



APPROVED

NAVY TRAINING SYSTEM PLAN

FOR THE

AIM-9X

SIDEWINDER MISSILE SYSTEM

N78-NTSP-A-50-9601B/A

MAY 2004

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 was 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 third Low-Rate Initial Production (LRIP) lot option. Early Operational Fielding began in the third quarter of FY03 at MCAS Iwakuni and continued in the fourth quarter at NAS Lemoore. Initial Operational Capability (IOC) was attained in February 2004 by VMFA-212 at MCAS Iwakuni.

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 did 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 (NOBC) or Military Occupational Specialty (MOS) is required.

The AIM-9X did 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 have been modified to include AIM-9X information. These modifications incorporated 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 |
| ACDU | Active Duty |
| ACMI | Air Combat Maneuvering Instructor |
| ACTI | Air Combat Tactics Instructor |
| AFD | Arm and Fire Device |
| AFLOATRAGRU | Afloat Training Group |
| AIMD | Aircraft Intermediate Maintenance Department |
| AIM | Air launched Aerial Intercept Guided Missile |
| AIRMAINTTRSGRPDET | Air Maintenance Training Squadron Group Detachment |
| ALSP | Acquisition Logistics Support Plan |
| AMRAAM | Advanced Medium-Range Air-to-Air Missile |
| AMTCS | Aviation Maintenance Training Continuum System |
| AO | Aviation Ordnanceman |
| AOB | Average On Board |
| AOOCP | Aviation Ordnanceman Officer Career Progression |
| AOTD | Active Optical Target Detector |
| AR | Active Reserve (USMC) |
| ASM | AMTCS – Software Module |
| ASRAAM | Advanced Short-Range Air-to-Air Missile |
| AT | Aviation Electronics Technician |
| ATIR | Annual Training Input Requirement |
| AUR | All-Up-Round |
| AWL | Advanced Weapons Laboratory |
| BIT | Built-In-Test |
| CAI | Computer Aided Instruction |
| CARD | Cost Analysis Requirements Document |
| 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 |
| CFE | Contractor Furnished Equipment |
| CIN | Course Identification Number |
| CITIS | Contractor Integrated Technical Information Service |

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LIST OF ACRONYMS

| | |
|-----------------|--|
| CL | China Lake |
| CMBRE | Common Munitions BIT Reprogramming Equipment |
| CMC | Commandant of the Marine Corps |
| CMI | Computer Managed Instruction |
| CNATT | Center for Naval Aviation Technical Training |
| CNATT DET | CNATT Detachment |
| CNATT MARU | CNATT Marine Unit |
| CNO | Chief of Naval Operations |
| COMFLTACT | Commander Fleet Activities |
| COMLANTFLT | Commander U.S. Atlantic Fleet |
| COMNAVAIRLANT | Commander, Naval Air Forces, Atlantic |
| COMNAVAIRPAC | Commander, Naval Air Forces, Pacific |
| COMNAVAIRRESFOR | Commander, Naval Air Reserve Force |
| COMPACFLT | Commander U.S. Pacific Fleet |
| COMSTKFIGHTWING | Commander, Strike Fighter Wing, Atlantic |
| LANT | |
| COTS | Commercial Off-The-Shelf |
| CRALTS | Common Rack And Launcher Test Set |
| 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 |
| DET | Detachment |
| DT | Development Test |
| DT&E | Developmental Test and Evaluation |
| DT/OT | Development Test/Operational Test |
| E&MD | Engineering and Manufacturing Development |
| ECP | Engineering Change Proposal |
| ECR | Electronic Classroom |
| EDM | Engineering Development Model |
| EOD | Explosive Ordnance Disposal |
| EODTEU | Explosive Ordnance Disposal Training and Evaluation Unit |
| ESAD | Electronic Safe and Arm Device |
| ETJ | Electronic Training Jacket |

AIM-9X SIDEWINDER MISSILE SYSTEM

LIST OF ACRONYMS

| | |
|----------------|--|
| FASOTRAGRULANT | Fleet Aviation Specialized Operational Training Group Atlantic |
| FCR | Formal Course Review |
| 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 |
| GFE | Government Furnished Equipment |
| GM | Gunner's Mate |
| GPETE | General Purpose Electronic Test Equipment |
| GPTE | General Purpose Test Equipment |
| GS | Guidance Section |
| H&HS | Headquarters and Headquarters Support Squadron |
| HARM | High-Speed Anti Radiation Missile |
| HMH | Marine Corps Heavy Helicopter Squadron |
| HMLA | Marine Corps Light Attack Helicopter Squadron |
| HMM | Marine Corps Medium Helicopter Squadron |
| HMSC | Hughes Missile Systems Company |
| HMT | Marine Corps Helicopter Training Squadron |
| HPRR | Human Performance Readiness Review |
| HSI | Human Systems Integration |
| HSIP | Human Systems Integration Plan |
| ICW | Interactive Courseware |
| IDTC | Inter-Deployment Training Cycle |
| ILSP | Integrated Logistics Support Plan |
| IOC | Initial Operational Capability |
| IPT | Integrated Product Team |
| IR | Infrared |
| IRCCM | Infrared Counter-Counter Measures |
| IRRS | Improved Rearming Rate System |
| IWT | Integrated Weapons Team |

