NAVY TRAINING SYSTEM PLAN

FOR THE

AIM-9X

SIDEWINDER MISSILE SYSTEM

N88-NTSP-A-50-9601A/A

JUNE 2001

AIM-9X SIDEWINDER MISSILE SYSTEM

EXECUTIVE SUMMARY

This Navy Training System Plan (NTSP) has been developed in accordance with OPNAVINST 1500.76 to identify the life-cycle, manpower, personnel, and training requirements associated with the AIM-9X Sidewinder Missile.

The AIM-9X is being developed as a short-range air-to-air missile with enhanced target acquisition capabilities using the existing AIM-9M Sidewinder Missile warhead, rocket motor and fuze components in combination with a new seeker/guidance and jet vane control section. The mission of the AIM-9X is to detect, home in, intercept, and destroy enemy aircraft. The AIM-9X acquisition program is currently in the Engineering and Manufacturing Development (E&MD) phase of the Weapon System Acquisition Process. Low-Rate Initial Production decision was made in the first quarter of Fiscal Year (FY) 01. Early Operational Fielding is anticipated in the fourth quarter of FY02. Initial Operational Capability (IOC) is anticipated in the fourth quarter of FY02.

The maintenance concept for the AIM-9X is based on an overall objective to assure that All-Up-Round (AUR) missiles are available to fulfill commitments of operational activities, and to provide the means to restore unserviceable missiles to serviceable condition with minimum downtime. Maintenance requirements are allocated to three levels of maintenance as defined in the Naval Ordnance Maintenance Management Program (NOMMP), OPNAVINST 8000.16 (series).

The AIM-9X will not alter the operator (pilot) manning requirements at any organizational activity (aircraft squadron). No new skills are required for operation of the AIM-9X. The skills required to operate the AIM-9X are compatible with the skills required to operate the AIM-9M, therefore no new Naval Officer Billet Code or Military Occupational Specialty (MOS) is required.

The AIM-9X will not alter the manning requirements at any organizational- or intermediate-level maintenance activity. No new skills are required for maintenance of the AIM-9X at the organizational- or intermediate-levels of maintenance. The skills required to perform maintenance on the AIM-9X are compatible with existing skills required to perform maintenance on the AIM-9M and AIM-120; therefore, no new Naval Enlisted Classifications (NECs) or MOSs are required. Raytheon Missile Systems (RMS) will provide AUR and component-level maintenance throughout the missile's life cycle. Therefore, the AIM-9X will not alter the manning requirements at organic AUR and component-level maintenance activities.

Existing operator and maintenance training courses for the AIM-9M will be modified to include AIM-9X information. These modifications will incorporate AIM-9X information into course curricula without changing course lengths, instructor or student billets.

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LIST OF ACRONYMS

AAE	Aircraft Armament Equipment
ABF	Annular Blast Fragmentation
ACMI	Air Combat Maneuvering Instructor
ACTI	Air Combat Tactics Instructor
AFD	Arm and Fire Device
AIMD	Aircraft Intermediate Maintenance Department
ALSP	Acquisition Logistics Support Plan
AMRAAM	Advanced Medium-Range Air-to-Air Missile
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
AOOCP	Aviation Ordnanceman Officer Career Progression
AOTD	Active Optical Target Detector
ASM	AMTCS – Software Module
ASRAAM	Advanced Short-Range Air-to-Air Missile
AT	Aviation Electronics Technician
AUR	All-Up-Round
AWL	Advanced Weapons Laboratory
BIT	Built-In-Test
CAI	Computer Aided Instruction
CAS	Control Actuation System
CATM	Captive Air Training Missile
CBT	Computer Based Training
CCRP	Captive Carriage Reliability Program
CEST	Classroom Explosive Ordnance Disposal System Trainer
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, Atlantic Fleet
CINCPACFLT	Commander in Chief, Pacific Fleet
CITIS	Contractor Integrated Technical Information Service
CMBRE	Common Munitions BIT Reprogramming Equipment
CMC	Commandant of the Marine Corps
CMI	Computer Managed Instruction
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMNAVAIRRESFOR	Commander Naval Air Reserve Force
COTS	Commercial Off-The-Shelf
CRALTS	Common Rack And Launcher Test Set

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LIST OF ACRONYMS

CV	Aircraft Carrier
CVN	Aircraft Carrier, Nuclear
CWTPI	Conventional Weapon Technical Proficiency Inspection
DAB	Defense Acquisition Board
DATM	Dummy Air Training Missile
DEFTACI	Defensive Tactics Instructor
DEM/VAL	Demonstration and Validation
DT	Development Test
DT/OT	Development Test/Operational Test
E&MD	Engineering and Manufacturing Development
ECP	Engineering Change Proposal
ECR	Electronic Classroom
EDM	Engineering Development Model
EOA	Early Operational Assessment
EOD	Explosive Ordnance Disposal
EODTEU	Explosive Ordnance Disposal Training and Evaluation Unit
ESAD	Electronic Safe and Arm Device
ETJ	Electronic Training Jacket
FMS	Foreign Military Sales
FPA	Focal Plane Array
FRA	Fin Retainer Assembly
FREST	Fleet Replacement Enlisted Skills Training
FRS	Fleet Replacement Squadron
FTD	Fleet Training Device
FWST	Fleet Weapons Support Team
FY	Fiscal Year
GCS	Guidance Control Section
GS	Guidance Section
HMSC	Hughes Missile Systems Company
HSIP	Human Systems Integration Plan
ICW	Interactive Courseware
IDTC	Inter-Development Training Cycles
ILSP	Integrated Logistics Support Plan
IOC	Initial Operational Capability

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LIST OF ACRONYMS

IPT	Integrated Product Team
IR	Infrared
IRCCM	Infrared Counter-Counter Measures
IRRS	Improved Rearming Rate System
IWS	Integrated Weapons Team
JDAM	Joint Direct Attack Munition
JHMCS	Joint Helmet Mounted Cueing System
JRB	Joint Reserve Base
JSOW	Joint Stand-Off Weapon
LALS	Linkless Ammunition Loading System
LANT	Atlantic
LRC	Learning Resource Center
LRIP	Low-Rate Initial Production
MAD	Marine Aviation Detachment
MALS	Marine Aviation Logistics Squadron
MAP	Munitions Application Program
MATMEP	Marine Aviation Training Management Evaluation Program
MAWTS	Marine Aviation Weapons and Tactics Squadron
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MOAT	Missile On-Aircraft Test
MOS	Military Occupational Specialty
MPCU	Mobile Power Conditioning Unit
MPT	Manpower, Personnel, and Training
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program
MTL	Master Task List
MTRR	Maintenance Training Readiness Review
MTU	Maintenance Training Unit
NA	Not Applicable
NAMTRAGRU	Naval Air Maintenance Training Group
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAMTRAU	Naval Air Maintenance Training Unit
NAS	Naval Air Station

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LIST OF ACRONYMS

NAST	Naval Air Systems Team
NATTC	Naval Air Technical Training Center
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NAVSCOLEOD	Navy EOD School
NAVWPNTESTRON	Naval Weapons Test Squadron
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWCWD	Naval Air Warfare Center Weapons Division
NAWMU	Naval Airborne Weapons Maintenance Unit
NCEA	Non-Combat Expenditure Allowance
NEC	Navy Enlisted Classification
NOMMP	Naval Ordnance Maintenance Management Program OPNAVINST 8000.16
NS	Naval Station
NSAWC	Naval Strike and Air Warfare Center
NTP	Navy Training Plan
NTRDM	Naval Training Requirements Documentation Manual
NTSP	Navy Training System Plan
OA	Operational Assessment
OATMS	OPNAV Aviation Training Management System
OPEVAL	Operational Evaluation
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
OPTEVFOR	Operational Test and Evaluation Force
OT	Operational Test
OTRR	Operational Test Readiness Review
PAC	Pacific
PC	Personal Computer
PDA	Principal Development Agency
PDM	Program Document Management (system)
PEO	Program Executive Officer
PEST	Practical Explosive Ordnance Disposal System Trainer
PMA	Program Manager, Air
PRM	Production Representative Model
PRMI	Production Representative Model Instrumented

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LIST OF ACRONYMS

P/SS	Propulsion and Steering Section
QUAL/CERT	Qualification and Certification
RFOU	Ready for Operational Use
RFT	Ready For Training
RMS	Raytheon Missile Systems
RSP	Render Safe Procedure
SAMP	Single Acquisition Management Plan
SCTV	Separation and Control Test Vehicle
SEAM	Sidewinder Expanded Acquisition Mode
SFARP	Strike Fighter Advanced Readiness Program
SFTI	Strike Fighter Tactics Instructor
SFTP	Strike Fighter Training Program
SFTS	Strike Fighter Training System
SFWE	Strike Fighter Weapons Employment
SFWS	Strike Fighter Weapons School
SFWSL	Strike Fighter Weapons School, Atlantic
SFWSP	Strike Fighter Weapons School, Pacific
SFWT	Strike Fighter Weapons and Tactics
SST	Ship Suitability Test
STRKFTRWING	Strike Fighter Wing
SWATSLANT	Strike Weapons and Tactics Atlantic
T&E	Test and Evaluation
TALD	Tactical Air Launched Decoy
TBD	To Be Determined
TD	Training Device
TEMP	Test and Evaluation Master Plan
TMT	Trainer Management Team
TOFT	Tactics and Operational Flight Trainer
TPS	Test Program Set
TTE	Technical Training Equipment
TYCOM	Type Commander
USMC	United States Marine Corps
USN	United States Navy
VFA	Fighter Attack Squadron

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LIST OF ACRONYMS

VMAT	Marine Attack Training Squadron
VMFA	Marine Fighter Attack Squadron
VMFAT	Marine Fighter Attack Training Squadron
VX	Air Test and Evaluation Squadron
WSESRB	Weapons Systems Explosive Safety Review Board
WSO	Weapon and Sensor Officer
WST	Weapons Systems Trainer
WTI	Weapons and Tactics Instructor
WTT	Weapons Tactics Trainer

AIM-9X SIDEWINDER MISSILE SYSTEM

PREFACE

This Approved Navy Training System Plan (NTSP) for the AIM-9X Sidewinder Missile is an update of the approved AIM-9X NTSP dated May 1998. It complies with OPNAVINST 1500.76 and the guidelines set forth in the Navy Training Requirements Documentation Manual (NTRDM), P-751-1-9-97.

The major changes and updates to this NTSP consist of:

PART I   Updated to reflect progress made during the design, development, and testing of the AIM-9X.

PART II   Recalculated to depict current billet requirements of fleet support units through FY 05.

PART III   In addition to reflecting the changes mentioned above, this part has been updated by recalculating chargeable student billets through FY05.

PART IV   Updated to refine the training and training logistics support requirements.

PART V   Updated to reflect programmatic and technical schedule changes.

PART VI   Updated to include open action/watch items.

PART VII   Updated to reflect current Points of Contact.

PART I - TECHNICAL PROGRAM DATA

A. TITLE-NOMENCLATURE-PROGRAM

1. **Title-Nomenclature-Acronym.** Sidewinder Missile System - AIM-9X - None.

2. **Program Element.** 0603715D

B. SECURITY CLASSIFICATION

1. System Characteristics.......................... Secret

2. Capabilities.. Secret

3. Functions .... Confidential

C. NTSP PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor .... CNO (N88)

OPO Resource Sponsor... CNO (N880C7)

Marine Corps Program Sponsor .... CMC (ASL-30)

Developing Agency .... PEO (T) (PMA-259)

Training Agency... CINCLANTFLT
CINCPACFLT
CNET
COMNAVAIRRESFOR
NSAWC
MAWTS-1

Training Support Agency .... NAVAIRSYSCOM (PMA-205)
COMNAVAIRRESFOR (N3W)

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

Director of Naval Training .... CNO (N7)

Commander, Reserve Program Manager.....................................COMNAVAIRRESFOR (N3W)

Marine Corps Total Force Structure .... MCCDC (C-5352)

D. SYSTEM DESCRIPTION

1. **Operational Uses.** The AIM-9X Sidewinder Missile, hereafter referred to as the AIM-9X, is a supersonic, short-range, air-to-air missile with enhanced target acquisition capabilities. The AIM-9X will be flown on active duty and Reserve Navy and Marine Corps fighter and attack aircraft, in both offensive and defensive counter-air missions as a highly maneuverable, launch and leave missile with passive infrared (IR) guidance. It will provide full day and night capability, resistance to countermeasures, increased off-boresight angle acquisition and launch capability, increased maneuverability, and improved target acquisition over the current inventory AIM-9M.

2. **Foreign Military Sales.** The AIM-9X program is a joint United States Navy (USN) and United States Air Force procurement, with the USN designated as the lead service. Other versions of the AIM-9 (series) Sidewinder have been the subject of Foreign Military Sales (FMS) activity. Multiple countries have approached the AIM-9X program for potential sales.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The AIM-9X program is a joint service development and acquisition program. The Navy is the lead or executive service and the Air Force is the participating service. Naval Air Systems Command (NAVAIRSYSCOM) Air-to-Air Missiles, Program Manager, Air (PMA-259) is the acquisition and development agent for AIM-9X and is comprised of Navy, Marine Corps and Air Force personnel. Table 1 lists the Engineering and Manufacturing Development (E&MD) phase Test and Evaluation (T&E) schedule (Source: Test and Evaluation Master Plan (TEMP) Revision C).

Table I-1. AIM-9X E&MD T&E Schedule.

Test Phase	Period
Developmental Test (DT)-IIA	Jan 97 - Aug 98
DT-IIB/C	Sep 98 - Dec 00
Operational Test (OT)-IIA	Sep 99 – Jul 00
Captive Carriage Reliability Program (CCRP)	May 00 - Sep 02
DT Assist	Nov 00 - Aug 01
OT-IIB (OPEVAL)	Dec 01 - Sep 02

1. **Developmental Test and Operational Test Not Completed.** The AIM-9X T&E program is currently in the Developmental Test (DT)-Assist and CCRP phases. The AIM-9X T&E program completed DT-IIA in August 1998, completed Operational Test (OT)-IIA Operational Assessment (OA) in July 2000, began Captive Carriage Reliability Program (CCRP) in July 2000, and completed DT-IIB/C in December 2000.   The OT-IIB Operational Evaluation (OPEVAL) phase will begin December 2001 using the F/A-18C/D aircraft to assess and verify operational effectiveness, supportability, and suitability of the AIM-9X missile for fleet introduction. The Operational Test and Evaluation Force (OPTEVFOR), using the Fleet's Air Test and Evaluation Squadron (VX)-9, will perform OPEVAL under actual fleet conditions in

FY02. Schedules for follow-on integration with other aircraft (F/A-18E/F, F-14D, AV-8B, AH-1W, etc.) are in development.

2. **Developmental Test Completed.**

     a. Developmental Test -I. During the AIM-9X Demonstration and Validation Phase (DEM/VAL), the Government conducted an Early OA (EOA) of the BOXOFFICE (II) airframe. Wind tunnel tests were performed and 14 firings were conducted. Additionally, the Government performed an EOA on the Advanced Short Range Air-to-Air Missile (ASRAAM) as part of a mandatory Foreign Comparative Test requirement. As part of the two-contract DEM/VAL and DT-I phases of the program, contractors conducted laboratory demonstrations and ground-to-air and captive carry flight tests using seeker hardware and trade studies. Laboratory demonstrations concentrated on detector/non-uniformity compensation, cooling and gimbal/platform stabilization. Ground-to-air and captive carry tests concentrated on signal processing, which gave each contractor an opportunity to mature algorithms and hardware, and make improvements in Infrared Counter-Counter Measures (IRCCM) and acquisition performance in an iterative series of test events.

     b. Developmental Test -II. In January 1997, the E&MD contract was awarded to Hughes Missile System Company (HMSC), which has since merged with and become Raytheon Missile System (RMS).

       (1) Developmental Test -IIA. The DT-IIA phase began in January 1997 with the award of the E&MD contract. In May 1997, the first flight of the DT-IIA phase was flown, which was a captive carry flight to perform a system checkout. The DT-IIA phase continued captive carry flight tests through August 1998, focusing on seeker acquisition, tracking, guidance and autopilot algorithms, and the aircraft interface. During this phase of testing, RMS supported loading operations, while pilots flew scene/target image-gathering missions. AIM-9X training for operation and maintenance tasks were not required.

       (2) Developmental Test -IIB/C. The DT-IIB/C phase began September 1998 and concluded in December 2000. Seventeen Separation and Control Test Vehicles (SCTVs) were launched, each flying pre-programmed flight paths to demonstrate airframe safe separation, aerodynamic control, and stability. SCTVs do not contain seeker electronics. Four Engineering Development Models (EDMs) were launched against QF-4 targets to demonstrate seeker acquisition, tracking, and guidance performance in blue sky, desert background and with and without countermeasures. Six Production Representative Models (PRMs) were launched against QF-4 targets to demonstrate performance maturity in various environments with and without countermeasures.

     During DT-IIB/C, RMS developed AIM-9X Theory of Operation, F/A-18C/D Aircrew Procedures, F/A-18 Loading Procedures, F-15C/D Aircrew Procedures, and F-15C/D

Loading Procedures training modules. These training topics were presented to the Navy and Air Force T&E personnel prior to the first test event at each test site. AIM-9X loading training for the F/A-18 aircraft was presented to Naval Weapons Test Squadron (NAVWPNTESTRON) at the Naval Air Warfare Center Weapons Division (NAWCWD), China Lake, California on 30 June 1998, while AIM-9X theory of operation and F/A-18 aicrew procedures training was presented to AIM-9X project pilots and Advanced Weapons Laboratory (AWL) test pilots at Boeing St. Louis in conjunction with JHMCS training on 15 July 1998. Training Integrated Product Team (IPT) members reviewed the training materials 90 days prior to instruction, then audited the instruction. Training IPT members will review, audit, and update theses training materials and future materials continually throughout the E&MD phase.

3. Operational Test Completed.

    a. Operational Test -II.

        (1) Operational Test -IIA. OT-IIA began in September 1999 with the OA Operational Test Readiness Review (OTRR) certification and concluded with the fifth EDM launch. This phase consisted of 200 hours of captive carriage tests followed by five EDM launches to assess the potential operational suitability of the AIM-9X. The five EDM launches were:

- A defensive notch position at maximum range,

- A Visual Identification engagement at minimum range,

- A defensive notch position at minimum range,

- An offensive notch position at minimum range with countermeasures,

- A one-circle engagement with countermeasures.

        In preparation for the start of OT-IIA, RMS provided AIM-9X F/A-18 Loading Procedures training to VX-9 ordnancemen at NAWCWD China Lake on 8 September 1999. RMS provided AIM-9X Theory of Operation and F/A-18 Aicrew Procedures training to VX-9 test pilots at Boeing St. Louis in conjunction with Boeing's JHMCS training on 14 July 1999. RMS provided an informal brief covering container inspection, missile unpacking and missile inspection to NAWCWD China Lake Station Weapons personnel (civilians) on 9 September 1999.

        (2) Captive Carriage Reliability Program. CCRP began in August 2000 with the delivery of the first PRM-Instrumented (PRMI). CCRP will continue through September 2002 to test the reliability and maintainability of the AIM-9X. Captive carriage missions will be

flown using the PRMI while its condition is monitored by visual inspections and testing using the AIM-9X Built-In-Test (BIT)/Reprogrammer.

In preparation for the start of CCRP, RMS provided AIM-9X BIT/ Reprogramming and Component Remove and Replace Procedures training to VX-9 ordnancemen and NAWCWD China Lake Station Weapons personnel (civilians) at NAWCWD China Lake on 12-13 July 2000. A Naval Aviation Maintenance Training Unit (NAMTRAU) instructor from North Island and a Weapons Department Ordnanceman from NAS Lemoore also attended the training.

(3) **Ship Suitability Test.** AIM-9X Ship Suitability Test (SST) was conducted 13-14 March 2001 aboard the USS Stennis, CVN-74. Missile receipt, de-canning, inspection, handling/movement, BIT, and reprogramming instruction was provided to Ship's Company, who then performed those same tasks using five AIM-9X AUR containers (CNU-609/E), three AIM-9X inert rounds, and one AIM-9X PRMI. The training was conducted by two instructors from NAMTRAU North Island, Maintenance Training Unit (MTU) 4033, using briefs, training handbooks, Computer-Based Training (CBT) for BIT/reprogramming familiarization, and PC-card/embedded training for BIT/reprogramming hands-on practice. VX-9 personnel were in attendance to witness the training for potential early credit for OPEVAL.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. RMS' AIM-9X design uses and modifies the existing AIM-9M rocket motor (MK36 MOD 11), warhead (WAU-17/B), and Active Optical Target Detector (AOTD) (DSU-15A/B and DSU-15B/B). The Government will supply these components to RMS during the E&MD phase to build AIM-9X configurations. Because of the AIM-9X production schedule and existing AIM-9M inventory, however, the AIM-9X will replace the AIM-9M in a phased approach.

G. DESCRIPTION OF NEW DEVELOPMENT

   1. Functional Description. The AIM-9X is a supersonic, air-to-air, guided missile that employs a passive IR target acquisition system, proportional navigational guidance, a closed-loop position servo Control Actuation Section (CAS), and an AOTD. The AIM-9X is launched from an aircraft after target detection to home in on IR emissions then intercept and destroy enemy aircraft. The missile interfaces with the aircraft through the missile launcher (either the LAU-7D/A or LAU-127A/A) using a forward umbilical cable, and/or a mid-body umbilical connector and three missile hangars. The AIM-9X has three basic phases of operation: captive flight, launch, and free flight.

