NAVY TRAINING SYSTEM PLAN

FOR THE

AIR CAPABLE SHIP

VISUAL LANDING AID SYSTEMS

N88-NTSP-A-50-9205B/A

MARCH 2004

AIR CAPABLE SHIP
VISUAL LANDING AID SYSTEMS

EXECUTIVE SUMMARY

This Navy Training System Plan (NTSP) has been developed to identify the life cycle manpower, personnel, and training requirements associated with Air Capable Ship Visual Landing Aid (VLA) Systems.

Due to the similarity and close interface between systems, all Air Capable Ship VLA Systems are addressed together in this NTSP, with the exception of the Wind Measuring and Indicating System (WMIS). (WMIS will be addressed in a newly developed NTSP that will include all Aircraft Launch and Recovery Equipment Wind Systems.) The Air Capable Ships complement of VLA Systems includes the Helicopter Operations Surveillance System (HOSS), Stabilized Glide Slope Indicator (SGSI), Horizon Reference Set (HRS), Flight Deck Status and Signaling System (FDSSS), and the Wave-Off Light (WOL). These systems are used to enhance the capability of helicopters to operate at night and in adverse weather conditions from the small flight decks of Air Capable Ships. All Air Capable Ship VLA Systems are beyond the Milestone C Decision Point and are in the Operations and Support Phase of the Defense Acquisition System.

The HOSS is operated from the Combat Information Center (CIC) by Operations Specialists. The HRS, FDSSS, and WOL are operated by either the Landing Signal Officer (LSO) or the Helicopter Control Officer (HCO). After activation, the SGSI does not require an operator.

VLA Systems are maintained at the organizational, and intermediate levels by, ICs, Electrician's Mates, and Electronics Technicians with NECs 4746, 4758, or 4673 as applicable.

Initial training required to support the development and fleet introduction of the VLA Systems has been completed. LSO qualifications are obtained through On-the-Job Training. Follow-on operator and maintenance training for the HOSS is established at Service School Command Great Lakes, Illinois. Follow-on maintenance training for the HRS is established at Fleet Training Center (FTC) Norfolk, Virginia, and FTC San Diego, California. SGSI, FDSSS, and WOL follow-on maintenance training is established at Naval Air Maintenance Training Unit Norfolk, Virginia, and North Island, California.

Current Air Capable Ship manning is sufficient to operate and maintain the VLA Systems addressed in this NTSP. No changes to current manpower requirements are anticipated.

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LIST OF ACRONYMS

ACDU	Active Duty
ALRE	Aircraft Launch and Recovery Equipment
AOB	Average Onboard
ASGSI	Advanced Stabilized Glide Slope Indicator
ATIR	Annual Training Input Requirement
CFY	Current Fiscal Year
CI	Control Indicator
CIC	Combat Information Center
CIN	Course Identification Number
CM	Corrective Maintenance
CNO	Chief of Naval Operations
COMLANTFLT	Commander Atlantic Fleet
COMPACFLT	Commander Pacific Fleet
CSMP	Consolidated Ships Maintenance Plan
DDG	Guided Missile Destroyer
ECA	Electronic Component Assembly
EM	Electrician's Mate
ET	Electronics Technician
FDSSS	Flight Deck Status and Signaling System
FMS	Foreign Military Sales
FTC	Fleet Training Center
FTS&L	Fleet Technical Services and Logistics
FY	Fiscal Year
GFE	Government Furnished Equipment
GPETE	General Purpose Electronic Test Equipment
GQ	General Quarters
HCO	Helicopter Control Officer
HCS	Helicopter Control Station
HOSS	Helicopter Operations Surveillance System
HRS	Horizon Reference Set
Hz	Hertz

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LIST OF ACRONYMS

IC	Interior Communications Electrician
ILARTS	Integrated Launch and Recovery Television Surveillance System
ILSP	Integrated Logistics Support Plan
ISD	Indicator Stabilization Data
LAMPS	Light Airborne Multipurpose System
LPBA	Lamp Panel and Bar Assembly
LPD	Amphibious Transport Dock
LSA	Logistic Support Analysis
LSO	Landing Signal Officer
MRC	Maintenance Requirements Card
MSD	Material Support Date
NA	Not Applicable
CNATTU	Naval Air Maintenance Training Unit
NAVAIR	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NAWCADLKE	Naval Air Warfare Center Aircraft Division Lakehurst
NEC	Navy Enlisted Classification
NETC	Naval Education and Training Command
NOB	Naval Operations Base
NOBC	Naval Officer Billet Code
OJT	On-the-Job Training
OPNAV	Office of The Chief of Naval Operations
OPO	OPNAV Principal Official
PFY	Previous Fiscal Year
PM	Preventive Maintenance
PMA	Program Manager, Air
PNEC	Primary Navy Enlisted Classification
PQS	Personnel Qualification Standards
RAST	Recovery Assist, Securing, and Traversing
SGSI	Stabilized Glide Slope Indicator
SNEC	Secondary Navy Enlisted Classification

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LIST OF ACRONYMS

SRA	Shop Replaceable Assembly
SSC	Service School Command
ST	Special Tool
TAR	Training and Administration of Reserves
TD	Training Device
TTE	Technical Training Equipment
VAC	Volts Alternating Current
VCR	Video Cassette Recorder
VDC	Volts Direct Current
VLA	Visual Landing Aid
WMIS	Wind Measuring and Indicating System
WOL	Wave-Off Light
WRA	Weapon Replaceable Assembly

AIR CAPABLE SHIP
VISUAL LANDING AID SYSTEMS

PREFACE

This Approved Navy Training System Plan (NTSP) for the Air Capable Ship Visual Landing Aid Systems updates the Proposed Air Capable Ship Visual Landing Aid Systems NTSP, A-50-9205B/P, dated May 2003. This NTSP was developed in accordance with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97.

Updated information included in this document include:

- Comments recently received from N12 have been incorporated.
- The term "Naval Aviation Maintenance Training" (NAMTRA) has been replace by the "Center for Naval Aviation Technical Training" (CNATT).
- Points of Contact in Part VII have been updated.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Air Capable Ship Visual Landing Aid (VLA) Systems

2. Program Element. 43SJ830

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 (N78)

OPO Resource Sponsor..... CNO (N78)

Developing Agency ..... NAVAIR (PMA251)

Training Agency ..... COMLANTFLT
COMPACFLT
CNATT (FID N5)

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

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

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

D. SYSTEM DESCRIPTION

1. Operational Uses. The HOSS, SGSI, HRS, FDSSS, and WOL are VLAs designed to improve safety and efficiency and to enhance the capability of helicopters to operate day and night and in adverse weather conditions from the small flight decks of Air Capable Ships.

2. Foreign Military Sales. Specific information concerning Foreign Military Sales (FMS) and use by other services of the five VLA Systems addressed in this NTSP may be obtained from the NAVAIR Program Manager, Air (PMA) 251.

a. Helicopter Operations Surveillance System. The HOSS is used aboard United States Coast Guard vessels.

b. Stabilized Glide Slope Indicator. Sales of SGSI Systems have been made to Spain, Taiwan, and Australia.

c. Horizon Reference Set. Sales of the HRS have been made to Spain, Taiwan, and Australia. Sales are ongoing and planned through Fiscal Year (FY) 03.

d. Flight Deck Status and Signaling System. Sales of the FDSSS have been made to Spain, Taiwan, and Australia. Sales are ongoing and planned through FY 03.

e. Wave-Off Light. Sales of the WOL have been made to Spain, Taiwan, and Australia.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. Developmental Test. Developmental Tests for the five VLA Systems addressed in this NTSP have been successfully completed.

2. Operational Test. Operational Tests for the five VLA Systems addressed in this NTSP have been successfully completed.

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

1. Helicopter Operations Surveillance System. The HOSS did not replace any existing operations surveillance system.

2. Stabilized Glide Slope Indicator. The SGSI did not replace any existing glide slope indicator system. The SGSI will be replaced in the future with the Advanced Stabilized Glide Slope Indicator (ASGSI). The ASGSI will be a state of-the-art system that will eliminate the use of hydraulic components, improve reliability, reduce life cycle costs, reduce system weight, and reduce equipment noise signature. The ASGSI program is not currently funded. When the ASGSI program is funded and more information becomes available, ASGSI will be included in updates to this NTSP.

3. Horizon Reference Set. The HRS did not replace any existing horizon reference system.

4. Flight Deck Status and Signaling System. The FDSSS did not replace any existing shipboard signaling system.

5. Wave-Off Light. The WOL replaced a less sophisticated electrical wave-off system.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description

a. Helicopter Operations Surveillance System. HOSS provides an immediate and recordable closed-circuit television display of helicopter launch, recovery, Vertical Replenishment, Helicopter In-Flight Replenishment, and on-deck maneuvering operations. The televised information is displayed in real-time to facilitate control of flight deck operations during flight quarters. The video recording of this information assists in the analysis of mishaps and provides a visual training aid for pilot and flight deck personnel. The HOSS is comprised of common industrial-type video components. All remote controls, Video Cassette Recorders (VCR), and video monitors are located in and operated from the Combat Information Center (CIC) and the bridge.

b. Stabilized Glide Slope Indicator. The SGSI system is an Electromagnetic Interference hardened landing aid designed for use on Air Capable Ships. By use of the SGSI, a helicopter pilot may visually establish and maintain the proper glide slope for a safe landing. In order to steady the glide slope indicator with respect to the pitching and rolling motions of the ship, the indicator light cell is mounted on an electro-hydraulic stabilized platform. This equipment uses a local gyro for reference and develops electronic error signals that in turn control hydraulic cylinders that move the platform in an opposite direction to the ship's pitch and roll axis. A failure detection circuit is also provided for the system internal gyro, remote gyro operation, and rate lead circuits by direct comparison with the ship's pitch and roll signals to reduce platform dynamic errors. In the event of system failure, the error detection circuits will put the system in a non-ready status and shut off the indicator light.

c. Horizon Reference Set. The HRS is an all-weather, electro-mechanically stabilized landing aid designed for use on Light Airborne Multipurpose System (LAMPS) MK III designated Air Capable Ships. It provides a visual cue or reference of the true horizon that is independent of the ship's rolling motion. The system indicator is mounted on the top aft section of the hangar structure, along the ship's centerline, and can be seen by the pilot of an approaching or hovering helicopter when he conducts his normal obstruction clearance scan. This allows the pilot to maintain the proper attitude prior to touchdown and recovery. The HRS is controlled by a three-wire, synchro input command signal that originates from the ship's gyro roll reference system. As the ship rolls, the command signal from the gyro reference system causes the indicating bar to rotate opposite and proportional to the ship's roll. The internal positional feedback circuitry ensures that the bar remains parallel to the horizon by eliminating any error.

d. Flight Deck Status and Signaling System. The FDSSS is a panel-type command and control system designed for use on Air Capable Ships equipped to support LAMPS MK III air operations. The system enables the Helicopter Control Officer (HCO) at the helicopter landing deck or the Landing Signal Officer (LSO) (Navy Officer Billet Code (NOBC) 1310) at the Recovery Assist, Securing, and Traversing (RAST) Control Console to request and receive launch and recovery authorization from the bridge and CIC. Wave-off control can only be initiated from the RAST Control Console, Operations Request Panel, or Wave-off Master Control Panel.

e. Wave-Off Light. The WOL system is an electronic signaling system designed for use on Air Capable Ships. WOLs are installed on each side of the SGSI platform. When activated, WOLs provide a visual indication to a helicopter pilot to discontinue the landing approach. There are two configurations of the WOL system. The 618401-1 WOL is used on Air Capable Ships that are not configured with the LAMPS MK III VLA System. The 618401-2 WOL is used aboard Air Capable Ships that are configured with the LAMPS MK III VLA System.

2. Physical Description

a. Helicopter Operations Surveillance System. The HOSS consists of a day-night camera using a 10:1 zoom lens in an environmental housing on a remote control pan and tilt mount. Additionally, a video monitor is located on the bridge. A video date and time generator is provided, and pilot, LSO, and CIC voice communications may be recorded on video tape at the ship's discretion. The HOSS is comprised of the following major assemblies:

(1) Camera Station. The Camera Station is located near the helicopter pad and consists of a closed circuit television camera, pan and tilt assembly, pedestal assembly, and junction box.

(2) Control Station. The Control Station is located in the CIC and consists of a nine-inch black and white monitor with mount, a VCR with mount, and a System Control Unit that consists of a time-date generator, pan-tilt controls, video distributor, and an additional operator control unit.

(3) Monitoring Station. The Monitoring Station is located in the bridge compartment and consists of a nine-inch black and white monitor and mounting rack, and an operator control unit.

(4) Station Interconnect Cabling. The Station Interconnect Cabling connects the control station with the camera station and the bridge monitor station.

ASSEMBLY	QTY	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Camera	1	4.5 diameter x 12.0 length			10
Pan and Tilt Assembly	1	16.0	14.0	10.0	65
Junction Box	1	5.0	12.0	10.0	20
System Control Unit	1	20.0	16.0	6.0	30
Operator Control Unit	2	8.0	6.0	4.0	15
Monitor Assembly	2	13.25	12.64	10.4	20
VCR (With Mount)	1	6.0	20.0	17.0	16

b. Stabilized Glide Slope Indicator. The SGSI MK 1 MOD 0/MOD 1 System consists of the following major subassemblies:

(1) Electronics Enclosure Assembly F100. This assembly is a bulkhead-mounted enclosure located in a closed compartment in the proximity of the stabilized platform. It is the electronic signal processing, distribution, and control center for the system. This assembly houses the EMI Hardening Enclosure Assembly, gyro amplifier, 28 Volts Direct Current (VDC) power supply, dual ±15 VDC power supply, 400 Hertz (Hz) inverter, card cage containing ten circuit board assemblies, terminal boards for wire connections, and the Components Panel Assembly. The Electronics Enclosure receives ship's electrical power and converts and/or distributes operational voltages through the system. The Components Panel Assembly (F120) is used to prepare the system for operation and contains relays, switch-indicator assemblies, light indicators, on-off switches, fuse assemblies, test jacks, and a 15-amp system circuit breaker.