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LIST OF ACRONYMS

| | |
|--------|--|
| JAAM | Joint Air-to-Air Model |
| JDAM | Joint Direct Attack Munitions |
| JICWG | Joint Interface Control Working Group |
| JHMCS | Joint Helmet Mounted Cueing System |
| JRB | Joint Reserve Base |
| JSOW | Joint Stand-Off Weapon |
| JTX | Joint Training Exercise |
| LALS | Linkless Ammunition Loading System |
| LANT | Atlantic |
| LHA | Landing Ship Helicopter Assault |
| LHD | Landing Ship Helicopter Dock |
| LPH | Landing Platform Helicopter |
| LRC | Learning Resource Center |
| LRIP | Low-Rate Initial Production |
| MAD | Marine Aviation Detachment |
| MAG | Marine Corps Air Group |
| MALS | Marine Aviation Logistics Squadron |
| MALSE | Marine Aviation Logistics Squadron, Engineering |
| MAP | Munitions Application Program |
| MASD | Marine Corps Air Squadron Detachment |
| MATMEP | Marine Aviation Training Management Evaluation Program |
| MAW | Marine Corps Air Wing |
| MAWTS | Marine Aviation Weapons and Tactics Squadron |
| MCAF | Marine Corps Air Facility |
| MCAS | Marine Corps Air Station |
| MCCDC | Marine Corps Combat Development Command |
| MCO | Marine Corps Order |
| MCS | Marine Corps Squadron |
| MOAT | Missile On-Aircraft Test |
| MOS | Military Occupational Specialty |
| MOTT | Mobile Ordnance Training Team |
| 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 |

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LIST OF ACRONYMS

| | |
|------------------|--|
| MTU | Maintenance Training Unit |
| NA | Not Applicable |
| NAF | Naval Air Facility |
| NALC CWMB | Naval Ammunition Logistics Center, Conventional Weapons Mobile Battalion |
| NAS | Naval Air Station |
| NAST | Naval Air Systems Team |
| NATEC | Naval Air Technical Data & Engineering Service Command |
| NATM | Live Fire Air-Launched Training Missile |
| NATMSACT | Naval Air Training Management Support Activity |
| NATSAG | Naval Aviation Training Systems Advisory Group |
| NATTC | Naval Air Technical Training Center |
| NAVAIRESFOR | Naval Air Reserve Force |
| NAVAIR | Naval Air Systems Command |
| NAVPERSCOM | Naval Personnel Command |
| NAVSCOLEOD | Navy EOD School |
| NAVSTKAIRTESTRON | Naval Strike Air Test Squadron |
| NAVWPNTSTRON | Naval Weapons Test Squadron |
| NAWCAD | Naval Air Warfare Center Aircraft Division |
| NAWCWD | Naval Air Warfare Center Weapons Division |
| NAWMU | Naval Airborne Weapons Maintenance Unit |
| NAWS | Naval Air Weapons Station |
| NCEA | Non-Combat Expenditure Allowance |
| NEC | Navy Enlisted Classification |
| NETC | Naval Education and Training Command |
| NNOR | Non-Nuclear Ordnance Requirements |
| NOBC | Naval Officer Billet Code |
| NOMMP | Naval Ordnance Maintenance Management Program OPNAVINST 8000.16 |
| NS | Naval Station |
| NSAWC | Naval Strike and Air Warfare Center |
| NSD | Navy Support Date |
| NSN | National Stock Number |
| NTRDM | Naval Training Requirements Documentation Manual |
| NTSP | Navy Training System Plan |
| OA | Operational Assessment |
| OATMS | OPNAV Aviation Training Management System |
| OFS | Operational Flight Software |

