

NAVY TRAINING SYSTEM PLAN
FOR THE
H-60 ARMED HELICOPTER PROGRAM

N88-NTSP-A-50-9805/D

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H-60 ARMED HELICOPTER PROGRAM

EXECUTIVE SUMMARY

The H-60 Armed Helicopter Program incorporates several systems into the HH-60H and selected SH-60B Helicopters to improve their warfare capabilities. These systems increase situational awareness, enhance aircraft survivability, and provide a threat suppression capability. The H-60 Armed Helicopter Program provides day and night targeting for missile tracking of designated hostile targets using the AN/AAS-44(V) Infrared Laser Detecting-Ranging Tracking Set. Additional systems provide Hellfire Missile launching capabilities and small arms capabilities utilizing the GAU-16/A and GAU-17/A Machine Guns. The H-60 Armed Helicopter Program successfully passed Milestone C of the Weapon System Acquisition Process in April 2000.

The majority of H-60 Armed Helicopter components are manufactured by Lockheed-Martin Federal Systems. The Forward Looking Infrared is manufactured by Texas Instruments Defense Systems and Electronics Group. Retrofit, known as the Rapid Deployment Program, began with the SH-60B by Lockheed-Martin Federal Systems in August 1996 and with the HH-60H by Hughes Technical Services Incorporated in January 1997. Naval Reserve Helicopter Combat Support Special Squadrons Four and Five (HCS-4 and HCS-5) are the only activities scheduled to receive the GAU-17/A Machine Gun.

Engineering Change Proposal (ECP)-267 Forward Looking Infrared (FLIR) Contingency Kit (FCK) was the first system to be fielded that would eventually become part of the H-60 Armed Helo program. The heart of the FCK is the AN/AAS-44 (V) Infrared Laser Detecting-Ranging-Tracking Set. The AN/AAS-44 (V) is also the heart of the HH-60H Armed Helo (ECP-1109) and the SH-60B Armed Helo (ECP-1155).

Maintenance of the H-60 Armed Helicopter is performed at the organizational level, by Aviation Electronics Technicians (AT) and Aviation Ordnanceman with Navy Enlisted Classification (NEC) 8376, 8876, and 8378 for the SH-60B Helicopter and Aviation Ordnanceman, and Aviation Electronics Technician, NECs 8378 and 8878 for the HH-60H Helicopter. Minor intermediate level maintenance is required to support the H-60 Armed Helicopter Program. The contractors (Lockheed-Martin Federal Systems and Texas Instruments Defense and Electronics Group) are providing interim maintenance until depot level maintenance is established.

Follow-on operator training for SH-60B is currently being taught by Fleet Readiness Squadrons (FRS) HSL-40, Naval Station (NS) Mayport, Florida, and HSL-41, Naval Air Station (NAS) North Island, California. Follow-on operator training for HH-60H aircrew personnel is provided by HS-10, NAS North Island, and Weapons Training Unit, NAS Jacksonville, Florida. Follow-on maintenance training to support the SH-60B is provided by Maintenance Training Unit (MTU) 1022 Naval Air Maintenance Training Unit (NAMTRAU) North Island, California and

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MTU 1066 Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Mayport, Florida. Follow-on maintenance training to support the HH-60H and SH-60B AOs is provided by MTU 1005 NAMTRAU Jacksonville, Florida, and MTU 1022 NAMTRAU North Island. Conventional Weapons Load training for the SH-60B and HH-60H is provided by MTUs 1022, 1005, and 1066. Follow-on training for GAU-16/A Machine Gun operator and maintenance personnel is provided by HSL-40, NS Mayport, and HSL-41, NAS North Island. Follow-on training for GAU-17/A Machine Gun operator and maintenance personnel is provided by NAMTRAGRU DET Camp Pendleton, California, on an as needed basis.

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LIST OF ACRONYMS

ACRT	Armament Controller-Receiver-Transmitter
AE	Aviation Electrician's Mate
AFC	Airframes Change
AM	Aircraft Mount
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
AT	Aviation Electronics Technician
ATO	Airborne Tactical Officer
BIT	Built-In Test
BSC	Boresight Collimator
CATM	Captive Air Training Missile
CIN	Course Identification Number
CINCLANTFLT	Commander In Chief, Atlantic Fleet
CINCPACFLT	Commander In Chief, Pacific Fleet
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMNAVAIRESFOR	Commander, Naval Air Reserve Force
DATM	Dummy Air Training Missile
DT	Developmental Test
ECP	Engineering Change Proposal
EU	Electronics Unit
FCK	FLIR Contingency Kit
FHS	FLIR Hellfire System
FLIR	Forward Looking Infrared
FLIR/LRD	Forward Looking Infrared/Laser Range Designator
FMS	Foreign Military Sales
FRS	Fleet Readiness Squadron
FY	Fiscal Year
GPETE	General Purpose Electronic Test Equipment
GPTE	General Purpose Test Equipment
HCU	Hand Control Unit

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LIST OF ACRONYMS

HCS	Helicopter Combat Support Special Squadron
HL	Hellfire Launcher
HS	Helicopter Antisubmarine Squadron
HSL	Helicopter Squadron Light
ILDRTS	Infrared Laser Detecting-Ranging Tracking Set
IR	Infrared
LOS	Line-of-Sight
LRD	Laser Range/Designator
LSSO	Laser System Safety Officer
MPT	Manpower, Personnel, and Training
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit
NA	Not Applicable
NAMTRAU	Naval Air Maintenance Training Unit
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAMTRAGRU HQ	Naval Air Maintenance Training Group Headquarters
NAS	Naval Air Station
NATEC	Naval Air Technical Data and Engineering Service Command
NAVAIRSYSCOM	Naval Air Systems Command
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWCADIND	Naval Air Warfare Center Aircraft Division Indianapolis
NEC	Navy Enlisted Classification
NRWATS	Naval Rotary Wing Aircraft Test Squadron
NS	Naval Station
NTSP	Navy Training System Plan
OJT	On-the-Job Training
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
OT	Operational Test
PDA	Principal Development Activity

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LIST OF ACRONYMS

PMA	Program Manager, Air
PQS	Personnel Qualification Standards
RD	Rapid Deployment
RFT	Ready For Training
SDC	Signal Data Converter
SO	Sensor Operator
SPETE	Special Purpose Electronic Test Equipment
SPTE	Special Purpose Test Equipment
TD	Training Device
TTE	Technical Training Equipment
TU	Turret Unit
WRA	Weapon Replaceable Assembly
WTU	Weapons Training Unit

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PREFACE

This Draft Navy Training System Plan (NTSP) has been prepared to document the current Manpower, Personnel, and Training (MPT) requirements for the H-60 Armed Helicopter Program. It has been updated to comply 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. It contains the latest information pertaining to:

- Engineering Change Proposal (ECP)-267 Forward Looking Infrared (FLIR) Contingency Kit (FCK)
- ECP-1109 (now Airframes Change (AFC)-132) HH-60H FLIR/Hellfire System (FHS)
- ECP-1155 (now AFC-171) SH-60B FHS installations

This NTSP addresses small arms capabilities using the GAU-16/A and GAU-17/A Machine Guns in the SH-60B and HH-60H Helicopters. It also reflects the increase in the Aviation Ordnanceman (AO) manning in the SH-60B activities, and a change in Navy Enlisted Classification (NEC) codes and updated courses due to the consolidation of the SH-60B, SH-60F, and HH-60H Helicopter training.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** H-60 Armed Helicopter Program
2. **Program Element.** 0204243

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 (N780E3)
- OPO Resource Sponsor CNO (N780E3)
- Developing Agency..... NAVAIRSYSCOM (PMA299)
- Training Agency CINCLANTFLT
CINCPACFLT
CNET
COMNAVAIRESFOR
- Training Support Agency..... NAVAIRSYSCOM (PMA205)
COMNAVAIRESFOR
- Manpower and Personnel Mission Sponsor CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)
- Director of Naval Training CNO (N795)
- Commander, Reserve Program Manager COMNAVAIRESFOR (N7211)

D. SYSTEM DESCRIPTION

1. Operational Uses. The H-60 Armed Helicopter Program (from this point forward in this NTSP referred to as "Armed Helo") provides the H-60 aircrew with increased situational awareness, discretionary defensive strike capability against multiple targets, enhanced night navigation, autonomous as well as cooperative target acquisition and designation, and enhanced survivability. The Armed Helo consists of the Hellfire Missile launching capabilities, the AN/AAS-44(V) Infrared Laser Detecting-Ranging Tracking Set (ILDRTS), and small arms capability utilizing the GAU-16/A and GAU-17/A Machine Guns.

Currently, there are seventeen HH-60H Helicopters with GAU-17/A Machine Guns. Helicopter Combat Support Special Squadron (HCS)-4 and HCS-5 are the only commands that received the GAU-17/A Machine Guns. The SH-60B "Block 0" Helicopters have all the Armed Helo capabilities except the Hellfire Missile system.

2. Foreign Military Sales. Foreign Military Sales (FMS) are planned. For information on FMS refer to Program Manager, Air (PMA)299.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The following Developmental Tests (DT) and Operational Tests (OT) were completed for the Armed Helo System installed on the SH-60B and HH-60H Helicopters.

DT and OT for AFC-171 (which was ECP-1155) incorporating the GAU-16/A Machine Gun and the H-60 FHS into SH-60B Block I was conducted in two phases. Phase one was encouraged by the Chief of Naval Operations (CNO) to be the earliest implementation of AFC-171 to eight SH-60B Block I aircraft, known as the SH-60B "Rapid Deployment" (RD) Helicopter. Phase one DT and OT was completed by Naval Rotary Wing Aircraft Test Squadron (NRWATS), Naval Air Warfare Center Aircraft Division (NAWCAD) Patuxent River, Maryland, in second quarter Fiscal Year (FY) 97. Phase two completed incorporation of AFC-171. This is known as "Core B". Core B includes enhanced capabilities not installed on the SH-60B RD FHS. Phase two DT was conducted in fourth quarter FY98 and OT was conducted in first quarter FY99.