(2) Remote Control Panel Assembly F200. This assembly is a bulkhead-mounted panel located in the flight control room, providing remote controls and indicators for operating and monitoring the SGSI System. The hinged cover panel contains mountings for a gyro alarm reset, audio alarm override, on-off switches, indicator lights to advise of system status, and controls for adjusting source light intensity and panel illumination. The Source Light Failure Board Assembly (F201) mounted in the panel detects failures in the glide slope indicator source light circuit and illuminates a failure warning light on the cover. The gyro failure audio alarm circuit is protected by, the Diode Plate Assembly mounted in the unit containing diode protection circuitry.

(3) Hydraulic Pump Assembly F300. This is a deck-mounted assembly, which is a self-contained, closed-loop hydraulic system. It is comprised of an electric motor, coupling and pump assembly, reservoir, fluid heater, suction and pressure filters, sight gage,

valves, pressure switches, associated plumbing, and a cover assembly. Ship's electrical power is required to operate the hydraulic system, which develops hydraulic pressure for operation of the pitch and roll actuators of the stabilized platform.

(4) Transformer Assembly F400. This assembly is bulkhead mounted within three feet of the stabilized platform and is connected by a fixed length of cable, ten feet long, in order to minimize voltage drop. The transformer supplies power to the three 21-volt, 150-watt projection style lamps used in the glide slope indicator for source lights.

(5) Glide Slope Indicator Assembly F500. This assembly is secured to the top of the stabilized platform and consists of two major subassemblies, the Adjustable Mount Assembly and the Glide Slope Indicator Subassembly. The Adjustable Mount Assembly provides elevation and lateral adjustments to accurately position and mount the Glide Slope Indicator Subassembly to the stabilized platform. The Glide Slope Indicator Subassembly, secured to the Adjustable Mount Assembly, contains the blower hood assembly, lamp stick assembly, two lens heater assemblies, a fresnel lens, and a tricolor lenticular lens. This subassembly provides the stabilized, visual reference light bar used by the pilot of an approaching aircraft to establish a safe landing glide slope angle.

(6) Stabilized Platform Assembly F600. This is a deck-mounted assembly adjacent to the helicopter landing area. The Stabilized Platform Assembly contains a system gyro, pitch and roll hydraulic actuated cylinders, electrically operated servo-valves, and a gimbaled platform made up from a top plate assembly, a universal assembly, and a base plate. This platform is used to stabilize the glide slope indicator around the ship's pitch and roll motions, maintaining the projected light beam at a fixed angle to the horizon. The gyro acts as a sensor for the system, detecting deviations from the level platform position and directing error signals to the gyro sensing circuits. The signals are further processed and distributed to power the servo-valves. These servo-valves control the hydraulic pressure to the pitch and roll hydraulic actuators, stabilizing the glide slope indicator.

(7) Separate Gyro F800. The separate gyro is a deck-mounted assembly, which contains a vertical reference sensor used to provide the pitch and role input to the MK 1 MOD 1 Stabilized Glide Slope Indicator (SGSI without ship's pitch and roll input).

(8) Isolation Transformer F900. The Isolation Transformer F900 is a weather-tight enclosure mounted near the Electronics Enclosure Assembly. An interconnecting cable, which is part of the Isolation Transformer Assembly, serves to connect it to the Electronic Enclosure Assembly. Weatherproof stuffing tubes are installed for cables connecting the Isolation Transformer Assembly to the Electronics Enclosure Assembly and ship's power.

ASSEMBLY	UNIT NUMBER	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Electronics Enclosure	F100	30.0	24.0	9.0	108

ASSEMBLY	UNIT NUMBER	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Remote Control Panel	F200	14.0	12.0	6.0	22
Hydraulic Pump	F300	27.9	17.0	26.0	245
Transformer Assembly	F400	13.3	9.2	6.6	27
Glide Slope Indicator	F500	13.0	22.5	26.0	60
Stabilized Platform	F600	24.5	25.0	28.0	277
Separate Gyro	F800	8.6	8.0	24.0	25
Isolation Transformer	F900	11.0	9.3	8.4	60

c. Horizon Reference Set. The HRS requires input power of 115 Volts Alternating Current (VAC) ±7% (107 to 123 VAC), 60 Hz ±3% (58 to 62 Hz), 1.5A, two-wire, single phase and 115 VAC ±7%, 400 Hz ±5% (380 to 420 Hz), 7.5Amp, two-wire, single phase at the Electronic Component Assembly (ECA) for operation of the system. The power returns are above ground and are not common grounded. A separate 115 VAC, 400 Hz, three-wire synchro command signal from the ship's vertical reference system is required to drive the Light Panel and Bar Assembly (LPBA) (Synchro Control Transmitter, type 18CX4, with a ratio of synchro angle input to bar displacement of two electrical degrees for each degree of actual roll). These input signals are also connected in the ECA. The HRS consists of three major subassemblies.

(1) Indicator Stabilization Data. The Indicator Stabilization Data (ISD) is located on the ship's centerline, facing aft, above the hangar structure. It includes the electromechanical drive, which positions the LPBA so that it remains parallel to the natural horizon. The LPBA is ten feet long and is illuminated throughout its length by green, electro-luminescent panels mounted on the aft face. A warning lamp assembly is located on top of the ISD. It is a red globe, navigational-type light that is designed to illuminate in the event of a system malfunction or failure to provide a visual warning to the pilot.

(2) Electronic Component Assembly. The ECA contains the electronic servo control circuitry primary power, signal, and operating controls. Its function is to provide the electrical signals to drive the LPBA to the correct position. It is typically located in the hangar bay near the flight control area.

(3) Control Indicator. The Control Indicator (CI) contains power and operating controls with status indicators. These controls are duplicated in the ECA; however, the CI has primary control with override capability and is mounted in the Helicopter Control Station (HCS).

ASSEMBLY	PART NUMBER	DIMENSIONS (INCHES) HEIGHT	WIDTH	DEPTH	WEIGHT (POUNDS)
ISD (less LPBA) LPBA Warning Lamp	212601-2 212689 212784	19.1 5.0 8.0	20.4 120.0 5.5	28.5 5.4 5.3	136 65 4
Electronic Components	212602-2 212602-3*	17.0	17.0	9.6	45
Control-Indicator	212603-2 212603-3*	8.2	9.4	4.8	6

* Indicates a new part number after incorporation of Launch and Recovery Change 61.

d. Flight Deck Status and Signaling System. The FDSSS consists of the following subassemblies:

(1) Operations Request Panel. The Operations Request Panel is comprised of a launch and recovery sequence switch that enables the operator to request and receive authorizations. The panel also provides the CIC and Bridge Panel with indication of the status of launch or recovery and other related helicopter operations. The deck status and wave-off lights are also controlled and monitored from this panel.

(2) Interface Control Unit. The Interface Control Unit contains the control circuit components including the Diode Board Assembly. It also provides for the interconnection of the FDSSS with the Wave-Off Master Control Panel, the RAST Control Console, and the Deck Status Light.

(3) Bridge and Combat Information Center Response Panels. The Bridge and CIC Response Panels are located in the ship's bridge and CIC. The panels provide the capability for either or both locations to authorize, monitor, and control helicopter operations. The panel is comprised of lights that indicate the stage or sequence of the helicopter operations, and lights that indicate flight deck status and wave-off light illumination.

NOMEN-CLATURE	PART NUMBER	QTY	DIMENSIONS (INCHES) HEIGHT	WIDTH	DEPTH	WEIGHT (POUNDS)
Operations Request Panel	612060-1 621060-21*	1	8.0	11.8	7.3	12
Interface Control Unit	621062-1 621062-11**	1	17.5	15.0	6.1	20

NOMEN-CLATURE	PART NUMBER	QTY	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Bridge/CIC Response Panel	621061-1 621061-11***	2	7.0	11.0	7.3	5

* Indicates new part number after incorporation of Service Change 26.
** Indicates new part number after incorporation of Service Change 26 and 29.
*** Indicates new part number after incorporation of Service Change 26 and 31.

e. Wave-Off Light. The assemblies that comprise the WOL, together with their unit numbers, are as follows:

(1) Master Control Panel Assembly (G100). The Master Control Panel Assembly is bulkhead mounted in the flight control area. This panel is the signal processing, distribution, and control center for the WOL system. The panel contains the monitor, flasher-driver, extender circuit cards, step-down transformer, and terminal boards used for the system interconnecting wire terminations.

(2) Remote Panel Assembly (G200, G200A). Remote Panel Assembly G200 is installed on the ship's bridge and G200A in the flight control area. Each contain a switch that when pressed, energizes the wave-off lights. The units also contain a dimmer circuit board assembly and a terminal board used for system wiring interconnection. Remote Panels are used with the -1 system only.

(3) Junction Box Assembly (G300, G300A). The Junction Box Assemblies are identical units that are mounted on each side of the hangar door. They provide a remote location for connecting a hand held portable switch.

(4) Junction Box Assembly (G400). The Junction Box Assembly provides a means to connect the cable from the Master Control Panel with the WOL cables. It is located with the WOL Assemblies.

(5) Wave-Off Light Assembly (G500, G500A). The WOLs are identical units and are mounted one on each side of the SGSI platform.

ASSEMBLY	UNIT NUMBER	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Master Control Panel	G100	15.0	11.5	7.0	35
Remote Panel	G200, G200A	6.5	5.4	4.5	10
Junction Box	G300, G300A	4.1	4.1	3.1	2
Junction Box	G400	7.1	4.1	4.6	10
Wave-Off Light	G500, G500A	22.0	(10.0 diameter)		20

3. New Development Introduction. The five VLA Systems addressed in this NTSP are currently installed and in use aboard Air Capable Ships and will be installed on new construction Air Capable Ships, as applicable, during construction. VLA Systems are new production equipment.

4. Significant Interfaces

a. Helicopter Operations Surveillance System. The HOSS may, depending on class of ship, interface with the communication system between the helicopter, bridge, and CIC to enable the HOSS to record the audio signals between the pilot, LSO/HCO, and Tactical Action Officers.

b. Stabilized Glide Slope Indicator. The SGSI interfaces with ship's electrical and gyro pitch and roll reference systems.

c. Horizon Reference Set. The HRS interfaces with ship's electrical and gyro roll reference systems.

d. Flight Deck Status and Signaling System. The FDSSS interfaces with the LSO RAST Control Station (only on LAMPS MK III ships), WOLs, and ship's electrical systems.

e. Wave-Off Light. The WOL interfaces with the FDSSS (only on LAMPS MK III ships) and ship's electrical systems.

5. New Features, Configurations, or Material. Not Applicable (NA)

H. CONCEPTS

1. Operational Concept

a. Helicopter Operations Surveillance System. The HOSS equipment is manned and operated by Operations Specialists during all helicopter operations.

b. Stabilized Glide Slope Indicator. The SGSI is activated during flight operations. After activation, no operator action is required.

c. Horizon Reference Set. A LSO/HCO operates the HRS during flight quarters.

d. Flight Deck Status and Signaling System. The, FDSSS is operated during flight quarters by the Landing Signal Officer/Helicopter Control Officer (LSO/HCO).

e. Wave-Off Light. When activated by the LSO/HCO, the WOLs begin to flash, providing a visual indication to the pilot to abort the landing attempt and initiate a new landing approach.

2. Maintenance Concept. The maintenance concept for all the VLA Systems contained in this NTSP follows the direction and guidance outlined in the Naval Ships Maintenance, Material, and Management Program Manual 4790.4 (series).

a. Helicopter Operations Surveillance System. The HOSS maintenance is based on two levels of repair, organizational and depot. HOSS components are designed to facilitate rapid fault isolation and verification.

(1) Organizational. Organizational level maintenance of the HOSS is performed by ICs with Navy Enlisted Classification (NEC) 4746, Closed Circuit Television Technician.

(a) Preventive Maintenance. Preventive Maintenance (PM) is performed at specified intervals in accordance with established Maintenance Requirement Cards (MRC). PM includes visual inspection, cleaning, alignment adjusting, and operational and functional testing.

(b) Corrective Maintenance. Corrective Maintenance (CM) consists of fault isolation, removal, and replacement of Weapon Replaceable Assemblies (WRA) and Shop Replaceable Assemblies (SRA).

(2) Intermediate. NA

(3) Depot. Depot level maintenance is performed at Naval Air Warfare Center Aircraft Division Lakehurst (NAWCADLKE), New Jersey. The maintenance philosophy

behind HOSS depot maintenance is to perform overhaul and repair of all circuit boards and subassemblies; rework of all severely damaged or corroded equipment, and the repair and calibration of all equipment beyond organizational level capabilities.

(4) Interim Maintenance. Interim Maintenance support for HOSS was provided by the NAWCADLKE, through their Fleet Technical Services and Logistics (FTS&L) Division, prior to the HOSS Material Support Date (MSD) of second quarter FY95.

(5) Life Cycle Maintenance Plan. NAWCADLKE provides necessary engineering technical services through their FTS&L Division. The FTS&L Division is available upon request, and provides technical assistance as required. Representatives also provide any necessary certification testing and inspections required for the HOSS during or following ship overhaul periods.

b. Stabilized Glide Slope Indicator. The SGSI System maintenance plan (SSIED MP No. 010-79, Approved 16 March 1981) is based on two levels of maintenance, organizational and depot.