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LIST OF ACRONYMS

| | |
|-----------|---|
| 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 |
| OT&E | Operational Test and Evaluation |
| OTRR | Operational Test Readiness Review |
| PAC | Pacific |
| PBL | Performance Based Logistics Implementation Plan |
| PC | Personal Computer |
| PCMCIA | Personal Computer Memory Card International Association |
| PDA | Principal Development Agency |
| PDM | Program Document Management (system) |
| PEO | Program Executive Officer |
| PEST | Practical Explosive Ordnance Disposal System Trainer |
| PM | Point Mugu |
| PMA | Program Manager, Air |
| POI | Program of Instruction |
| PRM | Production Representative Model |
| PRMI | Production Representative Model Instrumented |
| PSMP | Product Support Management Plan |
| P/SS | Propulsion and Steering Section |
| QUAL/CERT | Qualification and Certification |
| RAIMD | Reserve Aviation Intermediate Maintenance Department |
| RFOU | Ready for Operational Use |
| RFT | Ready For Training |
| RMS | Raytheon Missile Systems |
| RSP | Render Safe Procedure |
| SAMP | Single Acquisition Management Plan |
| SCC | Support Equipment Configuration Change |
| SCS | Software Configuration Set |
| SEAM | Sidewinder Expanded Acquisition Mode |
| SEC | Support Equipment Change |
| SEAOPDET | Sea Operational Detachment |
| SELRES | Selective Reserve |

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LIST OF ACRONYMS

| | |
|-------------------|--|
| 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 |
| SLAM | Standoff Land Attack Missile |
| SMCR | Selected Marine Corps Reserve |
| SPETE | Special Purpose Electronic Test Equipment |
| SPTE | Special Purpose Test Equipment |
| SST | Ship Suitability Test |
| ST | Special Tools |
| STRKFTRWING | Strike Fighter Wing |
| SURFLANTAVORD/MTT | Aviation Ordnance/Mobile Training Team, Naval Surface Forces, Atlantic |
| SWATSLANT | Strike Weapons and Tactics Atlantic |
| T&E | Test and Evaluation |
| T&R | Training and Readiness |
| TALD | Tactical Air Launched Decoy |
| TAR | Training and Active Reserve (USN) |
| TBD | To Be Determined |
| TD | Training Device |
| TEE | Training Effectiveness Evaluation |
| TEMP | Test and Evaluation Master Plan |
| TM | Torpedoman |
| TOFT | Tactics and Operational Flight Trainer |
| TPS | Test Program Set |
| TTCOR | Test, Training Conventional Ordnance Requirements |
| TTE | Technical Training Equipment |
| TYCOM | Type Commander |
| USAF | United States Air Force |
| USMC | United States Marine Corps |
| USN | United States Navy |
| VAQ | Electronic Attack Squadron |

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LIST OF ACRONYMS

| | |
|----------|--|
| VF | Fighter Squadron |
| VFA | Fighter Attack Squadron |
| VFC | Fighter Composite Squadron |
| VFMA(AW) | Marine Corps Fighter Attack Squadron (All Weather) |
| VMA | Marine Corps Attack Squadron |
| VMAQ | Marine Corps Electronic Attack Squadron |
| VMAT | Marine Corps Attack Training Squadron |
| VMFA | Marine Corps Fighter Attack Squadron |
| VMFAT | Marine Corps Fighter Attack Training Squadron |
| VX | Air Test and Evaluation Squadron |
| WSESRB | Weapons Systems Explosive Safety Review Board |
| WSO | Weapon Systems 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 Proposed AIM-9X NTSP dated January 2004. 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, testing of the AIM-9X on the F/A-18C/D and F/A-18E/F, as well as status of Low-Rate Initial Production, Fielding, and Initial Operational Capability.
- PART II Recalculated to depict current billet requirements of fleet support units through FY 08.
- PART III In addition to reflecting the changes mentioned above, this part has been updated by recalculating chargeable student billets through FY08.
- PART IV Updated to refine the training and training logistics support requirements to include F/A-18E/F 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.

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 is 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 provides full day and night capability, resistance to countermeasures, increased off-boresight angle acquisition and launch capability, increased maneuverability, and improved target acquisition over the 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 chosen the AIM-9X as their next short-range air-to-air missile. Among these countries are Switzerland, South Korea, and Poland.

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. The Naval Air Systems Command (NAVAIR) 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 D).

