V)13 Shipboard DAIR Maintenance Technician Pipeline
COURSE LENGTH: 17.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.34

TRAINING		ACDU/TAR	CFY02		FY03		FY04		FY05		FY06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola												
	USN	ACDU		11		10		7		5		4
		TOTAL:		11		10		7		5		4

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Center Operations
COURSE LENGTH: 6.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.12

TRAINING		ACDU/TAR	CFY02		FY03		FY04		FY05		FY06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola												
	USN	ACDU		113		112		108		127		113
		TOTAL:		113		112		108		127		113

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations
COURSE LENGTH: 6.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.12

TRAINING		ACDU/TAR	CFY02		FY03		FY04		FY05		FY06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola												
	USN	ACDU		67		68		78		71		71
		TAR		3		3		3		3		3
		SELRES		0		0		1		0		0
		TOTAL:		70		71		82		74		74

CIN, COURSE TITLE: C-103-2056, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician Pipeline
COURSE LENGTH: 12.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.24

TRAINING		ACDU/TAR	CFY02		FY03		FY04		FY05		FY06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola												
	USN	ACDU		0		19		24		25		23
		TOTAL:		0		19		24		25		23

PART III - TRAINING REQUIREMENTS

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

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AN/TPX-42(V)14 Initial Maintenance
COURSE DEVELOPER: NAWCAD St. Inigoes
COURSE INSTRUCTOR: NAWCAD St. Inigoes, Code 4.5.9.2
COURSE LENGTH: 19 Days
ACTIVITY DESTINATIONS: CV 67 USS John F. Kennedy
CVN 68 USS Nimitz
CVN 72 USS Abraham Lincoln
LHA 1 USS Tarawa
NATTC Pensacola
Newport News Shipbuilding

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NAWCAD St. Inigoes, 47018	Oct 98		10	2	Input
			0.5		AOB
			10		Chargeable

COURSE TITLE: AN/TPX-42(V)14 Initial Operator
COURSE DEVELOPER: NAWCAD St. Inigoes
COURSE INSTRUCTOR: NAWCAD St. Inigoes, Code 4.5.9.2
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: CV 67 USS John F. Kennedy
CVN 68 USS Nimitz
CVN 72 USS Abraham Lincoln
LHA 1 USS Tarawa
NATTC Pensacola

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NAWCAD St. Inigoes, 47018	Oct 98		10		Input
			0.1		AOB
			10		Chargeable

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-103-2055, AN/TPX-42(V)13 Shipboard DAIR Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

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

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
11		10		7		5		4		ATIR
10		9		6		5		4		Output
3.3		3.0		2.1		1.5		1.2		AOB
3.3		3.0		2.1		1.5		1.2		Chargeable

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

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

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
113		112		108		127		113		ATIR
102		101		97		114		102		Output
11.8		11.7		11.2		13.2		11.8		AOB
11.8		11.7		11.2		13.2		11.8		Chargeable

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

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

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
70		71		81		74		74		ATIR
63		64		73		67		67		Output
7.3		7.4		8.4		7.7		7.7		AOB
7.3		7.4		8.4		7.7		7.7		Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		1		0		0		ATIR
0		0		1		0		0		Output
0.0		0.0		0.1		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: C-103-2056, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

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

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		19		24		25		23	ATIR
	0		17		22		23		21	Output
	0.0		4.1		5.1		5.3		4.9	AOB
	0.0		4.1		5.1		5.3		4.9	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the CATCC DAIR and AATCC DAIR and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