   The AIM-9X uses/modifies the existing AIM-9M AOTD, warhead, and rocket motor, but incorporates a new Guidance Section (GS), new hangars, a new mid-body connector, new harness and harness cover, new titanium wings and fins, and a new CAS. The missile is propelled by the AIM-9M solid-propellant rocket motor, but uses a new Arm and Fire Device (AFD) handle

design called the Safe Arm Selector handle. Also, the AIM-9M rocket motor is modified to mount the CAS on its aft end. Four forward-mounted, fixed titanium wings provide aerodynamic lift and stability for the missile. Four titanium control fins mounted in line with the fixed wings and activated by the CAS accomplish airframe maneuvering. The CAS provides thrust vectoring by using four jet vanes to direct the flow of the rocket motor exhaust. The AIM-9X is configured with the AIM-9M Annular Blast Fragmentation (ABF) warhead, which incorporates a new Electronic Safe and Arm Device (ESAD) to arm the warhead after launch. The AIM-9M AOTD is used to detect the presence of a target at distances out to the maximum effective range of the missile warhead and to command detonation.

a. **Guidance Section.** The GS provides the missile tracking, guidance, and control signals. It consists of three major subassemblies: (1) a mid-wave IR Focal Plane Array (FPA) seeker assembly for detecting the target, (2) an electronics unit that converts the detected target information to tracking and guidance command signals, and (3) a center section containing the cryoengine, contact fuze device, two thermal batteries, and required harnesses and connectors. The coolant supply for the GS is provided by the twin-opposed-piston, linear drive, Stirling cryoengine, eliminating the need for external nitrogen supply via the launchers.

b. **Active Optical Target Detector.**   The AIM-9X AOTD is the AIM-9M DSU-15A/A or DSU-15B/B modified and redesignated as the DSU-36/B or DSU-37/B, respectively. These are the same AOTD used by AIM-9M with the exception that the forward end "V" groove is removed, because the forward marmon clamp, used to join the AIM-9M Guidance Control Section (GCS) to the AOTD, has been replaced with 14 captive screws. The AOTD is a narrow-beam, active optical, proximity fuze system. The AOTD transmits pulsed IR energy through the four forward windows and the reflected energy is received by an IR detector through the aft four windows. The purpose of the AOTD is to detect the presence of a target at distances out to the maximum effective range of the missile warhead and to generate an electrical firing signal so that the Electronic Safe and Arm Device (ESAD) explosive train and warhead are detonated at a point where the average kill probability is maximized.

c. **Warhead.** The AIM-9X uses the WDU-17/B warhead; the same warhead used on the AIM-9M but uses a different safe and arm device. The new ESAD fits into the hollow central cavity of the warhead, and arms the missile at a safe distance from the launch aircraft. The warhead is an explosive-loaded, end-initiated, annular blast, titanium rod fragmentation type warhead comprised of a case assembly, a transfer tube assembly, a loaded warhead booster, a PBXN-3 explosive charge, and an enclosure. It detonates upon receipt of the explosive output from the ESAD.

(1) **Electronic Safe-Arm Device.** The ESAD is an in-line explosive train, electronic-actuated firing device containing environmental sensor monitoring circuitry, safety logic circuitry, high voltage circuitry and explosives. AIM-9X performance requirements for extreme flight conditions and greatly enhanced maneuverability drove the ESAD design. ESAD

arming occurs only after the ESAD receives the irreversible commit to launch signal, experiences the appropriate launch environment (sensed axial acceleration) and reaches a safe separation distance. Missile battery power, which is only available once the AIM-9X is committed to an engagement, powers the ESAD.

      d. Propulsion and Steering Section. The AIM-9X Propulsion and Steering Section (P/SS) design modifies the existing AIM-9M Mk 36 Mod 11 rocket motor in order to mount the CAS on the aft end of the rocket motor and to provide a mid-body umbilical connector. The AIM-9X P/SS is designated the WPU-17/B. The AIM-9X modifications to the Mk 36 Mod 11 rocket motor consist of machining off the AIM-9M wing ribs; removal of the submerged nozzle; attachment of a mid-body umbilical; conformal CAS electronics controller module; and an interconnecting harness mounted to the underside of the rocket motor case. Two electrical contacts buttons are in the forward hanger. The aft contact button is used to complete the rocket motor igniter circuit. The forward contact button is not used. The AIM-9X rocket motor consists of a steel case; type X-61 (AS 6065) solid composite propellant grain; an igniter device; an AFD, and a Safe Arm Selector handle.

      (1) Forward Hangar/Mid-body Umbilical Connector and Buffer Connector. Slightly "taller" hangers for AIM-9X replace the hangers on the AIM-9M rocket motor. These taller hangers provide additional separation between the missile and the launcher. This separation is needed to provide adequate clearance for the AIM-9X on all launcher configurations. The middle and aft hanger mountings are unchanged from the AIM-9M configuration, while an integrated forward hanger/mid-body umbilical assembly replaces the AIM-9M forward hanger. The mid-body umbilical connector adds a mid-body interface for the LAU-127 launcher. This connection provides the missile MIL-STD-1553 digital communications with the launching aircraft, and requires a buffer connector similar to the Advanced Medium-Range Air-to-Air Missile (AMRAAM) buffer connector. The forward hanger/mid-body umbilical assembly is an integrated assembly that consists of the hanger, the mid-body umbilical connector, the umbilical cabling, and the rocket motor AFD wiring to the hanger striker points. The rocket motor AFD wiring is unchanged from that used in the AIM-9M and will interface with the striker points as in the AIM-9M configuration.

      (2) Arm-Fire Device. The AFD is a manual safety device that prevents the inadvertent firing of the rocket motor. The device is switched to the arm position on the flight line by the ground crew prior to flight. It is the same MK 297 AFD that is used presently on AIM-9M, although the handle is modified to allow for the new harness cover. The new handle is called the Safe Arm Selector handle. The handle is a "PLUS" or cross design with four extensions. This design provides a visual confirmation of the arm/safe condition of the rocket motor. Three of the extensions are painted black and the fourth is painted white. The safe or armed condition is indicated by the position of the white extension in relation to the ARM/SAFE indication on the rocket motor harness cover decal.

(3) **Control Actuation System.** The CAS provides AIM-9X flight control and connects to the aft end of the rocket motor. The CAS is a thrust vector control system consisting of four movable aerodynamic tail fins and four jet vanes that direct the flow of the rocket motor exhaust. Each jet vane is slaved to the associated tail fin shaft on the same side of the missile. Prior to launch, spring-loaded pistons lock the tail fins and jet vanes from moving. With missile battery power available, the fin unlock command fires an unlock Electronic Explosive Device into a manifold, causing withdrawal of all fin lock tabs by the squib/cartridge output-gas-powered piston movement. A wiggle test verifies positive fin control, which must occur in order for the rocket motor initiation command to be generated. A dedicated 106 VDC thermal battery in the guidance section powers the CAS.

The jet vanes are in the exhaust section of the missile, aft of the rocket motor. They are mechanically linked through a shaft to the control fins and provide additional steering capability by redirecting the exhaust gases. Damage to the jet vanes could occur if they are used to lift the missile during ground handling.

(4) **Harness and Harness Cover.** Unlike the AIM-9M, an electronic harness has been added to the AIM-9X to provide the communications interface between the electronics unit in the GS and the other missile components. Due to the lack of space internally, the harness mounts externally on the underside of the missile surface. A harness cover (made up of an aft, center, and forward cover) spans most of the length of the missile and provides an aerodynamic surface and protective cover for the electronic harness and the CAS electronic circuit board. The forward and aft harness covers are made of a fibrite phenolic material and are replaceable in the field by removing the screws attaching them to the missile. The center cover is made of aluminum and specifically protects the CAS electronics module. The alignment of the center cover is critical, requiring a special fixture for proper assembly at the factory. The forward and aft covers possess various cutouts for access to the Safe and Arm Selector Handle and marmon clamps.

2. **Physical Description.** Approximate physical characteristics of the AIM-9X are as follows:

Length:	119 inches
Body Diameter:	5 inches
Fin Span:	17.5 inches
Weight:	189 pounds

PHYSICAL CHARACTERISTICS

Weight: 189 lb.

Dimensions:
 Length: 119 in.
 Diameter: 5 in.

Suspension Provisions: LAU-7D/A OR LAU-127A/A

AFT HANGER

CENTER HANGER

TAIL PLATFORMS

FORWARD HANGER/ CONTACT BUTTON ASSEMBLY

PROPULSION/ STEERING SECTION

JET VANE CONTROL

UMBILICAL CABLE

MIDBODY CONNECTOR

FIN ACTUATOR UNIT

WARHEAD

AFT HARNESS COVER

TD

FINS

GUIDANCE UNIT

SAFE-ARM SELECTOR HANDLE

FWD HARNESS COVER

CAS ELECTRONICS MODULE

WINGS

IR DOME

CLAMP ASSEMBLIES
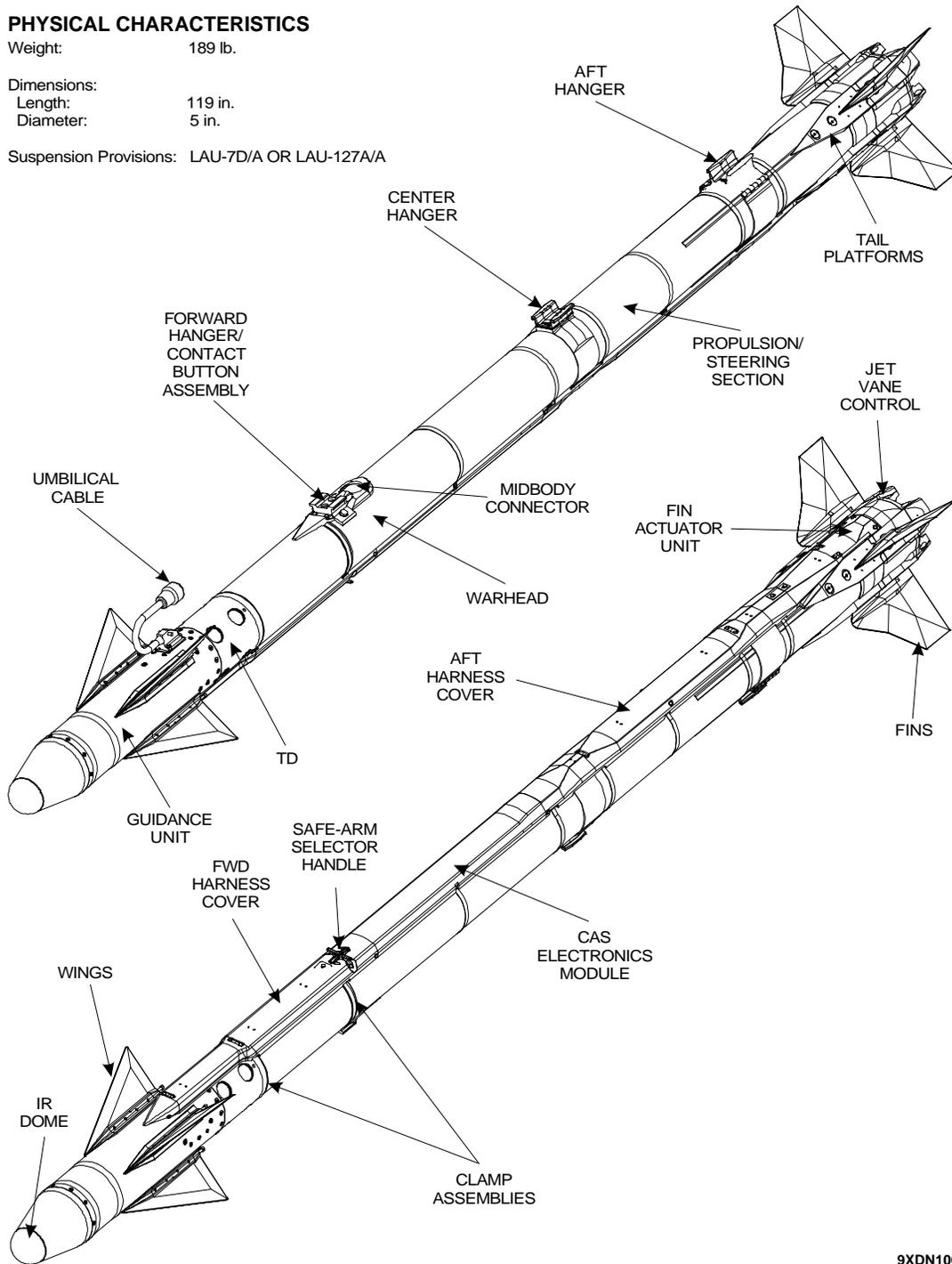
9XDN106

Figure I-1. AIM-9X AUR Missile.

3. New Development Introduction. Early operational fielding of the AIM-9X missile is planned to begin in the fourth quarter of FY02. Low-Rate Initial Production (LRIP) All-Up-

Round (AUR) missile deliveries begin in third quarter FY02 and continue through FY05, when Full-Rate Production deliveries begin.

4. Significant Interfaces.

a. Aircraft. The AIM-9X is required to be compatible, at full capability, with the:

- F/A-18C/D,
- F/A-18E/F,
- F-15C,
- F-15E,
- F-16C/D, and
- F-22.

Other aircraft, such as the F-14D, AV-8B and AH-1W are considering AIM-9X integration. As schedules develop, they will be updated in this NTSP.

The AIM-9X will be integrated with the Joint Helmet Mounted Cueing System (JHMCS), if available, which includes a helmet-mounted display with capability to cue and verify cueing of high off-boresight sensors and weapons. This missile-helmet marriage will provide the aircrew with first-look, first-shot capability in the air-to-air, within visual range, combat arena. Increased off-boresight acquisition angle and improved situational awareness will be achieved through the integrated combination of the AIM-9X missile, the JHMCS and the aircraft. JHMCS is being integrated on F/A-18E/F and F-15C aircraft.

The lead integration platform for the USN and United States Marine Corps (USMC) is the F/A-18C/D. The primary load configuration for AIM-9X will be on the wingtip. Because the F/A-18C/D presently do not have digital capability at the wingtips, they require a modification to make them fully AIM-9X capable. This modification is known as the Digital Wingtip Modification and drives a change to the AN/AWM-100 test set. Engineering Change Proposal (ECP) 582 is being developed by PMA-265, the F/A-18 Program Office, who manages the Digital Wingtip Modification for the F/A-18C/D aircraft and coordinates their schedules with PMA-259. The anticipated approval date for ECP 582 is October 2001, which will fund the first 75 Digital Wingtip kits and first 24 AN/AWM-100 kits. Subsequent kits will follow annually. F/A-18C/D Digital Wingtip Modifications are expected to begin in April 2002. The modified AN/AWM-100 part number is 74D750051-1007. The modified AN/AWM-100 is planned to support AIM-9X IOC until the upcoming AN/AWM-103 is fielded in FY03/04. If the AN/AWM-103 is fielded in time to support AIM-9X IOC, this NTSP will be updated accordingly.

b. Launchers. For the USN and USMC, two guided missile launchers are available to carry and launch the AIM-9X on the F/A-18 aircraft.

(1) **LAU-7D/A.** The LAU-7A/A guided missile launcher can be used on all applicable Sidewinder weapons stations, especially the wing tip, however, it requires modification of the current power supply and the addition of digital and addressing lines to the forward umbilical to carry and launch the AIM-9X at full capability. Additionally, the Fin Retainer Assembly (FRA) is replaced. With these modifications, it is designated the LAU-7D/A. The LAU-7D/A changes drive corresponding changes to the A/E37T-35, Common Rack and Launcher Test Set (CRALTS), in order to support Intermediate-level maintenance tests on the LAU-7D/A. The ECP for the LAU-7D/A is being developed jointly by PMA-201, who manages the LAU-7D/A, and PMA-259. The anticipated approval date for the ECP is August 2001, which will fund 178 LAU-7D/A kits. The ECP for CRALTs is being developed jointly by PMA-259 and PMA-260, who manages CRALTS. The anticipated approval date for the ECP is August 2001, which will fund 270 CRALTS kits.

(2) **LAU-127A/A.** When used on the F/A-18C/D aircraft, the LAU-127A/A guided missile launcher can be used on the wing stations only. Similar to the LAU-7D/A, the FRA must be replaced prior to use. F/A-18C/D aircraft wing stations require a LAU-115 guided missile launcher in order to attach the LAU-127A/A.

c. **AIM-9X BIT/Reprogrammer.** The AIM-9X BIT/Reprogrammer interfaces with the AIM-9X and its Captive Air Training Missile (CATM), the CATM-9X. The AIM-9X BIT/ Reprogrammer consists of the AN/GYQ-79 Common Munitions BIT/Reprogramming Equipment (CMBRE) and the AIM-9X Test Program Set (TPS), TTU-574/E24A. It is capable of BIT checking and reprogramming the AIM-9X and CATM-9X missiles via the forward or mid-body umbilical and also through the AUR container, the CNU-609/E. The AIM-9X TPS is commonly referred to as "Box 4" because its components are contained in a test set case in addition to the three test set cases that are used to store CMBRE. The AIM-9X TPS consists of additional cables and a switch box to enable four-missile BIT/reprogramming through the CNU-609/E AUR container. The AIM-9X TPS is being procured by PMA-259 through RMS.

d. **CNU-609/E.** The AIM-9X AUR container is designated the CNU-609/E. It can hold up to four fully assembled missiles (wings and fins attached). Missiles inside the CNU-609/E are grounded via an in-container umbilical, which can be accessed externally from the record holder port. The container umbilical allows BIT/reprogramming of all attached missiles from a single connection. The CNU-609/E can be stacked up to ten high where sufficient space and policy permit. The CNU-609/E is being procured by PMA-259 through RMS.

5. **New Features, Configurations, or Material.** The AIM-9X utilizes mid-wave IR FPA seeker technology in lieu of the single-element IR seeker used in the AIM-9M. The AIM-9X is a digital missile with BIT and re-programming capability that is not present in the analog AIM-9M. A buffer connector must be used on the mid-body umbilical connector when the AIM-9X is loaded on the LAU-127 launcher. The AIM-9X uses an internal cryogenic engine, called a cryoengine, for IR element cooling. The cryoengine does not require externally supplied coolant,

e.g., nitrogen, and thus does not use the nitrogen receiver assemblies contained in the LAU-7 and LAU-127 launchers. The AIM-9X uses titanium wings and fins. Also, the AIM-9X uses a CAS to direct movement of the aft fins and four internal jet vanes. The jet vanes direct the flow of the rocket motor exhaust to generate thrust vector control.

H. CONCEPTS

1. Operational Concept. Aircrew personnel will employ the AIM-9X during air-to-air combat missions against short-range threat aircraft. The AIM-9X will be integrated initially with the F/A-18C/D aircraft for USN and USMC operations, and thus, will be stowed on deployed USN aircraft carriers. Follow-on integration with other USN, USMC, and USAF aircraft are possible during the AIM-9X Production, Fielding/Deployment, and Operational Support phase.

The AIM-9X seeks and homes in on IR energy emitted by the target. When an IR-emitting source enters the seeker field of view, the electronics unit generates an audio signal. The pilot hears the signal through the headset, indicating that the AIM-9X has acquired a potential target. One method of cueing the AIM-9X to the target's IR energy source is referred to as boresight, whereby the missile is physically pointed toward the target via the pilot maneuvering the aircraft. The IR energy gathered by the missile seeker is converted to electronic signals that enable the missile to acquire and track the target up to its seeker gimbal limits. A second method of cueing the AIM-9X to the target's IR energy is the Sidewinder Expanded Acquisition Mode (SEAM). SEAM slaves the AIM-9X seeker to the aircraft radar. The aircraft avionics system can slave the missile seeker up to a given number of degrees from the missile/aircraft boresight axis. The missile seeker is slaved until an audible signal indicates seeker target acquisition. Upon target acquisition, a seeker interlock in the missile is released (uncaged) and the missile seeker begins tracking the target. The AIM-9X seeker will then continue to track the target. A third method for cueing the AIM-9X to the target's IR energy is through use of the JHMCS. This method allows the pilot to cue the AIM-9X seeker to high off-boresight targets via helmet movement. The pilot can launch the AIM-9X anytime after receipt of the appropriate audible signal.

2. Maintenance Concept. The maintenance concept for the AIM-9X is based on an overall objective to assure that AUR missiles are available to fulfill commitments of operational activities, and to provide the means to restore unserviceable missiles to serviceable condition with minimum downtime. Maintenance requirements are allocated to three levels of maintenance as defined in the Naval Ordnance Maintenance Management Program (NOMMP), OPNAVINST 8000.16 (series), which replaced the Naval Airborne Weapons Maintenance Program, OPNAVINST 8600.2 (series) in September 1999. Maintenance for the AIM-9X is based on an AUR missile maintenance model, where organizational- and intermediate-level maintenance activities forward failed AUR missiles and Captive Air Training Missiles (CATMs) to RMS for repair.

a. **Organizational-level.**

(1) **Navy.**

(a) **Aviation Ordnance.** Squadron personnel with the Aviation Ordnanceman (AO) rating perform organizational-level maintenance for air-launched weapons. AOs with Navy Enlisted Classification (NEC) 8342 and 8842 perform organizational-level maintenance for air-launched weapons on the F/A-18A/B/C/D model aircraft. These squadron AOs are part of Work Center 230. AIM-9X and CATM-9X organizational-level maintenance consists of performing (see OPNAVINST 8000.16 Volume 2, Figure 1-2-1 and 7-2-2):

- Aircraft Armament Equipment (AAE) preparation/inspection
- Aircraft weapons release and control systems checks,
- Return launcher to Aircraft Intermediate Maintenance Department (AIMD),
- Missile visual inspection for damage and corrosion,
- Missile cleaning of external surface and corrosion control,
- Remove and install protective devices,
- Uploading and downloading missile on aircraft,
- Missile BIT checks via aircraft avionics.

(b) **Aviation Electronics.** In most cases on the F/A-18 aircraft, Aviation Electronics Technicians (ATs) perform aircraft weapons release and control systems checks. ATs with Navy Enlisted Classification (NEC) 8342 and 8842 perform weapons release and control systems checks for air-launched weapons on the F/A-18 aircraft. In some squadrons, the Integrated Weapons Team (IWT) concept is used, and in those cases AOs may perform aircraft weapons release and control systems checks. AIM-9X release and control checks for the LAU-7D/A involve the use of a modified AN/AWM-100, part number 74D750051-1007, and provide new screen displays as a result.

(2) **Marine Corps.**

(a) **Aviation Ordnance.** Squadron personnel with the AO rating perform organizational-level maintenance for air-launched weapons. USMC AO personnel with Military Occupational Specialty (MOS) 6531 perform organizational-level maintenance for air-launched weapons on the F/A-18 aircraft. AIM-9X and CATM-9X organizational-level maintenance consists of performing (see OPNAVINST 8000.16 Volume 2, Figure 1-2-1 and 7-2-2):

- Aircraft Armament Equipment (AAE) preparation/inspection
- Aircraft weapons release and control systems checks,

- Return launcher to Marine Aviation Logistics Squadron (MALS),
- Missile visual inspection for damage and corrosion,
- Missile cleaning of external surface and corrosion control,
- Remove and install protective devices,
- Uploading and downloading missile on aircraft,
- Missile BIT checks via aircraft avionics.

b. Intermediate-level.