DT and OT for AFC-132 (which was ECP-1109) incorporating the H-60 FHS into the HH-60H Helicopters was conducted by NRWATS, NAWCAD Patuxent River and VX-1 at Naval Air Station (NAS) Patuxent River, Maryland.

ECP-267 incorporated the AN/AAS-44(V) Forward Infrared/Laser Range Designator (FLIR/LRD) (as called in the ECP documentation) and the GAU-16/A Machine Gun into the SH-60B Helicopter. NRWATS completed DT for the FLIR/LRD System in fourth quarter FY97. VX-1 completed OT for the FLIR/LRD System in fourth quarter FY97. DT for the GAU-16/A Machine Gun was conducted by NRWATS and OT for the GAU-16/A Machine Gun was conducted by VX-1.

DT and OT for GAU-17/A Machine Guns was completed during introduction to the Marine Corps UH-1 Helicopter. DT for the GAU-17/A Machine Guns was conducted by NRWATS in

May 1993. VX-1 conducted OT for the GAU-17/A Machine Guns in August 1993. DT was completed on the AGM-114K Hellfire Missile captive carry and release in FY94. OT requirements were waved for the AGM-114K Hellfire Missile.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The Armed Helo will not replace any systems or equipment currently installed in the SH-60B or HH-60H Helicopters.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The Armed Helo consists of the FLIR/LRD System, the Hellfire Missile System, and either the GAU-16/A or GAU-17/A Machine Guns. The FLIR/LRD System provides a video driver capability for displaying thermal images in day, night, and adverse weather conditions. The FLIR/LRD System also stores status on a Multi-Function Display and provides guidance to the pilot for placing the Hellfire Missiles on target. The HH-60H and the SH-60B Helicopters are the only aircraft receiving Armed Helo at this time.

AFC-171 is installed in the SH-60B Block I Helicopter and consists of the following items: fixed provision cable harness, power distribution unit, nose mount bracket, (-11) Multiplexer-Demultiplexer, Armament Controller-Receiver-Transmitter (ACRT), Signal Data Converter (SDC), M299 Hellfire Launcher (HL), left-hand extended pylon, BRU-14/A Bomb Rack, cable harness, AN/AAS-44(V) FLIR/LRD system, nose mount platform, and GAU-16/A Machine Gun.

AFC-132 is installed in the HH-60H Helicopter. AFC-132 consists of components identical to AFC-171 except for aircraft system wire routing to match its intended helicopter, and AFC-132 does not contain the (-11) Multiplexer-Demultiplexer and the GAU-16/A Machine Gun.

ECP-267 is installed on the SH-60B Block 0 and Block I Helicopters. It contains the same components as AFC-171 with the exception of the ACRT, Power Converter Unit, aircraft wiring, and Hellfire Missile system.

The Armed Helo contains the following components:

a. AN/AAS-44(V) Forward Looking Infrared/Laser Range Designator. The AN/AAS-44(V) FLIR/LRD converts long wavelength Infrared (IR) radiation from a scene into a real-time video signal for processing on an operator's display. It provides additional video data outputs for data link and Video Cassette Recorder interfaces. The AN/AAS-44(V) FLIR/LRD provides pointing information regarding its optical Line-of-Sight (LOS) relative to its mounting surface. It directs its LOS to pointing angles determined by input commands from the operator via the avionics system.

(1) Turret Unit. The Turret Unit (TU) RT-1735-44(V) houses the IR receiver, the LRD, sensor optics, pointing and stabilization gimbals, associated circuitry, and

environmental control equipment. The TU is mounted on the starboard pylon of the SH-60B Helicopter in the FCK configuration. The TU is mounted on the nose of the SH-60B and HH-60H Helicopters in the FHS configuration.

(2) Electronics Unit. The Electronics Unit (EU) C-2393/AAS-44(V) houses the AN/AAS-44(V) FLIR power supplies, video processing circuitry, AN/AAS-44(V) FLIR mode control circuitry, and AN/AAS-44(V) FLIR-to-avionics system interface circuitry. The EU receives a discrete LRD trigger and turret positioning control signals from the ACRT/CD-139/A and controls the operation of the TU. The EU will be mounted internally in the SH-60B and HH-60H Helicopters.

(3) Hand Control Unit. The Hand Control Unit (HCU) C-12394/AAS-44(V) contains various switches and transducers, which provide the means for the Sensor Operator (SO) and Airborne Tactical Officer (ATO) in the SH-60B Helicopter and the left seat pilot in the HH-60H Helicopter to interface with and operate the FLIR/LRD as well as launch Hellfire Missiles. The HCU allows direct control of various Armed Helo functions and a means to configure Armed Helo through display menus.

(4) Boresight Collimator. The Boresight Collimator (BSC) SU-192/AAS-44(V) is a passive optical module which facilitates the alignment of the LOS of the IR receiver and the laser transmitter in the TU.

b. Aircraft Mount. The Aircraft Mount (AM) provides a means to adapt the TU to the helicopter. SH-60B Helicopters, with FCK only, has the TU AM installed on the starboard side bomb rack. The HH-60H and SH-60B Helicopters, with the FHS installed, use a nose AM configuration.

c. M299 Hellfire Launcher. The M299 HL provides the electronic and mechanical interface between the Hellfire Missiles and the helicopter avionics. The M299 HL is a MIL-STD-1760 compatible, jettisonable mission store, four-rail configuration capable of carrying and launching from one to four Hellfire Missiles.

d. Armament Controller-Receiver-Transmitter. The ACRT CD-139/A provides for integration of the Armed Helo into the aircraft avionics. The ACRT provides bus control of the stores management bus, provides weapons processing for the M299 HL, and provides for integration of the AN/AAS-44(V) FLIR/LRD system segment and the HL segment. The ACRT also provides video processing capability including symbology generation.

e. Signal Data Converter. The Signal Data Converter SDC CV-4326/A provides power to the stores stations. The SDC is controlled by the ACRT.

f. GAU-16/A Weapon System. The GAU-16/A Weapon System consists of a .50 caliber aircraft machine gun, a MK 94 MOD 1 Gun Mount, mounting hardware, and an AN/PEQ-2 Laser.

(1) GAU-16/A Machine Gun. The GAU-16/A Machine Gun is crew operated and is compatible with the SH-60B, SH-60F, and HH-60H Helicopters. The GAU-16/A Machine Gun has a firing rate of 750-850 rounds per minute and is belt-fed from a standard 100 round ammunition canister.

(2) MK 94 MOD 1 Gun Mount. The MK 94 MOD 1 Gun Mount is designed with shock absorbers that significantly reduce recoil loads transmitted to the helicopter. It supports the machine gun, provides elevation, depression, and azimuth movement of the weapon, and houses the standard 100 round ammunition canister.

(3) AN/PEQ-3 Laser. The AN/PEQ-3 Laser is equipped with an aiming laser and an illumination beam. The beams are only visible with night vision equipment.

g. GAU-17/A Machine Gun. The GAU-17/A Aircraft Machine Gun is a 7.62MM externally powered, six-barrel, air-cooled, multipurpose weapon capable of firing at a rate of 2,000 or 4,000 rounds per minute. Two GAU-17/A Machine Guns are installed on each of the HH-60H Helicopters flown by HCS-4 and HCS-5.

2. Physical Description. The Armed Helo physical dimensions are as follows:

UNIT	WEIGHT (POUNDS)	HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)
TU	135.00	18.60	17.50	17.50
EU	49.00	9.24	14.20	13.52
HCU	2.00	6.55	4.85	3.75
BSC	10.00	9.00	14.00	9.00
BSC AM	11.00	1.50	12.00	8.00
AM FCK	16.50	6.00	22.25	20.00
AM Nose	49.00	6.65	25.00	17.50
HL	145.00	21.50	57.50	20.00
ACRT	17.00	7.70	10.25	7.50
SDC	27.00	105.00	10.00	8.00
GAU-16/A	65.00	9.83	56.41	7.84
Gun Mount	95.00	27.00	50.22	60.78
GAU-17/A	41.00	7.00	33.00	10.00

3. New Development Introduction. The Armed Helo was introduced into existing helicopters as a retrofit through the following:

- ECP-267, FCK
- AFC-132, HH-60H FHS
- AFC-171, SH-60B FHS/GAU-16/A Machine Gun

4. Significant Interfaces. The Armed Helo interfaces with the aircraft avionics system through the two MIL-STD-1553 data buses.

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

H. CONCEPTS

1. Operational Concept. In-flight, the SH-60B ATO is the only Crewmember to have the capability of firing the Hellfire Missile. The HH-60H Helicopter Left Seat Pilot is the only Crewmember onboard to have the capability of operating the FHS. The SH-60B SO, from the Aviation Warfare Systems Operator (AW) rating, and HH-60H Aircrewman operate the GAU-16/A Machine Gun. HH-60H Helicopters with GAU-17/A Machine Guns installed are operated by the Copilot only.