(1) Organizational Level. Organizational level maintenance is performed by ship's ICs or Electrician's Mates (EM), and includes both PM and CM.

(a) Preventive Maintenance. PM actions include cleaning, inspection, lubrication, and operational and functional testing of SGSI units.

(b) Corrective Maintenance. CM consists of functional testing, fault isolation, subassembly repair, and the removal and replacement of scheduled overhaul components.

(2) Intermediate Level. NA

(3) Depot Level. Depot level maintenance of the SGSI consists of repair of assemblies that are not within the capability of the ship's force, and scheduled overhaul of the Gyro Assembly and Glide Slope Indicator Subassembly.

(4) Interim Maintenance. NA

(5) Life Cycle Maintenance Plan. The SGSI system is to be overhauled by the depot at a three to five year interval coinciding with the ship's major overhaul period.

c. Horizon Reference Set. As documented by the HRS Maintenance Plan, NAWCADLKE-M84096008, approved 15 October 1996, the HRS maintenance concept conforms to the maintenance concept, procedures, and capabilities described in the Consolidated Ships Maintenance Plan (CSMP), which prescribes three levels of maintenance, organizational, intermediate, and depot.

(1) Organizational Level. Maintenance of the HRS is performed by EMs with NEC 4673, LAMPS MK III RAST/HRS Electrical Maintenanceman, and includes both PM and CM.

(a) Preventive Maintenance. PM includes cleaning, inspection, corrosion control, lubrication, functional checkout, and scheduled component removal as required by the applicable MRCs.

(b) Corrective Maintenance. CM consists of operational and functional tests, fault isolation, and unit repair by assembly, subassembly, component, or piece-part replacement.

(2) Intermediate Level. Condition-based modular replacement of selected WRAs and SRAs are performed by ashore and afloat Intermediate Maintenance Activity personnel during scheduled intermediate maintenance availability periods. Intermediate level maintenance is performed aboard tender ships, Ships Intermediate Maintenance Activities, and Ship Repair Facilities.

(3) Depot Level. Depot level maintenance consists of repair and refurbishment of WRAs and SRAs beyond the capability of intermediate level maintenance. Depot level maintenance of the HRS servomotor is accomplished through commercial repair.

(4) Interim Maintenance. NA

(5) Life Cycle Maintenance Plan. Progressive refurbishment is the key to the Life Cycle Maintenance Plan strategy, which is predicated on a seven to ten year ship's operating cycle. The strategy is based on phased modular replacement before wear-out or failure. Selected equipment is programmed for modular replacement before failure, as determined by the Logistic Support Analysis (LSA) failure rates over a 30-year period, thereby reducing ships force workload by accomplishing required maintenance during PM periods.

d. Flight Deck Status and Signaling System. Maintenance of FDSSS is performed in accordance with the FDSSS Maintenance Plan (NAWCADLKE-M84096009, approved 15 October 1996). All FDSSS maintenance is performed at the organizational level.

(1) Organizational Level. Organizational level maintenance is performed by EMs with NEC 4758 and includes both PM and CM.

(a) Preventive Maintenance. PM consists of performing a pre-operational test on the system daily when operating, a more comprehensive system test monthly, and a semi-annual comprehensive inspection.

(b) Corrective Maintenance. CM procedures include fault isolation down to the lowest level repairable, removal and replacement of failed components, and system checkout.

(2) Intermediate. NA

(3) Depot. NA

(4) Interim Maintenance. NA

(5) Life Cycle Maintenance Plan. NA

e. Wave-Off Light. The WOL System Maintenance Plan (SSIED MP No. 003-82 approved 13 May 1982) is based on two levels of maintenance, organizational and depot.

(1) Organizational Level. Organizational level maintenance is performed by ICs with NEC 4758 and includes both PM and CM.

(a) Preventive Maintenance. PM includes cleaning, inspection, and functional testing of units making up the WOL System.

(b) Corrective Maintenance. CM includes functional testing, fault isolation to a failed component, subassembly removal, repair, and replacement.

(2) Intermediate Level. NA

(3) Depot Level. Repair actions beyond the capability of the ship's force are performed at designated depot level facilities.

(4) Interim Maintenance. NA

(5) Life Cycle Maintenance Plan. NA

3. Manning Concept

a. Helicopter Operations Surveillance System

(1) Watch Station Requirements. The HOSS is manned and operated by the Operations Specialist assigned to CIC during helicopter operations and General Quarters (GQ) as follows:

STATION TITLE	SKILL IDENTIFIER	FLIGHT QUARTERS MANNING
CIC	OSSN	1

(2) Maintenance Workload. HOSS maintenance is be performed by the same ICs that maintain the ship's Information, Training, and Entertainment Closed Circuit Television systems. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE.

SKILL IDENTIFIER	PM	CM
OS3	0.00	0.01
OSSN	0.03	0.02
OSSN	0.05	0.00
TOTALS	**0.08**	**0.03**

(3) Recommended Manpower Requirements. The following manpower currently onboard Air Capable Ships is sufficient to operate and maintain the HOSS:

SKILL IDENTIFIER	QUANTITY
OS3	1
OSSN	2

b. Stabilized Glide Slope Indicator

(1) Watch Station Requirements. There are no watch station requirements for the SGSI. No further operator action is required after activation.

(2) Maintenance Workload. ICs and EMs are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
IC2/EM2	0.46	0.14
ICFN/EMFN	0.35	0.14
TOTALS	**0.81**	**0.28**

(3) Recommended Manpower Requirements. The following manpower currently onboard Air Capable Ships is sufficient to maintain the SGSI.

SKILL IDENTIFIER	QUANTITY
IC2/EM2	1
ICFN/EMFN	1

c. Horizon Reference Set

(1) Watch Station Requirements. Operation of the HRS is accomplished during Flight Quarters and GQ by LAMPS Detachment LSO/HCOs. The LSO/HCO is a collateral duty assignment.

STATION TITLE	SKILL IDENTIFIER	GENERAL QUARTERS MANNING	FLIGHT QUARTERS MANNING
LSO/HCO	O-2 through O-4, NOBC 1215	1	1

(2) Maintenance Workload. Ship's Company EMs are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
EM2, NEC 4673	0.02	0.07
EM3, NEC 4673	3.75	0.07
EMFN	3.63	0.0
TOTALS	**7.40**	**0.14**

(3) Recommended Manpower Requirements. The following manpower currently aboard Air Capable Ships is sufficient to maintain the HRS:

SKILL IDENTIFIER	QUANTITY
EM2, NEC 4673	1
EM3, NEC 4673	1
ICFN	1

d. Flight Deck Status and Signaling System

(1) Watch Station Requirements. Operation of the FDSSS is accomplished during Flight Quarters and GQ by LAMPS Detachment LSO/HCOs. The LSO/HCO is a collateral duty assignment.

STATION TITLE	SKILL IDENTIFIER	GENERAL QUARTERS MANNING	FLIGHT QUARTERS MANNING
LSO/HCO	O-2 through O-4, NOBC 1215	1	1

(2) Maintenance Workload. ICs and EMs are responsible for the maintenance of the FDSSS. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
IC2/EM2	0.25	0.02
ICFN/EMFN	0.27	0.02
TOTALS	**0.52**	**0.04**

(3) Recommended Manpower Requirements. The following manpower currently aboard Air Capable Ships is sufficient to operate and maintain the HRS:

SKILL IDENTIFIER	QUANTITY
IC2/EM2	1
ICFN	1

e. Wave-Off Light

(1) Watch Station Requirements. Operation of the WOL is accomplished during Flight Quarters and GQ by LAMPS Detachment LSO/HCOs. The LSO/HCO is a collateral duty assignment.

STATION TITLE	SKILL IDENTIFIER	GENERAL QUARTERS MANNING	FLIGHT QUARTERS MANNING
LSO/HCO	O-2 through O-4, NOBC 1215	1	1

(2) Maintenance Workload. ICs and EMs are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
IC2/EM2	0.03	0.03
ICFN/EMFN	0.03	0.03
TOTALS	**0.06**	**0.06**

(3) Recommended Manpower Requirements. The following manpower currently aboard Air Capable Ships is sufficient to maintain the WOL:

SKILL IDENTIFIER	QUANTITY
IC2/EM2	1
ICFN	1

4. Training Concept. The objective of the VLA training concept is to provide the fleet with proficient VLA operators and maintainers. All five VLA Systems are currently in fleet use. Follow-on training for operators and maintainers has been established for all systems.

a. Initial Training. All initial training required to support the VLA Systems addressed in this NTSP has been completed.

b. Follow-On Training

(1) Operator

(a) Helicopter Operations Surveillance System. The HOSS is operated by the same Operations Specialists that maintain the system. No formal operator training is required.

(b) Stabilized Glide Slope Indicator. There are no operator training requirements associated with SGSI.

(c) Horizon Reference Set. Operation of the HRS is performed by, a LAMPS Detachment LSO/HCO. There is no formal LAMPS LSO/HCO training course. All LAMPS LSOs must be qualified helicopter pilots that complete a training package consisting of informal lectures, observation of launch and recovery operations, performance of launch and recovery operations, with assistance, and performance of launch and recovery operations without

assistance. After completing the training package, LSO/HCOs are designated in writing by the Squadron Commanding Officer.

(d) Flight Deck Status and Signaling System. The FDSSS is operated by the same LAMPS detachment LSO/HCOs that operate the HRS. FDSSS training is included in the LAMPS LSO/HCO training package.

(e) Wave-Off Light. The WOL is operated by the same LAMPS detachment LSO/HCOs that operate the HRS and FDSSS. WOL training is included in the LAMPS LSO/HCO training package.

(2) Maintenance

(a) Helicopter Operations Surveillance System

Title	**Shipboard Information Training and Entertainment Closed Circuit Television Maintenance**
CIN	A-191-0010
Model Manager....	Service School Command (SSC)
Description.....	This course provides training to the Interior Communications Electrician, including: ° Closed Circuit Television System Operation ° Closed Circuit Television System Troubleshooting ° Closed Circuit Television System Preventive Maintenance ° Closed Circuit Television System Repair ° Shipboard 3-M Documentation Upon completion, the student will be able to maintain the Closed Circuit Television Systems under limited supervision.
Location	SSC Great Lakes, Illinois
Length	12 days
RFT date	Currently available
Skill identifier	NEC 4746
TTE/TD.....	Refer to element IV.A.1 for Technical Training Equipment (TTE). Training Device (TD) is NA.
Prerequisite	A-623-0105, Interior Communications Electrician Class A

(b) Stabilized Glide Slope Indicator

Title	**Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance**
CIN	C-670-2013
Model Manager....	MTU 3040 CNATTU Norfolk
Description.....	This course provides training to the Electrician's Mate, Electronics Technician, or Interior Communications Electrician, including: ° SGSI Troubleshooting and Repair ° WOL Troubleshooting and Repair ° FDSSS Troubleshooting and Repair ° Shipboard 3-M Documentation ° Flight Deck Safety Precautions Upon completion, the student will be able to maintain, troubleshoot, and repair the SGSI, WOLS, and FDSSS at the journeyman level under limited supervision.
Locations	° MTU 3040 CNATTU Norfolk ° MTU 3041 CNATTU North Island
Length.....	23 days
RFT date	Currently available
Skill identifier.....	NEC 4758
TTE/TD.....	Refer to element IV.A.1 for TTE. TD is NA.
Prerequisites.....	° EM: A-662-0159, Electrician's Mate A School Pipeline ° IC: A-623-0105, Interior Communications Electrician Class A

(c) Horizon Reference Set

Title	**LAMPS MK III RAST Electrical Technician**
CIN	K-652-2204
Model Manager....	Fleet Training Center (FTC) Norfolk
Description.....	This course provides training to the Electrician's Mate, including: ° RAST System A/W 42U-1(V) Troubleshooting ° RAST System A/W 42U-1 Repair and Maintenance ° HRS A/W 37A-1 Troubleshooting ° HRS A/W 37A-1 Repair and Maintenance Upon completion, the student will be able to perform maintenance on the LAMPS MK III RAST under limited supervision.
Locations	° FTC Norfolk ° FTC San Diego
Length.....	33 days
RFT date	Currently available
Skill identifier.....	NEC 4673
TTE/TD.....	Refer to element IV.A.1 for TTE. TD is NA.
Prerequisite	A-662-0159, Electrician's Mate A School Pipeline

(d) Flight Deck Status and Signaling System. The FDSSS is maintained by the same ICs or EMs that maintain the SGSI and WOL. All applicable maintenance training requirements are covered in, course *C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance*.

(e) Wave-Off Light. The WOL is maintained by the same ICs or EMs that maintain the SGSI and HRS. All applicable maintenance training requirements are covered in, course *C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance*.

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
IC 4746, 4758	o A-623-0105, Interior Communications Electrician Class A
EM 4673	o A-662-0159, Electrician's Mate A School Pipeline

d. Training Pipelines. Replacement Pilot training courses for the AH-1W, UH-1N, SH-3D, SH-3H, CH-46D, CH-46E, RH-53D, CH-53E, MH-53E, SH-60B, SH-60F, HH-60H, H-60A, H-60D, H-60G, H-60K, CH-47D, MH-47E, MH-60, OH-58D, and AH-64 require updating any time new VLA equipment is installed or existing equipment is modified.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance In-Service Training. NA

c. Aviation Maintenance Training Continuum System. NA

2. Personnel Qualification Standards. Personnel Qualification Standards (PQS) 43219-C, Helicopter Operations for Air Capable Ships, has been updated to reflect the latest changes in VLA equipment. No PQS exists or is planned for maintenance of VLA Systems.