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: C-103-2054, AN/TPX-42A(V)13 Shipboard DAIR (Track C-103-2055)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	CY-8421 Electrical Equipment Cabinet	1	Oct 98	GFE	Onboard
002	MT-6932 Electrical Equipment Cabinet	1	Oct 98	GFE	Onboard
003	CP-1319A Radar Target Data Processor	1	Oct 98	GFE	Onboard
004	CP-1716A Track Processor	1	Oct 98	GFE	Onboard
005	CV-3477 Analog To Digital Converter	4	Oct 98	GFE	Onboard
006	CN-1506 Signal Processor	1	Oct 98	GFE	Onboard
007	CP-1318 Video Signal Processor	2	Oct 98	GFE	Onboard
008	CP-2177 Video Signal Processor	2	Oct 98	GFE	Onboard
009	MT-6439 Electrical Equipment Rack	1	Oct 98	GFE	Onboard
010	CP-1716 Track Processor	1	Oct 98	GFE	Onboard
011	AN/USQ-69(V) Data Terminal Set	1	Oct 98	GFE	Onboard
012	AN/USQ-69B(V) Data Terminal Set	2	Oct 98	GFE	Onboard
013	MT-6440 Electrical Equipment Rack	1	Oct 98	GFE	Onboard
014	MT-6443 Electrical Equipment Rack	1	Oct 98	GFE	Onboard
015	AN/USH-26(V) Signal Data Recorder	1	Oct 98	GFE	Onboard
016	CV-3953 Signal Data Converter	1	Oct 98	GFE	Onboard
017	AN/UYK-44(V) Data Processing Set	2	Oct 98	GFE	Onboard
018	SA-2497 Data Signal Switching Unit	1	Oct 98	GFE	Onboard
019	SA-2164 Data Signal Switching Unit	1	Oct 98	GFE	Onboard

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

020	OD-201 Display Console	5	Oct 98	GFE	Onboard
022	PP-7433 Power Supply	5	Oct 98	GFE	Onboard
023	C-11619 Indicator Control Box	5	Oct 98	GFE	Onboard
024	KY-900 Keyboard Controller	5	Oct 98	GFE	Onboard
026	MX-10719 Position Entry Module	5	Oct 98	GFE	Onboard
028	512890-2	5	Oct 98	GFE	Onboard
030	C-11618 Interrogator Set Control	1	Oct 98	GFE	Onboard
031	RD-379A(V)UNH Magnetic Recorder Reproducer	1	Oct 98	GFE	Onboard
032	RC-3212 Video Recorder Reproducer	1	Oct 98	GFE	Onboard
034	50799-1 Junction Box	4	Oct 98	GFE	Onboard
035	502799-100 Junction Box	1	Oct 98	GFE	Onboard

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
036	617-1 Plotting Board	10	Oct 96	GFE	Onboard
037	SNC1436-01 Headset, Microphone	20	Oct 96	GFE	Onboard
038	SA7B Electrical Headset-Chest Set	2	Oct 96	GFE	Onboard
039	K-AC-505 Talk-A-Phone	3	Oct 96	GFE	Onboard

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
036	617-1 Plotting Board	5	Oct 96	GFE	Onboard
037	SNC1436-01 Headset, Microphone	16	Oct 96	GFE	Onboard

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

CIN, COURSE TITLE: C-103-2063, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician (Track C-103-2056)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	MT-6932 Electrical Equipment Cabinet	1	Jan 02	GFE	Onboard
004	CP-1716A Track Processor	1	Jan 02	GFE	Onboard
005	CV-3477 Analog To Digital Converter	4	Jan 02	GFE	Onboard
008	CP-2177 Video Signal Processor	2	Jan 02	GFE	Onboard
012	AN/USQ-69B(V) Data Terminal Set	2	Jan 02	GFE	Onboard
013	MT-6440 Electrical Equipment Rack	1	Jan 02	GFE	Onboard
014	MT-6443 Electrical Equipment Rack	1	Jan 02	GFE	Onboard
016	CV-3953 Signal Data Converter	1	Jan 02	GFE	Onboard
017	AN/UYK-44(V) Data Processing Set	2	Jan 02	GFE	Onboard
018	SA-2497 Data Signal Switching Unit	1	Jan 02	GFE	Onboard
019	SA-2164 Data Signal Switching Unit	1	Jan 02	GFE	Onboard
021	OD-220 Display Console	8	Jan 02	GFE	Onboard
025	506-0001E Keyboard	8	Jan 02	GFE	Onboard
027	625-G2520-2 Trackball	8	Jan 02	GFE	Onboard
029	512890 Writing Panel	8	Jan 02	GFE	Onboard
030	C-11618 Interrogator Set Control	1	Jan 02	GFE	Onboard
033	WordSafe Maxima Video Recorder Reproducer	1	Jan 02	GFE	Onboard
034	50799-1 Junction Box	8	Jan 02	GFE	Onboard
035	502799-100 Junction Box	1	Jan 02	GFE	Onboard
SPETE					
036	AN/TPM-32 Test Set	1	Jan 02	GFE	Onboard