(1) Navy.

(a) Air Launched Weapons. Weapons Department personnel with the AO rating and NEC 6801 perform intermediate-level maintenance for air-launched weapons. AIM-9X and CATM-9X intermediate-level maintenance will be accomplished ashore and afloat. Station Weapons personnel will perform AIM-9X and CATM-9X intermediate-level maintenance tasks ashore on Naval Air Stations (NAS). Weapons Department personnel (G3 Division) will perform AIM-9X and CATM-9X intermediate-level maintenance tasks aboard USN aircraft carriers (CV/CVN). These Weapons Department personnel are part of Work Center 700. AIM-9X and CATM-9X intermediate-level maintenance consists of (see OPNAVINST 8000.16 Volume 2, Figure 1-3-1):

- Storing and handling AUR missiles and AUR containers using support equipment,
- Unpacking and packing AUR missiles,
- Performing visual inspections of AUR missiles and AUR containers,
- Delivering missile to flight line/flight deck,
- Missile BIT checks via the AN/GYQ-79 Common Munitions BIT Reprogramming Equipment (CMBRE) and AIM-9X Test Program Set (TPS), TTU-574/E24A
- Loading (reprogramming) missile software using CMBRE and AIM-9X TPS, TTU-574/E24A
- Cleaning and corrosion control of AUR missiles,
- Preservation and painting,
- Removing and replacing specified parts of AUR missiles and AUR containers,
- Record keeping/reporting.

AIM-9X and CATM-9X missile reprogramming capability is planned ashore and aboard aircraft carriers using the AN/GYQ-79 CMBRE, but is dependent upon the approval from the Weapons Systems Explosive Safety Review Board (WSESRB). The currently-fielded AN/GYQ-79 CMNBRE, which is used for BIT and reprogramming of Joint Direct Attack Munitions (JDAM) and Joint Stand-Off Weapon (JSOW) assets, requires the addition of a fourth box of equipment, TTU-574/E24A, to accommodate AIM-9X BIT and reprogramming. Additionally, the AIM-9X missile software is classified and requires proper handling during BIT/reprogramming operations.

(b) **Strike Armament.** Aircraft Intermediate Maintenance Department (AIMD) personnel with the AO rating and NEC 6802 perform intermediate-level maintenance on the aircraft launchers. Intermediate-level maintenance for the LAU-7D/A, LAU-115A/A, and LAU-127A/A will be accomplished ashore at NAS and afloat aboard USN CV/CVN. Strike armament intermediate-level maintenance, with respect to AIM-9X capable launchers, consists of (see OPNAVINST 8000.16 Volume 2, Figure 7-3-2):

- Storing, handling, and issuing launchers,
- Performing visual inspections,
- Removing and replacing replaceable assemblies,
- Testing launchers using A/E37T-35 CRALTS.

(2) Marine Corps.

(a) **Air Launched Weapons and Launchers.**   Marine Aviation Logistics Squadrons (MALS) personnel with the AO rating and MOS 6541 perform intermediate-level maintenance for air-launched weapons and aircraft launchers. AIM-9X, CATM-9X, and related launcher intermediate-level maintenance will be accomplished ashore at Marine Corps Air Stations (MCAS). AIM-9X, CATM-9X and aircraft launcher intermediate-level maintenance consists of (see OPNAVINST 8000.16 Volume 2, Figure 1-3-1 and 7-3-2):

- Storing and handling AUR missiles and AUR containers using support equipment,
- Unpacking and packing AUR missiles,
- Performing visual inspections of AUR missiles and AUR containers,
- Delivering missile to flight line/flight deck,
- Missile BIT checks via the AN/GYQ-79 Common Munitions BIT Reprogramming Equipment (CMBRE) and AIM-9X Test Program Set (TPS), TTU-574/E24A
- Loading (reprogramming) missile software using CMBRE and AIM-9X TPS, TTU-574/E24A

- Cleaning and corrosion control of AUR missiles,

- Preservation and painting,

- Removing and replacing specified parts of AUR missiles and AUR containers,

- Record keeping/reporting.

- Storing, handling, and issuing launchers,

- Performing visual inspections,

- Removing and replacing replaceable assemblies,

- Testing launchers using A/E37T-35 CRALTS.

AIM-9X and CATM-9X missile reprogramming capability is planned ashore and aboard aircraft carriers using the AN/GYQ-79 CMBRE, but is dependent upon the approval from the WSESRB. The currently-fielded AN/GYQ-79, which is used for BIT and reprogramming of JDAM and JSOW assets, requires the addition of a fourth box of equipment, TTU-574/E24A, to accommodate AIM-9X BIT and reprogramming. Additionally, the AIM-9X missile software is classified and requires proper handling during BIT/reprogramming operations.

c. Depot. RMS will be responsible for depot-level maintenance, both AUR and component-level, for the life of the system. This maintenance will be accomplished through an AUR missile warranty and a repair contract for out-of-warranty AUR missiles and those sustaining government-induced damage. The AUR missile warranty includes AIM-9X CATMs.

d. Interim Maintenance. RMS will provide interim supply support until the Material Support Date (MSD), when organic supply support capability is established.

e. Life Cycle Maintenance Plan. RMS will be responsible for AUR and component-level life-cycle maintenance.

3. Manning Concept. The AIM-9X does not impact existing manpower requirements at Government organizational-, intermediate-, or depot-level activities. Seat factor, crew ratio, and total aircraft per squadron drive the pilot and Weapon and Sensor Operator (WSO) manpower requirements. The number of weapon pylons/stations per aircraft and total per squadron drive the load crew manpower requirements for USN and USMC fleet squadrons and Fleet Replacement Squadrons (FRS). Enlisted manning for USN and USMC intermediate maintenance activities (CV/CVN, NAS, MCAS, MALS) is based on the total assigned ordnance workload driven by supported squadron requirements, and not on specific AIM-9X requirements. Skills required to support the AIM-9X are within the capability of existing NECs and MOSs (see OPNAVINST 8000.16 Volume 2, Figures 1-2-1 and 1-3-1 for AIM-9M and AIM-120). Refer to Part II for existing USN and USMC intermediate maintenance manpower requirements.

Peacetime manpower requirements for AIM-9X organizational- and intermediate-level maintenance activities can be found in the Manpower Estimate Report, serial number 6T710-1/7227. Manpower requirements for AIM-9X were based on the number of CATM-9M presentations per year for a typical F/A-18 squadron (future CATM-9X presentation requirements were assumed to be consistent with present CATM-9M presentation requirements). The Navy Training and Readiness Matrix requires 1137 CATM-9M presentations per F/A-18C/D squadron per year, which is based on 17 pilots per F/A-18C/D squadron, each pilot requiring 67 CATM-9M presentations per year. A worst case of one CATM-9X presentation per sortie was used, resulting in 1137 expected unpacking, upload, captive carry, download, and packing cycles per year for squadrons outfitted with CATM-9X. A squadron was considered minimally outfitted when it had received four CATM-9X, and normally outfitted when it had received fourteen CATM-9X. Marine Corps requirements were treated similarly with the exception of F/A-18D squadrons, which were considered normally outfitted when they had received eighteen CATM-9X.

a. Organizational-level Maintenance. Loading an AIM-9X or a CATM-9X requires five AOs. One load crew (five USN AOs with NEC 8342s or five USMC AOs with MOS 6531s) can perform the 1139 CATM-9X upload-download cycles per year for an F/A-18C/D squadron. Approximately 60 percent of their yearly workload would be comprised of CATM-9X upload-download cycles. When multiple, concurrent CATM-9X uploading or downloading is required, additional load crews are required.

b. Intermediate-level Maintenance. Three AOs are required to unpack, inspect, and deliver the AIM-9X or the CATM-9X to the flight line/flight deck. One team of three USN AOs with NEC 6801 per Weapons Department or three USMC AOs with MOS 6541 per MALS can perform the 1139 unpacking-packing evolutions per year to support an F/A-18C/D squadron. Approximately 90 percent of their yearly workload would be comprised of CATM-9X unpacking-packing evolutions. When multiple F/A-18C/D squadrons must be supported, additional personnel are required.

c. Depot-level Maintenance. Depot-level maintenance, both AUR and component repair, will be the responsibility of RMS. This maintenance will be supported through RMS warranty and repair contracts for out-of-warranty missiles. RMS will be responsible for establishing internal manpower levels for AIM-9X repair.

4. Training Concept. The AIM-9X training concept is divided into operator and maintenance training. Operator training is provided for F/A-18 pilot and WSO personnel. The AIM-9X training concept for maintenance is divided into organizational- and intermediate-levels based on OPNAVINST 4790.2 (series) and OPNAVINST 8000.16 (series). Organizational-level maintenance training is provided to AO personnel in the F/A-18A/B/C/D community with NECs 8342, 8842, or MOS 6531. Intermediate-level training is provided to AO maintenance personnel with NECs 6801, 6802, or MOS 6541.

Selected Reserve personnel may earn intermediate level maintenance qualifications by attending formal training at Naval Air Maintenance Training Group (NAMTRAGRU) schools, providing quotas, funding, and students are available to attend the training. Specific guidelines are contained in NAVPERS 18068F Volume II, Chapter IV, Navy Enlisted Classifications.

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" School, graduates attend the appropriate Initial "C" School for additional specific training. Initial "C" School training is intended for students with a paygrade of E-4 and below. Career "C" School training is provided for E-5 personnel and above to enhance skills and knowledge within their field.

a. Initial Training.

(1) DT and OT. RMS provided training to NAVWPNTESTRON, VX-9, and Naval Air Systems Team (NAST) personnel prior to the start of DT-IIB, OT-IIA, and CCRP phases, and will provide training to VX-9 prior to the start of OT-IIB. Training includes instruction and practice for aircrew, organizational-level maintenance AOs, and intermediate-level maintenance AOs. Course lengths for aircrew and organizational-level maintenance courses have not exceeded one day. Course lengths for intermediate-level maintenance have not exceeded two days. RMS provided AIM-9X Explosive Ordnance Disposal (EOD) data to the Navy EOD Technology Division, Stump Neck, Maryland. This EOD data and the procedures developed and forwarded by EOD personnel at the NAWCWD range will be used to develop Render Safe Procedures (RSPs) for the AIM-9X and documented in the 60-series publications. The RSPs will be used at Navy EOD School (NAVSCOLEOD) and EOD Training and Evaluation Units (EODTEUs) to train EOD technicians. See III.A.1 for more information.

(2) Ship Suitability Test. NAVAIR PMA-205 and PMA-259 coordinated training for the AIM-9X Ship Suitability Test (SST) conducted 13-14 March 2001 aboard the USS Stennis. RMS training materials were used/modified and two Naval Air Maintenance Training Unit (NAMTRAU) instructors from MTU-4033 NAS North Island provided instruction. SST training topics included unpacking, inspection, removing/replacing field-replaceable components, handling, and BIT/reprogramming using CMBRE/AIM-9X TPS. VX-9 personnel witnessed the SST and training to assess potential credit toward OPEVAL. See III.A.1 for more information.

(3) Initial Fielding. NAST personnel, including Fleet Weapons Support Team (FWST) personnel, will use/modify T&E training curricula, training aids, and LRIP Training Devices (TDs) to provide training during initial fielding. Aircrew, organizational- and intermediate-level training will be provided to USN and USMC instructors within six months prior to Initial Operating Capability (IOC), as well as to squadron personnel and ship's company prior to carrier deployments. See III.A.1 for more information. Early initial fielding is currently anticipated to begin in the fourth quarter of FY02. USN and USMC instructors will retain the training curricula, training aids, and TDs and incorporate AIM-9X information into existing follow-on courses. Currently, the locations anticipated for initial training to be conducted are:

- Naval Strike and Air Warfare Center (NSAWC), NAS Fallon, Nevada
- Strike Fighter Weapons School, Atlantic (SFWSL), NAS Oceana, Virginia
- Fighter Attack Squadron (VFA)-106, NAS Oceana, Virginia (training package only)
- Strike Fighter Weapons School, Pacific (SFWSP), NAS Lemoore, California
- VFA-125, NAS Lemoore, California (training package only)
- Marine Aviation Weapons and Tactics Squadron One (MAWTS-1), MCAS Yuma, Arizona
- Marine Fighter Attack Training Squadron (VMFAT)-101, MCAS Miramar, California (training package only)
- MTU 4030 NAMTRAGRU DET Mayport, Florida
- MTU 4032 NAMTRAU Norfolk, Virginia
- MTU 4033 NAMTRAU North Island, California
- MTU 4034 NAMTRAU Cherry Point, North Carolina
- MTU 4035 NAMTRAU Whidbey Island, Washington
- AO "A" School Class A1, NAS Pensacola, Florida
- Naval Airborne Weapons Maintenance Unit (NAWMU) One, Guam
- Aviation Ordnanceman Officer Career Progression (AOOCP) School, Pensacola, Florida

b. Follow-on Training. Training for existing AIM-9M missiles is in place. Operator (aircrew), organizational-level, and intermediate-level maintenance training courses which contain AIM-9M Sidewinder Missile information will be updated following initial training to include information pertaining to the AIM-9X. Follow-on training for the AIM-9X will be available as part of courses taught at the FRS, MTUs, NSAWC, and Strike Fighter Weapons Schools (SFWS). The addition of AIM-9X material will not change student throughput or chargeable student billets.

(1) Operator Training. Pilots and WSOs are trained at the appropriate FRS for specific aircraft operation and weapons. Pilot and WSO skills in tactics and ordnance delivery are further enhanced at SFWS, NSAWC, and through on-board proficiency training.

(a) Training Devices. TDs required for follow-on and proficiency operator training include the existing aircraft simulators and the CATM-9X. Also, AIM-9X assets are required for live-fire exercises, which are part of the annual Non-Combat Expenditure Allowance (NCEA).

- **Weapons Tactics Trainer, 2E7.** The Weapon Tactics Trainer (WTT), TD number 2E7, is a computer-based weapon system training device developed for use by F/A-18C/D aircrews, which is commonly referred to as the "dome trainer". F/A-18C/D WTTs are located at NAS Lemoore, NAS Oceana, and MCAS Miramar. They are presently concurrent with OFP 13C. The WTT provides familiarization in F/A-18C/D operational procedures and F/A-18C/D approved stores and missiles, as well as proficiency training in launch and control techniques. The F/A-18C/D WTT OFP 15C updates are not planned. The F/A-18C/D WTT OFP 17C updates are planned, but not funded.

- **Tactical Operational Flight Trainer.** The F/A-18C/D Tactical Operational Flight Trainer (TOFT) uses a three-panel visual system and can be networked with other TOFT. Presently, two F/A-18C/D TOFT are located at NAS Lemoore and NAS Oceana. They are presently concurrent with OFP 13C. The TOFT provides familiarization in F/A-18C/D operational procedures and F/A-18C/D approved stores and missiles, as well as proficiency training in launch and control techniques. The F/A-18C/D TOFT OFP 15C updates are not planned. The F/A-18C/D TOFT OFP 17C updates are planned, but not funded.

- **Captive Air Training Missile, CATM-9X.** The CATM-9X is an inert, captive flight TD permitting realistic exercise of the AIM-9X guidance section. It consists of a tactical AIM-9X guidance section, tactical wings and fins, and an inert aft section. The tactical guidance section is modified by replacing its two lithium ion batteries with ballast and by setting a firmware flag to "captive". This modification eliminates the need for a special training umbilical, while still allowing software reprogramming. Airborne operation of the CATM-9X provides the aircrew with all AIM-9X interactions between the aircraft and missile without expending the missile. Fourteen CATM-9X are planned per F/A-18 squadron. For detailed information on CATM-9X refer to element IV.A.2.

(b) Training Aids. Training aids required for follow-on and proficiency operator training include the AIM-9X Interactive Courseware (ICW). An additional training aid is the AIM-9X Ready Room Fly Out Tool. For detailed information on AIM-9X ICW refer to element IV.B.2.

- **AIM-9X ICW.** AIM-9X ICW will be a component of the Strike Fighter Weapons and Tactics (SFWT) curricula, and will be hosted on the Strike Fighter Training System (SFTS). SFWT and SFTS are two of three components of NSAWC's Strike Fighter Training Program (SFTP), which is primarily targeted at providing post-FRS training to Strike Fighter aircrew. The SFTS will be a high-speed, wide area network, linking schools and squadrons together with standardized, Computer-Based Training (CBT) and ICW. Strike Fighter Tactics Instructors (SFTIs), the third component of the SFTP, are trained by NSAWC N7 (Topgun) and administer the SFWT curricula within the squadrons. AIM-9X ICW will be developed for the SFTS by NSAWC, PMA205 PMA259, along with Air Force participation for F-15C content. It is anticipated for release in FY03.

- **AIM-9X Ready Room Fly Out Tool.** RMS has developed an additional training aid that provides simulated missile fly out based on user input initial parameters. The beta version 1.0 AIM-9X Ready Room Fly Out Tool was released for comment in March 2001. The release version 1.0 was ready for distribution in May 2001.

(c) **Courses.** The following table lists the applicable operator training courses. The AIM-9X source material will be incorporated in these courses with minimal impact. The addition of AIM-9X material will not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III. See F/A-18C/D NTSP for course details.

Table I-2. Operator Courses

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
D/E-2A-0601	F/A-18 Fleet Replacement Pilot Category 1	April 03
D/E-2A-0602	F/A-18 Fleet Replacement Pilot Category 2A	April 03
D/E-2A-0604	F/A-18 Fleet Replacement Pilot Category 3A	April 03
D/E-2A-0606	F/A-18 Fleet Replacement Pilot Category 4	April 03
None	F/A-18 Strike Fighter Advanced Readiness Program	April 02
None	F/A-18 Strike Fighter Weapons Employment	April 02

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
M13P4B3	F/A-18D Fleet Replacement Pilot Basic and Transition	April 03
M13P3V3	F/A-18D Fleet Replacement Pilot Refresher	April 03
M13P3W3	F/A-18D Fleet Replacement Pilot Modified Refresher	April 03
M13P4C3	F/A-18D WSO Basic and Transition	April 03
M13P3R3	F/A-18D WSO Refresher	April 03
M13P3S3	F/A-18D WSO Modified Refresher	April 03
N/A	Topgun AIM-9X Brief	April 02

(2) Initial Skills - Maintenance. The AO "A1" School at NAS Pensacola, Florida will provide AIM-9X initial skills training for the AO rating. See Figures I-2 through I-7.

(a) Training Devices. TD required include:

- **DATM-9X.** The DATM-9X is physically representative of the AIM-9X. It is a TD that facilitates instruction and familiarization for transporting, handling, loading, and visual inspection procedures for organizational- and intermediate-level maintenance training purposes. The DATM-9X is not certified for flight, and is designed for ground training use only. For the navy and Marine Corps, the DATM will only be used in the schoolhouse environment and will be repaired locally. Remove and replace components that are shared with the tactical AIM-9X, e.g., wings, fins, etc., will be available in the supply system. For detailed information on DATM-9X, refer to element IV.A.2.

- **Aviation Ordnance Trainer (Device 3B64).** The Aviation Ordnance Trainer is a mock-up of a generic aircraft fuselage/wing used for ordnance load training. Currently, it is compatible with the LAU-7A/A launcher and supports loading AIM-9M training missiles. AIM-9X load training will be accomplished with installation of the LAU-7D/A; a portion of existing A School LAU-7A/A assets will receive the LAU-7D/A modification.

(b) Technical Training Equipment. TTE required include:

- **LAU-7D/A Launcher.** The LAU-7D/A is required to teach and practice AIM-9X release and control checks, AIM-9X loading, and launcher maintenance. Existing Schoolhouse LAU-7A/A assets will require modification to the LAU-7D/A configuration. Refer to I.G.4.b for more information.

- **AN/AWM-100 (part number 74D750051-1007).** The AN/AWM-100 requires modification to work with the LAU-7D/A. Existing Schoolhouse AN/AWM-100 assets will require modification to the 74D750051-1007 configuration. The modified AN/AWM-100 is planned to support AIM-9X IOC until the upcoming AN/AWM-103 is fielded. If the

AN/AWM-103 is fielded in time to support AIM-9X IOC, this NTSP will be updated accordingly. Refer to I.G.4.a for more information.

- **CNU-609/E AUR Container.** The AIM-9X AUR container is required to teach and practice unpacking/packing evolutions, as well as, container maintenance. Refer to I.G.4.d for more information.

(c) **Courses.** AIM-9X source material will be incorporated into the following courses with minimal impact. The addition of AIM-9X material will not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III. The following table lists the applicable initial skills courses for the AO rating that will require AIM-9X data. The applicable Maintenance Training Readiness Review (MTRR) for these courses is the AO "A" School MTRR.

Table I-3. Initial Skills - Maintenance Courses

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
C-646-2011	Aviation Ordnanceman Common Core Class A1	April 03
C-646-2012	Aviation Ordnanceman Navy Difference Training Class A1	April 03

(3) **Organizational-level Maintenance.** O-level Maintenance personnel are trained at the appropriate SFWS (LANT/PAC) for F/A-18C/D weapons loading and launcher release and control checks. Weapon loading skills are further enhanced through on-board proficiency training. See Figures I-2 through I-4.

(a) **TDs.** The TD required for follow-on and proficiency training is the CATM-9X. The CATM-9X will be used at SFWS for the AIM-9X Conventional Weapons Technical Proficiency Inspection (CWTPI), as well as at operational F/A-18C/D squadrons to satisfy loading and handling training requirements.

(b) **Technical Training Equipment.** TTE required include:

- **LAU-7D/A Launcher.** The LAU-7D/A is required to teach and practice AIM-9X release and control checks and AIM-9X loading. Existing Schoolhouse LAU-7A/A assets will require modification to the LAU-7D/A configuration. Refer to I.G.4.b for more information.

- **AN/AWM-100 (part number 74D750051-1007).** The AN/AWM-100 requires modification to work with the LAU-7D/A. The existing Schoolhouse AN/AWM-100 assets will require modification to the 74D750051-1007 configuration. The modified AN/AWM-100 is planned to support AIM-9X IOC until the upcoming AN/AWM-103 is fielded.

If the AN/AWM-103 is fielded in time to support AIM-9X IOC, this NTSP will be updated accordingly. Refer to I.G.4.a for more information.

(c) **Courses.** AIM-9X will be taught in the following organizational-level maintenance training courses. The AIM-9X source material will be incorporated in these courses with minimal impact. The addition of AIM-9X material will not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III. See the F/A-18C/D NTSP for organizational-level maintenance training course details. The applicable MTRR for these courses is the F/A-18 200 Division MTRR.