2. Maintenance Concept. Maintenance of the Armed Helo is carried out using a two level concept, organizational level to contractor depot level. Organizational maintenance is performed by Navy personnel in accordance with the maintenance procedures outlined in the Naval Aviation Maintenance Program, OPNAVINST 4790.2 (series). Depot level maintenance is currently being performed by the equipment manufacturers until funding becomes available to award a depot level maintenance support contract for the Armed Helo components and systems.

a. Organizational. Organizational level maintenance functions for the Armed Helo are limited to system troubleshooting using Built-In Test (BIT) and removal and replacement of the defective Weapon Replaceable Assembly (WRA). Organizational level maintenance is performed by Aviation Electronics Technician (AT) personnel holding NEC 8376 or 8876 and AO personnel holding the NEC 8378. SH-60B organizational maintenance personnel hold Navy Enlisted Classifications (NEC) 8378 or 8878. HH-60H organizational maintenance personnel hold SH-60F/H Organizational Maintenance Technician NECs 8378 or 8878.

(1) Preventive Maintenance. Preventive maintenance procedures at the organizational level consists of periodic inspection and treatment for corrosion control.

(2) Corrective Maintenance. Corrective maintenance at the organizational level consists of troubleshooting using BIT and removal and replacement of the defective WRA.

b. Intermediate. Intermediate maintenance on the Armed Helo is limited to minor repair of detachable cable assemblies and minor repair to the GAU-16/A Machine Gun oil

buffer body performed by Aviation Electrician's Mate (AE) and AO personnel, respectively, attached to Intermediate Maintenance Activities.

c. Depot. When funding becomes available, depot level maintenance will be performed by various contractors; until that time each respective equipment manufacturer provides interim maintenance support. However, limited depot level maintenance of the GAU-16/A Machine Gun is provided by Naval Surface Warfare Center Detachment Crane, Indiana.

d. Interim Maintenance. The individual equipment manufacturers provide interim maintenance until the depot support is established.

e. Life Cycle Maintenance Plan. Once depot level maintenance is established, a Life Cycle Maintenance Plan will be developed integrating the Armed Helo life cycle maintenance with the H-60 Helicopters.

3. Manning Concept. The Armed Helo is operated by the aircraft Flight Crew and maintained by personnel from the AT and AO ratings. The current maintenance NECs are shown in the tables below. SH-60B and HH-60H Helicopter AO personnel earn only NEC 8378. AT personnel earn NEC 8876 or 8376 for the SH-60B and NEC 8878 or 8378 for the HH-60H. This change is a result of consolidating the SH-60B, SH-60F, and HH-60H Helicopter training. Current squadron manpower requirements are available in individual Activity Manpower Documents and the SH-60F and SH-60B NTSPs listed in Part I.M of this document.

CURRENT SH-60B HELICOPTER TRAINING TRACK/NEC LISTING				
RATING	INITIAL	NEC	CAREER	NEC
AT	D/E-102-0820	8876	D/E-102-0825	8376
AO	NA	NA	D/E-646-0840	8378

CURRENT HH-60H HELICOPTER TRAINING TRACK/NEC LISTING				
RATING	INITIAL	NEC	CAREER	NEC
AT	D/E-102-0823	8878	D/E-102-0822	8378
AO	NA	NA	D/E-646-0840	8378

With the advent of forward firing air-to-ground munitions on the H-60 Helicopter, AOs are essential to ensure safe and effective weapons employment by H-60 squadrons. The AO manpower adjustments have been approved and are reflected in the Total Force Manpower Management System. The workload for the Armed Helo has increased in the existing SH-60B Anti-Submarine Squadron LAMPS Helicopter. The SH-60B Armed Helo squadron's AO billets have changed from four AOs to one AO1 per shore duty activity and zero AOs to six AO2s per sea duty activity. HH-60H Helicopter squadrons do not work from a detachment concept; therefore, there is no billet change required for the HH-60H Helicopter squadrons.

4. Training Concept. The intent of the Armed Helo training concept is to provide proficient operator and maintenance personnel at the organizational level. Armed Helo operator training for SH-60B Helicopter aircrew personnel is provided by two Fleet Readiness Squadrons (FRS), Helicopter Squadron Light HSL-40, Naval Station (NS) Mayport, Florida, and HSL-41, NAS North Island, California. Armed Helo operator training for HH-60H aircrew personnel is provided by the FRS, Helicopter Antisubmarine Squadron HS-10, NAS North Island, California, and Weapons Training Unit (WTU), NAS Jacksonville, Florida.

Armed Helo maintenance training to support the SH-60B Helicopter is provided by Maintenance Training Unit (MTU) 1022 Naval Air Maintenance Training Unit (NAMTRAU) North Island, California, and MTU 1066 Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Mayport, Florida. MTU 1066 and MTU 1022 HSL Annex are currently training students to receive NECs 8376, 8876, 8378, and 8878 with the exception of the AO rating. MTU 1066 and 1022 HSL Annex did not receive formal initial training for the SH-60B Armed Helo. They received only on-site On-the-Job Training (OJT). Armed Helo maintenance training to support the HH-60H Helicopter is provided by MTU 1005 NAMTRAU Jacksonville, Florida, and MTU 1022 NAMTRAU North Island.

The final H-60 Armed Helo Training Package was forwarded to Naval Air Maintenance Training Group Headquarters (NAMTRAGRU HQ), Pensacola, Florida, in April 2000. This information was forwarded to NAMTRAU North Island and NAMTRAU Jacksonville for inclusion in SH-60B and HH-60H training courses. These courses will be Ready For Training (RFT) with this information in third quarter FY01.

Naval Reserve (HCS-4 and HCS-5) training requirements for the GAU-17/A Machine Guns are taught on an as needed basis. Personnel received training at NAMTRAGRU DET Camp Pendleton, California. Training consisted of course *C-646-3360, UH-1N Defensive Armament Subsystem Organizational Maintenance*. These two squadrons are the only planned recipients of the GAU-17/A Machine Guns.

The established training concept for most aviation maintenance training divides "A" School courses into two or more segments called *Core* and *Strand*. Many organizational level "C" School courses are also divided into separate *Initial* and *Career* training courses. "A" School *Core* courses include general knowledge and skills training for the particular rating, while "A" School *Strand* courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student's fleet activity destination. *Strand* training

immediately follows *Core* training and is part of the “A” School. Upon completion of *Core* and *Strand* “A” Schools, graduates going to organizational level activities attend the appropriate *Initial* “C” School for additional specific training. *Initial* “C” School training is intended for students in paygrades E-4 and below. *Career* “C” School training is provided to organizational level personnel, E-5 and above, to enhance skills and knowledge within their field. “A” School graduates going to intermediate level activities attend the appropriate intermediate level “C” School. Intermediate level “C” Schools are not separated into *Initial* and *Career* courses.

a. Initial Training. Initial training for SH-60B FCK DT personnel was provided by Naval Warfare Center Aircraft Division Indianapolis (NAWCADIND) in September 1996. SH-60B FCK OT initial training for Naval Aviation Engineering Service Unit (now the Naval Air Technical Data and Engineering Service Command) and instructor personnel consisted of a two-day course provided by NAWCADIND in October 1996.

Initial training for GAU-16/A Machine Gun DT and OT was provided by Hughes Technical Services Incorporated in January 1997. Initial operator training for the SH-60B RDK DT and OT was provided by Hughes Technical Services Incorporated in March 1997. Initial maintenance training for the SH-60B RDK DT and OT was provided by Lloyd-Lemont Design in second quarter FY97. Initial SH-60B RDK instructor training was taught by Hughes Technical Services Incorporated in April 1997.

HH-60H DT and OT training was provided by Hughes Technical Services Incorporated during second quarter FY98. No additional initial training is required.

b. Follow-on Training. Armed Helo training information is being integrated into existing SH-60B and SH-60F/HH-60H differences training courses. Logistics Services International of Jacksonville, Florida, provided courseware to the FRS, WTU, and NAMTRAGRU HQ in April 2000. This information was forwarded to NAMTRAU North Island and Jacksonville for inclusion in SH-60B and HH-60H training courses. These courses will be RFT with this information in third quarter FY01.

Detailed information on Training Devices and Training Aids will be incorporated when it becomes available. The Armed Helo source material will be incorporated into these courses with minimal impact. The Armed Helo causes no change in student throughput or chargeable student billets. RFT dates indicate the date when Armed Helo information will be incorporated into these courses.

(1) Operator. Armed Helo operator training will be incorporated into the appropriate aircrew training at the FRS and WTU. Follow-on operator training for SH-60B RD Aircrew is currently being taught by FRSs HSL-40, NS Mayport, and HSL-41, NAS North Island. Follow-on operator training for SH-60B Core B aircrew, which began in first quarter FY01, is being provided by FRSs HSL-40, NS Mayport, and HSL-41, NAS North Island. Follow-on operator training for HH-60H Aircrew, which began in first quarter FY01, is being provided by FRS HS-10, NAS North Island, and WTU, NAS Jacksonville. The following table lists the applicable operator training courses.