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
AN/TPX-42(V)14 Initial Maintenance	NAWCAD St. Inigoes, 47018	2	6	Sep 98
AN/TPX-42(V)14 Initial Operator	NAWCAD St. Inigoes, 47018	1	1	Sep 98

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-103-2054, AN/TPX-42A(V)13 Shipboard DAIR (Track C-103-2055)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	4	Oct 98	Onboard
Lesson Plans	5	Oct 98	Onboard
Pre-faultable AN/UYK-44(V) Modules	20	Oct 98	Onboard
Schematic Packages	12	Oct 98	Onboard
Student Guides	20	Oct 98	Onboard

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	4	Oct 96	Onboard
Lesson Plans	5	Oct 96	Onboard
Overhead Projector	1	Oct 98	Onboard
Projection Screen	1	Oct 98	Onboard
Student Guides	20	Oct 96	Onboard
Television Set (XL-100)	1	Oct 98	Onboard
Video Reproducer (AG-1300P)	1	Oct 98	Onboard

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	4	Oct 96	Onboard
Lesson Plans	5	Oct 96	Onboard
Overhead Projector	1	Oct 98	Onboard
Projection Screen	1	Oct 98	Onboard
Student Guides	20	Oct 96	Onboard
Television Set (XL-100)	1	Oct 98	Onboard
Video Reproducer (AG-1300P)	1	Oct 98	Onboard

CIN, COURSE TITLE: C-103-2063, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician (Track C-103-2056)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	4	Jan 02	Onboard
Lesson Plans	5	Jan 02	Onboard
Pre-faultable AN/UYK-44(V) Modules	20	Jan 02	Onboard
Schematic Packages	12	Jan 02	Onboard
Student Guides	20	Jan 02	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-103-2054, AN/TPX-42A(V)13 Shipboard DAIR (Track C-103-2055)
TRAINING ACTIVITY: NATTC
LOCATION, UIC : Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 16-30UPM155-1 AN/UPM-155 Radar Test Set Volume 1	Hard copy	8	Oct 98	Onboard
NA 16-30UPM155-2 AN/UPM155 Radar Test Set Volume 2	Hard copy	8	Oct 98	Onboard
NA 16-30UPM155-3 AN/UPM-155 Radar Test Set Volume 3	Hard copy	8	Oct 98	Onboard
NA 16-30UPM155-4 AN/UPM-155 Radar Test Set Volume 4	Hard copy	8	Oct 98	Onboard
NAVELEX 0967-LP-429-6020 AN/TPX-32 Video Signal Test Set	Hard copy	8	Oct 98	Onboard
NAVELEX 0967-LP-430-7010 CN-1358/T Signal Processor Technical Manual	Hard copy	8	Oct 98	Onboard
NAVELEX 0967-LP-430-8020 CP-1045/T Video Signal Processor Technical Manual	Hard copy	8	Oct 98	Onboard
NAVELEX 0967-LP-542-5010-5017 AN/UPX-27(V) Interrogator Set Technical Manual with Changes 1 through 7		8	Oct 98	Onboard
NAVELEX 0967-LP-636-8050 Radar Target Data Processor Operation and Maintenance	Hard copy	8	Oct 98	Onboard
NAVSEA SE610-PV-MMO-010/UYK-44 AN/UYK-44(V) Data Processor Operation and Maintenance	Hard copy	8	Oct 98	Onboard
SPAWAR 0967-LP-426-5010 MX-8757 UPX Interference Blanker Technical Manual	Hard copy	8	Oct 98	Onboard
SPAWAR 0967-LP-430-0020 AN/TPM-36 Test Set Technical Manual	Hard copy	8	Oct 98	Onboard
SPAWAR 0967-LP-430-0030 AN/TPM-36 Test Set Technical Manual	Hard copy	8	Oct 98	Onboard