Table I-4. Organizational-level Maintenance Courses.

COURSE NUMBER	COURSE PROVIDER	COURSE TITLE	AIM-9X RFT DATE
D/E-646-0640	SFWSLANT/PAC	F/A-18 Conventional Weapons Loading	April 02
D/E-646-0647	SFWSLANT/PAC	F/A-18 Conventional Release System Test	April 02
C-102-9963	NAMTRAGRU	F/A-18 Armament Systems (Career) Organizational Maintenance	April 03
C-102-9964	NAMTRAGRU	F/A-18 Armament Systems (Initial) Organizational Maintenance	April 03
C-646-9973	NAMTRAGRU	F/A-18 Stores Management System (Initial) Organizational Maintenance	April 03
C-646-9974	NAMTRAGRU	F/A-18 Stores Management System (Career) Organizational Maintenance	April 03

(4) **Intermediate-level Maintenance.** Intermediate-level maintenance training is available for USN and USMC AOs through the appropriate MTU. See Figures I-5 through I-7.

(a) **Training Devices.** The TD required for follow-on and proficiency training is the DATM-9X. The DATM-9X is physically representative of the AIM-9X. It is a TD that facilitates instruction and familiarization for transporting, handling, loading, and visual inspection procedures for organizational- and intermediate-level maintenance training purposes. The DATM-9X is not certified for flight, and is designed for ground training use only. For the Navy and Marine Corps, the DATM will only be used in the schoolhouse environment and will be repaired locally. Remove and replace components that are shared with the tactical AIM-9X, e.g., wings, fins, etc., will be available in the supply system. For detailed information on DATM-9X, refer to element IV.A.2.

(b) Technical Training Equipment. TTE required include:

- **CNU-609/E AUR Container.** The AIM-9X AUR container is required to teach and practice unpacking/packing evolutions, as well as, container maintenance. Refer to I.G.4.d for more information.

- **AN/GYQ-79 CMBRE and TTU-574/E24A AIM-9X TPS.** CMBRE and the AIM-9X TPS are needed to teach and practice AIM-9X BIT/reprogramming operations. Additionally, RMS developed a software program that simulates the AIM-9X Munitions Application Program (MAP) for training use. The AIM-9X MAP is the software that resides on a PC card that is used by CMBRE to BIT/reprogram tactical AIM-9X assets and is therefore classified. The AIM-9X "Training" MAP is unclassified, also resides on a PC card and it is used with CMBRE and the DATM-9X to teach and practice AIM-9X BIT/reprogramming procedures. Refer to I.G.4.c for more information.

- **315-ASX AC Power Conditioning Unit.** AIM-9X BIT/reprogramming requires a conditioned AC power source for CMBRE and AIM-9X TPS operation. On board aircraft carriers, the power conditioning is installed via a SHIPALT at the forward and aft transfer areas and a third area that is TBD. The SHIPALT power-conditioning unit is model number 345-ASX made by Pacific™. For the schoolhouse environment, a similar model power-conditioning unit is used, model number 315-ASX made by Pacific™. The 315-ASX is mounted on a steel frame mobile cart, and together they are commonly referred to as the Mobile Power Conditioning Unit (MPCU). The JDAM program office, PMA201, procured and delivered the MPCUs for the schoolhouses to support JDAM BIT/reprogramming training.

- **LAU-7D/A Launcher.** The LAU-7D/A is required to teach and practice LAU-7D/A intermediate maintenance. Existing Schoolhouse LAU-7A/A assets will require modification to the LAU-7D/A configuration. Refer to I.G.4.b for more information.

- **A/E37T-35 CRALTS.** A properly configured A/E37T-35 CRALTS is required to teach and practice LAU-7D/A intermediate maintenance. Existing Schoolhouse CRALTS assets will require modification (software and cables) to the appropriate configuration. Refer to I.G.4.b for more information.

(c) Courses. The following table lists intermediate-level maintenance training courses that will have AIM-9X source material incorporated. Detailed listings for these courses follow the table. Course updates will be based on incorporating the RMS training materials used for DT/OT training, but will edit and reformat the material to fit within the existing course length and format. The addition of the AIM-9X training materials will not change existing student throughput or chargeable student billets. For detailed information, refer to element IV.A.2. The applicable MTRRs for these courses are the 700/900 Division MTRRs – one is held for each service (USN and USMC).

Table I-5. Intermediate-level Maintenance Courses.

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
C-122-3111	Air Launched Guided Missiles Intermediate Maintenance	April 03
C-646-3105	Aviation Ordnance Intermediate Maintenance Technician	April 03
C-646-3118	Strike Armament Systems Intermediate Maintenance	April 03
C-646-4108	Air Launched Weapons Ordnance Supervisor	April 03
C-646-4109	Weapons Department General Aviation Ordnance	April 03

Title.................	**Air Launched Guided Missiles Intermediate Maintenance**
CIN..................	C-122-3111 (part of D/E-646-7007)
Model Manager	MTU 4030, NAMTRAGRU DET Naval Station (NS) Mayport
Description.......	This course provides training to the first tour Aviation Ordnancemen, Gunner's Mates and Torpedoman's Mates, including:

- Basic theory
- Safety precautions
- Technical publications
- Missile reporting procedures

	Upon completion, the student will have sufficient knowledge/theory of the Sparrow, Phoenix, Sidewinder, Sidearm, AMRAAM, Maverick, Harpoon, SLAM, HARM, Tow, Hellfire, Penguin All Up Round (AUR) Air Launched Guided Missiles, Walleye Weapon System, Tactical Air Launched Decoy (TALD) and Air Nitrogen Purifier Units to perform, under close supervision, Intermediate Maintenance in the CV/CVN, LPH/LHA, NAS/MCAS working environment.
Locations	MTU 4030, NAMTRAGRU DET, NS Mayport
	MTU 4032, NAMTRAU, NAS Norfolk
	MTU 4033, NAMTRAU, NAS North Island
	MTU 4035, NAMTRAU, NAS Whidbey Island
Length..............	11 days
RFT date..........	Currently available - April 03 Estimated for AIM-9X impacts
Skill identifier...	AO 6801
TD/TTE...........	DATM-9X, AN/GYQ-79, TTU-574/E24A, ASX-315, CNU-609/E
Prerequisite	AO, GMG, TM, or Graduate of AO (ClassA1) School or equivalent or designated striker

Title.................	**Aviation Ordnance Intermediate Maintenance Technician**
CIN..................	C-646-3105 (part of M-646-7026)
Model Manager	MTU 4034, NAMTRAU MCAS Cherry Point, North Carolina
Description.......	This course provides training to USMC ordnance personnel, including:

- Basic theory
- Safety precautions
- Technical publications
- Missile/launcher reporting procedures

	Upon completion, the student will have sufficient knowledge/theory to be able to work on ordnance/armament in the MALS environment.
Locations	MTU-4034 NAMTRAU MCAS Cherry Point, North Carolina
Length..............	75 days
RFT date..........	Currently available - April 03 Estimated for AIM-9X impacts
Skill identifier...	MOS 6541
TD/TTE...........	DATM-9X, AN/GYQ-79, TTU-574/E24A, ASX-315, CNU-609/E, LAU-7D/A, LAU-127A/A, LAU-115A/A, A/E37T-35
Prerequisite	C-646-2011 Aviation Ordnanceman Common Core Class A1

Title.................	**Strike Armament Systems Intermediate Maintenance**
CIN..................	C-646-3118 (part of D/E-646-7001)
Model Manager	MTU 4033, NAMTRAU, NAS North Island
Description.......	This course provides training to Aviation Ordnance Technicians, including:

- Operational checkout procedures
- Corrosion control
- Troubleshooting procedures
- Periodic maintenance procedures
- Component removal, repair, replacement procedures
- Use of special tools and test equipment
- Use of publications
- Use of safety and administrative procedures applicable to aircraft armament equipment items

	Upon completion of this course, the student will be able to perform work on aircraft armament equipment in the Aircraft Intermediate Maintenance Department environment under limited supervision.
Locations	MTU 4032, NAMTRAU, NAS Norfolk
	MTU 4033, NAMTRAU, NAS North Island
Length..............	65 days
RFT date..........	Currently available - April 03 Estimated for LAU-7D/A impacts
Skill identifier...	AO 6802
TD/TTE...........	LAU-7D/A, LAU-127A/A, LAU-115A/A, A/E37T-35
Prerequisite	Graduate of AO "A" School or designated AO striker

Title.................	**Air Launched Weapons Ordnance Supervisor**
CIN.................	C-646-4108 (part of D/E-646-7007)
Model Manager	MTU 4032, NAMTRAU, NAS Norfolk
Description.......	This course provides training to the second tour Aviation Ordnancemen, including:

- Introduction to Weapons Department Administration,
- Introduction to Improved Rearming Rate System (IRRS), Magazines and Armament/Weapons Support Equipment,
- Air Launched Weapons Configurations and Equipment
- Introduction to Rockets, Cluster Bombs, Mines and Sound Underwater Signals
- Introduction to Pyrotechnics, Linkless Ammunition Loading System (LALS) and Missile

Upon completion of this course, officers and senior enlisted personnel will have sufficient knowledge of NAS, CV/CVN and Amphibious Aviation Ordnance administration and the IRRS, including all conventional munitions, associated equipment, magazines, handling procedures and related safety precautions to perform as supervisors on a NAS, CV/CVN or Amphibious Weapons Department.

Locations	MTU 4030, NAMTRAGRUDET, NS Mayport
	MTU 4032, NAMTRAU, NAS Norfolk
	MTU 4033, NAMTRAU, NAS North Island
	MTU 4035, NAMTRAU, NAS Whidbey Island
Length..............	17 days
RFT date	Currently available - April 03 Estimated for AIM-9X impacts
Skill identifier ...	AO 6801
TD/TTE	NA
Prerequisite	Graduate of AO (ClassA1) School or equivalent and E4-E7

Title..................	**Weapons Department General Aviation Ordnance**
CIN..................	C-646-4109 (stand-alone course)
Model Manager	MTU 4033, NAMTRAU NAS North Island
Description.......	This course provides training to the first tour Aviation Ordnancemen, Gunner's Mates and Torpedoman's Mates, including:

- Basic theory
- Safety precautions
- Technical publications
- Missile reporting procedures
- Introduction to Weapons Department, Ammunition Magazines, Shoring, Stowage and Handling Equipment
- Introduction to Air Launched Weapons

Upon completion of this course, the Aviation Ordnanceman assigned to Shipboard, Shoreboard, and Shore Combatant Weapons Departments as conventional weapons handlers, will have the sufficient knowledge and skills of procedures and safety requirements for receiving, transferring and storing conventional weapons, assembly and disassembly of bombs and rockets, loading and unloading flare and rocket launchers and the linkless anmmunition loading system, and the canning and decanning of miscellaneous ordnance, in accordance with applicable publications, while working under minimum supervision in a shipboard or shore environment.

Locations	MTU 4030, NAMTRAGRUDET, NS Mayport
	MTU 4032, NAMTRAU, NAS Norfolk
	MTU 4033, NAMTRAU, NAS North Island
	MTU 4035, NAMTRAU, NAS Whidbey Island
Length..............	10 days
RFT date..........	Currently available - April 03 Estimated for AIM-9X impacts
Skill identifier...	N/A
TD	DATM-9X, CNU-609/E
Prerequisite	AO, GMG, TM, or Graduate of AO (ClassA1) School or equivalent or designated striker

   (5) Explosive Ordnance Disposal Training. EOD training is conducted at the NAVSCOLEOD at Eglin Air Force Base, Florida. EOD Training and Evaluation Unit (EODTEU) One at San Diego California and EODTEU Two at Fort Story Virginia provide additional advanced and specialized EOD training.

(a) **Training Devices.** TDs required for EOD training are the Practical Explosive Ordnance Disposal System Trainer (PEST) and the Classroom Explosive System Trainer (CEST).

- **Practical Explosive Ordnance Disposal System Trainer.** The AIM-9X PEST is a full-scale model of the AIM-9X, containing inert versions of all explosive train components. The AIM-9X PEST possesses the same weight and center of gravity characteristics as the tactical missile. The AIM-9X PEST is used to teach and practice the AIM-9X RSP. It is used in the identification line, the outdoor practice area, and the outdoor test area. For further details on TDs see element IV.A.2.

- **Classroom Explosive Ordnance Disposal System Trainer.** The AIM-9X CEST is an inert, cut-away model of the AIM-9X, displaying locations and types of explosive and hazardous materials, initiators, igniters, and fuze. It is used during classroom instruction to facilitate familiarization of the AIM-9X missile and its associated RSP. For further details on TDs see element IV.A.2.

(b) **Courses.** AIM-9X will be taught in the following EOD training courses. The AIM-9X RSPs will be incorporated in these courses with minimal impact. The AIM-9X training material will not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III.

Table I-6. EOD Courses

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
A-431-0011	Explosive Ordnance Disposal (EOD) Phase II (Navy)	April 03
A-431-0012	Explosive Ordnance Disposal (EOD) Phase II	April 03
G-431-0001	EOD Pre-deployment Team Training	April 03

c. **Student Profiles.** The following table lists the enlisted manpower and personnel classifications required to support AIM-9X. In many instances, AO personnel who will support AIM-9X will not possess the component NEC because they attained their primary NEC prior to the recent A School and C School changes.

Table I-7. AIM-9X Student Profiles.

RATING and NEC or MOS	TITLE	TRAINING TRACK REF.
AO 8842	F/A-18 Armament System Organizational Apprentice Maintenance Technician	Figure I-2
AO 8342	F/A-18 System Organizational Maintenance Technician	Figure I-2
AT 8842	F/A-18 Armament System Organizational Apprentice Maintenance Technician	Figure I-3
AT 8342	F/A-18 System Organizational Maintenance Technician	Figure I-3
6531	Aircraft Ordnance Technician (F/A-18)	Figure I-4
6541	Aviation Ordnance Intermediate Maintenance Technician	Figure I-5
AO 6801	Air Launched Weapons Technician	Figure I-6
AO 6802	Strike Intermediate Armament Maintenanceman	Figure I-7

d.   Training Pipelines. New training tracks will not be required for AIM-9X. The training pipelines and tracks shown in Figures I-2 through I-7 correspond to the student profiles listed above. These pipelines and tracks are based on the training system that is in place today, and may not reflect actual progressions for personnel who completed formal training prior to the recent A School and C School changes. Shaded courses are affected by introduction of the AIM-9X. Introduction of the AIM-9X will not affect any organizational- or intermediate-level maintenance functions. Training tracks and associated courses are available in the OPNAV Aviation Training Management System (OATMS). The following training tracks apply and are listed in OATMS.

AO 0000	→	**AO 8842**	→	**AO 8342**
Aviation Ordnanceman Class A1		F/A-18 Systems Organizational Apprentice Maintenance Technician		F/A-18 Systems Organizational Maintenance Technician
USN Strand		TRACK D/E-646-0654		TRACK D/E-646-0641
C-646-2011 C-646-2012		C-600-3601 C-646-9973		C-600-3601 C-646-9974
		D/E-646-0640		
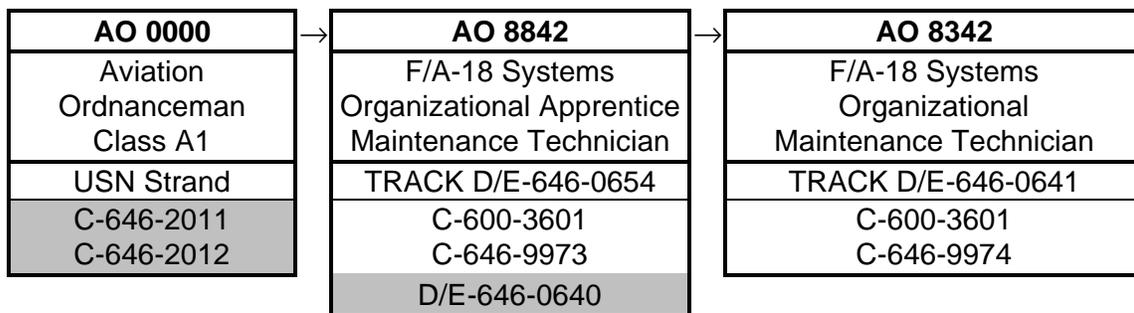
Figure I-2 F/A-18 Aviation Ordnanceman Systems Organizational Maintenance Career Progression

AT 0000		AT 8842		AT 8342
Aviation Electronics Tech. Class A1	→	F/A-18 Systems Organizational Apprentice Maintenance Technician	→	F/A-18 Systems Organizational Maintenance Technician
USN Strand		TRACK D/E-602-0652		TRACK D/E-646-0630
C-100-2018		C-600-3601		C-600-3601
		C-102-9964		C-102-9963
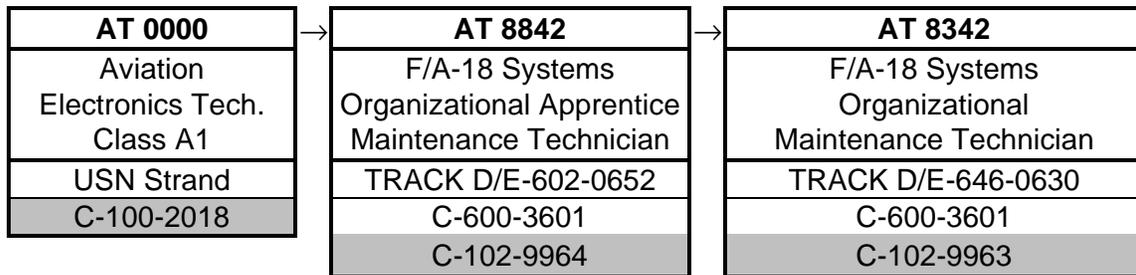
Figure I-3 F/A-18 Aviation Electronics Technician Systems Organizational Maintenance Career Progression

MOS 6511		MOS 6531
Aviation Ordnanceman Class A1	→	Aircraft Ordnance Technician (F/A-18)
Core Only		TRACK M-646-0653
C-646-2011		C-600-3601
		C-646-9973
		D/E-646-0640
		D/E-646-0647
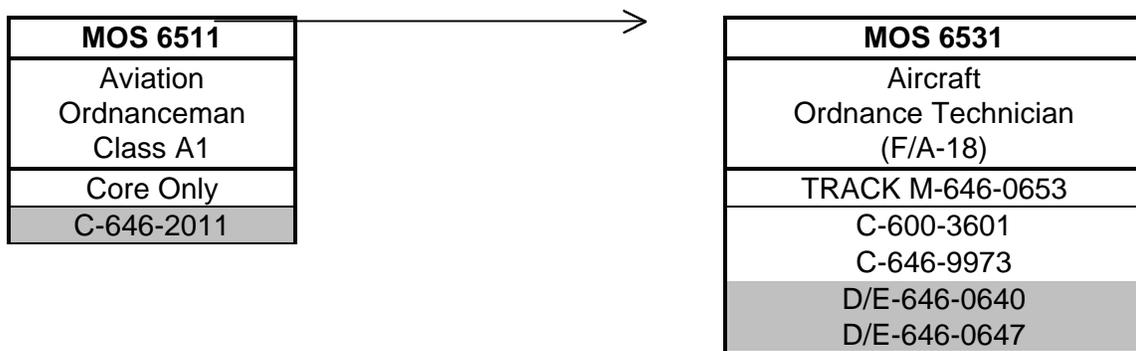
Figure I-4 F/A-18 Aircraft Ordnance Technician Career Progression

MOS 6511		MOS 6541
Aviation Ordnanceman Class A1	→	Aviation Ordnance Intermediate Maintenance Technician
Core Only		TRACK M-646-7026
C-646-2011		C-600-3601
		C-646-3105
		C-646-3890
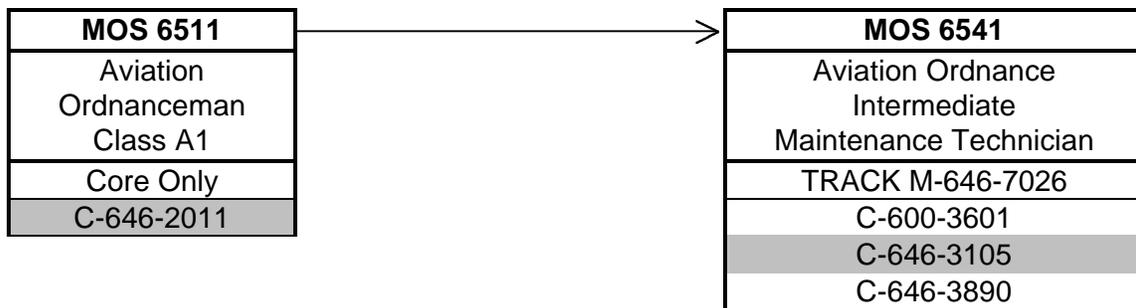
Figure I-5 Aviation Ordnance Intermediate Maintenance Technician Career Progression

AO 0000		AO 6801
Aviation Ordnanceman Class A1	→	Air Launched Weapons Technician (Intermediate)
USN Strand		TRACK D/E-646-7007
C-646-2011 C-646-2012		C-600-3601
		C-122-3111
		C-122-3113 C-646-4106
		C-646-4108

Figure I-6 Air Launched Weapons Technician Career Progression

AO 0000		AO 6802
Aviation Ordnanceman Class A1	→	Strike Intermediate Armament Maintenanceman
USN Strand		TRACK D/E-646-7001
C-646-2011 C-646-2012		C-600-3601
		C-646-3118

Figure I-7 Strike Intermediate Armament Maintenanceman Career Progression

I. ON-BOARD (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 used to establish an effective and efficient training system responsive to fleet training requirements. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at the organizational and intermediate levels of maintenance. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions managed through automated data processing. The Deputy Chief of Staff for Training assisted in development of MTIP by providing those question banks (software) already developed by the Navy. MTIP was implemented per OPNAVINST 4790.2 series. MTIP allows increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Refresher training is concentrated where needed to improve identified skill and knowledge shortfalls. The Aviation Maintenance Training Continuum System (AMTCS) will replace MTIP. AMTCS completed Beta version review/test of the E-2/C-2, F-14 and F/A-18 curricula.

COMNAVAIRPAC has discontinued using MTIP. They are currently using maintenance data products as a source to determine maintenance training deficiencies until AMTCS is implemented.

Question banks for AIM-9X will be developed from training material incorporated into the organizational and intermediate level follow-on training courses. Suggested questions will be provided with the initial training material packages, however, NAMTRAGRU and SFWS will ultimately control the final question bank content.