3. Other Onboard or In-Service Training Packages. Each class of Air Capable Ships has an individualized helicopter operations training package. All personnel involved in helicopter launch and recovery operations must complete the training package and pass a locally prepared test before being certified for their flight quarters, station.

Junior IC and EM personnel gain VLA maintenance experience through On-The-Job Training (OJT). OJT consists of performing on equipment PM and limited CM under the direct guidance of a senior Petty Officer who has completed advanced training on that particular system.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

SYSTEM	CONTRACT NUMBER	MANUFACTURER	ADDRESS
FDSSS	Part of Helicopter Landing Systems Contract: N00019-01-D-0088	Indal Technologies	3570 Hawkestone Road Mississauga, Ontario, Canada L5C 2V8
HOSS	N68335-90-C-0547	Kongsberg Simrad Incorporated	San Marcos, CA
HRS	Part of Helicopter Landing Systems Contract: N00019-01-D-0088	Indal Technologies	3570 Hawkestone Road Mississauga, Ontario, Canada L5C 2V8
SGSI	N00140-88-C-RL32	T. M. Systems	345 Railroad Avenue Bridgeport, CT 06604
WOL	N68355-02-M-3120	EMW Incorporated	10 West Second Avenue Lititz, PA 17543

2. Program Documentation

a. Helicopter Operations Surveillance System. The HOSS Integrated Logistics Support Plan (ILSP), NAEC-MISC-91-OR199, was approved in January 1987.

b. Stabilized Glide Slope Indicator. The SGSI Maintenance Plan, SSIED MP 010-79, was approved in March 1981. A SGSI ILSP does not exist, nor is one currently planned.

c. Horizon Reference Set. The HRS ILSP, NAEC-LR-003:A, was approved in April 1982. The HRS Maintenance Plan, NAWCADLKE M84096008, was approved in October 1996.

d. Flight Deck Status and Signaling System. The FDSSS ILSP, NAEC-MISC-91-OR107, was approved in April 1992. The FDSSS Maintenance Plan NAWCADLKE M84096009 was approved in October 1996.

e. Wave-Off Light. The WOL Maintenance Plan, SSIED MP 003-82, was approved in May 1982. A WOL ILSP does not exist, nor is one currently planned.

f. Other. In addition to the ILSPs listed above, ILSP NAEC-MISC-91-OR024, LAMPS MK III Visual Landing Aids was approved in June 1980.

3. Technical Data Plan. All Technical Manuals, MRCs, Planned Maintenance System Work Packages, and Operator Manuals required to support the VLA Systems addressed in this NTSP have been completed and distributed. Technical Data required for new construction ships will be obtained from the Naval Air Technical Data and Engineering Service Command via the automatic distribution list. A listing of all technical data required to support VLA Systems training is available in element IV.B.3 of this NTSP.

4. Test Sets, Tools, and Test Equipment. All test sets, tools, and test equipment required to support fleet maintenance of the VLA Systems addressed in this NTSP have been delivered. Test sets, tools, and test equipment required onboard new construction ships are included in the ships' initial outfitting. All test sets, tools, and test equipment required to support VLA training, have been delivered.

5. Repair Parts. Supply support for all five VLA Systems addressed in this NTSP is provided through normal supply channels from the Navy Inventory Control Point Mechanicsburg, Pennsylvania, and Defense Logistics Agency supply centers.

6. Human Systems Integration. All five of the VLA systems are mature programs. All new design systems and software will address the human-machine interface for operators, maintainers, and support personnel. The design processes conformed to best standard human engineering practices as defined in existing human factors engineering design standards. All new hardware and software will minimize the requirement for special cognitive, physical, or sensory requirements of the operators, maintainers, or support personnel beyond those available in current Navy personnel resources. Maintenance training includes a blend of ICW and paper based instruction. Any future development of CBT, CAI and ICW training material will be sharable content object reference model compliant. A training effectiveness evaluation has not been performed and any of the five VLA systems. This system has no habitability impact. Manpower issues are covered in part II and III of this document. In its current state of design, all five of the VLA systems contain no explosive, radioactive, or carcinogenic materials. Toxic materials are present in small amounts and in forms that present no hazard during any phase of system ownership, including disposal. If the components were to be incinerated, limited amounts of corrosive vapors would be generated by the decomposition of wire insulation. This is common to all electrical/electronic equipment meeting the requirements to operate in the specified environments. Environmental and Occupational Safety and Health requirements meet federal, state, and local standards, regulations, and directives and are enforced by respective agencies, as applicable.

K. SCHEDULES

1. Installation and Delivery Schedules. Schedule information was provided by NAWCADLKE. The installation of VLA Systems on all active Air Capable Ships has been

completed. VLA Systems will be installed, as applicable, on all new construction Air Capable Ships during construction. Due to constantly changing shipyard schedules and material delivery schedule changes, an accurate installation schedule would be nearly impossible to maintain. Therefore, for the purpose of this NTSP, the installation schedules for HOSS, SGSI, HRS, FDSSS, and WOL were developed using the projected commissioning date as the installation date. Delivery of new VLA Systems to the shipyards will be coordinated by NAWCADLKE to minimize installation delays or long storage times prior to installation.

a. Helicopter Operations Surveillance System. HOSS will be installed on all new construction Amphibious Transport Dock (LPD) 17, class ships during construction. There is one HOSS per ship.

INSTALLATION SCHEDULE

LPD 17 CLASS SHIPS	FY02	FY03	FY04	FY05	FY06	FY07	FY08
LPD 17 USS San Antonio	X						
LPD 18 USS New Orleans		X					
LPD 19 USS (Not Named)			X				
LPD 20 USS (Not Named)			X				
LPD 21 USS (Not Named)				X			
LPD 22 USS (Not Named)				X			
LPD 23 USS (Not Named)					X		
LPD 24 USS (Not Named)					X		
LPD 25 USS (Not Named)						X	
LPD 26 USS (Not Named)						X	
LPD 27 USS (Not Named)							X
LPD 28 USS (Not Named)							X

b. Stabilized Glide Slope Indicator. The SGSI will be installed on all new construction Guided Missile Destroyers (DDG) 51 and LPD 17 class ships during construction. Construction of DDG 51 through DDG 88 has been completed. There is one SGSI per ship. The installation schedule for SGSI aboard LPD 17 class ships is the same as for the HOSS illustrated above.

INSTALLATION SCHEDULE

DDG 51 CLASS SHIPS	FY02	FY03	FY04	FY05	FY06	FY07	FY08
DDG 89 USS Mustin	X						
DDG 90 USS Chaffee		X					
DDG 91 USS Pinkney		X					
DDG 92 USS Momsen		X					
DDG 93 USS Chung-Hoon			X				
DDG 94 USS (Not Named)			X				
DDG 95 USS (Not Named)			X				
DDG 96 USS (Not Named)				X			
DDG 97 USS (Not Named)				X			
DDG 98 USS (Not Named)				X			
DDG 99 USS (Not Named)					X		
DDG 100 USS (Not Named)					X		
DDG 101 USS (Not Named)					X		
DDG 102 USS (Not Named)						X	
DDG 103 USS (Not Named)						X	
DDG 104 USS (Not Named)						X	
DDG 105 USS (Not Named)							X
DDG 106 USS (Not Named)							X
DDG 107 USS (Not Named)							X

c. Horizon Reference Set. The HRS will be installed on new construction DDG 51 class ships during construction. There is one HRS per ship. The installation schedule for HRS is the same as the SGSI illustrated above.

d. Flight Deck Status and Signaling System. The WOL will be installed on new construction DDG 51 and LPD 17 class ships during construction. There is one FDSSS per ship. The installation schedule for FDSSS is the same as the HOSS and SGSI illustrated above.

e. Wave-Off Light. The WOL will be installed on new construction DDG 51 and LPD 17 class ships during construction. There is one WOL per ship. The installation schedule for WOL is the same as the HOSS and SGSI illustrated above.

2. Ready For Operational Use Schedule. The installation of VLA Systems on all active Air Capable Ships has been completed and the systems are in operational use. VLA Systems installed on new construction Air Capable Ships will be ready for operational use upon completion of system certification during sea trials.

3. Time Required to Install at Operational Sites

a. Helicopter Operations Surveillance System. Time required for HOSS installation is approximately one week.

b. Stabilized Glide Slope Indicator. Time required for SGSI installation is approximately two months.

c. Horizon Reference Set. Time required for HRS installation is approximately one week.

d. Flight Deck Status and Signaling System. The FDSSS is installed as a package in conjunction with the HRS and requires a total of approximately one week.

e. Wave-Off Light. Time required for WOL installation is approximately four weeks.

4. Foreign Military Sales and Other Source Delivery Schedule

a. Helicopter Operations Surveillance System. Delivery of HOSS units for use aboard U.S. Coast Guard vessels was completed in FY95.

b. Stabilized Glide Slope Indicator. All SGSI FMS deliveries were completed in FY94.

c. Horizon Reference Set. All HRS FMS deliveries have been completed with the exception of one HRS delivery to Spain scheduled for FY03.

d. Flight Deck Status and Signaling System. All FDSSS FMS deliveries have been completed with the exception of one FDSSS delivery to Spain scheduled for FY03.

e. Wave-Off Light. All WOL FMS deliveries were completed in FY94.

5. Training Device and Technical Training Equipment Delivery Schedule

a. Training Device. NA

b. Technical Training Equipment

(1) Helicopter Operations Surveillance System. Refer to element IV.A. for a detailed list of TTE required to support HOSS maintenance training. All required TTE has been delivered.

(2) Stabilized Glide Slope Indicator. Complete SGSI systems are installed at CNATTU 3040 Norfolk and CNATTU 3041 North Island.

(3) Horizon Reference Set. Complete HRSs are installed at FTC Norfolk and FTC San Diego.

(4) Flight Deck Status and Signaling System. Complete FDSSSs are installed at CNATTU 3040 Norfolk and CNATTU 3041 North Island.

(5) Wave-Off Light. Complete WOL systems are installed at CNATTU 3040 Norfolk and CNATTU 3041 North Island.

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
AH-1W Aircraft	A-50-8520D/A	PMA267	Approved Mar 96
Aircraft Carrier Visual Landing Aid Systems	A-50-9202A/A	PMA251	Approved Nov 99
Aircraft Launch and Recovery Equipment (ALRE) Quality Assurance/Maintenance Program	A-50-8509C/D	AIR-552	Draft Jan 95
Amphibious Assault Ship Visual Landing Aid Systems	A-50-9203A/A	PMA251	Approved Jul 00
CH-53E Helicopter	A-50-7604G/A	PMA261	Approved Mar 01
Flight Deck Status and Signaling System (FDSSS) Integrated Logistics Support Plan	NAEC-MISC-91-OR107	AIR-551	Approved Apr 82
Flight Deck Status and Signaling System Maintenance	NAWCADLKE M84096009	NAWCADLKE	Approved Oct 96
Fresnel Lens Optical Landing System (FLOLS)	A-50-8409A/D	PMA251	Draft May 97
H-46 Helicopter	A-50-9409A/A	PMA261	Approved May 01
Helicopter Operations Surveillance System (HOSS) Integrated Logistic Support Plan	NAEC-MISC-91-OR199	AIR-551	Approved Jan 87
HH/UH-1N Aircraft	A-50-9404/A	PMA267	Approved Oct 94
HH-60H Combat SAR-SW Support Helicopter	A-50-8714B/A	PMA299	Draft Oct 93
Horizon Reference Set Maintenance Plan	NAWCADLKE M84096008	NAWCADLKE	Approved Oct 96
Horizon Reference Set System (HRS) Integrated Logistics Support Plan	ILSP-LR-003:A	AIR-551	Approved Jun 87

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Integrated Launch and Recovery Television Surveillance System (ILARTS)	A-50-8401/A	AIR-551	Approved Aug 84
LAMPS MK III Visual Landing Aids Integrated Logistics Support Plan	NAEC-MISC-91-OR024	AIR-551	Approved Jun 80
Landing Signal Officer (LSO) Training System	A-50-8418B/A	PMA251	Approved Jul 92
Light Airborne Multipurpose System (LAMPS) MK III	A-50-7702D/A	PMA299	Draft Aug 01
MH-53E Helicopter	A-50-8417D/A	PMA261	Approved Feb 02
MH-60S Multi Mission Helicopter	A-50-9902A/P	PMA299	Proposed Jun 02
RH-53D (Reserve) Helicopter	A-50-8601C/D	PMA261	Draft Apr 95
SH-2C Helicopter	A-50-9303A/A	PMA299	Approved Jun 94
SH-60F Carrier Inner-Zone ASW Helicopter	A-50-8508D/A	PMA299	Approved Aug 00
Stabilized Glide Slope Indicator Maintenance Plan	SSIED MP 010-79	NAWCADLKE	Approved Mar 81
United States Marine Corps H-1 Helicopter Upgrade Program	A-50-9602/A	PMA267	Approved Jan 02
Wave-Off Light Maintenance Plan	SSIED MP 003-82	NAWCADLKE	Approved May 82
Wind Measuring and Indicating System Maintenance Plan	SSIED MP 002-80	NAWCADLKE	Approved Nov 80

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the Air Capable Ship VLA Systems and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