COURSE NUMBER	COURSE TITLE	RFT DATE	TRACK NUMBER
D/E-2C-0520	Helicopter Instrument Ground School	1st Qtr FY01	D/E-2C-0821 D/E-2C-0822 D/E-2C-0823 D/E-2C-0824 D/E-2C-0825 E-2C-0520 E-2C-0802 E-2C-0804 E-2C-0805
D/E-2C-2501	SH-60B Fleet Replacement Pilot Category 1 Syllabus	1st Qtr FY01	D/E-2C-0821 E-2C-0825
D/E-2C-2502	SH-60B Fleet Replacement Pilot Category 3 Syllabus	1st Qtr FY01	D/E-2C-0822
D/E-2C-2503	SH-60B Fleet Replacement Pilot Category 2 Syllabus	1st Qtr FY01	D/E-2C-0823
D/E-2C-2504	SH-60B Fleet Replacement Pilot Category 4 Syllabus	1st Qtr FY01	D/E-2C-0824
D/E-050-2501	SH-60B Fleet Replacement Aircrewman Category 1 Syllabus	1st Qtr FY01	D/E-050-2510
D/E-050-2502	SH-60B Fleet Replacement Aircrewman Category 3 Syllabus	1st Qtr FY01	D/E-050-2511
E-2C-0810	SH-60F Fleet Replacement Pilot Category 1 Syllabus	1st Qtr FY01	E-2C-0800
E-2C-0811	SH-60F Fleet Replacement Pilot Category 2 Syllabus	1st Qtr FY01	E-2C-0802
E-2C-0812	SH-60F Fleet Replacement Pilot Category 3 Syllabus	1st Qtr FY01	E-2C-0803
E-2C-0813	SH-60F Fleet Replacement Pilot Category 4 Syllabus	1st Qtr FY01	E-2C-0804
E-2C-0814	SH-60F Fleet Replacement Pilot Category 5 Syllabus	1st Qtr FY01	E-2C-0805

COURSE NUMBER	COURSE TITLE	RFT DATE	TRACK NUMBER
E-050-0802	SH-60F Fleet Replacement Aircrewman Category 1 Syllabus	2nd Qtr FY01	E-050-0831
E-050-0806	SH-60F Fleet Replacement Aircrewman Category 3 Syllabus	2nd Qtr FY01	E-050-0834

(2) Maintenance. Follow-on interim maintenance training to support the Armed Helo on the SH-60B RDK Helicopter will be provided by Naval Air Technical Data and Engineering Service Command (NATEC). Follow-on maintenance training to support the Armed Helo on the SH-60B Core B Helicopter will be provided by MTU 1022 NAMTRAU HSL Annex North Island, and MTU 1066 NAMTRAGRU DET Mayport, beginning in third quarter FY01. Follow-on maintenance training to support the HH-60H Helicopter will be provided by MTU 1005 NAMTRAU Jacksonville and MTU 1022 NAMTRAU North Island, also beginning in third quarter FY01.

Armed Helo AT and AO maintenance training to support the SH-60B and HH-60H Helicopters is being integrated into the following courses. The addition of this information should pose a minimal impact to the overall course.

RAT-ING	COURSE NUMBER	COURSE TITLE	TRACK NUMBER	RFT DATE
AT	C-102-9406B	SH-60B LAMPS MKIII Weapon System Technician Initial Organizational Maintenance	D/E-102-0820	2nd Qtr FY01
AT	C-102-9409	SH-60B LAMPS MKIII Weapon System Technician Career Organizational Maintenance	D/E-102-0825	2nd Qtr FY01
AT	C-102-9407A	SH-60F/H Electronics/Systems Career	D/E-102-0822	2nd Qtr FY01
AT	C-102-9408A	SH-60F/H Electronics/Systems Initial	D/E-102-0823	2nd Qtr FY01
AO	C-646-9407A	H-60 Armament and Related Systems Organizational Maintenance	D/E-646-0840	2nd Qtr FY01

Note: There is no initial AO course.

All aircraft communities require organizational level maintenance technicians working on the Armed Helo to attend a Laser Safety Fundamentals course. Other activities only require that key individuals, such as the Laser System Safety Officer (LSSO), attend this type of course. For the H-60 community, each wing must qualify at least one Category II LSSO by taking the two-day Naval Occupational Safety, Health, and Environmental Training Center LSSO Category II course A-493-0067, *Laser System Safety Officer (Category 2)*. The Category II LSSO is responsible for calculating safe operating distances and the training of Category I LSSOs. The Category I LSSOs attend the eight-day LSSO Category I course, A-493-0038, *Laser System Safety Officer (Category 1)*. Course schedules may be obtained from CNETNOTE 5100.

Title	SH-60F/HH-60H Electronics Systems (Initial) Organizational Maintenance
CIN	D/E-102-0823
Model Manager ...	MTU 1022 NAMTRAU North Island
Description	This track provides the first tour Aviation Electronics Technician with aircraft familiarization and an introduction to: <ul style="list-style-type: none"> ◦ Publications ◦ Ground Safety Precautions ◦ Tactical Data Management System ◦ Communication Systems ◦ Navigation Systems ◦ Mission Sensor Systems ◦ Connector and Wiring Harness Repair Procedures ◦ Electronic Protection System ◦ Laser Safety Program <p>Upon completion, the student will be able to perform as an entry level SH-60F/HH-60H Electronics Systems Organizational Maintenance Technician in a squadron environment under direct supervision.</p>
Locations.....	◦ MTU 1005 NAMTRAU Jacksonville ◦ MTU 1022 NAMTRAU North Island
Length	57 days
RFT date	TBD
Skill identifier.....	AT 8878
TTE/TD	Avionics Maintenance Trainer (after modification)
Prerequisite	C-100-2018, Avionics Technician O Level Class A1

Title	SH-60B (LAMPS MKIII) System Organizational Initial Maintenance Technician
CIN	D/E-102-0820
Model Manager ...	MTU 1022 NAMTRAU North Island
Description	<p>This track provides the first tour Aviation Electronics Technician with an introduction to:</p> <ul style="list-style-type: none"> ◦ Software Programs ◦ Avionics Operational Program Testing ◦ Avionics Maintenance Test Program ◦ Spectrum Analyzer Diagnostic Program Testing ◦ Laser Safety Program ◦ Principles of Optics and Lasers ◦ Publications ◦ Ground Safety Precautions ◦ Troubleshooting Concepts ◦ Weapon Systems Maintenance and Troubleshooting ◦ Survivability Maintenance and Troubleshooting <p>Upon completion, the student will be able to perform as an entry level SH-60B (LAMPS MKIII) System Organizational Maintenance Technician in a squadron environment under direct supervision.</p>
Locations	<ul style="list-style-type: none"> ◦ MTU 1022 NAMTRAU North Island ◦ MTU 1066 NAMTRAGRU Det Mayport
Length	73 days
RFT date	Currently available
Skill identifier	AT 8876
TTE/TD	Avionics Maintenance Trainer (after modification)
Prerequisite	C-100-2018, Avionics Technician O Level Class A1

Title **SH-60F/HH-60H Electronic Systems (Career)
Organizational Maintenance**

CIN D/E-102-0822

Model Manager ... MTU 1022 NAMTRAU North Island

Description This track provides the second tour Aviation Electronics Technician with an introduction to:

- Advanced MIL-STD-1553B Data Bus Theory
- Navigation Equipment
- Communication Equipment
- Mission Equipment Group
- Publications
- Troubleshooting Concepts

Upon completion, the student will be able to perform as an SH-60F/HH-60H Electronic Systems Organizational Maintenance Technician in a squadron environment under limited supervision.

Locations..... ◦ MTU 1005 NAMTRAU Jacksonville
◦ MTU 1022 NAMTRAU North Island

Length 25 days

RFT date Currently available

Skill identifier AT 8378

TTE/TD None

Prerequisite D/E-102-0823, SH-60F/HH-60H Initial Electronics Systems Organizational Maintenance

Title **SH-60B LAMPS MKIII Systems Organizational (Career) Maintenance Technician**

CIN D/E-102-0825

Model Manager ... MTU 1022 NAMTRAU North Island

Description This track provides the second tour Aviation Electronics Technician with an introduction to:

- Advanced Theoretical Troubleshooting
- LAMPS Helicopter and Ship Integration
- Navigation Equipment
- Communication Equipment
- Mission Equipment Group
- Weapons
- Publications
- SH-60B LAMPS MK III Electronic Configuration

Upon completion, the student will be able to perform as an SH-60B LAMPS MKIII Systems Organizational Maintenance Technician in a squadron environment under limited supervision.

Locations.....

- MTU 1066 NAMTRAGRU Det Mayport
- MTU 1022 NAMTRAU North Island

Length 16 days

RFT date Currently available

Skill identifier AT 8376

TTE/TD Avionics Maintenance Trainer (after modification)

Prerequisite D/E-102-0820, SH-60B (LAMPS MKIII) System Organizational Initial Maintenance Technician

Title	H-60 Armament and Related Systems Organizational Maintenance
CIN	D/E-646-0840
Model Manager ...	MTU 1022 NAMTRAU North Island
Description	<p>This track provides the first or second tour Aviation Ordnanceman with detailed operation, testing, and troubleshooting of the H-60 Armament and Related Systems including:</p> <ul style="list-style-type: none"> ◦ Machine Gun Systems ◦ Sonobuoy Launch System ◦ Countermeasures Dispensing System ◦ Laser Safety Program ◦ Torpedo Systems Maintenance and Troubleshooting ◦ Jettison Systems Maintenance and Troubleshooting ◦ Hellfire Systems Maintenance and Troubleshooting <p>Upon completion, the student will be able to perform as an H-60 Armament and Related Systems Organizational Maintenance Technician in a squadron environment under limited supervision.</p>
Locations	<ul style="list-style-type: none"> ◦ MTU 1005 NAMTRAU Jacksonville ◦ MTU 1022 NAMTRAU North Island
Length	57 days
RFT date	Currently available
Skill identifier	AO 8378
TTE/TD	<ul style="list-style-type: none"> ◦ Hellfire Captive Air Training Missile (CATM) ◦ Dummy Air Training Missile (DATM) ◦ Ordnance Maintenance Trainer (after modification)
Prerequisites	<ul style="list-style-type: none"> ◦ C-646-2011, Aviation Ordnanceman Common Core Class A1 ◦ C-646-2012, Aviation Ordnanceman Airwing Strand Class A1

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
1311, 1312	° Designated Helicopter Pilot
AT 8376	° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O Level Class A1 ° D/E-102-0820, SH-60B (LAMPS MKIII) System Organizational Initial Maintenance Technician
AT 8378	° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O Level Class A1 ° D/E-102-0823, SH-60F/HH-60H Initial Electronics Systems Organizational Maintenance
AT 8876	° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O Level Class A1
AT 8878	° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O Level Class A1
AO 8378	° C-646-2011, Aviation Ordnanceman Common Core Class A1 ° C-646-2012, Aviation Ordnanceman Airwing Strand Class A1
AW 7873	° C-210-2010, Aviation Warfare System Operator Class A1 ° Q-050-1500, Naval Aircrewman Candidate School
AW 7876	° C-210-2010, Aviation Warfare System Operator Class A1 ° C-210-2011, Airborne Acoustic Mission ° Q-050-1500, Naval Aircrewman Candidate School

d. New Training Pipelines and Training Track Changes. No new pipelines or training tracks are required to support the addition of the Armed Helo into the SH-60B or HH-60H. However, courses in existing SH-60B and SH-60F Pilot and Aircrew training, as well as AT and AO maintenance training tracks require modifications to include the Armed Helo data. The courses requiring modification are listed below. Changes to these courses to include the Armed Helo information are ongoing at this time and will be RFT in third quarter FY01.