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. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training 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 (CBT) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module (ASM), which provides testing [Test and Evaluation (T&E)], recording [Electronic Training Jacket (ETJ)], 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 (MTL) data bank. These tools are procured and fielded with appropriate COTS hardware and software, i.e., Fleet Training Devices (FTD) - Laptops, PCs, Electronic Classrooms (ECR), Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), 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 (MATMEP) programs.

The Ammunition and Explosive Handling Qualification and Certification (QUAL/CERT) Program requires periodic, local QUAL/CERT events to be documented in a QUAL/CERT Record. These QUAL/CERT Records will be maintained physically at the local activity, but will be entered electronically into the ETJ for tracking purposes.

c. **Strike Fighter Training Program.** NSAWC, which includes Topgun (N7), SFWSL, SFWSP, and the Strike Weapons and Tactics School Atlantic (SWATSLANT), is developing post-FRS training at the squadron level for Navy Strike Fighter aircraft (F-14 and F/A-18). This post-FRS training continuum is known as the SFTP, and is composed of three equally critical elements: The SFWT curricula, the SFTI, and the SFTS. The SFWT curricula are taught by each squadron's SFTI, who is supported by the SFTS, a multimedia computer-based training system that hosts CMI, CAI, CBT and ICW. Aircrew weapons proficiency training continue to be accomplished using existing methods: Academic, Simulator (WTT/Weapon Systems Trainer (WST)), CATM and/or embedded aircraft simulation, and NCEA; but capability ratings will be performance-based rather than completion-based, i.e., it will not be based simply upon completing the training events, but upon how well they are completed. Training events will be measured using defined metrics, and collectively these events will be evaluated to determine actual combat readiness, quantitatively (objectively) rather than qualitatively (subjectively).

2. **Personnel Qualification Standards.** Not Applicable (NA).

3. **Other On-Board or In-service Training Packages.**

a. **Marine Aviation Training Management Evaluation Program**. Marine Corps on-board training is based on the current series of MCO P4790.12, Individual Training Standards System and Marine Aviation Training Management Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 (series), maintenance training requirements. It is a performance-based, standardized, level-progressive training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be addressed with remedial training. (AMTCS is planned to replace MATMEP.)

b. **Conventional Weapon Technical Proficiency Inspection**. The Conventional Weapon Technical Proficiency Inspection (CWTPI) is a graded inspection administered by Strike Fighter Wing (STRKFTRWING). It is governed by the policy and procedures established by each Type Commander (TYCOM). The inspection team is made up of SFWS instructors under the direction of the Wing Ordnance Officer. The CWTPI covers all areas of conventional weapon load and release, and control systems checks. The inspection evaluates the squadron's ability to wire-check, upload and download conventional ordnance correctly, use applicable publications, and place ordnance on its designated target. The squadron inspection is conducted annually, six months prior to deployment, or at the request of the squadron's Commanding Officer. All personnel, including squadron pilots, directly involved in the inspection, require a written examination. A 72-hour time limit is granted for the completion of the entire evolution. The final grade is an average score derived from the written exams, ordnance loads, wire checks, and the pilot's proficiency to deliver weapons on target. Pre-inspection training is provided by the appropriate SFWS followed by the CWTPI. The CWTPI determines the need for further

conventional weapons load training of squadron AO and AT personnel at the appropriate SFWS.

   c. Marine Corps Combat Readiness Evaluation. Marine Corps Headquarters schedules the USMC fighter and attack wings for a yearly Combat Readiness Evaluation. This is part of the Marine Corps Combat Readiness Evaluation System. An entire Marine Corps activity is moved to another location to participate in war exercises and to be evaluated. Training is an on-going Marine Corps evolution that culminates with the Combat Readiness Evaluation. The evaluation determines the need for further conventional weapons load training of squadron personnel.

   d. Marine Corps Weapons and Tactics Instruction. Marine Aviation Weapons and Tactics Squadron One (MAWTS-1) at MCAS Yuma provide a Program Of Instruction (POI) for Weapons and Tactics Instructors (WTIs). The POI is aircraft model/type dependent; there are POI for fixed wing, e.g., F/A-18, and rotary wing, e.g., AH-1, aircraft. The F/A-18 POI is similar to the Navy SFTI curricula provided by NSAWC (Topgun) at NAS Fallon.

   e. Explosive Handling Qualification and Certification Program. The Ammunition and Explosive Handling Qualification and Certification (QUAL/CERT) Program is implemented by OPNAVINST 8020.14 and Marine Corps Order (MCO) P8020.11. To minimize the probability of mishap, the potential for personnel errors are controlled through training (qualification) coupled with a management process designed to prevent inadequately trained personnel from performing ammunition and explosives jobs/tasks (certification). Aviation Ordnancemen are required to perform periodic, local QUAL/CERT events in order to be authorized to handle ordnance. Results of these QUAL/CERT events are documented in a hardcopy QUAL/CERT Record and kept on file by the local activity.

J. LOGISTICS SUPPORT

   1. Manufacturer and Contract Numbers. In December 1994, two contractors, Raytheon Missile Systems Division and HMSC, were awarded DEM/VAL contracts. Both contracts were completed by July 1996. The E&MD contract, N00019-97-C-0027, was awarded to HMSC in January 1997. HMSC later merged with and became RMS.

   2. Program Documentation.

   a.   Single Acquisition Management Plan. The AIM-9X Sidewinder Single Acquisition Management Plan (SAMP) was prepared by PMA259 prior to the Milestone II decision and approved 3 December 1996 in an effort to streamline program documentation. It contains all essential program information. The AIM-9X SAMP was updated for the LRIP milestone decision and approved in August 2000. Refer to item I.M for other related documents.

   b.   Acquisition Logistics Support Plan. The AIM-9X Sidewinder Acquisition

Logistics Support Plan (ALSP), document number MS-371, was prepared by AIR-3.1.1L and was approved 25 January 1999. The ALSP was updated for the LRIP milestone decision and approved in August 2000. Refer to item I.M for other related documents.

3. Technical Data Plan. Technical data associated with the AIM-9X Missile Program is in compliance with the Continuous Acquisition Life-cycle Support strategy. Most AIM-9X program data is available in digital format. RMS has setup their version of a Contractor Integrated Technical Information Service (CITIS), which is called the Program Document Management (PDM) system. PDM provides authorized AIM-9X personnel access to all unclassified contract data requirements, which includes training curricula and technical manuals.

4. Test Sets, Tools, and Test Equipment.

    a.   Organizational-level Maintenance.

        (1)   Tools. The AIM-9X is delivered to the flight line/deck as an AUR with its wings and fins installed. It does not require any new or peculiar tools for organizational-level maintenance. Common tools, such as speed wrenches, are required to complete missile/launcher loading and to install the buffer connector when applicable.

        (2)   Test Sets and Test Equipment. The AIM-9X requires release and control checks for its launchers and a post-loading BIT check via the cockpit controls and displays. Other tests for the AIM-9M, such as the AIM-9M Missile-On-Aircraft-Test (MOAT) using the TTU-304/E, are not be required because of the AIM-9X's digital characteristics.

        (a)   AN/AWM-100. The LAU-7D/A launcher requires a release and control check once it is installed on the F/A-18C/D aircraft. Organizational-level maintenance activities will use the modified AN/AWM-100, part number 74D750051-1007, to test LAU-7D/A and aircraft circuits prior to loading the AIM-9X missile. The AN/AWM-100, part number 74D750051-1003, is the current configuration of the AN/AWM-100, which will require modification to the 74D750051-1007 configuration. The necessary modification will be implemented as part of ECP 582 for the F/A-18C/D Digital Wingtip Modification. The modified AN/AWM-100 is planned to support AIM-9X IOC until the upcoming AN/AWM-103 is fielded. If the AN/AWM-103 is fielded in time to support AIM-9X IOC, this NTSP will be updated accordingly. Refer to item I.G.4.a for more information.

    b.   Intermediate-level Maintenance.

        (1)   Tools. The AIM-9X is delivered to the magazine in its AUR container, CNU-609/E, with its wings and fins installed. The AUR container can hold up to four AIM-9X missiles. The AIM-9X does not require any new or peculiar tools for intermediate-level maintenance. Common tools, such as torque wrenches, are required to remove/replace field-replaceable components when applicable.

   (2) **Test Sets and Test Equipment.**

     (a) **AN/GYQ-79 CMBRE and TTU-574/E24A AIM-9X TPS.** The AIM-9X requires the AN/GYQ-79 CMBRE together with the AIM-9X TPS to perform in-container and out-of-container BIT and missile software reprogramming. The AIM-9X TPS is commonly referred to as "Box 4" because it adds a fourth box to the three boxes that contain the components of the baseline CMBRE. The AIM-9X TPS contains two PC cards, a switch box and cables, including a cable for connecting the CMBRE to the CNU-609/E in-container cable, another for connecting CMBRE to either the forward or mid-body umbilical on the missile, and two self-test cables. Using the CNU-609/E in-container cable connection allows up to four missiles to be connected simultaneously to CMBRE for BIT and reprogramming, although only one missile can be tested/reprogrammed at a time. The two PC cards are placed in the Digital Computer Set during BIT and reprogramming procedures. One PC card contains the missile software and the program to load it into the missile. It is classified secret and thus makes the BIT and reprogramming procedures classified. The other PC card can store missile BIT data if the user chooses to download it from missile memory. The AIM-9X CMBRE TPS will be procured from RMS via the LRIP contract options. Refer to item I.G.4.c for more information.

     (b) **A/E37T-35 CRALTS.** Intermediate-level maintenance for the launchers will be performed with the existing A/E37T-35 CRALTS, which requires modification to include LAU-7D/A test capability. CRALTS is used to test the LAU-7A/A launcher and will require modification to test the LAU-7D/A launcher. The necessary modification will be implemented as part of a larger ECP for the F/A-18C/D Digital Wingtip Modification. Refer to item I.G.4.b for more information.

   c. **Depot-level Maintenance.** RMS will be responsible for depot-level maintenance and associated tools, test sets, and equipment.

  5. Repair Parts. Repair parts for the CATM-9X and DATM-9X (as well as the AIM-9X and CNU-609/E) were addressed during the AIM-9X provisioning process. Provisioning of consumable repair parts will be procured through the Naval Inventory Control Point. The MSD is projected to be FY03. Prior to MSD, RMS will provide all consumable repair parts. Parts under consideration for the training missile configurations and the AIM-9X TPS include:

AUR/CATM/DATM

Part Number	Nomenclature
2212614-2	Mid-Body Buffer
2212612-1	Cover, Mid body
2212671-1	Cable, Umbilical
2212649-1	Wing, Fwd Assembly
2212653-1	Screw, Wing
2215365-1	Fairing, Fwd Hangar
2212601-4	Harness Cover, Fwd
2212618-2	Standoff Harness Cover
22126452-1	Fin, Assembly
NAS1352-08LB8P	Screw, Fin
2213080-3	Safe-Arm Handle
2212606-3	Harness Cover, Aft
2215441-1	Cover, Dome
2215442-1	Cover, TD
2215311-1	Umbilical Cap, Protective
60464B20036	Label, Safe-Arm
2215700	Decal, Fwd Harness

TTU-574/E24A – TPS	Nomenclature
3000843	Cable, W-9 (missile)
3000844	Cable, W-10, Self-Test W9 Fwd
3000845	Cable, W-11, Self-Test W9 Mid-body
3000846	Cable, W-12 (container)
3000847	Cable, W-13, Self-Test W12
3000855	Switch Box

6. **Human Systems Integration.** The original Human Systems Integration Plan (HSIP) for the AIM-9X was approved in July 1994, and revised throughout DEM/VAL. Following DEM/VAL, but prior to the Milestone II decision, the HSIP was incorporated into the SAMP, which was approved 3 December 1996, then later revised and approved 3 March 1997, and again August 2000. The only unique human systems integration challenge facing the AIM-9X is integration with the JHMCS. The JHMCS will require more pilot interaction in the search and acquisition of targets. However, this additional task is well within the current Navy, Marine Corps, and Air Force operator capability. The Joint Interface Control Working Group is addressing this issue. Lessons learned in DT&E and OT&E will evolve this facet of aircrew training. Missile status tones used in AIM-9X will very closely approximate those used for AIM-9M to provide seamless transition for the aircrew; however, some tone modifications are necessary because AIM-9X is capable of employment where AIM-9M and prior Sidewinder missiles were not. For example, in certain aircraft/missile employment regimes, the AIM-9X "synthetic" tones duplicate or are very similar to previous AIM-9M tones, but do not represent the same tactics/threat situation. In these situations tone modifications are necessary.

K. SCHEDULES

1. Schedule of Events

      a.   Installation and Delivery Schedules. AIM-9X production and related ECP schedules will be incorporated into updates of this NTSP as they become available, and based upon their security classification. The Defense Acquisition Board (DAB) gave approval to the AIM-9X LRIP Lot 1 decision in September 2000.

      (1)   AIM-9X. LRIP deliveries are scheduled for 21, 24, 27 and 30 months after each LRIP option (Lot 1, Lot 2, and Lot 3) is exercised. The LRIP Lot 1 option was approved in September 2000 and was awarded (to RMS) in November 2000. Initial AIM-9X deliveries on LRIP Lot 1 are expected to begin in April 2002, based on a proposed accelerated delivery schedule.

      (2)   Digital Wingtip Modification. The expected approval date for the F/A-18C/D Digital Wingtip Modification, ECP 582, is October 2001. Another ECP includes the related changes to the AN/AWM-100. Contracts for modification kits will be awarded to Boeing and are expected to begin delivery/installation in April 2002.

      (3)   LAU-7D/A. The expected approval date for the LAU-7D/A ECP is August 2001. Another ECP includes the related changes to the A/E37T-35 CRALTS. Modification kits for the LAU-7D/A and A/E37T-35 CRALTS will be procured/developed and are expected to begin delivery/installation in April 2002. The AO "A1" School and MTUs 4032, 4033 and 4034 are expected to receive their LAU-7D/A by June 2002.

      (4)   TTU-574/E24A. LRIP deliveries are scheduled for 21, 22, 23, 24 and 25 months after each LRIP option (Lot 1, Lot 2, and Lot 3) is exercised. The LRIP Lot 1 option was approved in September 2000 and was awarded (to RMS) in November 2000. Initial TTU-574/E24A deliveries on LRIP Lot 1 are expected to begin in August 2002. MTUs 4030, 4032, 4033, 4034 and 4035 are expected to receive their TTU-574/E24A by November 2002.

      (5)   CNU-609/E. LRIP deliveries of AIM-9X, CATM-9X and DATM-9X will be made using the AUR container, CNU-609/E. MTUs 4030, 4032, 4033, 4034 and 4035 are expected to receive their CNU-609/E with the delivery of their DATM-9X assets, or approximately November 2002.

      b.   Ready For Operational Use Schedule. The AIM-9X will be Ready For Operational Use (RFOU) by the operational activity upon receipt of AUR missiles. Initially, activities will receive AIM-9X upon deployment aboard aircraft carriers (CV/CVN) that have AIM-9X loadouts. Thus, the RFOU schedule is dependent upon the AIM-9X LRIP schedule and CV/CVN deployment schedules for FY02 and beyond. As the AIM-9X inventory grows, other

activities will receive AIM-9X. See Element II.A.1.a of this NTSP for the notional operational and fleet support activity activation schedule.

      c.   **Time Required to Install at Operational Sites.** Because the AIM-9X is delivered and received as an AUR missile, there is no time requirement to install AIM-9X.

      d.   **Foreign Military Sales and Other Source Delivery Schedule.** NA.

      e.   **Training Device and Delivery Schedule**. CATM, DATM, CEST, and PEST delivery schedules have not been finalized at this time and are based on existing contract information. The DAB approved the AIM-9X LRIP Lot 1 decision in September 2000. All DATM, CEST, and PEST deliveries will be made during LRIP lots. Element IV.A.2 of this NTSP lists the USN and USMC TD requirements by activity. The quantities for the first three LRIP lots are shown below.

TRAINING DEVICE	LRIP Lot 1	LRIP Lot 2	LRIP Lot 3
CATM-9X	15	45	56
DATM-9X	10	12	6
CEST-9X	1	0	0
PEST-9X	6	0	0

      (1)   **CATM-9X.** CATM-9X deliveries will be made during LRIP lots and Full-rate Production lots. LRIP CATM deliveries are scheduled for 21, 24, 27 and 30 months after each LRIP option is exercised. Initial CATM-9X deliveries on LRIP lot 1 are expected to begin in April 2002 at approximately two per month, based on a proposed accelerated delivery schedule. The CATM-9X requirements listed in part IV.A.2 represent Navy and Marine Corps F/A-18 requirements only. Other aircraft platforms that may be integrated with AIM-9X during Follow-on Test and Evaluation would require additional CATM-9X assets to support proficiency training conducted by the associated operational squadrons. The 920 CATM-9Xs represent an 86% asset readiness objective, for a total of 1070 CATM-9X for the F/A-18 community. Refer to part IV.A.2 for a detailed list of CATM-9X requirements by squadron.

      (2)   **DATM-9X.** DATM-9X deliveries are scheduled for 24 months after exercise of the LRIP Lot 1 option, or November 2002. The first ten DATM-9X will be sent two per CNU-609/E to each of the five MTUs where Intermediate-level Air Launched Weapons training is provided. Additional DATM-9X deliveries are scheduled for 28 months after the LRIP Lot 2 option is exercised and 26 months after the LRIP Lot 3 option is exercised. These DATM-9X will be sent to sites to support Inter-Deployment training Cycles (IDTCs), as well as to Reserve squadrons to support QUAL/CERT requirements. Refer to part IV.A.2 for a detailed list of DATM-9X requirements by activity.

(3)   **CEST-9X and PEST-9X.**   LRIP CEST and PEST deliveries are scheduled for 21 months after exercise of the LRIP Lot 1 option, or August 2002. Refer to part IV.A.2 for a detailed list of CEST-9X and PEST-9X requirements by activity.

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

M.   RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT TITLE	DOCUMENT NUMBER	PDA CODE	STATUS
F/A-18 Aircraft NTP	A-50-7703H/D	PMA265	Draft 3/00
AIM-9X Single Acquisition Management Plan for the AIM-9X	No Number Assigned	PMA259	Approved 8/00
Test and Evaluation Master Plan (TEMP) for AIM-9X Sidewinder Missile	1412 Revision C	PMA259	Approved 8/00
Advanced Sidewinder Missile AIM-9X Cost Analysis Requirements Document (CARD)	No Number Assigned	PMA259	Approved 7/00
Navy and Air Force ALSP for Sidewinder AIM-9X	MS-371	AIR-3.1.1L	Approved 8/00
AIM-9M-8 NTSP	N78-NTSP-A-50-8105C/D	PMA205	Draft 6/01
Navy and Air Force ILSP for Sidewinder AIM-9M	ILSP MS-059	AIR-3.1.1L	Approved 12/93

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the AIM-9X 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.B.   Personnel Requirements

   II.B.3.   Foreign, Other Service, and Non-Military Personnel Annual Training Input Requirement

NOTE 1:   This section of the AIM-9X NTSP reflects intermediate-level maintenance billet and personnel requirements for the AIM-9X. It is a compilation of two Navy NECs, AO 6801 and AO 6802, and one Marine Corps MOS, 6541. AIM-9X operator billets are programmed through the applicable aircraft NTSP, e.g., F/A-18C/D NTSP, as are the AIM-9X organizational-level billets. The addition of the AIM-9X to the intermediate-level workload is only a small percentage of the required workload for those NECs and MOS. The NECs and MOS are not dedicated to the AIM-9X and, therefore, the overall training throughput for the NEC and MOS will remain the same, i.e., it accounts for the total NEC/MOS community, and not just activities receiving AIM-9X.