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

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

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

II.A. BILLET REQUIREMENTS

SOURCE OF SCHEDULE: NAWCADLKE (AIR 3.4.5) **DATE:** May 2002
SOURCE OF MANPOWER: TFFMS **DATE:** Dec 2002

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 La Salle	07172	1	0	0	0	0	0
AOE 3 USS Seattle	05848	1	0	0	0	0	0
AOE 4 USS Detroit	20120	1	0	0	0	0	0
AOE 6 USS Supply	21839	1	0	0	0	0	0
AOE 8 USS Arctic	21907	1	0	0	0	0	0
ARS 51 USS Grasp	21467	1	0	0	0	0	0
ARS 53 USS Grapple	21441	1	0	0	0	0	0
AS 39 USS Emory S. Land	20635	1	0	0	0	0	0
CG 47 USS Ticonderoga	21281	1	0	0	0	0	0
CG 48 USS Yorktown	21225	1	0	0	0	0	0
CG 51 USS Thomas S. Gates	21344	1	0	0	0	0	0
CG 55 USS Leyte Gulf	21388	1	0	0	0	0	0
CG 56 USS San Jacinto	21389	1	0	0	0	0	0
CG 58 USS Philippine Sea	21429	1	0	0	0	0	0
CG 60 USS Normandy	21449	1	0	0	0	0	0
CG 61 USS Monterey	21450	1	0	0	0	0	0
CG 64 USS Gettysburg	21624	1	0	0	0	0	0
CG 66 USS Hue City	21656	1	0	0	0	0	0
CG 68 USS Anzio	21658	1	0	0	0	0	0
CG 69 USS Vicksburg	21684	1	0	0	0	0	0
CG 71 USS Cape St. George	21828	1	0	0	0	0	0
CG 72 USS Vella Gulf	21829	1	0	0	0	0	0
DD 963 USS Spruance	20574	1	0	0	0	0	0
DD 968 USS Arthur W. Radford	20588	1	0	0	0	0	0
DD 969 USS Peterson	20589	1	0	0	0	0	0
DD 970 USS Caron	20590	1	0	0	0	0	0
DD 977 USS Briscoe	20603	1	0	0	0	0	0
DD 978 USS Stump	20604	1	0	0	0	0	0
DD 982 USS Nicholson	20614	1	0	0	0	0	0
DD 987 USS O'Bannon	20834	1	0	0	0	0	0
DD 988 USS Thorn	20835	1	0	0	0	0	0
DD 989 USS Deyo	20836	1	0	0	0	0	0
DD 997 USS Hayler	21416	1	0	0	0	0	0
DDG 100 USS (New Construction)	23152	0	0	0	1	0	0
DDG 102 USS (New Construction)	23161	0	0	0	0	1	0
DDG 51 USS Arleigh Burke	21487	1	0	0	0	0	0
DDG 52 USS Barry	21660	1	0	0	0	0	0
DDG 55 USS Stout	21685	1	0	0	0	0	0
DDG 57 USS Mitscher	21687	1	0	0	0	0	0
DDG 58 USS LaBoon	21820	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
DDG 61 USS Ramage	21823	1	0	0	0	0	0
DDG 64 USS Carney	21923	1	0	0	0	0	0
DDG 66 USS Gonzalez	21833	1	0	0	0	0	0
DDG 67 USS Cole	21941	1	0	0	0	0	0
DDG 69 USS The Sullivans	21942	1	0	0	0	0	0
DDG 71 USS Ross	21945	1	0	0	0	0	0
DDG 72 USS Mahan	21946	1	0	0	0	0	0
DDG 74 USS MC Faul	21948	1	0	0	0	0	0
DDG 75 USS Donald Cook	21949	1	0	0	0	0	0
DDG 78 USS Porter	21952	1	0	0	0	0	0
DDG 79 USS Oscar Austin	21953	1	0	0	0	0	0
DDG 80 USS Roosevelt	21954	1	0	0	0	0	0
DDG 81 USS Winston S. Churchill	21955	1	0	0	0	0	0
DDG 82 USS Lassen	21956	1	0	0	0	0	0
DDG 84 USS Bulkeley	22992	1	0	0	0	0	0
DDG 86 USS Shoup	22994	1	0	0	0	0	0
DDG 88 USS Preble	22996	1	0	0	0	0	0
DDG 90 USS Chafee	23155	1	0	0	0	0	0
DDG 92 USS (New Construction)	23146	1	0	0	0	0	0
DDG 94 USS (New Construction)	23148	0	1	0	0	0	0
DDG 96 USS (New Construction)	23154	0	0	1	0	0	0
DDG 98 USS (New Construction)	23150	0	0	1	0	0	0
FFG 13 USS Samuel E. Morison	20966	1	0	0	0	0	0
FFG 14 USS Sides	20967	1	0	0	0	0	0
FFG 28 USS Boone	21053	1	0	0	0	0	0
FFG 29 USS Stephen W. Groves	21054	1	0	0	0	0	0
FFG 32 USS John L. Hall	21057	1	0	0	0	0	0
FFG 36 USS Underwood	21103	1	0	0	0	0	0
FFG 39 USS Doyle	21106	1	0	0	0	0	0
FFG 40 USS Halyburton	21107	1	0	0	0	0	0
FFG 42 USS Klankring	21109	1	0	0	0	0	0
FFG 45 USS Dewert	21197	1	0	0	0	0	0
FFG 47 USS Nicholas	21199	1	0	0	0	0	0
FFG 49 USS Robert G. Bradley	21201	1	0	0	0	0	0
FFG 50 USS Taylor	21231	1	0	0	0	0	0
FFG 52 USS Carr	21233	1	0	0	0	0	0
FFG 53 USS Hawes	21234	1	0	0	0	0	0
FFG 55 USS Elrod	21236	1	0	0	0	0	0
FFG 56 USS Simpson	21350	1	0	0	0	0	0
FFG 58 USS Samuel B. Roberts	21352	1	0	0	0	0	0
FFG 59 USS Kauffman	21390	1	0	0	0	0	0
FFG 8 USS McInerney	21032	1	0	0	0	0	0
LCC 20 USS Mt. Whitney	20001	1	0	0	0	0	0
LPD 12 USS Shreveport	07195	1	0	0	0	0	0
LPD 13 USS Nashville	07196	1	0	0	0	0	0
LPD 14 USS Trenton	07200	1	0	0	0	0	0
LPD 15 USS Ponce	07201	1	0	0	0	0	0
LPD 17 USS San Antonio (New Construction)	07207	0	1	0	0	0	0
LPD 19 USS (New Construction)	32421	0	0	1	0	0	0

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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
LPD 21 USS (New Construction)	3013A	0	0	0	1	0	0
LPD 23 USS (New Construction)	3015A	0	0	0	0	1	0
LPD 4 USS Austin	07175	1	0	0	0	0	0
LSD 36 USS Anchorage	07203	1	0	0	0	0	0
LSD 37 USS Portland	20012	1	0	0	0	0	0
LSD 41 USS Whidbey Island	21218	1	0	0	0	0	0
LSD 44 USS Gunston Hall	21422	1	0	0	0	0	0
LSD 46 USS Tortuga	21562	1	0	0	0	0	0
LSD 48 USS Ashland	21531	1	0	0	0	0	0
LSD 50 USS Carter Hall	21880	1	0	0	0	0	0
LSD 51 USS Oakhill	21958	1	0	0	0	0	0
AGF 11 USS Coronado	07194	1	0	0	0	0	0
AOE 1 USS Sacramento	05832	1	0	0	0	0	0
AOE 10 USS Bridge	21979	1	0	0	0	0	0
AOE 2 USS Camden	05833	1	0	0	0	0	0
AOE 7 USS Rainier	21872	1	0	0	0	0	0
ARS 50 USS Safeguard	21245	1	0	0	0	0	0
ARS 52 USS Salvor	21468	1	0	0	0	0	0
AS 40 USS Frank Cable	20865	1	0	0	0	0	0
CG 49 USS Vincennes	21295	1	0	0	0	0	0
CG 50 USS Valley Forge	21296	1	0	0	0	0	0
CG 52 USS Bunker Hill	21345	1	0	0	0	0	0
CG 53 USS Mobile Bay	21346	1	0	0	0	0	0
CG 54 USS Antietam	21387	1	0	0	0	0	0
CG 57 USS Lake Champlain	21428	1	0	0	0	0	0
CG 59 USS Princeton	21447	1	0	0	0	0	0
CG 62 USS Chancellorsville	21451	1	0	0	0	0	0
CG 63 USS Cowpens	21623	1	0	0	0	0	0
CG 65 USS Chosin	21625	1	0	0	0	0	0
CG 67 USS Shiloh	21657	1	0	0	0	0	0
CG 70 USS Lake Erie	21827	1	0	0	0	0	0
CG 70 USS Port Royal	21830	1	0	0	0	0	0
DD 964 USS Paul F. Foster	20575	1	0	0	0	0	0
DD 965 USS Kinkaid	20576	1	0	0	0	0	0
DD 966 USS Hewitt	20586	1	0	0	0	0	0
DD 967 USS Elliot	20587	1	0	0	0	0	0
DD 971 USS David R. Ray	20591	1	0	0	0	0	0
DD 972 USS Oldendorf	20598	1	0	0	0	0	0
DD 973 USS John Young	20599	1	0	0	0	0	0
DD 975 USS O'Brien	20601	1	0	0	0	0	0
DD 985 USS Cushing	20617	1	0	0	0	0	0
DD 985 USS Fife	20838	1	0	0	0	0	0
DD 992 USS Fletcher	20839	1	0	0	0	0	0
DDG 101 USS (New Construction)	23151	0	0	0	1	0	0
DDG 103 USS (New Construction)	23165	0	0	0	0	1	0
DDG 53 USS John Paul Jones	21313	1	0	0	0	0	0
DDG 54 USS Curtis Wilbur	21640	1	0	0	0	0	0
DDG 54 USS Ford	21235	1	0	0	0	0	0
DDG 56 USS John S. McCain	21686	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
DDG 59 USS Russell	21821	1	0	0	0	0	0
DDG 62 USS Fitzgerald	21824	1	0	0	0	0	0
DDG 65 USS Benfold	21940	1	0	0	0	0	0
DDG 69 USS Milius	21943	1	0	0	0	0	0
DDG 70 USS Hopper	21944	1	0	0	0	0	0
DDG 73 USS Decatur	21947	1	0	0	0	0	0
DDG 76 USS Higgins	21950	1	0	0	0	0	0
DDG 77 USS O'Kane	21951	1	0	0	0	0	0
DDG 83 USS Howard	22999	1	0	0	0	0	0
DDG 85 USS McCampbell	22993	1	0	0	0	0	0
DDG 87 USS Mason	22995	1	0	0	0	0	0
DDG 89 USS Mustin	22997	1	0	0	0	0	0
DDG 91 USS Pinckney	23145	1	0	0	0	0	0
DDG 93 USS (New Construction)	23147	0	1	0	0	0	0
DDG 95 USS (New Construction)	23153	0	1	0	0	0	0
DDG 97 USS (New Construction)	23149	0	0	1	0	0	0
DDG 99 USS (New Construction)	23150	0	0	0	1	0	0
FFG 12 USS George Philips	20965	1	0	0	0	0	0
FFG 33 USS Jarrett	21058	1	0	0	0	0	0
FFG 37 USS Crommelin	21104	1	0	0	0	0	0
FFG 38 USS Curts	21105	1	0	0	0	0	0
FFG 41 USS McClusky	21108	1	0	0	0	0	0
FFG 43 USS Thach	21110	1	0	0	0	0	0
FFG 45 USS De Wert	21197	1	0	0	0	0	0
FFG 46 USS Rentz	21198	1	0	0	0	0	0
FFG 48 USS Vandegrift	21200	1	0	0	0	0	0
FFG 51 USS Gary	21232	1	0	0	0	0	0
FFG 57 USS Ruben James	21351	1	0	0	0	0	0
FFG 60 USS Rodney M. Davis	21391	1	0	0	0	0	0
FFG 61 USS Ingraham	21430	1	0	0	0	0	0
FFG 9 USS Wadsworth	21033	1	0	0	0	0	0
LCC 19 USS Blue Ridge	05840	1	0	0	0	0	0
LPD 10 USS Juneau	07184	1	0	0	0	0	0
LPD 18 USS New Orleans (New Construction)	23168	0	1	0	0	0	0
LPD 20 USS (New Construction)	3012A	0	0	1	0	0	0
LPD 22 USS (New Construction)	3014A	0	0	0	1	0	0
LPD 24 USS (New Construction)	23180	0	0	0	0	1	0
LPD 26 USS (New Construction)	23182	0	0	0	0	0	1
LPD 5 USS Ogden	07176	1	0	0	0	0	0
LPD 6 USS Duluth	07177	1	0	0	0	0	0
LPD 7 USS Cleveland	07181	1	0	0	0	0	0
LPD 8 USS Dubuque	07182	1	0	0	0	0	0
LPD 9 USS Denver	07183	1	0	0	0	0	0
LSD 39 USS Mount Vernon	20014	1	0	0	0	0	0
LSD 42 USS Germantown	21639	1	0	0	0	0	0
LSD 43 USS Fort McHenry	21400	1	0	0	0	0	0
LSD 45 USS Comstock	21452	1	0	0	0	0	0
LSD 47 USS Rushmore	21530	1	0	0	0	0	0
LSD 49 USS Harpers Ferry	21852	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
LSD 52 USS Pearl Harbor	21959	1	0	0	0	0	0
LST 1184 USS Frederick	20023	1	0	0	0	0	0
MCS 12 USS Inchon	20009	1	0	0	0	0	0
TOTAL:		172	4	5	5	4	2
FLEET SUPPORT ACTIVITIES - USN							
MTU 3040 CNATTU Norfolk	66046	1	0	0	0	0	0
Service School Command, Great Lakes	30626	1	0	0	0	0	0
Fleet Training Center, San Diego	61690	1	0	0	0	0	0
MTU 3041 CNATTU North Island	66065	1	0	0	0	0	0
TOTAL:		4	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					
AGF 3 USS La Salle, 07172					
ACDU	0	1	IC1	4781	4758
	0	1	IC2	4777	4758
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
AOE 3 USS Seattle, 05848					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE 4 USS Detroit, 20120					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE 6 USS Supply, 21839					
ACDU	0	1	IC1	4758	
	0	1	IC2	4758	4727
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
AOE 8 USS Arctic, 21907					
ACDU	0	1	IC1	4758	
	0	1	IC2	4758	4727
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
ARS 51 USS Grasp, 21467					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
ARS 53 USS Grapple, 21441					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			