IV.B.3. TECHNICAL MANUALS

SPAWAR 0967-LP-636-8010-8040 AN/TPX-42A(V)13 Interrogator Set Operation and Maintenance Volumes 1 through 4	Hard copy	8	Oct 98	Onboard
SPAWAR 0967-LP-636-8060 CV-3476 Signal Data Converter Operation and Maintenance	Hard copy	8	Oct 98	Onboard
SPAWAR 0967-LP-636-8070 Indicator Group Operation and Maintenance	Hard copy	8	Oct 98	Onboard
SPAWAR 0967-LP-636-8080 Indicator Control, Keyboard Controller, and Position Entry Module Operation and Maintenance	Hard copy	8	Oct 98	Onboard

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC : Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA00-80T-105 Carrier NATOPS	Hard copy	12	Oct 96	Onboard
NA00-80V-49 Air Navigation Manual	Hard copy	12	Oct 96	Onboard
NAAE-CVATC-OPM-000 Carrier Air Traffic Control Handbook	Hard copy	12	Oct 96	Onboard
OPNAVINST 3120-2 Standard Operating Requirements Manual	Hard copy	12	Oct 96	Onboard
OPNAVINST 5100.23 NAVOSH Manual	Hard copy	12	Oct 96	Onboard

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations
TRAINING ACTIVITY: NATTC
LOCATION, UIC : Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA00-80T-106 LHA/LHD NATOPS Manual	Hard copy	12	Oct 96	Onboard
NAAE-LHATC-OPM-000 Amphibious Ships Air Traffic Control Manual	Hard copy	12	Oct 96	Onboard

IV.B.3. TECHNICAL MANUALS

OPNAVINST 3120-2 Standard Operating Requirements Manual	Hard copy	12	Oct 96	Onboard
OPNAVINST 5100.23 NAVOSH Manual	Hard copy	12	Oct 96	Onboard

CIN, COURSE TITLE: C-103-2063, AN/TPX-42A(V)14 Shipboard DAIR Maintenance Technician (Track C-103-2056)
TRAINING ACTIVITY: NATTC
LOCATION, UIC : Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
5E020-AA-MMO-010?AM-7115/UP AM-7115/UP Video Amplifier Operation and Maintenance	Hard copy	8	Jan 02	Onboard
5E640-EC-MMO-010/USQ-69B(V) AN/USQ-69B(V) Data Terminal Set Technical Manual	Hard copy	8	Jan 02	Onboard
Commercial Publication WordSafe Maxima Operation and Maintenance		8	Jan 02	Onboard
EE230-FA-OMI-010 AN/UPA-61 Switching Group Operation and Maintenance	Hard copy	8	Jan 02	Onboard
NA 16-30UPM155-1 AN/UPM-155 Radar Test Set Volume 1	Hard copy	8	Jan 02	Onboard
NA 16-30UPM155-2 AN/UPM155 Radar Test Set Volume 2	Hard copy	8	Jan 02	Onboard
NA 16-30UPM155-3 AN/UPM-155 Radar Test Set Volume 3	Hard copy	8	Jan 02	Onboard
NA 16-30UPM155-4 AN/UPM-155 Radar Test Set Volume 4	Hard copy	8	Jan 02	Onboard
NA 16-60TPX-42V14-1-1 AN/TPX-42A(V)14 Interrogator Set Volume 1	Hard copy	8	Jan 02	Onboard
NA 16-60TPX-42V14-1-2 AN/TPX-42A(V)14 Interrogator Set Volume 2	Hard copy	8	Jan 02	Onboard
NA 16-60TPX-42V14-1-3 AN/TPX-42A(V)14 Interrogator Set Volume 3	Hard copy	8	Jan 02	Onboard
NA 16-65 CP2177-1 CP-2117 Video Signal Processor Operation and Maintenance	Hard copy	8	Jan 02	Onboard