TRACK REQUIRING MODIFICATION	CIN, COURSE TITLE
D/E-2C-0821, SH-60B Fleet Replacement Pilot Category 1 Pipeline	° D/E-2C-2501, SH-60B Fleet Replacement Pilot Category 1 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School

TRACK REQUIRING MODIFICATION	CIN, COURSE TITLE
D/E-2C-0822, SH-60B Fleet Replacement Pilot Category 2 Pipeline	<ul style="list-style-type: none"> ° D/E-2C-2502, SH-60B Fleet Replacement Pilot Category 2 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School
D/E-2C-0823, SH-60B Fleet Replacement Pilot Category 3 Pipeline	<ul style="list-style-type: none"> ° D/E-2C-2503, SH-60B Fleet Replacement Pilot Category 3 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School
D/E-2C-0824, SH-60B Fleet Replacement Pilot Category 4 Pipeline	<ul style="list-style-type: none"> ° D/E-2C-2504, SH-60B Fleet Replacement Pilot Category 4 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School
E-2C-0825, SH-60B Fleet Replacement Pilot Category 5 Pipeline	<ul style="list-style-type: none"> ° D/E-2C-2501, SH-60B Fleet Replacement Pilot Category 1 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School
D/E-050-2510, SH-60B Fleet Replacement Aircrewman Category 1 Pipeline	<ul style="list-style-type: none"> ° D/E-050-2501, SH-60B Fleet Replacement Aircrew Category 1 Syllabus ° D/E-050-2507, M-60D/M-240 Machine Gun Aerial Gunnery
D/E-050-2511, SH-60B Fleet Replacement Aircrewman Category 2 Pipeline	<ul style="list-style-type: none"> ° D/E-050-2502, SH-60B Fleet Replacement Aircrew Category 2 Syllabus ° D/E-050-2507, M-60D/M-240 Machine Gun Aerial Gunnery
E-2C-0800, SH-60F Fleet Replacement Pilot Category 1 Pipeline	<ul style="list-style-type: none"> ° E-2C-0810, SH-60F Fleet Replacement Pilot Category 1 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School
E-2C-0802, SH-60F Fleet Replacement Pilot Category 2 Pipeline	<ul style="list-style-type: none"> ° E-2C-0811, SH-60F Fleet Replacement Pilot Category 2 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School
E-2C-0804, SH-60F Fleet Replacement Utility Pilot Category 4 Pipeline	<ul style="list-style-type: none"> ° E-2C-0813, SH-60F Fleet Replacement Utility Pilot Category 4 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School

TRACK REQUIRING MODIFICATION	CIN, COURSE TITLE
E-2C-0805, SH-60F Fleet Replacement Pilot Category 5 Pipeline	<ul style="list-style-type: none"> ° E-2C-0814, SH-60F Fleet Replacement Pilot Category 5 Syllabus ° D/E-2C-0520, Helicopter Instrument Ground School
D/E-050-0831, SH-60F Fleet Replacement Aircrewman Category 1 Pipeline	<ul style="list-style-type: none"> ° D/E-050-0802, SH-60F Fleet Replacement Aircrew Category 1 Syllabus
D/E-050-0834, H-60F Fleet Replacement Aircrewman Category 2 Pipeline	<ul style="list-style-type: none"> ° D/E-050-0806, SH-60F Fleet Replacement Aircrew Category 2 Syllabus
D/E-646-0840, H-60 Armament and Related Systems Organizational Maintenance	<ul style="list-style-type: none"> ° C-646-9407A, H-60 Armament and Related System Organizational Maintenance ° C-602-4410A, SH-60 Connector Repair
D/E-102-0820, SH-60B (LAMPS MKIII) System Organizational Initial Maintenance Technician	<ul style="list-style-type: none"> ° C-102-9406B, SH-60B LAMPS MKIII Weapon Systems Technician (Initial) Organizational Maintenance ° C-602-4410A, SH-60 Connector Repair
D/E-102-0822, SH-60F/HH-60H Career Electronics System Organizational Maintenance	<ul style="list-style-type: none"> ° C-102-9407A, SH-60F/HH Electronics Systems Career
D/E-102-0823, SH-60F/HH-60H Initial Electronics System Organizational Maintenance	<ul style="list-style-type: none"> ° C-102-9408A, SH-60F/HH-60H Electronics Systems Initial ° C-602-3770A Laser Safety ° C-602-4410A SH-60 Connector Repair
D/E-102-0825, SH-60B (LAMPS MKIII) System Organizational Career Maintenance Technician	<ul style="list-style-type: none"> ° D/E-102-0820, SH-60B Electronics System (Initial) Maintenance

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. The Maintenance Training Improvement Program (MTIP) is a training management tool that, through diagnostic testing, identifies individual training deficiencies at both the organizational and intermediate levels of maintenance. MTIP was implemented per OPNAVINST 4790.2 (series). MTIP is being replaced by Aviation Maintenance Training Continuum System (AMTCS).

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is planned to be an integrated system that will satisfy the training and administrative

requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Computer-Based Training for the technicians in the Fleet in the form of Interactive Courseware with Computer Managed Instruction and Computer Aided Instruction for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module that provides testing (Test and Evaluation), recording (Electronic Training Jacket), and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate Commercial Off The Shelf hardware and software, i.e., Fleet Training Devices - Laptops, PCs, Electronic Classrooms, Learning Resource Centers, operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N889H), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program programs. Current planning is for AMTCS to begin full implementation for fleet deployment in FY01. For AMTCS implementation information refer to PMA205-3D3.

2. Personnel Qualification Standards. SH-60B and HH-60H Aircrew Personnel Qualification Standards (PQS) requirements were updated to include the Armed Helo operation standards. The PQS is managed by the PQS Development Group of the Naval Education and Training Program Management Support Activity, Pensacola, Florida.

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

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00019-91-G-0158	Lockheed-Martin Federal Integrators	1801 State Route 17C Owego, NY 13827

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00019-94-G-0049	Texas Instruments Defense and Electronics Group	2501 West University Drive McKinney, TX 75069

2. Program Documentation. The Acquisition Logistics Support Plan is dated June 1998 and the User's Logistics Support Summary for the Armed Helo was completed in October 1999.

3. Technical Data Plan. An organizational level Armed Helo Repair Manual and Illustrated Parts Breakdown has been developed by Lockheed-Martin Federal Systems and submitted in Work Package format for organic printing. Lockheed-Martin Federal Systems is responsible for submitting the required changes to the aircraft Flight Manuals. H-60 Armed Helo technical publications are overdue. The SH-60B Armed Helo technical publication changes have not been received from the contractor, but are funded. The HH-60H Armed Helo technical publication changes have been received from the contractor and about 20% of the changes have been made.

4. Test Sets, Tools, and Test Equipment. The following charts list training equipment and support equipment required to support the H-60 Armed Helo.

TRAINING EQUIPMENT HARDWARE ITEMS

PART NUMBER	MANUFACTURER NUMBER	NAVY STOCK NUMBER	NOMENCLATURE
13007376	18876	6920-01-133-4438	Hellfire Dummy Air Training Missile (DATM)
13007355	18876	6920-01-234-0929	M-36E1 Hellfire Captive Air Training Missile (CATM)
13155079	18876	8140-01-159-7487	CNU-448 /E Container

SUPPORT EQUIPMENT ITEMS

PART NUMBER	MANUFACTURER NUMBER	NOMENCLATURE
3359AS1000	30003	AN/USQ-131 Memory Loader Verifier Set (MLVS)

PART NUMBER	MANUFACTURER NUMBER	NOMENCLATURE
3520AS100	30003	Test Set, Weapons Control, Aircraft AN/AWM-101
3154215-1	96214	SU-192/AAS-44(V) Boresight Collimator
315435-1	96214	MX-11595/AAS-44 (V) Aircraft Maintenance Fixture
70080-20152-014	78286	Boresight Adapter Plate

5. Repair Parts. Repair parts are currently available through Naval Inventory Control Point, Mechanicsburg, Pennsylvania. The Material Support Date (MSD) was reached in July 2000.

6. Human Systems Integration. The Human Systems Integration (HSI) Plan establishes the basis for effective integration of Human Factors Engineering, Manpower, Personnel, Training, Health Hazards, and Safety considerations into the H-60 Armed Helicopter Program acquisition as outlined in Department of Defense (DoD) Instruction 5000.2R. For information on HSI refer to PMA299.