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
AS 39 USS Emory S. Land, 20635					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CG 47 USS Ticonderoga, 21281					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
CG 48 USS Yorktown, 21225					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
CG 51 USS Thomas S. Gates, 21344					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG 55 USS Leyte Gulf, 21388					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG 56 USS San Jacinto, 21389					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG 58 USS Philippine Sea, 21429					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG 60 USS Normandy, 21449					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			

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
CG 61 USS Monterey, 21450					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	ICFN	4746	
ACTIVITY TOTAL:	0	3			
CG 64 USS Gettysburg, 21624					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
CG 66 USS Hue City, 21656					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
CG 68 USS Anzio, 21658					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
CG 69 USS Vicksburg, 21684					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
CG 71 USS Cape St. George, 21828					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
CG 72 USS Vella Gulf, 21829					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
DD 963 USS Spruance, 20574					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			

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
DD 968 USS Arthur W. Radford, 20588					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 969 USS Peterson, 20589					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 970 USS Caron, 20590					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 977 USS Briscoe, 20603					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 978 USS Stump, 20604					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 982 USS Nicholson, 20614					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			

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
DD 987 USS O'Bannon, 20834					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 988 USS Thorn, 20835					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 989 USS Deyo, 20836					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 997 USS Hayler, 21416					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DDG 100 USS (New Construction), 23152, FY05 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG 102 USS (New Construction), 23161, FY06 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG 51 USS Arleigh Burke, 21487					
ACDU	0	1	IC1	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG 52 USS Barry, 21660					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 55 USS Stout, 21685					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 57 USS Mitscher, 21687					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 58 USS LaBoon, 21820					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 61 USS Ramage, 21823					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 64 USS Carney, 21923					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 66 USS Gonzalez, 21833					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 67 USS Cole, 21941					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG 69 USS The Sullivans, 21942					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 71 USS Ross, 21945					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 72 USS Mahan, 21946					
ACDU	0	1	IC1	4758	4746
ACTIVITY TOTAL:	0	1			
DDG 74 USS MC Faul, 21948					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 75 USS Donald Cook, 21949					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 78 USS Porter, 21952					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 79 USS Oscar Austin, 21953					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 80 USS Roosevelt, 21954					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			

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
DDG 81 USS Winston S. Churchill, 21955					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 82 USS Lassen, 21956					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 84 USS Bulkeley, 22992					
ACDU	0	1	EM1	4673	
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	2			
DDG 86 USS Shoup, 22994					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 88 USS Preble, 22996					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 90 USS Chafee, 23155, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 92 USS (New Construction), 23146, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			

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
DDG 94 USS (New Construction), 23148, FY03 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 96 USS (New Construction), 23154, FY04 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 98 USS (New Construction), 23150, FY04 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4746
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	3			
FFG 13 USS Samuel E. Morison, 20966					
ACDU	0	2	IC2	4746	4703
ACTIVITY TOTAL:	0	2			
FFG 14 USS Sides, 20967					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	2			
FFG 28 USS Boone, 21053					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	3			
FFG 29 USS Stephen W. Groves, 21054					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
TAR	0	1	EM2	4673	
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	4			

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
FFG 32 USS John L. Hall, 21057					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG 36 USS Underwood, 21103					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG 39 USS Doyle, 21106					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG 40 USS Halyburton, 21107					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG 42 USS Klankring, 21109					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG 45 USS Dewert, 21197					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	3			
FFG 47 USS Nicholas, 21199					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			

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
FFG 49 USS Robert G. Bradley, 21201					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG 50 USS Taylor, 21231					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
FFG 52 USS Carr, 21233					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
FFG 53 USS Hawes, 21234					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
FFG 55 USS Elrod, 21236					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
FFG 56 USS Simpson, 21350					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
FFG 58 USS Samuel B. Roberts, 21352					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			

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
FFG 59 USS Kauffman, 21390					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
FFG 8 USS McInerney, 21032					
ACDU	0	2	IC2	4758	4746
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	3			
LCC 20 USS Mt. Whitney, 20001					
ACDU	0	2	IC1	4758	
	0	2	IC2	4758	9527
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	5			
LPD 12 USS Shreveport, 07195					
ACDU	0	1	IC1	4721	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 13 USS Nashville, 07196					
ACDU	0	1	IC1	4721	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 14 USS Trenton, 07200					
ACDU	0	1	IC1	4721	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 15 USS Ponce, 07201					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LPD 17 USS San Antonio (New Construction), 07207, FY02 Increment					
ACDU	0	1	IC1	4781	4758
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

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
LPD 19 USS (New Construction), 32421, FY04 Increment					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 21 USS (New Construction), 3013A, FY05 Increment					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 23 USS (New Construction), 3015A, FY06 Increment					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 25 USS (New Construction), 23181, FY07 Increment					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 4 USS Austin, 07175					
ACDU	0	1	IC1	4721	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LSD 36 USS Anchorage, 07203					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 37 USS Portland, 20012					
ACDU	0	1	IC2	4716	4758
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 41 USS Whidbey Island, 21218					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LSD 44 USS Gunston Hall, 21422					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 46 USS Tortuga, 21562					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 48 USS Ashland, 21531					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 50 USS Carter Hall, 21880					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 51 USS Oakhill, 21958					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4775	4758
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	3			
AGF 11 USS Coronado, 07194					
ACDU	0	1	IC1	4758	4716
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
AOE 1 USS Sacramento, 05832					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE 10 USS Bridge, 21979					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
AOE 2 USS Camden, 05833					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE 7 USS Rainier, 21872					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
ARS 50 USS Safeguard, 21245					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
ARS 52 USS Salvor, 21468					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
AS 40 USS Frank Cable, 20865					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CG 49 USS Vincennes, 21295					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	
	0	1	IC2	4758	
ACTIVITY TOTAL:	0	3			
CG 50 USS Valley Forge, 21296					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	
	0	2	IC2	4758	
ACTIVITY TOTAL:	0	4			
CG 52 USS Bunker Hill, 21345					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

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
CG 53 USS Mobile Bay, 21346					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	
	0	1	IC2	4758	
ACTIVITY TOTAL:	0	3			
CG 54 USS Antietam, 21387					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	
	0	1	IC2	4758	
ACTIVITY TOTAL:	0	3			
CG 57 USS Lake Champlain, 21428					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	
	0	1	IC2	4758	
ACTIVITY TOTAL:	0	3			
CG 59 USS Princeton, 21447					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG 62 USS Chancellorsville, 21451					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG 63 USS Cowpens, 21623					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	
	0	1	IC2	4758	
ACTIVITY TOTAL:	0	3			
CG 65 USS Chosin, 21625					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	ICFN	4746	
ACTIVITY TOTAL:	0	3			

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
CG 67 USS Shiloh, 21657					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG 70 USS Lake Erie, 21827					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	
	0	1	IC2	4758	
ACTIVITY TOTAL:	0	3			
CG 70 USS Port Royal, 21830					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	ICFN	4746	
ACTIVITY TOTAL:	0	3			
DD 964 USS Paul F. Foster, 20575					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 965 USS Kinkaid, 20576					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 966 USS Hewitt, 20586					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 967 USS Elliot, 20587					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			

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
DD 971 USS David R. Ray, 20591					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 972 USS Oldendorf, 20598					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 973 USS John Young, 20599					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 975 USS O'Brien, 20601					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 985 USS Cushing, 20617					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD 985 USS Fife, 20838					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	4			
DD 992 USS Fletcher, 20839					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			

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
DDG 101 USS (New Construction), 23151, FY05 Increment					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 103 USS (New Construction), 23165, FY06 Increment					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 53 USS John Paul Jones, 21313					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 54 USS Curtis Wilbur, 21640					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 54 USS Ford, 21235					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	4746
ACTIVITY TOTAL:	0	3			
DDG 56 USS John S. McCain, 21686					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 59 USS Russell, 21821					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG 62 USS Fitzgerald, 21824					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	2	IC3	4746	
ACTIVITY TOTAL:	0	4			
DDG 65 USS Benfold, 21940					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 69 USS Milius, 21943					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 70 USS Hopper, 21944					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 73 USS Decatur, 21947					
ACDU	0	1	IC2	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 76 USS Higgins, 21950					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 77 USS O'Kane, 21951					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG 83 USS Howard, 22999					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

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
DDG 85 USS McCampbell, 22993					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DDG 87 USS Mason, 22995					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DDG 89 USS Mustin, 22997, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DDG 91 USS Pinckney, 23145, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	4			
DDG 93 USS (New Construction), 23147, FY03 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DDG 95 USS (New Construction), 23153, FY03 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DDG 97 USS (New Construction), 23149, FY04 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

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
DDG 99 USS (New Construction), 23150, FY05 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
FFG 12 USS George Philips, 20965					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG 33 USS Jarrett, 21058					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	3			
FFG 37 USS Crommelin, 21104					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	3			
FFG 38 USS Curts, 21105					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	3			
FFG 41 USS McClusky, 21108					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	3			
FFG 43 USS Thach, 21110					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
	0	1	IC2	4758	4727
ACTIVITY TOTAL:	0	3			

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
FFG 45 USS De Wert, 21197					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
FFG 46 USS Rentz, 21198					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	2			
FFG 48 USS Vandegrift, 21200					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
FFG 51 USS Gary, 21232					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
FFG 57 USS Ruben James, 21351					
ACDU	0	1	EM2	4673	
	0	1	IC3	4758	4746
ACTIVITY TOTAL:	0	2			
FFG 60 USS Rodney M. Davis, 21391					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
FFG 61 USS Ingraham, 21430					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FFG 9 USS Wadsworth, 21033					
ACDU	0	1	EM2	4673	
TAR	0	1	IC1	4758	
	0	1	IC2	4746	
ACTIVITY TOTAL:	0	3			
LCC 19 USS Blue Ridge, 05840					
ACDU	0	1	IC1	4758	4721
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD 10 USS Juneau, 07184					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 18 USS New Orleans (New Construction), 23168, FY03 Increment					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 20 USS (New Construction), 3012A, FY04 Increment					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 22 USS (New Construction), 3014A, FY05 Increment					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 24 USS (New Construction), 23180, FY06 Increment					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 26 USS (New Construction), 23182, FY07 Increment					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 5 USS Ogden, 07176					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			

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
LPD 6 USS Duluth, 07177					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 7 USS Cleveland, 07181					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 8 USS Dubuque, 07182					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LPD 9 USS Denver, 07183					
ACDU	0	1	IC3	4746	4758
ACTIVITY TOTAL:	0	1			
LSD 39 USS Mount Vernon, 20014					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 42 USS Germantown, 21639					
ACDU	0	1	IC1	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 43 USS Fort McHenry, 21400					
ACDU	0	1	IC1	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 45 USS Comstock, 21452					
ACDU	0	1	IC1	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 47 USS Rushmore, 21530					
ACDU	0	1	IC1	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LSD 49 USS Harpers Ferry, 21852					
ACDU	0	1	IC1	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD 52 USS Pearl Harbor, 21959					
ACDU	0	1	IC1	4758	
	0	1	IC2	4758	
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	3			
LST 1184 USS Frederick, 20023					
TAR	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
MCS 12 USS Inchon, 20009					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - USN					
MTU 3040 CNATTU Norfolk, 66046					
ACDU	0	2	IC1	4746	9502
ACTIVITY TOTAL:	0	2			
Service School Command, Great Lakes, 30626					
ACDU	0	3	IC1	4746	9502
	0	3	IC2	4746	9502
ACTIVITY TOTAL:	0	6			
Fleet Training Center, San Diego, 61690					
ACDU	0	2	EM1	4673	9502
	0	2	IC1		9502
ACTIVITY TOTAL:	0	4			
MTU 3041 CNATTU North Island, 66065					
ACDU	0	1	ICC	4758	9502
	0	1	IC1	4758	9502
ACTIVITY TOTAL:	0	2			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
USN OPERATIONAL ACTIVITIES - ACDU														
EM1	4673			14		3		3		2		1		0
EM2	4673			79		0		0		0		0		0
IC1	4721	4728		4		0		0		0		0		0
IC1	4758			11		0		0		0		0		0
IC1	4758	4716		1		0		0		0		0		0
IC1	4758	4721		1		0		0		0		0		0
IC1	4758	4727		13		0		0		0		0		0
IC1	4758	4728		28		2		1		2		1		0
IC1	4758	4746		9		1		2		0		0		0
IC1	4781	4758		2		0		0		0		0		0
IC2	4716	4758		1		0		0		0		0		0
IC2	4746			7		0		0		0		0		0
IC2	4746	4703		18		0		0		0		0		0
IC2	4758			56		0		1		1		1		1
IC2	4758	4727		9		0		0		0		0		0
IC2	4758	4728		1		0		0		0		0		0
IC2	4758	4746		40		0		0		0		1		1
IC2	4758	9527		2		0		0		0		0		0
IC2	4775	4758		1		0		0		0		0		0
IC2	4777	4758		1		0		0		0		0		0
IC3	4746			60		2		2		3		2		1
IC3	4746	1416		22		0		0		0		0		0
IC3	4746	4758		6		1		1		1		1		1
IC3	4746	9526		6		0		0		0		0		0
IC3	4746	9527		15		0		0		0		0		0
IC3	4758	4746		10		1		2		0		0		0
ICFN	4746			3		0		0		0		0		0
USN OPERATIONAL ACTIVITIES - TAR														
EM2	4673			1		0		0		0		0		0
IC1	4758			1		0		0		0		0		0
IC1	4758	4727		3		0		0		0		0		0
IC2	4746			1		0		0		0		0		0
IC2	4758	4727		1		0		0		0		0		0
IC3	4746			1		0		0		0		0		0
USN FLEET SUPPORT ACTIVITIES - ACDU														
EM1	4673	9502		2		0		0		0		0		0
ICC	4758	9502		1		0		0		0		0		0
IC1	4746	9502		5		0		0		0		0		0
IC1	4758	9502		1		0		0		0		0		0
IC2	4746	9502		3		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	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
SUMMARY TOTALS:													
USN OPERATIONAL ACTIVITIES - ACDU		420		10		12		10		7		3	
USN OPERATIONAL ACTIVITIES - TAR		8		0		0		0		0		0	
USN FLEET SUPPORT ACTIVITIES - ACDU		14		0		0		0		0		0	
GRAND TOTALS:													
USN - ACDU		436		10		12		10		7		3	
USN - TAR		8		0		0		0		0		0	