NOTE 2:   All billets identified in this section are programmed through other NTSPs, e.g., F/A-18 NTSP, applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Documents. The activities and associated billets are listed to assist the weapons training community in identifying and managing training requirements throughout the development, production, and deployment of the AIM-9X.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

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

SOURCE: NAVAIRSYSCOM PMA259/PMA205   DATE: 05/2001

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL	NAVY						
NAVWPNTESTRON CL	39787	1	0	0	0	0	0
NAVWPNTESTRON PM	39788	1	0	0	0	0	0
NAVSTKAIRTESTRON	39783	1	0	0	0	0	0
VX-9	55646	1	0	0	0	0	0
NSAWC N7	69190	0	0	1	0	0	0
SFWSL	47084	0	0	1	0	0	0
SFWSP	35185	0	0	1	0	0	0
VFA-106	09679	0	0	1	0	0	0
VFA-125	09485	0	0	1	0	0	0
VFA-15	09015	0	0	0	1	0	0
VFA-34	09070	0	0	0	1	0	0
VFA-37	09478	0	0	0	1	0	0
VFA-81	09221	0	0	0	1	0	0
VFA-83	09223	0	0	0	1	0	0
VFA-87	63922	0	0	0	1	0	0
VFA-105	65183	0	0	0	1	0	0
VFA-131	63934	0	0	0	1	0	0
VFA-136	55141	0	0	0	1	0	0
VFA-82	09122	0	0	0	1	0	0
VFA-86	09943	0	0	0	1	0	0
VFA-127	08956	0	0	0	1	0	0
VFA-22	09561	0	0	0	1	0	0
VFA-25	09637	0	0	0	1	0	0
VFA-94	09295	0	0	0	1	0	0
VFA-97	63923	0	0	0	1	0	0
VFA-113	09092	0	0	0	1	0	0
VFA-115	09604	0	0	0	1	0	0
VFA-137	55142	0	0	0	1	0	0
VFA-146	09063	0	0	0	1	0	0
VFA-147	63925	0	0	0	1	0	0
VFA-151	09558	0	0	0	1	0	0
VFA-27	65185	0	0	0	1	0	0
VFA-192	55179	0	0	0	1	0	0
VFA-195	09706	0	0	0	1	0	0
VFA-201	09309	0	0	0	0	0	1
VFA-203	09030	0	0	0	0	0	1
VFA-204	09032	0	0	0	0	0	1
VFC-12	52994	0	0	0	0	0	1
VFC-13	52995	0	0	0	0	0	1

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

SOURCE: NAVAIRSYSCOM PMA259/PMA205   **DATE:** 05/2001

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
TOTAL:		4	0	5	25	0	5
OPERATIONAL	**USMC**						
MAWTS-1	55167	0	0	1	0	0	0
VMFAT-101	09965	0	0	1	0	0	0
VMFA-115	09234	0	0	0	1	0	0
VMFA-122	09407	0	0	0	1	0	0
VMFA-251	09241	0	0	0	1	0	0
VMFA-312	09253	0	0	0	1	0	0
VMFA (AW)-224	01224	0	0	0	1	0	0
VMFA (AW)-332	09501	0	0	0	1	0	0
VMFA (AW)-533	09193	0	0	0	1	0	0
VMFA-212	09434	0	0	0	1	0	0
VMFA-232	09242	0	0	0	1	0	0
VMFA-314	09230	0	0	0	1	0	0
VMFA-323	09235	0	0	0	1	0	0
VMFA (AW)-121	09257	0	0	0	1	0	0
VMFA (AW)-225	09232	0	0	0	1	0	0
VMFA (AW)-242	09668	0	0	0	1	0	0
VMFA-112	08954	0	0	0	1	0	0
VMFA-134	09365	0	0	0	1	0	0
VMFA-142	67243	0	0	0	1	0	0
VMFA-321	67235	0	0	0	1	0	0
MALS Augment Beaufort	67863	0	0	0	1	0	0
MALS Augment Miramar	09116	0	0	0	1	0	0
TOTAL:		0	0	2	20	0	0
FLEET SUPPORT	**NAVY**						
NAWS Point Mugu	0429A	1	0	0	0	0	0
NAWS China Lake	68937	1	0	0	0	0	0
NAF Atsugi	62507	0	0	0	1	0	0
NAS Fallon	60495	0	0	0	1	0	0
NAS Lemoore	63042	0	0	0	1	0	0
NAS Oceana	60191	0	0	0	1	0	0
NS Roosevelt Roads	00389	0	0	0	1	0	0
COMNAVAIRLANT	57012	0	0	0	1	0	0
CV-63 USS Kitty Hawk	03363	0	0	0	1	0	0
CV-64 USS Constellation	03364	0	0	0	1	0	0
CV-67 USS Kennedy	03367	0	0	0	1	0	0
CVN-65 USS Enterprise	03365	0	0	0	1	0	0
CVN-68 USS Nimitz	03368	0	0	0	1	0	0
CVN-69 USS Eisenhower	03369	0	0	0	1	0	0
CVN-70 USS Vinson	20993	0	0	0	1	0	0
CVN-71 USS Roosevelt	21247	0	0	0	1	0	0

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

SOURCE: NAVAIRSYSCOM PMA259/PMA205   **DATE:** 05/2001

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
CVN-72 USS Lincoln	21297	0	0	0	1	0	0
CVN-73 USS Washington	21412	0	0	0	1	0	0
CVN-74 USS Stennis	21847	0	0	0	1	0	0
CVN-75 USS Truman	21853	0	0	0	1	0	0
CVN-76 USS Reagan	TBD	0	0	0	0	1	0
NAWMU-1	52821	0	0	0	1	0	0
NAWCAD Patuxent River	00421	0	0	0	1	0	0
NAWCWD Point Mugu	63126	0	0	0	1	0	0
TOTAL:		2	0	0	21	1	0
FLEET SUPPORT	USMC						
MAD China Lake	67852	0	0	0	0	1	0
MAD Patuxent River	67356	0	0	0	0	1	0
MALS-11 Miramar	09111	0	0	0	1	0	0
MALS-12 Iwakuni	09377	0	0	0	1	0	0
MALS-13 Yuma	09041	0	0	0	0	1	0
MALS-31 Beaufort	09384	0	0	0	1	0	0
MAG-41 Det B Fort Worth	67241	0	0	0	0	0	1
MAG-42 Marietta	67236	0	0	0	0	0	1
MAG-46 Miramar	67244	0	0	0	0	0	1
MASD Andrews	04801	0	0	0	0	0	1
TOTAL:		0	0	0	3	3	4

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
OPERATIONAL	NAVY					
VFA-106	09679					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VFA-125	09485					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VAQ-129	09995					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VFA-203	09030					
TAR			0	1	AO	6802
SELRES			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
VFA-204	09032					
TAR			0	1	AO	6802
SELRES			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
VFC-12	52994					
TAR			0	1	AO	6802
SELRES			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
VFA-201	09309					
SELRES			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
OPERATIONAL	USMC					
VMFA-115	09234					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-122	09407					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-251	09241					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		

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[1]All billet requirements shown are programmed in the F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document, and are shown for planning of initial training requirements. Most initial training requirements for AIM-9X are phased in FY03 to coincide with Fleet introduction, but will be updated as carrier deployment schedules become available. These activities are highlighted in yellow to distinguish them from the billet community.

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMFA-312	09253					
USMC				3		6541
AR			0	7		6541
ACTIVITY TOTAL:			0	10		
VMFA (AW)-224	01224					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-332	09501					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-533	09193					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA-212	09434					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-232	09242					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-235	09237					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-314	09230					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-323	09235					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA (AW)-121	09257					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-225	09232					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-242	09668					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA-112	08954					
USMC			0	3		6541
AR			0	7		6541
ACTIVITY TOTAL:			0	10		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMFA-134	09365					
USMC			0	7		6541
AR			0	3		6541
ACTIVITY TOTAL:			0	10		
VMFA-142	67243					
USMC			0	3		6541
AR			0	7		6541
ACTIVITY TOTAL:			0	10		
MALS Aug Beaufort	67863					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
MALS Aug Miramar	09116					
USMC			0	4		6541
ACTIVITY TOTAL:			0	4		
MAWTS-1	55167					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
VMFAT-101	09965					
USMC			0	9		6541
SELRES			0	2	AO	6802
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	13		
HMH-461	09582					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-464	53935					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-772	09490					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMLA-167	09898					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-269	08998					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-773	09431					
USMC			0	4		6541
AR			0	8		6541
ACTIVITY TOTAL:			0	12		

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

ACTIVITY		UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
HLMA-775		55252					
	USMC			0	4		
	AR			0	8		6541
ACTIVITY TOTAL:				0	12		
HLMA-775 DET A		09415					
	USMC			0	2		
	AR			0	4		6541
ACTIVITY TOTAL:				0	6		
HMM-162		09492					
	USMC			0	2		6541
ACTIVITY TOTAL:				0	2		
HMM-261		09441					
	USMC			0	2		6541
ACTIVITY TOTAL:				0	2		
HMM-263		09445					
	USMC			0	2		6541
ACTIVITY TOTAL:				0	2		
HMM-264		09374					
	USMC			0	2		6541
ACTIVITY TOTAL:				0	2		
HMM-266		53972					
	USMC			0	2		6541
ACTIVITY TOTAL:				0	2		
HMM-365		53923					
	USMC			0	2		6541
ACTIVITY TOTAL:				0	2		
HMM-774		09430					
	USMC			0	2		6541
ACTIVITY TOTAL:				0	2		
HMT-303		55176					
	USMC			0	6		6541
ACTIVITY TOTAL:				0	6		
VMA-223		09438					
	USMC			0	12		6541
ACTIVITY TOTAL:				0	12		
VMA-231		52948					
	USMC			0	12		6541
ACTIVITY TOTAL:				0	12		
VMA-542		52847					
	USMC			0	12		6541
ACTIVITY TOTAL:				0	12		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMAQ-1	41345					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VMAQ-2	42362					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VMAQ-3	42362					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VMAQ-4	67837					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VMAT-203	45483					
USMC			0	5		6541
ACTIVITY TOTAL:			0	5		
HMH-361	09446					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-362	09495					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-363	09496					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-366	55650					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-462	09349					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-463	09010					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-465	53936					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-466	53998					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-769	09487					
AR			0	1		6541
ACTIVITY TOTAL:			0	1		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
HMLA-169	09202					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-267	09159					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-367	09079					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-369	09361					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMM-161	09440					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-163	09405					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-164	09408					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-165	09343					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-166	53973					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-262	09442					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-265	09404					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-268	52790					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-364	09793					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-764	09402					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMA-211	09412					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-214	09436					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-311	09416					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-513	09231					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMFA-124	52998					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
FLEET SUPPORT	NAVY					
COMNAVAIRLANT	57012					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
CV-63 USS Kitty Hawk	03363					
ACDU			0	11	AO	6801
ACDU			0	15	AO	6802
ACTIVITY TOTAL:			0	26		
CV-64 USS Constellation	03364					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CV-67 USS Kennedy	03367					
ACDU			0	11	AO	6801
TAR			0	1	AO	6801
ACDU			0	7	AO	6802
TAR			0	1	AO	6802
SELRES			0	2	AO	6802
ACTIVITY TOTAL:			0	22		
CVN-65 USS Enterprise	03365					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
CVN-68 USS Nimitz	03368					
ACDU			0	11	AO	6801
ACDU			0	7	AO	6802
ACTIVITY TOTAL:			0	18		
CVN-69 USS Eisenhower	03369					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-70 USS Vinson	20993					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-71 USS Roosevelt	21247					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-72 USS Lincoln	21297					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-73 USS Washington	21412					
ACDU			0	11	AO	6801
ACDU			0	7	AO	6802
ACTIVITY TOTAL:			0	18		
CVN-74 USS Stennis	21847					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-75 USS Truman	21853					
ACDU			0	10	AO	6801
ACDU			0	7	AO	6802
ACTIVITY TOTAL:			0	17		
CVN-76 USS Reagan	TBD					
ACDU		FY04	0	10	AO	6801
ACDU		FY04	0	7	AO	6802
ACTIVITY TOTAL:			0	17		
AFLOATRAGRU Norfolk CSTG	49085					
ACDU			0	2	AO	6801
ACTIVITY TOTAL:			0	2		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
COMSTKFITWINGLANT Det Beaufort	3006A					
ACDU			0	16	AO	6801
ACTIVITY TOTAL:			0	16		
FASOTRAGRULANT	09810					
ACDU			0	2	AO	6801/ 9502
ACTIVITY TOTAL:			0	2		
LHA-2 USS Saipan	20632					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHA-4 USS Nassau	20725					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHD-1 USS Wasp	21560					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-3 USS Kearsarge	21700					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-5 USS Bataan	21879					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
MCS-12 USS Inchon	20009					
ACDU			0	1	AO	6801
TAR			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
NAF Mildenhall	57032					
SELRES			0	1	AO	6801
ACTIVITY TOTAL:			0	1		
NAS Brunswick	60087					
ACDU			0	8	AO	6801
ACDU			0	1	AO	6810/ 6801
ACTIVITY TOTAL:			0	9		
NAS Cecil Field	60200					
ACDU			0	23	AO	6801
ACTIVITY TOTAL:			0	23		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
NAS Keflavik	63032					
ACDU			0	3	AO	6801
ACDU			0	1	AO	6810/ 6801
ACDU			0	1	AO	0812/ 6801
ACTIVITY TOTAL:			0	5		
NAS Oceana	60191					
ACDU			0	3	AO	6801
ACTIVITY TOTAL:			0	3		
NATMSACT Kingsville	49149					
ACDU			0	1	AO	6801
ACTIVITY TOTAL:			0	1		
NAWMU-1	52821					
ACDU			0	23	AO	6801
ACDU			0	5	AO	6802
ACTIVITY TOTAL:			0	28		
NAVSTKAIRTESTRON	39783					
ACDU			0	12	AO	6801
ACDU			0	2	AO	6801/ 8845
ACDU			0	1	AO	6801/ 9590
ACTIVITY TOTAL:			0	15		
Ordnance DET Oceana	31279					
ACDU			0	33	AO	6801
ACTIVITY TOTAL:			0	33		
SURFLANTAVORD/MTT Norfolk	48764					
ACDU			0	5	AO	6801
ACTIVITY TOTAL:			0	5		
AIRMAINTTRSGRPDET Whidbey Island	66058					
ACDU			0	5	AO	6801/ 9502
ACTIVITY TOTAL:			0	5		
COMFLTACT Okinawa	62254					
ACDU			0	2	AO	6801
ACTIVITY TOTAL:			0	2		
LHA-1 USS Tarawa	20550					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHA-3 USS Belleau Wood	20633					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
LHA-5 Peleliu	20748					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHD-2 USS Essex	21533					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-4 USS Boxer	21808					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-6 USS Bonhomme Richard	22202					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-7 USS Iwo Jima	23027					
ACDU			0	2	AO	6801
ACTIVITY TOTAL:			0	2		
NAF El Centro	60042					
ACDU			0	7	AO	6801
ACTIVITY TOTAL:			0	7		
NAS Lemoore	63042					
ACDU			0	3	AO	6801
ACTIVITY TOTAL:			0	3		
NAS Point Mugu	0429A					
ACDU			0	18	AO	6801
ACDU			0	1	AO	8345/6801
ACTIVITY TOTAL:			0	19		
NAWCWD Point Mugu	63126					
ACDU			0	1	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
AIMD Atsugi	44323					
ACDU			0	4	AO	6802
ACTIVITY TOTAL:			0	4		
AIMD Cecil Field	60200					
ACDU			0	15	AO	6802
SELRES			0	2	AO	6802
ACTIVITY TOTAL:			0	17		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
AIMD Fallon	44317					
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	8		
AIMD Key West	44320					
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
AIMD Lemoore	44321					
ACDU			0	23	AO	6802
ACTIVITY TOTAL:			0	23		
AIMD North Island	44326					
ACDU			0	9	AO	6802
ACTIVITY TOTAL:			0	9		
AIMD Oceana	44327					
ACDU			0	73	AO	6802
ACTIVITY TOTAL:			0	73		
AIMD Roosevelt Roads	44373					
ACDU			0	5	AO	6802
ACTIVITY TOTAL:			0	5		
AIMD Sigonella	44330					
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
AIMD Whidbey Island	44329					
ACDU			0	20	AO	6802
ACTIVITY TOTAL:			0	20		
RAIMD Atlanta	44486					
TAR			0	6	AO	6802
ACTIVITY TOTAL:			0	6		
RAIMD Fort Worth	44487					
TAR			0	3	AO	6802
ACTIVITY TOTAL:			0	3		
RAIMD New Orleans	44490					
TAR			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
RAIMD Willow Grove	44493					
TAR			0	3	AO	6802
ACTIVITY TOTAL:			0	3		
SEAOPDET Cecil Field	46961					
ACDU			0	15	AO	6802
ACTIVITY TOTAL:			0	15		
SEAOPDET Lemoore	46964					
ACDU			0	11	AO	6802
ACTIVITY TOTAL:			0	11		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
SEAOPDET North Island	46968					
ACDU			0	4	AO	6802
ACTIVITY TOTAL:			0	4		
SEAOPDET Oceana	46963					
ACDU			0	15	AO	6802
ACTIVITY TOTAL:			0	15		
NAS North Island	00246					
ACDU			0	3	AO	6802
ACTIVITY TOTAL:			0	3		
NAS Whidbey Island, VAN OPDET	31179					
ACDU			0	10	AO	6802
ACTIVITY TOTAL:			0	10		
NAVAIRESFOR Norfolk	63102					
TAR			0	1	AO	6802
ACTIVITY TOTAL:			0	1		
Naval Weapons Test Squadron, Point Mugu	39788					
ACDU			0	5	AO	6802
ACTIVITY TOTAL:			0	5		
Naval Weapons Test Squadron, China Lake	39787					
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	1		
NAWCWD China Lake	60530					
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	1		
Naval Test Wing Atlantic	39782					
ACDU			0	1	AO	6802
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	9		
FLEET SUPPORT	**USMC**					
MAD China Lake	67852					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
MALS-11 Miramar	09233					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		
MALS-12 Iwakuni	09377					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MALS-13 Yuma	09041					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		
MALS-31 Beaufort	09384					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		
MALS-42 Marietta	09513					
USMC			0	2		6541
AR			0	10		6541
ACTIVITY TOTAL:			0	12		
MALS-41 Fort Worth	67239					
USMC			0	5		6541
AR			0	39		6541
ACTIVITY TOTAL:			0	44		
MALS-46 Miramar	67244					
USMC			0	2		6541
AR			0	42		6541
ACTIVITY TOTAL:			0	44		
MASD Andrews	04801					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
2nd MAW Cherry Point	00201					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
4th MAW New Orleans	00400					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
Blount Island	38450					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
H&HS Beaufort	02031					
USMC			0	5		6541
ACTIVITY TOTAL:			0	5		
H&HS Cherry Point	02002					
USMC			0	17		6541
ACTIVITY TOTAL:			0	17		
H&HS New River	02021					
USMC			0	5		6541
ACTIVITY TOTAL:			0	5		
MALS-14 Cherry Point	09378					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MALS-26 New River	09167					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-29 New River	52841					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-49 Stewart New York	55555					
USMC			0	4		6541
AR			0	8		6541
ACTIVITY TOTAL:			0	12		
1st MAW Futenma	00101					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
3rd MAW Miramar	00300					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
H&HS Camp Pendleton	02208					
USMC			0	9		6541
ACTIVITY TOTAL:			0	9		
H&HS Miramar	02201					
USMC			0	8		6541
ACTIVITY TOTAL:			0	8		
H&HS Futenma	02601					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
H&HS Iwakuni	02501					
USMC			0	7		6541
ACTIVITY TOTAL:			0	7		
H&HS Yuma	02230					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
MALS-16 Tustin	09243					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-36 Futenma	09260					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-39 Camp Pendleton	09808					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MALSE Kaneohe	02300					
USMC			0	4		6541
ACTIVITY TOTAL:			0	4		
MCAF Kaneohe	02303					
USMC			0	7		6541
ACTIVITY TOTAL:			0	7		

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[2]

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	ENL	CFY01 OFF	ENL	FY02 OFF	ENL	FY03 OFF	ENL	FY04 OFF	ENL	FY05 OFF	ENL
OPERATIONAL ACTIVITY – ACDU													
AO	6802	0	2	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – TAR													
AO	6802	0	3	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – SELRES													
AO	6802	0	7	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – USMC													
	6541	0	492	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – AR													
	6541	0	45	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – ACDU													
	0812/6801	0	1	0	0	0	0	0	0	0	0	0	0
	6801	0	318	0	0	0	0	0	0	0	10	0	0
	6801/8845	0	2	0	0	0	0	0	0	0	0	0	0
	6801/9502	0	7	0	0	0	0	0	0	0	0	0	0
	6801/9590	0	1	0	0	0	0	0	0	0	0	0	0
	6802	0	358	0	0	0	0	0	0	0	7	0	0
	6810/6801	0	2	0	0	0	0	0	0	0	0	0	0
	8345/6801	0	1	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – TAR													
AO	6801	0	1	0	0	0	0	0	0	0	0	0	0
AO	6802	0	17	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
AO	6802	0	4	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – USMC													
	6541	0	383	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – AR													
	6541	0	99	0	0	0	0	0	0	0	0	0	0

SUMMARY TOTAL:

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	ENL	CFY01 OFF	ENL	FY02 OFF	ENL	FY03 OFF	ENL	FY04 OFF	ENL	FY05 OFF	ENL
OPERATIONAL ACTIVITY – ACDU													
		0	2	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – TAR													
		0	3	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – SELRES													
		0	7	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – USMC													

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[2] All billet requirements shown are programmed in the F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document, and are shown for planning of initial training requirements. Most initial training requirements for AIM-9X are phased in FY03 to coincide with Fleet introduction, but will be updated as carrier deployment schedules become available.

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[2]

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	ENL	CFY01 OFF	ENL	FY02 OFF	ENL	FY03 OFF	ENL	FY04 OFF	ENL	FY05 OFF	ENL
		0	492	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – AR													
		0	45	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – ACDU													
		0	690	0	0	0	0	0	0	0	17	0	0
FLEET SUPPORT ACTIVITY – TAR													
		0	18	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – SELRES													
		0	4	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – USMC													
		0	383	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – AR													
		0	99	0	0	0	0	0	0	0	0	0	0

GRAND TOTAL:

		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
	ACDU	0	692	0	0	0	0	0	0	0	17	0	0
	TAR	0	21	0	0	0	0	0	0	0	0	0	0
	SELRES	0	11	0	0	0	0	0	0	0	0	0	0
	USMC	0	875	0	0	0	0	0	0	0	0	0	0
	AR	0	144	0	0	0	0	0	0	0	0	0	0

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

INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC: MTU-4030 NAMTRAGRUDET   NS Mayport   66069

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4
SELRES													
AO	6801/9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	5	0	5	0	5	0	5	0	5	0	5

TRAINING ACTIVITY, LOCATION, UIC: MTU-4032 NAMTRAU   NAS Norfolk   66046

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
ACDU													
AO	6801/9502	0	7	0	7	0	7	0	7	0	7	0	7
SELRES													
AO	6801/9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	9	0	9	0	9	0	9	0	9	0	9

TRAINING ACTIVITY, LOCATION, UIC: MTU-4033 NAMTRAU   NAS North Island   66065

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU-4034 NAMTRAU   MCAS Cherry Point   66047

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
USMC													
MOS	6541	0	21	0	21	0	21	0	21	0	21	0	21

TRAINING ACTIVITY, LOCATION, UIC: MTU-4035 NAMTRAU   NAS Whidbey Island   66058

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

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[3] Instructor billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AIM-9X.