K. SCHEDULES

1. Schedule of Events

a. Installation and Delivery Schedules. Armed Helo deliveries began in fourth quarter FY97 and proceed as follows:

INSTALLATION SCHEDULE (SYSTEMS)

ACTIVITY	FY97	FY98	FY99	FY00	FY01	TOTAL
SH-60B	8	0	6	37	36	87
HH-60H	0	26	13	0	0	39

b. Ready For Operational Use Schedule. The Armed Helo is ready for use upon installation and operational checkout.

c. Time Required to Install at Operational Sites. The Armed Helo changes will take approximately six hours to install in each helicopter by a Contractor Field Modification Team.

d. Foreign Military Sales and Other Source Delivery Schedule. Foreign Military Sales (FMS) are planned. For information on FMS refer to PMA299.

e. Training Device and Delivery Schedule. Installed Armed Helo systems are used for aircrew training. Future planning is for Armed Helo installation into each squadron's Airborne Multi-Purpose Electronic Warfare Training System beginning in FY01. Modifications to the Ordnance Trainers at MTUs 1005(NAS Jacksonville) and 1022 (NAS North Island) and Avionics Maintenance Trainers at MTUs 1005, 1022, and 1066 (NS Mayport) will be required to enhance the Armed Helo Maintenance Training.

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
Hellfire PSP	MS-067	AIR 3.1.1	Approved May 91
HH-60H Combat SAR-SW Support Helicopter	A-50-8714B/A	PMA299	Approved Jan 94
Hellfire ILSP	MS-067	AIR-290	Approved 2 Nov 82 Rev C, Aug 94
SH-60F Carrier Inner-Zone ASW Helicopter	A-50-8508D/A	PMA299	Approved Aug 00
SH-60B Light Airborne Multi-Purpose System (LAMPS) MKIII	A-50-7702D/A	PMA299	Approved Feb 93
AN/AAS-44(V) Integrated Support Plan	FLIR0007	PMA299	Approved Feb 95

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
AN/AAS-44 Forward Looking Infrared System MPT Concept Document	NA	PMA299	Approved Dec 95
AH-1W Aircraft	A-50-8520D/A	PMA205-2C	Approved Mar 96
H-60 Electronic Equipment Installation Kit	AFC No. 132	AIR 4.1.2	May 99
SH-60B Electronic Equipment Installation Kit	AFC No. 171	AIR 4.1.2	NA
H-60 Armed Helicopter Acquisition Logistics Support Plan	NA	AIR 3.1.2	Approved Jun 98
SH-60B Armed Helicopter System User Logistic Support Summary	H-60-B-SE-ULSS-000	AIR 3.1.2	Approved Mar 00
AGM-114B/K Hellfire Missile System	A-50-8311B/D	PMA242	Draft Nov 99

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the H-60 Armed Helicopter Program 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

Note: The manpower in this part only includes the Aviation Ordnance rating. For information on Aircrew and Aviation Electronics Technicians manning and student throughputs refer to the Aircraft NTSPs listed in Part I M of this document.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

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

SOURCE: Total Force Manpower Management System

DATE: 03/01/00

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - NAVY							
HCS-4 NAS Norfolk	53811	1	0	0	0	0	0
HCS-4 Sea Component NAS Norfolk	47568	1	0	0	0	0	0
HS-11 NAS Jacksonville	09954	1	0	0	0	0	0
HS-15 NAS Jacksonville	09205	1	0	0	0	0	0
HS-3 NAS Jacksonville	09163	1	0	0	0	0	0
HS-5 NAS Jacksonville	09488	1	0	0	0	0	0
HS-7 NAS Jacksonville	09988	1	0	0	0	0	0
HS-75 NAS Jacksonville	09031	1	0	0	0	0	0
HSL-42 NS Mayport	53913	1	0	0	0	0	0
HSL-44 NS Mayport	53975	1	0	0	0	0	0
HSL-46 NS Mayport	53916	1	0	0	0	0	0
HSL-48 NS Mayport	53918	1	0	0	0	0	0
VX-1 NAS Patuxent River	55600	1	0	0	0	0	0
HCS-5 NAS Point Mugu	53812	1	0	0	0	0	0
HCS-5 Sea Component NAS Point Mugu	47409	1	0	0	0	0	0
HS-10 NAS North Island	09299	1	0	0	0	0	0
HS-14 NAF Atsugi	09209	1	0	0	0	0	0
HS-2 NAS North Island	09372	1	0	0	0	0	0
HS-4 NAS North Island	09164	1	0	0	0	0	0
HS-6 NAS North Island	09950	1	0	0	0	0	0
HS-8 NAS North Island	09951	1	0	0	0	0	0
HSL-37 NAS North Island	53815	1	0	0	0	0	0
HSL-43 NAS North Island	53914	1	0	0	0	0	0
HSL-45 NAS North Island	53915	1	0	0	0	0	0
HSL-47 NAS North Island	53917	1	0	0	0	0	0
HSL-49 NAS North Island	53919	1	0	0	0	0	0
HSL-51 NAF Atsugi	48550	1	0	0	0	0	0
TOTAL:		27	0	0	0	0	0
FLEET SUPPORT ACTIVITIES - NAVY							
Helicopter Antisubmarine Wing Atlantic	52956	1	0	0	0	0	0
Naval Rotary Wing NAS Patuxent River	39784	1	0	0	0	0	0
SH-60 Fleet Introduction Team NAS North Island	48097	1	0	0	0	0	0
Attack Wing US Pacific Fleet NAS Whidbey Island	55628	1	0	0	0	0	0
SWAT School NAS North Island	47721	1	0	0	0	0	0
Helicopter Antisubmarine Light Wing Atlantic	55212	1	0	0	0	0	0
Helicopter Antisubmarine Light Wing Pacific	55630	1	0	0	0	0	0
Helicopter Antisubmarine Wing Pacific	55636	1	0	0	0	0	0
TOTAL:		8	0	0	0	0	0

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - NAVY					
HCS-4 NAS Norfolk, 53811					
TAR	0	1	AO1	8378	0812
ACTIVITY	0	1			
HCS-4 Sea Component NAS Norfolk, 47568					
TAR	0	1	AO2	8378	
	0	1	AO2	8378	0812
SELRES	0	2	AO2	8378	
	0	4	AOAN	8378	
ACTIVITY	0	8			
HS-11 NAS Jacksonville, 09954					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HS-15 NAS Jacksonville, 09205					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HS-3 NAS Jacksonville, 09163					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HS-5 NAS Jacksonville, 09488					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HS-7 NAS Jacksonville, 09988					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HS-75 NAS Jacksonville, 09031					
SELRES	0	1	AO1	8378	
	0	1	AO2	8378	
	0	1	AO3	8378	
	0	2	AOAN	8378	
ACTIVITY	0	5			
HSL-42 NS Mayport, 53913					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
HSL-44 NS Mayport, 53975					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
HSL-46 NS Mayport, 53916					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
HSL-48 NS Mayport, 53918					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
VX-1 NAS Patuxent River, 55600					
ACDU	0	1	AO1	8378	
	0	1	AO2	8378	
	0	1	AOAN	8378	
ACTIVITY	0	3			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HCS-5 NAS Point Mugu, 53812					
TAR	0	1	AO1	8378	0812
ACTIVITY	0	1			
HCS-5 Sea Component NAS Point Mugu, 47409					
TAR	0	1	AO2	8378	
	0	1	AO2	8378	0812
SELRES	0	2	AO2	8378	
	0	4	AOAN	8378	
ACTIVITY	0	8			
HS-10 NAS North Island, 09299					
ACDU	0	1	AOC	8378	
	0	3	AO1	8378	
	0	3	AO2	8378	
	0	4	AO3	8378	
	0	4	AOAN	8378	
ACTIVITY	0	15			
HS-14 NAF Atsugi, 09209					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HS-2 NAS North Island, 09372					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HS-4 NAS North Island, 09164					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HS-6 NAS North Island, 09950					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HS-8 NAS North Island, 09951					
ACDU	0	2	AO1	8378	
	0	2	AO2	8378	
	0	2	AO3	8378	
	0	3	AOAN	8378	
ACTIVITY	0	9			
HSL-37 NAS North Island, 53815					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
HSL-43 NAS North Island, 53914					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
HSL-45 NAS North Island, 53915					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
HSL-47 NAS North Island, 53917					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
HSL-49 NAS North Island, 53919					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HSL-51 NAF Atsugi, 48550					
ACDU	0	1	AO1	8378	
	0	6	AO2	8378	
ACTIVITY	0	7			
FLEET SUPPORT ACTIVITIES - NAVY					
Helicopter Antisubmarine Wing Atlantic NAS Jacksonville, 52956					
ACDU	0	1	AOC	8378	
ACTIVITY	0	1			
Naval Rotary Wing NAS Patuxent River, 39784					
ACDU	0	1	AO2	8378	
ACTIVITY	0	1			
SH-60 Fleet Introduction Team NAS Jacksonville, 48097					
ACDU	0	1	AO1	8378	9502
ACTIVITY	0	1			
Attack Wing US Pacific Fleet NAS Whidbey Island, 55628					
ACDU	0	1	AOC	8378	
ACTIVITY	0	1			
SWAT School NAS North Island, 47721					
ACDU	0	1	AO1	8378	9502
ACTIVITY	0	1			
Helicopter Antisubmarine Light Wing Atlantic, 55212					
ACDU	0	1	AOC		
ACTIVITY	0	1			
Helicopter Antisubmarine Light Wing Pacific NAS North Island, 55630					
ACDU	0	1	AOCS		
ACTIVITY	0	1			
Helicopter Antisubmarine Wing Pacific NAS North Island, 55636					
ACDU	0	1	AOC	8378	
	0	1	AO1	8378	
ACTIVITY	0	2			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY OPERATIONAL ACTIVITIES - ACDU													
AOC	8378		1		0		0		0		0		0
AO1	8378		34		0		0		0		0		0
AO2	8378		84		0		0		0		0		0
AO3	8378		24		0		0		0		0		0
AOAN	8378		35		0		0		0		0		0
NAVY OPERATIONAL ACTIVITIES - TAR													
AO1	8378	812	2		0		0		0		0		0
AO2	8378		2		0		0		0		0		0
AO2	8378	812	2		0		0		0		0		0
NAVY OPERATIONAL ACTIVITIES - SELRES													
AO1	8378		1		0		0		0		0		0
AO2	8378		5		0		0		0		0		0
AO3	8378		1		0		0		0		0		0
AOAN	8378		10		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AOCS			1		0		0		0		0		0
AOC	8378		4		0		0		0		0		0
AO1	8378	9502	3		0		0		0		0		0
AO2	8378		1		0		0		0		0		0
SUMMARY TOTALS:													
NAVY OPERATIONAL ACTIVITIES - ACDU													
			178		0		0		0		0		0
NAVY OPERATIONAL ACTIVITIES - TAR													
			6		0		0		0		0		0
NAVY OPERATIONAL ACTIVITIES - SELRES													
			17		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			9		0		0		0		0		0
GRAND TOTALS:													
NAVY - ACDU													
			187		0		0		0		0		0
NAVY - TAR													
			6		0		0		0		0		0
NAVY - SELRES													
			17		0		0		0		0		0