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
TRAINING ACTIVITY, LOCATION, UIC: Fleet Training Center, Norfolk, 61797													
INSTRUCTOR BILLETS													
USN													
EMC	4673 9502	0	1	0	1	0	1	0	1	0	1	0	1
EM1	4673 9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	2	0	2	0	2	0	2	0	2	0	2
TRAINING ACTIVITY, LOCATION, UIC: Fleet Training Center, San Diego, 61690													
INSTRUCTOR BILLETS													
USN													
EM1	4673	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	4	0	4	0	4	0	4	0	4	0	4
TRAINING ACTIVITY, LOCATION, UIC: MTU 3040 CNATTU Norfolk, 66046													
INSTRUCTOR BILLETS													
USN													
IC1	4758 9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	2	0	2	0	2	0	2	0	2	0	2
TRAINING ACTIVITY, LOCATION, UIC: MTU 3041 CNATTU North Island, 66065													
INSTRUCTOR BILLETS													
USN													
IC1	4758 9502	0	1	0	1	0	1	0	1	0	1	0	1
ICC	4758 9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	2	0	2	0	2	0	2	0	2	0	2

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
TRAINING ACTIVITY, LOCATION, UIC: Service School Command, Great Lakes, 30626													
INSTRUCTOR BILLETS													
USN													
IC1	4746 9502	0	3	0	3	0	3	0	3	0	3	0	3
IC2	4746 9502	0	3	0	3	0	3	0	3	0	3	0	3
TOTAL:		0	6	0	6	0	6	0	6	0	6	0	6

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
Fleet Training Center, Norfolk, 61797													
	USN	0.0	1.6	0.0	1.5	0.0	1.7	0.0	1.5	0.0	1.7	0.0	1.5
MTU 3040 CNATTU Norfolk, 66046													
	USN	0.0	2.4	0.0	2.3	0.0	2.4	0.0	2.4	0.0	2.4	0.0	2.4
Service School Command, Great Lakes, 30626													
	USN	0.0	2.4	0.0	2.4	0.0	2.5	0.0	2.5	0.0	2.5	0.0	2.4
Fleet Training Center, San Diego, 61690													
	USN	0.0	1.4	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.4	0.0	1.4
MTU 3041 CNATTU North Island, 66065													
	USN	0.0	1.5	0.0	1.5	0.0	1.4	0.0	1.6	0.0	1.5	0.0	1.5
SUMMARY TOTALS:													
	USN	0.0	9.3	0.0	9.2	0.0	9.5	0.0	9.5	0.0	9.5	00	9.2
GRAND TOTALS:													
		0.0	9.3	0.0	9.2	0.0	9.5	0.0	9.5	0.0	9.5	00	9.2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY03 +/-	CFY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM
a. OFFICER - USN			Not Applicable										
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
EM1	4673		14	3	17	3	20	2	22	1	23	0	23
EM2	4673		80	0	80	0	80	0	80	0	80	0	80
IC1	4721	4728	4	0	4	0	4	0	4	0	4	0	4
IC1	4758		12	0	12	0	12	0	12	0	12	0	12
IC1	4758	4716	1	0	1	0	1	0	1	0	1	0	1
IC1	4758	4721	1	0	1	0	1	0	1	0	1	0	1
IC1	4758	4727	16	0	16	0	16	0	16	0	16	0	16
IC1	4758	4728	28	2	30	1	31	2	33	1	34	0	34
IC1	4758	4746	9	1	10	2	12	0	12	0	12	0	12
IC1	4781	4758	2	0	2	0	2	0	2	0	2	0	2
IC2	4716	4758	1	0	1	0	1	0	1	0	1	0	1
IC2	4746		8	0	8	0	8	0	8	0	8	0	8
IC2	4746	4703	18	0	18	0	18	0	18	0	18	0	18
IC2	4758		56	0	56	1	57	1	58	1	59	1	60
IC2	4758	4727	10	0	10	0	10	0	10	0	10	0	10
IC2	4758	4728	1	0	1	0	1	0	1	0	1	0	1
IC2	4758	4746	40	0	40	0	40	1	41	1	42	0	42
IC2	4758	9527	2	0	2	0	2	0	2	0	2	0	2
IC2	4775	4758	1	0	1	0	1	0	1	0	1	0	1
IC2	4777	4758	1	0	1	0	1	0	1	0	1	0	1
IC3	4746		61	2	63	2	65	3	68	2	70	1	71
IC3	4746	1416	22	0	22	0	22	0	22	0	22	0	22
IC3	4746	4758	6	1	7	1	8	1	9	1	10	1	11
IC3	4746	9526	6	0	6	0	6	0	6	0	6	0	6
IC3	4746	9527	15	0	15	0	15	0	15	0	15	0	15
IC3	4758	4746	10	1	11	2	13	0	13	0	13	0	13
ICFN	4746		3	0	3	0	3	0	3	0	3	0	3
Fleet Support Billets ACDU and TAR													
EM1	4673	9502	2	0	2	0	2	0	2	0	2	0	2
ICC	4758	9502	1	0	1	0	1	0	1	0	1	0	1
IC1		9502	2	0	2	0	2	0	2	0	2	0	2
IC1	4746	9502	5	0	5	0	5	0	5	0	5	0	5
IC1	4758	9502	1	0	1	0	1	0	1	0	1	0	1
IC2	4746	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	CFY03 +/-	CFY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM
Staff Billets ACDU and TAR													
EMC	4673	9502	1	0	1	0	1	0	1	0	1	0	1
EM1	4673		2	0	2	0	2	0	2	0	2	0	2
EM1	4673	9502	1	0	1	0	1	0	1	0	1	0	1
ICC	4758	9502	1	0	1	0	1	0	1	0	1	0	1
IC1	4746	9502	3	0	3	0	3	0	3	0	3	0	3
IC1	4758	9502	3	0	3	0	3	0	3	0	3	0	3
IC2	4746	9502	3	0	3	0	3	0	3	0	3	0	3
Chargeable Student Billets ACDU and TAR													
			10	0	10	0	10	0	10	0	10	0	10
TOTAL USN ENLISTED BILLETS:													
Operational			428	10	438	12	450	10	460	7	467	3	470
Fleet Support			14	0	14	0	14	0	14	0	14	0	14
Staff			16	0	16	0	16	0	16	0	16	0	16
Chargeable Student			10	0	10	0	10	0	10	0	10	0	10

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC Not Applicable

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance

COURSE LENGTH: 2.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
Service School Command, Great Lakes												
	USN	ACDU		77		79		79		79		78
		TAR		1		1		1		1		1
		TOTAL:		78		80		80		80		79

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
COURSE LENGTH: 3.4 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.07

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
MTU 3040 CNATTU Norfolk												
	USN	ACDU		37		39		38		38		38
		TAR		1		1		1		1		1
MTU 3041 CNATTU North Island												
	USN	ACDU		25		24		25		25		25
		TAR		0		0		1		0		0
		TOTAL:		63		64		65		64		64

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
COURSE LENGTH: 5.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.10

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03 OFF	CFY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL
Fleet Training Center, Norfolk												
	USN	ACDU		18		19		18		19		18
		TAR		0		1		0		1		0
Fleet Training Center, San Diego												
	USN	ACDU		17		17		17		16		16
		TOTAL:		35		37		35		36		34

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the Air Capable Ship VLA Systems and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

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. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
TRAINING ACTIVITY: Service School Command
LOCATION, UIC: Great Lakes, 30626

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
78		80		80		80		79		ATIR
70		72		72		72		71		Output
2.4		2.5		2.5		2.5		2.4		AOB
2.4		2.5		2.5		2.5		2.4		Chargeable

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
TRAINING ACTIVITY: MTU 3040 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
38		40		39		39		39		ATIR
34		36		35		35		35		Output
2.3		2.4		2.4		2.4		2.4		AOB
2.3		2.4		2.4		2.4		2.4		Chargeable

TRAINING ACTIVITY: MTU 3041 NAMTRAU
LOCATION, UIC: NAS North Island, 66065

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
25		24		26		25		25		ATIR
23		22		23		23		23		Output
1.5		1.4		1.6		1.5		1.5		AOB
1.5		1.4		1.6		1.5		1.5		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: Fleet Training Center
LOCATION, UIC: NS Norfolk, 61797

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
18		20		18		20		18		ATIR
16		18		16		18		116		Output
1.5		1.7		1.5		1.7		1.5		AOB
1.5		1.7		1.5		1.7		1.5		Chargeable

TRAINING ACTIVITY: Fleet Training Center
LOCATION, UIC: San Diego, 61690

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

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
17		17		17		16		16		ATIR
15		15		15		14		14		Output
1.5		1.5		1.5		1.4		1.4		AOB
1.5		1.5		1.5		1.4		1.4		Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the Air Capable Ship VLA Systems and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

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: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
TRAINING ACTIVITY: Service School Command
LOCATION, UIC: Great Lakes, 30626

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Black and White Monitor	28	Mar 96	GFE	Onboard
002	Color Camera	16	Mar 96	GFE	Onboard
003	Color Monitor	21	Mar 96	GFE	Onboard
004	Camcorder	10	Mar 96	GFE	Onboard
005	Color Receiver	20	Mar 96	GFE	Onboard
006	Video Recorder	10	Mar 96	GFE	Onboard
007	Ships Information Console	3	Mar 96	GFE	Onboard
008	Bulk Tape Eraser	2	Mar 96	GFE	Onboard
GPTE					
050	Digital MultiMate	17	Mar 96	GFE	Onboard
051	Oscilloscope	17	Mar 96	GFE	Onboard
052	Video Analyzer	17	Mar 96	GFE	Onboard
053	Isolation Transformer	17	Mar 96	GFE	Onboard
054	High Voltage Probe	17	Mar 96	GFE	Onboard
055	Waveform Monitor	17	Mar 96	GFE	Onboard
056	Vectorscope	8	Mar 96	GFE	Onboard
057	Field Strength Meter	10	Mar 96	GFE	Onboard
058	Light meter	3	Mar 96	GFE	Onboard
ST					
100	Tool Kit Television Repair	3	Mar 96	GFE	Onboard
101	Lighting Kit	3	Mar 96	GFE	Onboard
102	Light Box PTB-500	8	Mar 96	GFE	Onboard

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

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: Fleet Training Center
LOCATION, UIC: NS Norfolk, 61797

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
009	RAST System	1	May 00	GFE	Onboard
010	Horizon Reference Set	1	May 00	GFE	Onboard
GPTE					
051	Oscilloscope	1	May 00	GFE	Onboard
059	Stop Watch	1	May 00	GFE	Onboard
060	Headset, Sound Powered	2	May 00	GFE	Onboard
061	Ultraviolet Light, Magnaflux	1	May 00	GFE	Onboard
062	RPM Indicator	1	May 00	GFE	Onboard
ST					
103	Plate, Restraint	1	May 00	GFE	Onboard
104	Electrical Tool Box	1	May 00	GFE	Onboard
105	Mechanical Tool Box	1	May 00	GFE	Onboard
106	Calibration Kit	1	May 00	GFE	Onboard

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

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: Fleet Training Center
LOCATION, UIC: San Diego, 61690

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
009	RAST System	1	May 00	GFE	Onboard
010	Horizon Reference Set	1	May 00	GFE	Onboard
GPTE					
050	Digital Multimeter	1	May 00	GFE	Onboard
051	Oscilloscope	1	May 00	GFE	Onboard
059	Stop Watch	1	May 00	GFE	Onboard
060	Headset, Sound Powered	2	May 00	GFE	Onboard
061	Ultraviolet Light, Magnaflux	1	May 00	GFE	Onboard
062	RPM Indicator	1	May 00	GFE	Onboard
063	800A Digital Volt Meter	12	Dec 99	GFE	Onboard
ST					
103	Plate, Restraint	1	May 00	GFE	Onboard
104	Electrical Tool Box	1	May 00	GFE	Onboard
105	Mechanical Tool Box	1	May 00	GFE	Onboard
106	Calibration Kit	1	May 00	GFE	Onboard

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

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
TRAINING ACTIVITY: MTU 3040 CNATTU
LOCATION, UIC: NAS Norfolk, 66046