IV.B.3. TECHNICAL MANUALS

NA 16-650D220-1 OD-220 Indicator Control Group Operation and Maintenance	Hard copy	8	Jan 02	Onboard
NA 16-650D220-1 Operation and Maintenance Instruction C-1168/TPX-42A(V) Interrogator Set	Hard copy	8	Jan 02	Onboard
NA 16-65CP1716A-1 CP-1716 Track Processor Operation and Maintenance	Hard copy	8	Jan 02	Onboard
NA 16-70UPX37-1 AN/UPX-37 Operation and Maintenance	Hard copy	8	Jan 02	Onboard
NAVELEX 0967-LP-422-0010 AS-2188/U Antenna Technical Manual	Hard copy	8	Jan 02	Onboard
NAVELEX 0967-LP-430-6010 CV-3477 Analog to Digital Converter Service Manual	Hard copy	8	Jan 02	Onboard
NAVELEX 0967-LP-434-9010 AS-177B Antenna Technical Manual	Hard copy	8	Jan 02	Onboard
NAVELEX 0967-LP-465-7010 AN/UPX-25(V) Operation and Maintenance	Hard copy	8	Jan 02	Onboard
NAVELEX 0967-LP-542-5010-5017 AN/UPX-27(V) Interrogator Set Technical Manual with Changes 1 through 7	Hard copy	8	Jan 02	Onboard
NAVELEX 0967-LP-636-8060 CV-3953 Signal Data Converter Operations and Maintenance	Hard copy	8	Jan 02	Onboard
NAVSEA SE610-PV-MMO-010/UYK-44 AN/UYK-44(V) Data Processor Operation and Maintenance	Hard copy	8	Jan 02	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
EPMAC	Established NEC 1568, AN/TPX-42A(V)13 Maintenance Technician	Jan 95	Completed
PDA	Achieved IOC with AN/TPX-42A(V)14	FY97	Completed
TSA	Established Follow-on Training for AN/TPX-42A(V)13	Jan 99	Completed
OPO	Approved NTSP	Mar 00	Completed
TSA	Delivered AN/TPX-42A(V) 14 TTE to NATTC Pensacola	Jan 02	Completed
TSA	Developed Draft NTSP	Feb 02	Completed
TSA	Begin Follow-On CATCC DAIR Operator Training with AN/TPX42A(V)14	Apr 02	Pending
NAVMAC	Establish NEC 1592, AN/TPX-42A(V)14 Shipboard Maintenance Technician	Oct 02	Pending
TSA	Begin AN/TPX-42A(V)14 Follow-On Maintenance Training	Oct 02	Pending
TSA	Begin follow-on AATCC DAIR Operator Training with AN/TPX42A(V)14	Oct 02	Pending
PDA	Achieve AN/TPX-42A(V)14 Navy Support Date	Mar 03	Pending
PSICP	Achieve AN/TPX-42A(V)14 Material Support Date	Mar 03	Pending
TSA	Disestablish Course C-103-2055, AN/TPX-42A(V)13 Shipboard DAIR Maintenance Training Pipeline	FY08	Pending
NAVMAC	Disestablish NEC 1568, AN/TPX-42A(V)12 and (V)13 Shipboard Maintenance Technician	FY09	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
No action items pending			

PART VII - POINTS OF CONTACT

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PART VII - POINTS OF CONTACT

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