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

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

TRAINING ACTIVITY, LOCATION, UIC: HS-10, NAS North Island, 09299

INSTRUCTOR BILLETS

ACDU														
AO1	8378	9502	0	3	0	3	0	3	0	3	0	3	0	3
TOTAL:			0	3	0	3	0	3	0	3	0	3	0	3

TRAINING ACTIVITY, LOCATION, UIC: HSL-40, NAS North Island, 53913

INSTRUCTOR BILLETS

ACDU														
AO1	8378	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: HSL-41, NAS North Island, 55138

INSTRUCTOR BILLETS

ACDU														
AO1	8378	9502	0	3	0	3	0	3	0	3	0	3	0	3
TOTAL:			0	3	0	3	0	3	0	3	0	3	0	3

TRAINING ACTIVITY, LOCATION, UIC: MTU 1005 NAMTRAU Jacksonville, 66051

INSTRUCTOR BILLETS

ACDU														
AOC	8378	9502	0	1	0	1	0	1	0	1	0	1	0	1
AO1	8378	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		CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL		

TRAINING ACTIVITY, LOCATION, UIC: MTU 1022 NAMTRAU North Island, 66065

INSTRUCTOR BILLETS

ACDU														
AO1	8378	9502	0	4	0	4	0	4	0	4	0	4	0	4
TOTAL:			0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU 1066 NAMTRAGRU Det Mayport, 66069

INSTRUCTOR BILLETS

ACDU														
AOC	8378	9502	0	1	0	1	0	1	0	1	0	1	0	1
AO1	8378	9502	0	1	0	1	0	1	0	1	0	1	0	1
APO1	8378	9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:			0	3	0	3	0	3	0	3	0	3	0	3

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1005 NAMTRAU Jacksonville, 66051	NAVY		2.2	2.2		2.2		2.2		2.2		2.2	
MTU 1066 NAMTRAGRU Det Mayport, 66069	NAVY		1.1	1.1		1.1		1.1		1.1		1.1	
MTU 1022 NAMTRAU North Island, 66065	NAVY		4.3	4.3		4.3		4.3		4.3		4.3	
SUMMARY TOTALS:													
	NAVY		7.6	7.6		7.6		7.6		7.6		7.6	
GRAND TOTALS:													
			7.6	7.6		7.6		7.6		7.6		7.6	

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/- CUM	FY02 +/- CUM	FY03 +/- CUM	FY04 +/- CUM	FY05 +/- CUM
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a. OFFICER - USN Not Applicable

b. ENLISTED - USN

Operational Billets ACDU and TAR

AOC	8378		1	0	1	0	1	0	1	0	1	0	1
AO1	8378		34	0	34	0	34	0	34	0	34	0	34
AO1	8378	812	2	0	2	0	2	0	2	0	2	0	2
AO2	8378		86	0	86	0	86	0	86	0	86	0	86
AO2	8378	812	2	0	2	0	2	0	2	0	2	0	2
AO3	8378		24	0	24	0	24	0	24	0	24	0	24
AOAN	8378		35	0	35	0	35	0	35	0	35	0	35

Fleet Support Billets ACDU and TAR

AOC	8378		2	0	2	0	2	0	2	0	2	0	2
AO1	8378	9502	2	0	2	0	2	0	2	0	2	0	2
AO2	8378		1	0	1	0	1	0	1	0	1	0	1

Staff Billets ACDU and TAR

AOC	8378	9502	2	0	2	0	2	0	2	0	2	0	2
AO1	8378	9502	14	0	14	0	14	0	14	0	14	0	14
APO1	8378	9502	1	0	1	0	1	0	1	0	1	0	1

Chargeable Student Billets ACDU and TAR

			8	0	8	0	8	0	8	0	8	0	8
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SELRES Billets

AO1	8378		1	0	1	0	1	0	1	0	1	0	1
AO2	8378		5	0	5	0	5	0	5	0	5	0	5
AO3	8378		1	0	1	0	1	0	1	0	1	0	1
AOAN	8378		10	0	10	0	10	0	10	0	10	0	10

TOTAL USN ENLISTED BILLETS:

Operational			184	0	184	0	184	0	184	0	184	0	184
Fleet Support			5	0	5	0	5	0	5	0	5	0	5
Staff			17	0	17	0	17	0	17	0	17	0	17
Chargeable Student			8	0	8	0	8	0	8	0	8	0	8
SELRES			17	0	17	0	17	0	17	0	17	0	17

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC Not Applicable

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: D-646-0840, H-60 Armament and Related Systems Organizational Maintenance

COURSE LENGTH: 8.2 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION Navy: 10%

BACKOUT FACTOR: 0.16

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1005 NAMTRAU Jacksonville												
	NAVY	ACDU		22		22		22		22		22
		TAR		1		1		1		1		1
		SELRES		1		2		1		2		1
MTU 1022 NAMTRAU North Island												
	NAVY	ACDU		28		28		28		28		28
		TAR		1		1		1		1		1
		SELRES		1		1		1		1		1
		TOTAL:		54		55		54		55		54

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the Armed Helicopter 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: D-646-0840, H-60 Armament and Related Systems Organizational Maintenance
TRAINING ACTIVITY: MTU 1005 NAMTRAU
LOCATION, UIC: NAS Jacksonville, 66051

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	15		15		15		15		15	ATIR
	14		14		14		14		14	Output
	2.2		2.2		2.2		2.2		2.2	AOB
	2.2		2.2		2.2		2.2		2.2	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		1		0	ATIR
	0		1		0		1		0	Output
	0.0		0.2		0.0		0.2		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: E-646-0840, H-60 Armament and Related Systems Organizational Maintenance
TRAINING ACTIVITY: MTU 1022 NAMTRAU
LOCATION, UIC: NAS North Island, 66065

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	11		11		11		11		11	ATIR
	10		10		10		10		10	Output
	1.6		1.6		1.6		1.6		1.6	AOB
	1.6		1.6		1.6		1.6		1.6	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.2		0.2		0.2		0.2		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

Note: The H-60 Armed Helicopter Training listed above is for SH-60B and HH-60H personnel. The HH-60H has accounted for some of these students in the HH-60H NTSP. Currently the SH-60B NTSP does not include this information. This information will be added to the SH-60B NTSP with the next update. When this information is added to the SH-60B NTSP, it will no longer appear in this NTSP as it would be redundant.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

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

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

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

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

CIN, COURSE TITLE: E-2C-0810, SH-60F Fleet Replacement Pilot Category 1 Syllabus (Track E-2C-0800)

TRAINING ACTIVITY: HS-10

LOCATION, UIC: NAS North Island, 09299

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
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TTE

100	Hellfire Captive Air Training Missile (CATM)	4	Aug 98	GFE	Onboard
102	Hellfire Container, Shipping and Storage (CNU-448/E)	4	Aug 98	GFE	Onboard

CIN, COURSE TITLE: D-2C-2501, SH-60B Fleet Replacement Pilot Category 1 Syllabus (Track D-2C-0821)

TRAINING ACTIVITY: HSL-40

LOCATION, UIC: NAS North Island, 53913

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
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TTE

100	Hellfire Captive Air Training Missile (CATM)	4	Aug 98	GFE	Onboard
102	Hellfire Container, Shipping and Storage (CNU-448/E)	4	Aug 98	GFE	Onboard

CIN, COURSE TITLE: E-2C-2501, SH-60B Fleet Replacement Pilot Category 1 Syllabus (Track E-2C-0821)

TRAINING ACTIVITY: HSL-41

LOCATION, UIC: NAS North Island, 55138

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
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TTE

100	Hellfire Captive Air Training Missile (CATM)	4	Aug 98	GFE	Onboard
102	Hellfire Container, Shipping and Storage (CNU-448/E)	4	Aug 98	GFE	Onboard

CIN, COURSE TITLE: C-646-9407, H-60 Armament and Related System Organizational Maintenance (Track D-646-0840)

TRAINING ACTIVITY: MTU 1005 NAMTRAU

LOCATION, UIC: NAS Jacksonville, 66051

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
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TTE

100	Hellfire Captive Air Training Missile (CATM)	4	Aug 98	GFE	Onboard
101	Hellfire Dummy Air Training Missile (DATM)	4	Aug 98	GFE	Onboard
102	Hellfire Container, Shipping and Storage (CNU-448/E)	8	Aug 98	GFE	Onboard

IV.A. TRAINING HARDWARE

CIN, COURSE TITLE: C-646-9407, H-60 Armament and Related System Organizational Maintenance (Track E-646-0840)

TRAINING ACTIVITY: MTU 1022 NAMTRAU

LOCATION, UIC: NAS North Island, 66065

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
100	Hellfire Captive Air Training Missile (CATM)	4	Aug 98	GFE	Onboard
101	Hellfire Dummy Air Training Missile (DATM)	4	Aug 98	GFE	Onboard
102	Hellfire Container, Shipping and Storage (CNU-448/E)	8	Aug 98	GFE	Onboard

Note: The four CATMs and the four CNUs assigned to HS-10 are actually maintained by the Weapons Training Unit at NAS Jacksonville.