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS [4]

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4030 NAMTRAGRUDET, NS Mayport, 66069													
	USN	0	10	0	10	0	10	0	10	0	10	0	10
MTU 4032 NAMTRAU, NAS Norfolk, 66046													
	USN	0	16	0	16	0	16	0	16	0	16	0	16
MTU 4033 NAMTRAU, NAS North Island, 66065													
	USN	0	22	0	22	0	22	0	22	0	22	0	22
MTU 4034, NAMTRAU MCAS Cherry Point, 66047													
	USMC	0	48	0	48	0	48	0	48	0	48	0	48
MTU 4035 NAMTRAU, NAS Whidbey Island, 66058													
	USN	0	11	0	11	0	11	0	11	0	11	0	11
SUMMARY TOTAL:													
	USN	0	59	0	59	0	59	0	59	0	59	0	59
	USMC	0	48	0	48	0	48	0	48	0	48	0	48
GRAND TOTAL:		0	107	0	107	0	107	0	107	0	107	0	107

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[4] Chargeable student billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AIM-9X.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS[5]

a. OFFICER - USN: NA

b. ENLISTED - USN:

RATING	PNEC/SNEC	BILLET BASE	CY01 +/-	CY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
Operational Billets ACDU and TAR												
AO	6802	5	0	5	0	5	0	5	0	5	0	5
Fleet Support Billets ACDU and TAR												
AO	0812/6801	1	0	1	0	1	0	1	0	1	0	1
AO	6801	319	0	319	0	319	0	319	+10	329	0	329
AO	6801/8845	2	0	2	0	2	0	2	0	2	0	2
AO	6801/9502	7	0	7	0	7	0	7	0	7	0	7
AO	6801/9590	1	0	1	0	1	0	1	0	1	0	1
AO	6802	375	0	375	0	375	0	375	+7	382	0	382
AO	6810/6801	2	0	2	0	2	0	2	0	2	0	2
AO	8345/6801	1	0	1	0	1	0	1	0	1	0	1
Instructor and Support (Staff) Billets ACDU and TAR												
AO	6801/9502	19	0	19	0	19	0	19	0	19	0	19
Chargeable Student Billets ACDU and TAR												
		59	1	59	0	59	0	59	0	59	0	59
TOTAL USN ENLISTED BILLETS:												
Operational		5	0	5	0	5	0	5	0	5	0	5
Fleet Support		708	0	708	0	708	0	708	+17	725	0	725
Staff		19	0	19	0	19	0	19	0	19	0	19
Student		59	0	59	0	59	0	59	0	59	0	59
SELRES		14	0	14	0	14	0	14	0	14	0	14

[5] Billets are programmed through applicable CV/CVN Class Total Ship NTSPs and Shore Activity Manning Documents.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS[5]

c. OFFICER - USMC: NA

b. ENLISTED - USMC:

RATING	PMOS/SMOS	BILLET BASE	CY01 +/-	CY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
Operational Billets USMC and AR												
	6541	537	0	537	0	537	0	537	0	537	0	537
Fleet Support Billets USMC and AR												
	6541	482	0	482	0	482	0	482	0	482	0	482
Instructor and Support (Staff) Billets USMC and AR												
	6541	21	0	21	0	21	0	21	0	21	0	21
Chargeable Student Billets USMC and AR												
		48	0	48	0	48	0	48	0	48	0	48
TOTAL USMC ENLISTED BILLETS:												
Operational		537	0	537	0	537	0	537	0	537	0	537
Fleet Support		482	0	482	0	482	0	482	0	482	0	482
Staff		21	0	21	0	21	0	21	0	21	0	21
Student		48	0	48	0	48	0	48	0	48	0	48
SMCR		0	0	0	0	0	0	0	0	0	0	0

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS[6]

CIN, COURSE TITLE: D-646-7001, Strike Armament Equipment Intermediate Maintenance
COURSE LENGTH: 9.0 Weeks   **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 %   **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	40	0	40	0	40	0	40	0	40
	USN	SELRES	0	0	0	0	0	0	0	0	0	0
		TOTAL	0	40	0	40	0	40	0	40	0	40

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
COURSE LENGTH: 6.0 Weeks   **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 %   **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MTU-4030 NAMTRAGRUDET, NS Mayport												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	60	0	60	0	60	0	60	0	60
	USN	SELRES	0	0	0	1	0	0	0	0	0	0
		TOTAL	0	60	0	61	0	60	0	60	0	60

CIN, COURSE TITLE: E-646-7001, Strike Armament Equipment Intermediate Maintenance
COURSE LENGTH: 9.0 Weeks   **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 %   **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01 OFF	CY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	64	0	64	0	64	0	64	0	64
	USN	SELRES	0	0	0	0	0	0	0	0	0	0
		TOTAL	0	64	0	64	0	64	0	64	0	64

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[6] ATIR shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AIM-9X.

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS (Continued)[6]

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
COURSE LENGTH: 6.0 Weeks   **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 %   **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
	USN	SELRES	0	1	0	1	0	1	0	1	0	1
		TOTAL	0	73	0	73	0	73	0	73	0	73
MTU-4035 NAMTRAU, NAS Whidbey Island[7]												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance
COURSE LENGTH: 2.0 Weeks   **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 %   **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4030 NAMTRAGRUDET, NS Mayport												
	USN	ACDU-TAR	0	60	0	60	0	60	0	60	0	60
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	50	0	50	0	50	0	50	0	50
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
MTU-4035 NAMTRAU, NAS Whidbey Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance
COURSE LENGTH: 11 Weeks   **SEA TOUR LENGTH:** NA
ATTRITION FACTOR: Marine: 0 %   **BACKOUT FACTOR:** 0.21

TRAINING ACTIVITY	SOURCE	USMC-AR SMCR	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4034, NAMTRAU MCAS Cherry Point												
	USMC	USMC-AR	0	240	0	240	0	240	0	240	0	240

ACTIVITY TOTAL:

MTU-4030 NAMTRAGRU DET	0	132	0	132	0	132	0	132	0	132
MTU-4032 NAMTRAU	0	150	0	151	0	150	0	150	0	150
MTU-4033 NAMTRAU	0	209	0	209	0	209	0	209	0	209
MTU-4034 NAMTRAU	0	240	0	240	0	240	0	240	0	240
MTU-4035 NAMTRAU	0	144	0	144	0	144	0	144	0	144

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the AIM-9X and, therefore, are not included in this NTSP.

III.A.   Training Course 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.B.   Total Ship Training Course Summary

III.C.   Inactive Duty Training Travel and Annual Training Summary

III.A. TRAINING COURSE REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AIM-9X Theory of Operation & AIM-9X/F/A-18C/D Aircrew Procedures
COURSE DEVELOPER: RMS/WBB
INSTRUCTOR: Joel Strabala/Richard Garcia
COURSE LENGTH: Lecture 1 day/Practice (simulator) 2 days

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
Boeing St. Louis, MO, NA	15 SEP 98	11	0	4	Input	(DT-IIB/C) NAWCWD,
		0.09	0	0.01	AOB	AWL, and NAWCAD
		0.09	0	0.01	Chargeable	
Boeing St. Louis, MO, NA	14 JUL 99	5	0	0	Input	(OT-IIA) VX-9, 55646
		0.04	0	0	AOB	
		0.04	0	0	Chargeable	
VX-9, 55646	NOV 01	6	0	0	Input	(OT-IIB) VX-9, 55646
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	

COURSE TITLE: AIM-9X Loading on the F/A-18C/D Aircraft
COURSE DEVELOPER: RMS
INSTRUCTOR: Walter Murphy/Kris Lockwood
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
NAVWPNTESTRON CL, 39787	30 JUN 98	0	7	0	Input	(DT-IIB/C) NAWCWD CL
		0	0.02	0	AOB	and NAWCWD PM
		0	0.02	0	Chargeable	
VX-9, 55646	8 SEP 99	0	12	0	Input	(OT-IIA) VX-9, 55646
		0	0.03	0	AOB	
		0	0.03	0	Chargeable	
VX-9, 55646	NOV 01	0	12	0	Input	(OT-IIB) VX-9, 55646
		0	0.03	0	AOB	
		0	0.03	0	Chargeable	

COURSE TITLE: AIM-9X/LAU-7D/A Release and Control Checks on the F/A-18C/D Aircraft
COURSE DEVELOPER: RMS
INSTRUCTOR: Kris Lockwood
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
VX-9, 55646	NOV 01	0	12	0	Input	(OT-IIB) VX-9, 55646
		0	0.03	0	AOB	
		0	0.03	0	Chargeable	

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AIM-9X Handling and Storage, Packaging and Storing, Inspections, & Remove/Replace Items
COURSE DEVELOPER: RMS
INSTRUCTOR: Walter Murphy/Kris Lockwood
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
NAWS China Lake, 68937	9 SEP 99	0	0	4	Input	(OT-IIA) NAWS China
		0	0	0.01	AOB	Lake, 68937
		0	0	0.01	Chargeable	
VX-9, 55646	13 JUL 00	0	2	0	Input	(CCRP) VX-9, 55646
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
CVN-74 USS Stennis, 21847	13 MAR 01	0	16	0	Input	CVN-74 USS Stennis,
(for Ship Suitability Test)		0	0.04	0	AOB	21847
Instructors: AO1 Sutphin/AO2 Elias		0	0.04	0	Chargeable	
VX-9, 55646	NOV 01	0	8	0	Input	(OT-IIB) VX-9, 55646
		0	0.02	0	AOB	
		0	0.02	0	Chargeable	

COURSE TITLE: AIM-9X Off-Aircraft BIT & Reprogramming Procedures
COURSE DEVELOPER: RMS
INSTRUCTOR: Walter Murphy/Kris Lockwood
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
VX-9, 55646	12 JUL 00	0	2	0	Input	(CCRP) VX-9, 55646
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
CVN-74 USS Stennis, 21847	14 MAR 01	0	16	0	Input	CVN-74 USS Stennis,
(for Ship Suitability Test)		0	0.04	0	AOB	21847
Instructors: AO1 Sutphin/AO2 Elias		0	0.04	0	Chargeable	
VX-9, 55646	NOV 01	0	8	0	Input	(OT-IIB) VX-9, 55646
		0	0.02	0	AOB	
		0	0.02	0	Chargeable	

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AIM-9X Aircrew Familiarization
COURSE DEVELOPER: NSAWC N7/NAWCWD AWL
INSTRUCTOR: NSAWC N7
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
SFWSP, 35185	FY03	20	0	0	Input	SFWSP, 35185
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
SFWSL, 47084	FY03	20	0	0	Input	SFWSL, 47084
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
MAWTS-1, 55167	FY03	20	0	0	Input	MAWTS-1, 55167
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
VFA-125, 09485	FY03	20	0	0	Input	VFA-125, 09485
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
VFA-106, 09679	FY03	20	0	0	Input	VFA-106, 09679
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
VMFAT-101, 09965	FY03	20	0	0	Input	VMFAT-101, 09965
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	

COURSE TITLE: AIM-9X Organizational Maintenance for the F/A-18C/D Aircraft
COURSE DEVELOPER: NAWCWD
INSTRUCTOR: TBD
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
SFWSP, 35185	FY03	0	20	0	Input	SFWSP, 35185
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	
SFWSL, 47084	FY03	0	20	0	Input	SFWSL, 47084
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	
NATTC AO "A" School, 63082	FY03	0	20	0	Input	NATTC, 63082
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AIM-9X Intermediate Maintenance
COURSE DEVELOPER: NAWCWD
INSTRUCTOR: TBD
COURSE LENGTH: 2 days

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
MTU-4030, 66069	FY03	0	5	0	Input	MTU-4030, 66069
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
MTU-4032, 66046	FY03	0	5	0	Input	MTU-4032, 66046
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
MTU-4033, 66065	FY03	0	5	0	Input	MTU-4033, 66065
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
MTU 4034, VMAT-203 FREST, 66047	FY03	0	5	0	Input	MTU 4034, 66047
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
MTU-4035, 66058	FY03	0	5	0	Input	MTU-4035, 66058
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
NATTC AO "A" School, 63082	FY03	0	5	0	Input	NATTC AO "A" School, 63082
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
NAWMU-1, 52821	FY03	0	20	0	Input	NAWMU-1, 52821
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	
CV/CVN TBD (West Coast) (If possible on-board during in-port period)	FY03	0	20	0	Input	CV/CVN TBD (West Coast)
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	
CV/CVN TBD (East Coast) (If possible on-board during in-port period)	FY03	0	20	0	Input	CV/CVN TBD (East Coast)
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	

NOTE: Updated information on initial training will be incorporated into this NTSP, as it becomes available.

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	AOB
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	60.0	0	60.0	0	60.0	0	60.0	0	60.0	ATIR
0	54.0	0	54.0	0	54.0	0	54.0	0	54.0	Output
0	2.2	0	2.2	0	2.2	0	2.2	0	2.2	AOB
0	2.2	0	2.2	0	2.2	0	2.2	0	2.2	Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046

CIN, COURSE TITLE: D-646-7001, Strike Armament Equipment Intermediate Maintenance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	40.0	0	40.0	0	40.0	0	40.0	0	40.0	ATIR
0	36.0	0	36.0	0	36.0	0	36.0	0	36.0	Output
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	AOB
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	Chargeable

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	60.0	0	60.0	0	60.0	0	60.0	0	60.0	ATIR
0	54.0	0	54.0	0	54.0	0	54.0	0	54.0	Output
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	AOB
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	50.0	0	50.0	0	50.0	0	50.0	0	50.0	ATIR
0	45.0	0	45.0	0	45.0	0	45.0	0	45.0	Output
0	1.8	0	1.8	0	1.8	0	1.8	0	1.8	AOB
0	1.8	0	1.8	0	1.8	0	1.8	0	1.8	Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065

CIN, COURSE TITLE: E-646-7001, Strike Armament Equipment Intermediate Maintenance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	64.0	0	64.0	0	64.0	0	64.0	0	64.0	ATIR
0	57.6	0	57.6	0	57.6	0	57.6	0	57.6	Output
0	10.5	0	10.5	0	10.5	0	10.5	0	10.5	AOB
0	10.5	0	10.5	0	10.5	0	10.5	0	10.5	Chargeable

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	AOB
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	AOB
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	Chargeable

TRAINING ACTIVITY: MTU-4034 NAMTRAU
LOCATION, UIC: MCAS Cherry Point, 66047

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance

SOURCE: USMC   **STUDENT CATEGORY:** USMC - AR

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	240	0	240	0	240	0	240	0	240	ATIR
0	216	0	216	0	216	0	216	0	216	Output
0	48.1	0	48.1	0	48.1	0	48.1	0	48.1	AOB
0	48.1	0	48.1	0	48.1	0	48.1	0	48.1	Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	AOB
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

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

CY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	AOB
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the AIM-9X and, therefore, are not included in this NTSP.

IV.C.   Facility Requirements

IV.A.   TRAINING HARDWARE

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

TRAINING ACTIVITY:	NATTC, AO "A" School					
LOCATION, UIC:	NAS Pensacola, 63082					
CIN, COURSE TITLE:	C-646-2011, Aviation Ordnanceman Common Core Class A1					
	C-646-2012, Aviation Ordnanceman Navy Difference Training Strand Class A1					

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Contract[7] LRIP Lot 2
002	LAU-7D/A	NA	1	FY03	GFE	ECP Approval Expected Aug 01
003	AN/AWM-100 P/N 74D750051-1007	NA	0	FY03	GFE	ECP 582 Approval Expected Oct 01

TRAINING ACTIVITY:	SFWS Atlantic					
LOCATION, UIC:	NAS Oceana, 47084					
CIN, COURSE TITLE:	D-646-0640, F/A-18 Conventional Weapons Loading					
	D-646-0647, F/A-18 Conventional Release Systems Test					

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
002	LAU-7D/A	NA	2	FY03	GFE	ECP Approval Expected Aug 01
003	AN/AWM-100 P/N 74D750051-1007	NA	1	FY03	GFE	ECP 582 Approval Expected Oct 01

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[7] Dependent upon exercise of LRIP options and award of Production Contract.

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

TRAINING ACTIVITY: SFWS Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Loading
                      E-646-0647, F/A-18 Conventional Release Systems Test

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
002	LAU-7D/A	NA	2	FY03	GFE	ECP Approval Expected Aug 01
003	AN/AWM-100 P/N 74D750051-1007	NA	1	FY03	GFE	ECP 582 Approval Expected Oct 01

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
                      C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Contract LRIP Lot 1
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Contract[7] LRIP Lot 1/2/3
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

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

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
                           C-646-3118, Strike Armament Systems Intermediate Maintenance
                           C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Contract LRIP Lot 1
002	LAU-7D/A	NA	2	FY03	GFE	ECP Approval Expected Aug 01
003	AN/AWM-100 P/N 74D750051-1007	NA	1	FY03	GFE	ECP 582 Approval Expected Oct 01
004	A/E37T-35 CRALTS (LAU-7D/A compatible)	NA	3	FY03	GFE	ECP Approval Expected Aug 01
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Contract[7] LRIP Lot 1/2/3
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

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

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
                       C-646-3118, Strike Armament Systems Intermediate Maintenance
                       C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Contract LRIP Lot 1
002	LAU-7D/A	NA	2	FY03	GFE	ECP Approval Expected Aug 01
003	AN/AWM-100 P/N 74D750051-1007	NA	1	FY03	GFE	ECP 582 Approval Expected Oct 01
004	A/E37T-35 CRALTS (LAU-7D/A compatible)	NA	3	FY03	GFE	ECP Approval Expected Aug 01
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Contract[7] LRIP Lot 1/2/3
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

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

TRAINING ACTIVITY: MTU-4034 NAMTRAU
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Contract LRIP Lot 1
002	LAU-7D/A	NA	2	FY03	GFE	ECP Approval Expected Aug 01
003	AN/AWM-100 P/N 74D750051-1007	NA	1	FY03	GFE	ECP 582 Approval Expected Oct 01
004	A/E37T-35 CRALTS (LAU-7D/A compatible)	NA	4	FY03	GFE	ECP Approval Expected Aug 01
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Contract[7] LRIP Lot 1/2/3
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

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

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
                       C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Contract LRIP Lot 1
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Contract[7] LRIP Lot 1/2/3
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

IV.A.2. TRAINING DEVICES

DEVICE: Captive Air Training Missile, CATM-9X (NALC CWMB)

DESCRIPTION OF DEVICE: The CATM is a captive flight training missile permitting realistic exercise of the AIM-9X seeker. Airborne operation of the CATM provides the operator all interaction between aircraft and missile without expending the missile.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027, LRIP Lot 1 option has been exercised for 15 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot II and III options and additional Full-rate Production contract award.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VFA-106 NAS Oceana, 09679	28	FY02	FY03	On contract[7]	D-2A-0601 D-2A-0602 D-2A-0604 D-2A-0606
VFA-125 NAS Lemoore, 09485	28	FY02	FY03	On contract[7]	E-2A-0601 E-2A-0602 E-2A-0604 E-2A-0606
VMFAT-101 MCAS Miramar, 09965	28	FY02	FY03	On contract[7]	M13P4B3 M13P3V3 M13P3W3 M13P4C3 M13P3R3 M13P3S3
SFWS Atlantic NAS Oceana, 40784	14	FY02	FY03	On contract[7]	SFARP SFWE D-646-0640 D-646-0647
SFWS Pacific NAS Lemoore, 35185	14	FY02	FY03	On contract[7]	SFARP SFWE E-646-0640 E-646-0647
Naval Strike and Air Warfare Center N7 (Topgun) NAS Fallon, 69190	14	FY02	FY03	On contract[7]	SFTP SFTI
MAWTS 1, MCAS Yuma, 55167	14	FY02	FY03	On contract[7]	ACTI/ACMI/ DEFTACI/WTI
VFA-22, NAS Lemoore, 09561	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-25, NAS Lemoore, 09637	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-94, NAS Lemoore, 09295	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-97, NAS Lemoore, 63923	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-113, NAS Lemoore, 09092	14	FY03	FY03	On contract[7]	T&R/SFTP

IV.A.2. TRAINING DEVICES

DEVICE:	Captive Air Training Missile, CATM-9X (NALC CWMB)
DESCRIPTION OF DEVICE:	The CATM is a captive flight training missile permitting realistic exercise of the AIM-9X seeker. Airborne operation of the CATM provides the operator all interaction between aircraft and missile without expending the missile.
MANUFACTURER:	RMS
CONTRACT NUMBER:	N00019-97-C-0027, LRIP Lot 1 option has been exercised for 15 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot II and III options and additional Full-rate Production contract award.
TEE STATUS:	NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VFA-115, NAS Lemoore, 09604	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-137, NAS Lemoore, 55142	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-146, NAS Lemoore, 09063	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-147, NAS Lemoore, 63925	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-151, NAS Lemoore, 09558	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-27, NAF Atsugi, 65185	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-192, NAF Atsugi, 55179	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-195, NAF Atsugi, 09706	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-127, NAS Fallon, 08956	14	FY03	FY03	On contract[7]	T&R/SFTP
VFC-13 (TAR), NAS Fallon, 52995	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-15, NAS Oceana, 09015	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-34, NAS Oceana, 09070	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-37, NAS Oceana, 09478	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-81, NAS Oceana, 09221	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-83, NAS Oceana, 09223	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-87, NAS Oceana, 63922	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-105, NAS Oceana, 65183	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-131, NAS Oceana, 63934	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-136, NAS Oceana, 55141	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-82, MCAS Beaufort, 09122	14	FY03	FY03	On contract[7]	T&R/SFTP
VFA-86, MCAS Beaufort, 09943	14	FY03	FY03	On contract[7]	T&R/SFTP
VFC-12 (TAR), NAS Oceana, 52994	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-201 (TAR), NAS JRB Fort Worth, 09309	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-203 (TAR), NAS JRB Atlanta, 09030	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-204 (TAR), NAS JRB New Orleans, 09032	14	FY05	FY05	On contract[7]	T&R/SFTP
VX-1, NAS Patuxent River, 55600	14	FY02	FY03	On contract[7]	T&R/SFTP
VX-9, NAWCWD China Lake, 55646	14	FY02	FY03	On contract[7]	T&R/SFTP

IV.A.2. TRAINING DEVICES

DEVICE: Captive Air Training Missile, CATM-9X (NALC CWMB)

DESCRIPTION OF DEVICE: The CATM is a captive flight training missile permitting realistic exercise of the AIM-9X seeker. Airborne operation of the CATM provides the operator all interaction between aircraft and missile without expending the missile.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027, LRIP Lot 1 option has been exercised for 15 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot II and III options and additional Full-rate Production contract award.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VX-9 Det, NAWCWD Point Mugu, 09830	14	FY02	FY03	On contract[7]	T&R/SFTP
NAVWPNTESTRON China Lake, 39787	14	FY02	FY03	On contract[7]	T&R/SFTP
NAVWPNTESTRON Point Mugu, 39788	14	FY02	FY03	On contract[7]	T&R/SFTP
NAVSTKAIRTESTRON, NAS Patuxent River, 39783	14	FY02	FY03	On contract[7]	T&R/SFTP
VMFA-115, MCAS Beaufort, 09234	14	FY03	FY03	On contract[7]	T&R
VMFA-122, MCAS Beaufort, 09407	14	FY03	FY03	On contract[7]	T&R
VMFA-251, MCAS Beaufort, 09241	14	FY03	FY03	On contract[7]	T&R
VMFA-312, MCAS Beaufort, 09253	14	FY03	FY03	On contract[7]	T&R
VMFA(AW)-224, MCAS Beaufort, 01224	18	FY03	FY03	On contract[7]	T&R
VMFA(AW)-332, MCAS Beaufort, 09501	18	FY03	FY03	On contract[7]	T&R
VMFA(AW)-533, MCAS Beaufort, 09193	18	FY03	FY03	On contract[7]	T&R
VMFA-212, MCAS Iwakuni, 09434	14	FY03	FY03	On contract[7]	T&R
VMFA-232, MCAS Miramar, 09242	14	FY03	FY03	On contract[7]	T&R
VMFA-314, MCAS Miramar, 09230	14	FY03	FY03	On contract[7]	T&R
VMFA-323, MCAS Miramar, 09235	14	FY03	FY03	On contract[7]	T&R
VMFA(AW)-121, MCAS Miramar, 09257	18	FY03	FY03	On contract[7]	T&R
VMFA(AW)-225, MCAS Miramar, 09232	18	FY03	FY03	On contract[7]	T&R
VMFA(AW)-242, MCAS Miramar, 09668	18	FY03	FY03	On contract[7]	T&R
VMFA-112 (AR), JRB Fort Worth, 08954	14	FY03	FY03	On contract[7]	T&R
VMFA-134 (AR), MCAS Miramar, 09365	14	FY03	FY03	On contract[7]	T&R
VMFA-142 (AR), JRB Atlanta, 67243	14	FY03	FY03	On contract[7]	T&R
VMFA-321 (AR), NAF Washington, 67235	14	FY03	FY03	On contract[7]	T&R
TOTAL: (86% Asset Readiness)	920				
TOTAL: (100% Asset Readiness)	1070				