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
011	FDSSS Installation	1	Dec 99	GFE	Onboard
012	SGSI Installation	1	Dec 99	GFE	Onboard
013	Eave-Off Light System	1	Dec 99	GFE	Onboard
GPTE					
050	Digital Multimeter	1	May 00	GFE	Onboard
063	800A Digital Volt Meter	12	Dec 99	GFE	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
TRAINING ACTIVITY: MTU 3041 CNATTU
LOCATION, UIC: NAS North Island, 66065

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
011	FDSSS Installation	1	Dec 99	GFE	Onboard
012	SGSI Installation	1	Dec 99	GFE	Onboard
013	Eave-Off Light System	1	Dec 99	GFE	Onboard
GPTE					
050	Digital Multimeter	1	May 00	GFE	Onboard
063	800A Digital Volt Meter	12	Dec 99	GFE	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
TRAINING ACTIVITY: Service School Command
LOCATION, UIC: Great Lakes, 30626

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Color Monitor	1	Mar 96	Onboard
Instructor Guide	1	Mar 96	Onboard
Overhead Projector	1	Mar 96	Onboard
Prefaulted Module Set	1	Mar 96	Onboard
Student Guide	15	Mar 96	Onboard
Student Test	15	Mar 96	Onboard
Student Text (NEETS Modules 1 through 23)	15	Mar 96	Onboard
Transistor Trainer	16	Mar 96	Onboard
Transparencies	1 Set	Mar 96	Onboard
Video Tape (Antennas)	1	Mar 96	Onboard
Video Tape (Resonant Lines)	1	Mar 96	Onboard
Video Tape (Similarities of Wave Behavior)	1	Mar 96	Onboard
Video Tape (Transmission Line Theory)	1	Mar 96	Onboard
Video Tape Player	1	Mar 96	Onboard
Wall Chart	1 Set	Mar 96	Onboard

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: Fleet Training Center
LOCATION, UIC: NS Norfolk, 61797

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
35 Millimeter Slide Projector	1	May 00	Onboard
35 Millimeter Slide Projector	1	May 00	Onboard
35 Millimeter slides	1 Set	May 00	Onboard
35 Millimeter slides	1 Set	May 00	Onboard
Instructor Guide	2	May 00	Onboard
Instructor Guide	2	Dec 99	Onboard
Overhead Projector	1	May 00	Onboard
Overhead Projector	1	May 00	Onboard
Prefaulted Module Set	1 Set	May 00	Onboard
Prefaulted Module Set	1 Set	May 00	Onboard
Sony Color Monitor	1	May 00	Onboard
Sony Color Monitor	1	May 00	Onboard
Student Guide	25	Dec 99	Onboard
Student Guide	10	May 00	Onboard
Transparencies	1 Set	May 00	Onboard
Transparencies	1 Set	May 00	Onboard
Video Cassette Recorder	1	May 00	Onboard
Video Cassette Recorder	1	May 00	Onboard
Video Tape (LAMPS MK-III RASR System)	1	May 00	Onboard
Video Tape (LAMPS MK-III RASR System)	1	May 00	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
TRAINING ACTIVITY: MTU 3040 CNATTU
LOCATION, UIC: NAS Norfolk, 66046

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guide	2	May 00	Onboard
Overhead Projector	1	Dec 99	Onboard
Student Guide	10	May 00	Onboard
Student Test	25	Dec 99	Onboard
Transparencies	1 Set	Dec 99	Onboard
Wall Chart	8	Dec 99	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
TRAINING ACTIVITY: MTU 3041 CNATTU
LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guide	2	Dec 99	Onboard
Overhead Projector	1	Dec 99	Onboard
Student Guide	25	Dec 99	Onboard
Student Test	25	Dec 99	Onboard
Transparencies	1 Set	Dec 99	Onboard
Wall Chart	8	Dec 99	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
TRAINING ACTIVITY: Service School Command
LOCATION, UIC: Great Lakes, 30626

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
ISBN 0-07-024928-8 Basic Electronics	Hard copy	1	Mar 96	Onboard
ISBN 0-07-024931-8 Electronic Circuits and Applications	Hard copy	1	Mar 96	Onboard
ISBN 0-07-024933-4 Basic Television and Video Systems	Hard copy	14	Mar 96	Onboard
ISBN 0-672-22749-5 VCR Theory and Repair	Hard copy	14	Mar 96	Onboard
NAVSEA 0967-LP-000-0120 Electronic Circuits	Hard copy	1	Mar 96	Onboard

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: Fleet Training Center
LOCATION, UIC: NS Norfolk, 61797

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400A1 MDB-000 Horizontal Reference Set A/W 37A-1 Intermediate/Depot Maintenance Manual	Hard copy	10	May 00	Onboard
AD-400A1-IPB-000 Illustrated Parts Breakdown, Horizon Reference Set A/W 37A-1	Hard copy	10	May 00	Onboard
AD-400A1-OMB-000 Horizontal Reference Set A/W 37A-1 Organizational Maintenance	Hard copy	10	May 00	Onboard
AD-700A1-IPB-000 RAST System A/W 42U-1(V) Illustrated Parts Breakdown	Hard copy	10	May 00	Onboard
AD-700A1-OMI-000 RAST System A/W 42U1(V) Organizational Maintenance	Hard copy	10	May 00	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: Fleet Training Center
LOCATION, UIC: San Diego, 61690

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400A1 MDB-000 Horizontal Reference Set A/W 37A-1 Intermediate/Depot Maintenance Manual	Hard copy	10	May 00	Onboard
AD-400A1-IPB-000 Illustrated Parts Breakdown, Horizon Reference Set A/W 37A-1	Hard copy	10	May 00	Onboard
AD-400A1-OMB-000 Horizontal Reference Set A/W 37A-1 Organizational Maintenance	Hard copy	10	May 00	Onboard
AD-700A1-IPB-000 RAST System A/W 42U-1(V) Illustrated Parts Breakdown	Hard copy	10	May 00	Onboard
AD-700A1-OMI-000 RAST System A/W 42U1(V) Organizational Maintenance	Hard copy	10	May 00	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
TRAINING ACTIVITY: MTU 3040 CNATTU
LOCATION, UIC: NAS Norfolk, 66046

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400B1-OMI-000 Flight Deck Status and Signaling System Maintenance Manual	Hard copy	15	Dec 99	Onboard
NAVAIR 51-5B-2 Stabilized Glide Slope Indicator Maintenance Manual	Hard copy	15	Dec 99	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance
TRAINING ACTIVITY: MTU 3041 CNATTU
LOCATION, UIC: NAS North Island, 66065

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400B1-OMI-000 Flight Deck Status and Signaling System Maintenance Manual	Hard copy	15	Dec 99	Onboard
NAVAIR 51-5B-2 Stabilized Glide Slope Indicator Maintenance Manual	Hard copy	15	Dec 99	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
TSA	Distributed Draft NTSP for Review	Oct 91	Completed
PDA	Conducted NTSP Conference	Feb 93	Completed
PDA	Submitted Proposed NTSP to OPNAV	Jul 93	Completed
OPNAV	Approved NTSP	Aug 93	Completed
PDA	Provided Initial Training for HOSS, HRS, SGSI, FDSSS, and WOL	Jan 94	Completed
TSA	Delivered TTE for HOSS, HRS, SGSI, FDSSS, and WOL to Training Sites	Apr 95	Completed
TA	Began Follow-on Training for HOSS, HRS, SGSI, FDSSS, and WOL	Oct 95	Completed
TSA	Developed Proposed NTSP	Feb 00	Completed
OPNAV	Approved NTSP	Apr 00	Completed
TSA	Developed Draft NTSP	Jul 02	Completed
TSA	Distributed Draft NTSP for Review	Aug 02	Completed
PDA	Achieve VLA Initial Operating Capability on LPD 17 Class Ships	Sep 02	Completed
TSA	Developed Proposed NTSP for OPNAV Approval	May03	Completed
PDA	Complete Planned VLA Installations Aboard LPD 17 Class Ships	FY08	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
No NTSP decisions or actions pending			

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT John Chase Deputy Aviation Maintenance Programs CNO, N781 john.chase@navy.mil	**COMM:** (703) 604-7747 **DSN:** 664-7747 **FAX:** (703) 604-6972
CDR Ray O'Donnell Resource Sponsor / Program Sponsor CNO, N785E1 raymond.o'donnell@navy.mil	**COMM:** (703) 614-3375 **DSN:** 224-3375 **FAX:** (703) 695-3066
AZC Daniel Burlile NTSP Manager CNO, N782B3A daniel.burlile@navy.mil	**COMM:** (703) 604-7709 **DSN:** 664-7709 **FAX:** (703) 604-6939
LCDR Jim Arend Aviation Manpower CNO, N122C1 james.arend.navy.mil	**COMM:** (703) 695-3223 **DSN:** 225-3223 **FAX:** (703) 614-5308
CAPT David Mahoney Head, Reserve Air Logistics Programs CNO, N0955F david.mahoney@navy.mil	**COMM:** (703) 601-1872 **DSN:** 329-1872 **FAX:** (703) 601-0561
CAPT Michael Disano Professional Development Division Director CNO, N00T3 michael.disano@navy.mil	**COMM:** (703) 602-5172 **DSN:** 332-5172 **FAX:** (703) 602-5175
Mr. Robert Zweibel Human Performance and Acquisition Assessment Division CNO, N00T46 robert.zweibel@navy.mil	**COMM:** (703) 602-5151 **DSN:** 332-5151 **FAX:** (703) 602-5175
CAPT Jorge Sierra Branch Head, Training Requirements and Assessments COMLANTFLT, N72 jorge.sierra@navy.mil	**COMM:** (757) 836-6495 **DSN:** 836-6495 **FAX:** (757) 836-6794
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PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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ACCM Mike Holder Training Systems Manager NAVAIR, PMA2053B1 michael.holder@navy.mil	**COMM:** (301) 757-8126 **DSN:** 757-8126 **FAX:** (301) 757-6945
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Ms. Cindy Sturm IFLOLS / LRLS / VLA In-Service Logistics Manager NAVAIR Lakehurst, AIR 3.1.4.1 cindy.sturm@navy.mil	**COMM:** (732) 323-1825 **DSN:** 624-1825 **FAX:** (732) 323-7402
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PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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CDR Janet Wiley Center for Naval Aviation Technical Training (CNATT) Functional Integration Directorate (FID), N51 cdr-janet.wiley@cnet.navy.mil	**COMM:** (850) 452-7146 **DSN:** 922-7146 **FAX:** (850) 452-7149
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ICC Ralph Ianetta SGSI / FDSSS / WOL Curricula Manager NAMTRAGRU DET 3040 No e-mail	**COMM:** (757) 444-3517 **DSN:** 564-3517 **FAX:** (757) 444-1210
ICC John Nellis ICC School Branch Head SSC Great Lakes, C1 Icc.nellis@smtp.cnet.navy.mil	**COMM:** (847) 688-3224 **DSN:** 792-3224 **FAX:** (847) 688-3233
Ms. Barbara Klasaer Technical Data Distribution Manager NATEC, D125 distribution@natec.navy.mil	**COMM:** (619) 545-2570 **DSN:** 735-2570 **FAX:** (619) 545-2525
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PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT John Chase Deputy Aviation Maintenance Programs CNO, N781 john.chase@navy.mil	**COMM:** (703) 604-7747 **DSN:** 664-7747 **FAX:** (703) 604-6972
CDR Ray O'Donnell Resource Sponsor / Program Sponsor CNO, N785E1 raymond.o'donnell@navy.mil	**COMM:** (703) 614-3375 **DSN:** 224-3375 **FAX:** (703) 695-3066
AZC Daniel Burlile NTSP Manager CNO, N782B3A daniel.burlile@navy.mil	**COMM:** (703) 604-7709 **DSN:** 664-7709 **FAX:** (703) 604-6939
LCDR Jim Arend Aviation Manpower CNO, N122C1 james.arend.navy.mil	**COMM:** (703) 695-3223 **DSN:** 225-3223 **FAX:** (703) 614-5308
CAPT David Mahoney Head, Reserve Air Logistics Programs CNO, N0955F david.mahoney@navy.mil	**COMM:** (703) 601-1872 **DSN:** 329-1872 **FAX:** (703) 601-0561
CAPT Michael Disano Professional Development Division Director CNO, N00T3 michael.disano@navy.mil	**COMM:** (703) 602-5172 **DSN:** 332-5172 **FAX:** (703) 602-5175
Mr. Robert Zweibel Human Performance and Acquisition Assessment Division CNO, N00T46 robert.zweibel@navy.mil	**COMM:** (703) 602-5151 **DSN:** 332-5151 **FAX:** (703) 602-5175
CAPT Jorge Sierra Branch Head, Training Requirements and Assessments COMLANTFLT, N72 jorge.sierra@navy.mil	**COMM:** (757) 836-6495 **DSN:** 836-6495 **FAX:** (757) 836-6794
CDR Mike Hohl Aviation NTSP Point of Contact COMLANTFLT, N7321 john.hohl@navy.mil	**COMM:** (757) 836-0085 **DSN:** 836-0085 **FAX:** (757) 836-6737
Mr. Bob Long Deputy Director for Training COMPACFLT, N70 robert.h.long@navy.mil	**COMM:** (808) 471-8513 **DSN:** 471-8513 **FAX:** (808) 471-8596
CAPT Robert Holland Deputy Assistant, Chief of Naval Personnel for Distribution NAVPERSCOM, PERS-4B robert.holland@navy.mil	**COMM:** (901) 874-3529 **DSN:** 882-3529 **FAX:** (901) 874-2606

PART VII - POINTS OF CONTACT

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