Note: The final H-60 Armed Helo training package was forwarded to NAMTRAGRU HQ in April 2000. This information was forwarded to NAMTRAU North Island and NAMTRAU Jacksonville for inclusion in SH-60B and HH-60H training courses. These courses will be RFT with this information in third quarter FY01. Information for TTE, GPTE, SPTE, ST, GPETE, and SPETE will be included in the next iteration of this NTSP.

IV.A.2. TRAINING DEVICES

Note: The final H-60 Armed Helo training package was forwarded to NAMTRAGRU HQ in April 2000. This information was forwarded to NAMTRAU North Island and NAMTRAU Jacksonville for inclusion in SH-60B and HH-60H training courses. These courses will be RFT with this information in third quarter FY01. Modifications to the Ordnance Trainers at MTU 1005 and 1022 (POM 04 issue) and Avionics Maintenance Trainers at MTU 1005, 1022, and 1066 will be required to enhance maintenance training.

Note: The following listed Operator Training Devices are covered in the SH-60B and HH-60H NTSPs, however they will be modified to include H-60 Armed Helo.

DEVICE: Tactical/Operational Flight Trainer
DESCRIPTION: The T/OFT is an exact replica of the MH-60S cockpit on a non-motion base. The T/OFT flight simulator supports pilot, co-pilot/ATO and SO tactics, navigation, equipment malfunction, communications, aircrew coordination, and emergency procedures training. The visual system includes a day-night image generator, databases, and night vision device compatibility. Full weapon system functionality is provided with the cockpit providing full tactile sensations.
MANUFACTURER: Lockheed Martin Corporation
CONTRACT NUMBER: N00019-98-C-0012
TEE STATUS: Pending

TRAINING ACTIVITY: Helicopter Anti-Submarine Squadron (Light) 41
LOCATION, UIC: NAS North Island, 55138

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Sep 01	Dec 01	Pending	E-2C-0821 E-2C-0822 E-2C-0823 E-2C-0824 E-2C-0825 E-050-2510 E-050-2511

TRAINING ACTIVITY: Helicopter Anti-Submarine Squadron (Light) 40
LOCATION, UIC: NS Mayport, 53913

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 02	Feb 02	Pending	D-2C-0821 D-2C-0822 D-2C-0823 D-2C-0824 D-050-2510 D-050-2511

IV.A.2. TRAINING DEVICES

DEVICE: Weapon Systems Trainer Common Visual System Upgrade (WST/CVS)
DESCRIPTION: The Weapon System Trainer consists of an Operational Flight Trainer (OFT) and a Sensor Operator Trainer (SOT). The OFT consists of a pilot and copilot position (along with an instructor station) in an exact replica of the SH-60F cockpit on a motion base. The WST CVS is a modification to the existing Weapon Systems Trainers installed at NAS North Island and NAS Jacksonville to support the Armed Helo mission. It incorporates the same day/night visual system from the SH-60B T/OFT onto the SH-60F motion platforms to provide full day/night visual simulation, FLIR, hellfire simulation, and Night Vision Goggle simulation. Modular panels are installed to allow rapid reconfiguration from the SH-60F (no Armed Helo) capability to the HH-60H (Armed Helo) configuration. The WST CVS supports pilot, co-pilot and SO tactics, navigation, equipment malfunction, communications, aircrew coordination, and emergency procedures training. Full weapon system functionality is provided with the cockpit providing full tactile sensations. One WST CVS is installed per coast to support FRS training and fleet proficiency training requirements. Options are available to retrofit the remaining 2 SH-60F WSTs upon receipt of funding.

MANUFACTURER: Lockheed Martin Corporation/BAE Systems
CONTRACT NUMBER: N00019-98-C-0012
TEE STATUS: Pending
TRAINING ACTIVITY: Helicopter Anti-Submarine Squadron 10
LOCATION, UIC: NAS North Island, 09299

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Aug 01	Nov 01	Pending	E-2C-0800 E-2C-0802 E-2C-0803 E-2C-0804 E-2C-0805 E-050-0831 E-050-0834

TRAINING ACTIVITY: Helicopter Anti-Submarine Squadron 11
LOCATION, UIC: NAS Jacksonville, 09954

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Nov 01	Feb 02	Pending	E-2C-0802 E-2C-0803 E-2C-0804 E-2C-0805 E-050-0831 E-050-0834

IV.B. COURSEWARE REQUIREMENTS
IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: E-2C-0810, SH-60F Fleet Replacement Pilot Category 1 Syllabus (Track E-2C-0800)
TRAINING ACTIVITY: HS-10
LOCATION, UIC: NAS North Island, 09299

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

CIN, COURSE TITLE: D-2C-2501, SH-60B Fleet Replacement Pilot Category 1 Syllabus (Track D-2C-0821)
TRAINING ACTIVITY: HSL-40
LOCATION, UIC: NAS North Island, 53913

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

CIN, COURSE TITLE: E-2C-2501, SH-60B Fleet Replacement Pilot Category 1 Syllabus (Track E-2C-0821)
TRAINING ACTIVITY: HSL-41
LOCATION, UIC: NAS North Island, 55138

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

CIN, COURSE TITLE: E-050-0802, SH-60F Fleet Replacement Aircrewman Category 1 Syllabus (Track E-050-0831)
TRAINING ACTIVITY: HS-10
LOCATION, UIC: NAS North Island, 09299

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

CIN, COURSE TITLE: D-050-2501, SH-60B Fleet Replacement Aircrewman Category 1 Syllabus (Track D-050-2510)
TRAINING ACTIVITY: HSL-40
LOCATION, UIC: NAS North Island, 53913

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

CIN, COURSE TITLE: E-050-2501, SH-60B Fleet Replacement Aircrewman Category 1 Syllabus (Track E-050-2510)
TRAINING ACTIVITY: HSL-41
LOCATION, UIC: NAS North Island, 55138

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

CIN, COURSE TITLE: C-646-9407, H-60 Armament and Related System Organizational Maintenance (Track
TRAINING ACTIVITY: MTU 1005 NAMTRAU
LOCATION, UIC: NAS Jacksonville, 66051

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-646-9407, H-60 Armament and Related System Organizational Maintenance (Track

TRAINING ACTIVITY: MTU 1022 NAMTRAU

LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
H-60 Armed Helo Source Data	1	Apr 00	Onboard

Note: The final H-60 Armed Helo Training Package was forwarded to NAMTRAGRU HQ in April 2000. This information was forwarded to NAMTRAU North Island and NAMTRAU Jacksonville for inclusion in SH-60B and HH-60H training courses. These courses will be RFT with this information in third quarter FY01. Further information on Curricula Materials and Training Aids will be included in the next iteration of this NTSP.

IV.B.3. TECHNICAL MANUALS

Note: H-60 Armed Helo training requirements source data was received by NAMTRAGRU HQ in April 2000. More specific information on Technical Publications will be included in the next iteration of this NTSP.

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Conducted analysis of MPT requirements	Jan 96	Completed
PDA	Conducted SH-60B Block 0 ECP-267 Developmental Test	Feb 97	Completed
PDA	Conducted SH-60B Block 0 ECP-267 Operational Test	Feb 97	Completed
PDA	Conducted GAU-16/A Machine Gun Developmental Test	Apr 97	Completed
PDA	Conducted SH-60B Rapid Deployment Developmental Test	Apr 97	Completed
PDA	Conducted GAU-16/A Machine Gun Operational Test	May 97	Completed
PDA	Conducted SH-60B Rapid Deployment Operational Test	May 97	Completed
TSA	Conducted HH-60H Developmental Training	May 97	Completed
TA	Conducted Follow-On Training for SH-60B Rapid Deployment	Jun 97	Completed
TSA	Installed Navy Technical Training Equipment	Jun 97	Completed
TSA	Conducted HH-60H Training for Operational Test	Aug 97	Completed
PDA	Distributed Draft NTSP for Review	Feb 98	Completed
PDA	Conducted HH-60H Developmental and Operational Testing	Mar 98	Completed
PDA	Promulgated Approved NTSP	Jun 98	Completed
TSA	Conducted SH-60B Core B Developmental Training	Aug 98	Completed
TSA	Conducted SH-60B Core B Operational Training	Dec 98	Completed
TSA	Completed Source Data Material for Changes to Courses and Delivered to NAMTRAGRU HQ	Apr 00	Completed
TSA	Delivered Source Data Material for Course Changes to the NAMTRAUs	Apr 00	Completed
NAVICP	Achieved MSD	Jul 00	Completed
TSA	Begin Armed Helo Training with All Required Courseware Available	Apr 01	Pending
PDA	Achieve Navy Support Date	Jul 01	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
Validate and incorporate changes to SH-60B Armed Helicopter Technical Publications	NATEC	Pending	Pending
Validate and incorporate changes to HH-60H Armed Helicopter Technical Publications	NATEC	Pending	Pending

PART VII - POINTS OF CONTACT

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