IV.A.2. TRAINING DEVICES

DEVICE:	Dummy Air Training Missile, DATM-9X
DESCRIPTION OF DEVICE:	The DATM is physically representative of the AIM-9X. It is a training device to facilitate instruction and familiarization for transporting, handling, loading, and visual inspection procedures for organizational- and intermediate-level training purposes. The DATM is not certified for flight, and is designed for ground training use only.
MANUFACTURER:	RMS
CONTRACT NUMBER:	N00019-97-C-0027 LRIP Lot 1 option has been exercised for 10 DATM-9X. The balance of DATM-9X quantities is contingent upon exercise of LRIP Lot II and III options.
TEE STATUS:	NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
MTU-4030, NAMTRAGRUDET NAS Mayport, 66069	2	FY02	FY03	On contract	C-122-3111
MTU-4032, NAMTRAU NAS Norfolk, 66046	2	FY02	FY03	On contract	C-122-3111
MTU-4033, NAMTRAU NAS North Island, 66065	2	FY02	FY03	On contract	C-122-3111
MTU-4034, NAMTRAU MCAS Cherry Point, 66047	2	FY02	FY03	On contract	C-646-3105
MTU-4035, NAMTRAU NAS Whidbey Island, 66058	2	FY02	FY03	On contract	C-122-3111
NATTC, AO A1 School NAS Pensacola, 63082	2	FY03	FY03	On contract[7]	C-646-2011 C-646-2012
Inter Deployment Training Cycle (IDTC), CV-67	2	FY03	FY03	On contract[7]	Qual/Cert Program
IDTC, MOTT, Norfolk	3	FY03	FY03	On contract[7]	Qual/Cert Program
IDTC, Cage, North Island	3	FY03	FY03	On contract[7]	Qual/Cert Program
IDTC, CV/CVN, Bremerton/Everret	2	FY03	FY03	On contract[7]	Qual/Cert Program
IDTC, CV-67, Yokosuka	2	FY03	FY03	On contract[7]	Qual/Cert Program
NAF Washington Andrews AFB, Maryland, 00166	1	FY04	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
NAS JRB Atlanta Marietta, Georgia, 00196	1	FY04	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
NAS JRB New Orleans New Orleans, Louisiana, 00206	1	FY04	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
NAS JRB Fort Worth Fort Worth, Texas, 00215	1	FY04	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
TOTAL:	28				

IV.A.2. TRAINING DEVICES

DEVICE: Practical Explosive Ordnance Disposal System Trainer (PEST)

DESCRIPTION OF DEVICE: The AIM-9X PEST is a full-scale model fabricated from actual hardware, having approximately the same weight and center of gravity as the tactical missile. The PEST is used for teaching and practicing Rendering Safe Procedures.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027 LRIP Lot 1 option has been exercised for 6 PEST-9X.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAVSCOLEOD Eglin AFB, 62640	4	FY02	FY03	On contract	A-431-0011 A-431-0012
EODTEU ONE San Diego, 30202	1	FY02	FY03	On contract	G-431-0001
EODTEU TWO Fort Story, 43505	1	FY02	FY03	On contract	G-431-0001

DEVICE: Classroom Explosive Ordnance Disposal System Trainer (CEST)

DESCRIPTION OF DEVICE: The AIM-9X CEST is a full-scale, inert replica of the tactical AIM-9X with cut-away areas exposing the explosive train components. EOD instructors use the CEST to teach EOD personnel missile Rendering Safe Procedures.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027 LRIP Lot 1 option has been exercised for 1 CEST-9X.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAVSCOLEOD Eglin AFB, 62640	1	FY02	FY03	On contract	A-431-0011 A-431-0012

IV.B. COURSEWARE REQUIREMENTS

IV.B.1 TRAINING SERVICES

COURSE/TYPE OF TRAINING	SCHOOL/LOCATION/UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	BEGIN DATE
AIM-9X Aircrew Familiarization/ Initial (Instructor)				
	SFWSP/NAS Lemoore/35185	2	0.4	FY03
	VFA-125/NAS Lemoore/09485	2	0.4	FY03
	SFWSP/NAS Oceana/47084	2	0.4	FY03
	VFA-106/NAS Oceana/09679	2	0.4	FY03
AIM-9X Organizational Maintenance for the F/A-18C/D/ Initial (Instructor)				
	SFWSP/NAS Lemoore/35185	2	0.4	FY03
	SFWSP/NAS Oceana/47084	2	0.4	FY03
	AO A1/NAS Pensacola/63082	2	0.4	FY03
AIM-9X Intermediate Maintenance/ Initial (Instructor)				
	MTU 4030/NS Mayport/66069	2	0.8	FY03
	MTU 4032/NAS Norfolk/66046	2	0.8	FY03
	MTU 4033/NAS North Island/66065	2	0.8	FY03
	MTU 4034 FREST/ MCAS Cherry Point/45483	2	0.8	FY03
	MTU 4035/NAS Whidbey Island/ 66065	2	0.8	FY03
	AO A1/NAS Pensacola/63082	2	0.8	FY03

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY:	VFA-106
LOCATION, UIC:	NAS Oceana, 09679
CIN, COURSE TITLE:	D-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
	D-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
	D-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
	D-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01
			Beta version Nov 02
			Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

TRAINING ACTIVITY:	VFA-125
LOCATION, UIC:	NAS Lemoore, 09485
CIN, COURSE TITLE:	E-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
	E-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
	E-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
	E-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01
			Beta version Nov 02
			Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

TRAINING ACTIVITY:	VMFAT-101
LOCATION, UIC:	MCAS Miramar, 45526
CIN, COURSE TITLE:	M13P4B3, F/A-18 Fleet Replacement Pilot Basic and Transition
	M13P3V3, F/A-18 Fleet Replacement Pilot Refresher
	M13P3W3, F/A-18 Fleet Replacement Pilot Modified Refresher
	M13P4C3, F/A-18 WSO Basic and Transition
	M13P3R3, F/A-18 WSO Refresher
	M13P3S3, F/A-18 WSO Modified Refresher

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01
			Beta version Nov 02
			Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: Strike Fighter Weapons School Atlantic
LOCATION, UIC: NAS Oceana, 40784
CIN, COURSE TITLE: Strike Fighter Advanced Readiness Program (SFARP)
Strike Fighter Weapons Employment (SFWE)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01
			Beta version Nov 02
			Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

TRAINING ACTIVITY: Strike Fighter Weapons School Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: Strike Fighter Advanced Readiness Program (SFARP)
Strike Fighter Weapons Employment (SFWE)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01
			Beta version Nov 02
			Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

TRAINING ACTIVITY: Naval Strike and Air Warfare Center N7 (Topgun)
LOCATION, UIC: NAS Fallon, 69190
CIN, COURSE TITLE: Strike Fighter Training Program (SFTP)
Strike Fighter Tactics Instructor (SFTI)
Strike Fighter Weapons and Tactics (SFWT)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01
			Beta version Nov 02
			Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

TRAINING ACTIVITY: MAWTS 1
LOCATION, UIC: MCAS Yuma, 55167
CIN, COURSE TITLE: Air Combat Maneuvering Instructor (ACMI)
Air Combat Tactics Instructor (ACTI)
Defensive Tactics Instructor (DEFTACI)
Weapons and Tactics Instructor (WTI)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01
			Beta version Nov 02
			Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: F/A-18 Squadrons
<u>**LOCATION, UIC:**</u>   See Below

CIN, COURSE TITLE: SFTP and Training & Readiness (T&R)

<u>TYPES OF MATERIAL OR AID</u>:	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01 Beta version Nov 02 Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

<u>**LOCATION, UIC:**</u>

VFA-22, NAS Lemoore, 09561

VFA-25, NAS Lemoore, 09637

VFA-94, NAS Lemoore, 09295

VFA-97, NAS Lemoore, 63923

VFA-113, NAS Lemoore, 09092

VFA-115, NAS Lemoore, 09604

VFA-137, NAS Lemoore, 55142

VFA-146, NAS Lemoore, 09063

VFA-147, NAS Lemoore, 63925

VFA-151, NAS Lemoore, 09558

VFA-27, NAF Atsugi, 65185

VFA-192, NAF Atsugi, 55179

VFA-195, NAF Atsugi, 09706

VFA-82, MCAS Beaufort, 09122

VFA-86 MCAS Beaufort, 09943

VFA-15, NAS Oceana, 09015

VFA-34, NAS Oceana, 09070

VFA-37, NAS Oceana, 09478

VFA-81, NAS Oceana, 09221

VFA-83, NAS Oceana, 09223

VFA-87, MCAS Beaufort, 63922

VFA-105, NAS Oceana, 65183

VFA-131, NAS Oceana, 63934

VFA-136, NAS Oceana, 55141

VFA-201 (TAR), NAS JRB Fort Worth, 09309

VFA-203 (TAR), NAS JRB Atlanta, 09030

VFA-204 (TAR), NAS JRB New Orleans, 09032

VX-9, NAWCWD China Lake, 55646

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: F/A-18 Squadrons
LOCATION, UIC: See Below

CIN, COURSE TITLE: SFTP and Training & Readiness (T&R)

TYPES OF MATERIAL OR AID:	QUANT REQD	DATE REQD	STATUS

VX-9 Det, NAWCWD Point Mugu, 09830

TRAINING ACTIVITY: F/A-18 Squadrons
LOCATION, UIC: See Below

CIN, COURSE TITLE: Squadron Training (T&R)

TYPES OF MATERIAL OR AID: SFTS AIM-9X ICW	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X ICW	1 Set	FY03	Alpha version Nov 01 Beta version Nov 02 Version 1.0 Mar 03
AIM-9X Ready Room Fly Out Tool	1 Set	FY03	Version 1.0 May 01

LOCATION, UIC:

VMFA-115, MCAS Beaufort, 09234

VMFA-122, MCAS Beaufort, 09407

VMFA-251, MCAS Beaufort, 09241

VMFA-312, MCAS Beaufort, 09253

VMFA(AW)-224, MCAS Beaufort, 01224

VMFA(AW)-332, MCAS Beaufort, 09501

VMFA(AW)-533, MCAS Beaufort, 09193

VMFA-212, MCAS Iwakuni, 09434

VMFA-232, MCAS Miramar, 09242

VMFA-314, MCAS Miramar, 09230

VMFA-323, MCAS Miramar, 09235

VMFA(AW)-121, MCAS Miramar, 09257

VMFA(AW)-225, MCAS Miramar, 09232

VMFA(AW)-242, MCAS Miramar, 09668

VMFA-112 (AR), JRB Fort Worth, 08954

VMFA-134 (AR), MCAS Miramar, 09365

VMFA-142 (AR), JRB Atlanta, 67243

VMFA-321 (AR), NAF Washington, 67235

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: NATTC, AO "A" School
LOCATION, UIC: NAS Pensacola, 63082
CIN, COURSE TITLE: C-646-2011, Aviation Ordnance Common Core Class A1
C-646-2012, Aviation Ordnanceman Navy Difference Training Strand

	QUANT	DATE	
TYPE OF MATERIAL OR AID	**REQD**	**REQD**	**STATUS**
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02

TRAINING ACTIVITY: SFWS Atlantic
LOCATION, UIC: NAS Oceana, 47084
CIN, COURSE TITLE: D-646-0640, F/A-18 Conventional Weapons Loading
D-646-0647, F/A-18 Conventional Release System Test

	QUANT	DATE	
TYPE OF MATERIAL OR AID	**REQD**	**REQD**	**STATUS**
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02

TRAINING ACTIVITY: SFWS Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Loading
E-646-0647, F/A-18 Conventional Release System Test

	QUANT	DATE	
TYPE OF MATERIAL OR AID	**REQD**	**REQD**	**STATUS**
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

	QUANT	DATE	
TYPE OF MATERIAL OR AID	**REQD**	**REQD**	**STATUS**
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02
AIM-9X CMBRE Embedded Training PC Cards	1 Set	FY02	Available

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[8] Training package consists of Lesson Plan, Trainee Guide, Student Handbook, and Visual Aids.

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02
AIM-9X CMBRE Embedded Training PC Cards	1 Set	FY02	Available

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02
AIM-9X CMBRE Embedded Training PC Cards	1 Set	FY02	Available

TRAINING ACTIVITY: MTU-4034 NAMTRAU
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02
AIM-9X CMBRE Embedded Training PC Cards	1 Set	FY02	Available

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY03	Expected Feb 02
AIM-9X CMBRE Embedded Training PC Cards	1 Set	FY02	Available

TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC: Eglin AFB, 62640
CIN, COURSE TITLE: A-431-0011, EOD Phase II (Navy)
A-431-0012, EOD Phase II

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Source Data	1 Set	FY02	Available

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY:	EODTEU ONE
LOCATION, UIC:	San Diego, 30202
CIN, COURSE TITLE:	G-431-0001, EOD Pre-deployment Team Training

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Source Data	1 Set	FY02	Available

TRAINING ACTIVITY:	EODTEU TWO
LOCATION, UIC:	Fort Story, 43505
CIN, COURSE TITLE:	G-431-0001, EOD Pre-deployment Team Training

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Source Data	1 Set	FY02	Available

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: VFA-106
LOCATION, UIC: NAS Oceana, 09679
CIN, COURSE TITLE: D-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
                      D-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
                      D-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
                      D-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	Update in process
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	Update in process
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

TRAINING ACTIVITY: VFA-125
LOCATION, UIC: NAS Lemoore, 09485
CIN, COURSE TITLE: E-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
                      E-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
                      E-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
                      E-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	Update in process
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	Update in process
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: SFWS Atlantic
LOCATION, UIC: NAS Oceana, 40784
CIN, COURSE TITLE: SFARP
    SFWE

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	Update in process
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	Update in process
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

TRAINING ACTIVITY: SFWS Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: SFARP
    SFWE

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	Update in process
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	Update in process
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: Naval Strike and Air Warfare Center N7 (Topgun)
LOCATION, UIC: NAS Fallon, 69190
CIN, COURSE TITLE: Strike Fighter Training Instructor (SFTI)

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	Update in process
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	Update in process
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

TRAINING ACTIVITY: VMFAT-101
LOCATION, UIC: MCAS Miramar, 45526
CIN, COURSE TITLE: M13P4B3, F/A-18 Fleet Replacement Pilot Basic and Transition
     M13P3V3, F/A-18 Fleet Replacement Pilot Refresher
     M13P3W3, F/A-18 Fleet Replacement Pilot Modified Refresher
     M13P4C3, F/A-18 WSO Basic and Transition
     M13P3R3, F/A-18 WSO Refresher
     M13P3S3, F/A-18 WSO Modified Refresher

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	Update in process
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	Update in process
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MAWTS 1
LOCATION, UIC: MCAS Yuma, 55167
CIN, COURSE TITLE: Air Combat Maneuvering Instructor (ACMI)
                           Air Combat Tactics Instructor (ACTI)
                           Defensive Tactics Instructor (DEFTACI)
                           Weapons and Tactics Instructor (WTI)

NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	Update in process
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	Update in process
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

TRAINING ACTIVITY: SFWS Atlantic
LOCATION, UIC: NAS Oceana, 47084
CIN, COURSE TITLE: D-646-0640, F/A-18 Conventional Weapons Loading
                           D-646-0647, F/A-18 Conventional Release System Test

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000	Hard copy	10	FY03	Update in process
Release & Control (Missiles), Air to Air A1-F18AE-LWS-210	Hard copy	10	FY03	Update in process
AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530	Hard copy	10	FY03	Update in process
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	10	FY03	Development in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:	SFWS Pacific
LOCATION, UIC:	NAS Lemoore, 35185
CIN, COURSE TITLE:	E-646-0640, F/A-18 Conventional Weapons Loading
	E-646-0647, F/A-18 Conventional Release System Test

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000	Hard copy	10	FY03	Update in process
Release & Control (Missiles), Air to Air A1-F18AE-LWS-210	Hard copy	10	FY03	Update in process
AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530	Hard copy	10	FY03	Update in process
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	10	FY03	Development in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: NATTC, AO "A" School
LOCATION, UIC: NAS Pensacola, 63082
CIN, COURSE TITLE: C-646-2011, Aviation Ordnance Common Core Class A1
C-646-2012, Aviation Ordnanceman Navy Difference Training Strand

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000	Hard copy	10	FY03	Update in process
Release & Control (Missiles), Air to Air A1-F18AE-LWS-210	Hard copy	10	FY03	Update in process
AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530	Hard copy	10	FY03	Update in process
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	10	FY03	Development in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	10	FY03	Update in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	10	FY03	Update in process
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	10	FY03	Development in process
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	10	FY03	Update in process
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	10	FY03	Update in process
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	10	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
    C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	13	FY03	Development in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	13	FY03	Update in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	13	FY03	Update in process
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	13	FY03	Development in process
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	13	FY03	Update in process
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	13	FY03	Update in process
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	13	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
                    C-646-3118, Strike Armament Systems Intermediate Maintenance
                    C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	13	FY03	Development in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	13	FY03	Update in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	13	FY03	Update in process
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	13	FY03	Development in process
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	13	FY03	Update in process
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	13	FY03	Update in process
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	13	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
                        C-646-3118, Strike Armament Systems Intermediate Maintenance
                        C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	13	FY03	Development in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	13	FY03	Update in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	13	FY03	Update in process
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	13	FY03	Development in process
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	13	FY03	Update in process
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	13	FY03	Update in process
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	13	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4034 NAMTRAU
LOCATION, UIC: MCAS Cherry Point   , 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	13	FY03	Development in process
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	13	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	13	FY03	Development in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	13	FY03	Update in process
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	13	FY03	Update in process
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	13	FY03	Development in process
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	13	FY03	Update in process
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	13	FY03	Update in process
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	13	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC: Eglin AFB, 62640
CIN, COURSE TITLE: A-431-0011, EOD Phase II (Navy)
A-431-0012, EOD Phase II

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	150	FY03	In Development

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: EODTEU ONE
LOCATION, UIC: San Diego, CA, 30202
CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	4	FY03	In Development

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

TRAINING ACTIVITY: EODTEU TWO
LOCATION, UIC: Fort Story, VA, 43505
CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	4	FY03	In Development

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Existing manuals currently reflect AIM-9M requirements only and will be updated with AIM-9X data as information becomes available.

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PMA 205	Commence analysis of manpower personnel and training requirements (HARDMAN)	May 93	Completed
PMA 205	Prepare Human Systems Integration Plan for AIM-9X	July 94	Completed
PMA 205	Promulgate Draft NTSP	Dec 96	Completed
AIR-3.1.1L	Promulgated Draft ILSP	July 97	Completed
PMA 205	Promulgate Approved NTSP	May 98	Completed
AIR-3.1.1L	Promulgated Approved ALSP	Jan 99	Completed
RMS	Provide DT-IIB/C Training	July 98	Completed
RMS	Provide OT-IIA Training	Sep 99	Completed
RMS	Provide CCRP Training	July 00	Completed
NAVWPNTESTRON/AWL	Commence DT-ASSIST	Nov 00	Completed
PMA205	Provide SST Training	Mar 01	Completed
PMA205	Attend AV-8/WC 700 USMC MTRR	Apr/May 01	Completed
PMA 205	Promulgate Approved Update (Rev A) NTSP	June 01	Completed
RMS	Provide OT-IIB Training	Nov 01	
OPTEVFOR/VX-9	Commence OPEVAL (OT-IIB)	Dec 01	
PMA 259/205-3J/RMS	Begin Technical Training Equipment delivery	FY02	
PMA 259/205-3J/RMS	Training Device delivery	FY02	
PMA 205-3J	Curricula material delivery	FY02	
AIR-3.1.1L/RMS	Technical Manuals delivery	FY02	
PMA 205-3J	Commence Initial Training	FY03	
AIR-3.1.1L	Material Support Date (MSD) attained	FY03	
PMA 259/AIR-3.1.1L	Fleet Introduction	FY03	
CNET/NSAWC/MCCDC	Commence Follow-on Training	FY03	
AIR-3.1.1L	Navy Support Date (NSD) attained	FY04	

PART VI - ACTION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
Waive requirement for MPT Advisory Board and incorporate HARDMAN analysis data directly into Preliminary Draft NTSP.	OPNAV N889H	July 93	Closed - waiver granted.
Identify squadron proficiency training requirements, e.g., CATM and ICW, in Preliminary Draft NTSP.	PMA 205-5F	Dec 96	Closed – quantities and rationale included in NTSP.
Coordinate/integrate development of AIM-9X aircrew training with JHMCS training to the fullest extent possible.	PMA 205-3J	Feb 98	Closed – Joint Interface Control Working Group (JICWG) formed by PMA259.
Track status of AIM-9X maintenance concept for switch to shipboard BIT and reprogramming of AIM-9X assets using CMBRE.	PMA 205-3J	March 98	Closed – maintenance and training concept updated and resource requirements identified.
Identify organizations involved with AIM-9X-related TTE acquisition/modification and provide schedule information in NTSP.	PMA 205-3J	March 01	Closed – I.G.4. describes Digital Wingtip and AN/AWM-100 ECP, LAU-7D/A and A/E37T-35 ECP, TTU-574/E24A acquisition, and CNU-609/E acquisition. I.K.1 provides current schedule/delivery information.

PART VII - POINTS OF CONTACT

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

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