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

| <u>Test Phase</u> | <u>Period</u> |
|---|-----------------|
| 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 - May 02 |
| OT-IIB (OPEVAL) | Aug 02 - Aug 03 |

1. Developmental Test and Operational Test Not Completed

a. F/A-18C/D. The F/A-18C/D was the lead integration aircraft for the AIM-9X program. The AIM-9X T&E program completed OT-IIB Operational Evaluation (OPEVAL) testing in August 2003 and the OPEVAL Report was signed and released in December 2003.

b. F/A-18E/F. The F/A-18E/F is a follow-on integration platform for AIM-9X. Aircraft compatibility is the focus during follow-on integration because the missile has already been evaluated. Environmental and carrier suitability tests are complete, as well as Dynamic Stores Release and Advanced Weapons Laboratory (AWL) tests. One of four safe separation shots remains to be taken and captive carry assets are in place for the captive flights planned (three have been completed). A DT Live shot is planned in April 2004. For SCS H2E OPEVAL, VX-9 is requesting AIM-9X assets for captive flights for the period April to June 2004, and a live shot against a BQM-34 is in planning. Navy leadership is seeking to accelerate the F/A-18E/F integration testing so that the AIM-9X is authorized for flight on the F/A-18E/F by the fourth quarter of 2004.

c. F/A-18A+. The F/A-18A+ is a follow-on integration platform for AIM-9X. Aircraft compatibility is the focus during follow-on integration because the missile has already been evaluated. A support contract with Raytheon has been put in place for the integration effort. Ground test with Raytheon test equipment were completed November 2003 and results are pending. Captive carry flights are planned (two were flown) and Captive Flight Test is complete. A Fleet flight clearance is estimated in May 2004.

2. Developmental Test Completed. All developmental testing for AIM-9X has been completed. Of the nineteen (19) missile firings that occurred in DT, eighteen (18) were scored as successful hits/kills.

3. Operational Test Completed

a. F/A-18C/D 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.

OT-IIA completed in July 2000 with a positive recommendation, stating that AIM-9X was potentially operational suitable (capability and logistically) and that the development program should continue and proceed toward OT-IIB, OPEVAL.

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 Aircrew 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 Production Representative Missile-Instrumented (PRMI). CCRP continued through September 2002 to test the reliability and maintainability of the AIM-9X. Captive carriage missions were flown using PRMI, while their condition was monitored by visual inspections and testing using the AIM-9X Built-In-Test (BIT)/Reprogrammer. CCRP was extended through August 2003 using LRIP Lot 1 missiles to continue and expand the AIM-9X data collection effort.

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 CNATT Unit 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 CNATT Unit 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.

(4) Operational Test – IIB. OT-IIB, better known as OPEVAL, commenced in August 2002, 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, performed OPEVAL under actual fleet conditions. It had been delayed due to grounding of the QF-4 target drones required for the various test shots. Twenty-two test shots were executed by VX-9 and the Air Force Test & Evaluation Command. Captive carry testing and data analysis continued through November 2003. OPTEVFOR provided an "End of Test" message in August 2003, signed, and released the OPEVAL Report in December 2003. The AIM-9X Weapon System received an assessment of "Operationally Effective but Not

Operationally Suitable” with a recommendation for fielding. Reliability (Mean Time Between Critical Captive Carry Failures) and Maintainability (Mean Time To Repair) were the source of the “Not Operationally Suitable,” which were present in OT and LRIP 1 missiles, but are remedied in LRIP 2 missiles.

In preparation for the start of OT-IIB, RMS provided AIM-9X F/A-18 Loading Procedures training to VX-9 squadron ordnance personnel and AIM-9X Theory of Operation and F/A-18 Aircrew Procedures training to VX-9 test pilots at NAWCWD China Lake on 4-5 February 2002. Additionally, RMS provided AIM-9X Familiarization, Safety, Unpacking, Inspection, Maintenance, BIT & Reprogramming, and Packing procedures to Weapons Department (G1 and G3) ordnance personnel aboard the USS Nimitz, CVN-68, on 28-29 May 2002. Instructors from CNATT Unit North Island assisted with the hands-on portion.

b. F/A-18E/F Integration. The F/A-18E/F is a follow-on integration platform for AIM-9X. Carrier suitability tests were completed in April 2003. Environmental qualification and testing were completed in June 2003. Dynamic Stores Release tests were completed in July 2003. Three safe separation shots were successfully completed; one more is planned. Captive carry assets are in place for the captive flights planned and three have been completed. Navy leadership is seeking to accelerate the F/A-18E/F integration testing so that the AIM-9X is authorized for flight on the F/A-18E/F by the third quarter of 2004.

c. F/A-18A+. The F/A-18A+ is a follow-on integration platform for AIM-9X. Ground test with Raytheon test equipment were completed November 2003 and results are pending. Captive carry flights are planned (two were flown) and Captive Flight Test is complete. A Fleet flight clearance is estimated in May 2004.

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 supplied these components to RMS during the E&MD and LRIP 1 and 2 phases to build AIM-9X configurations, but new production MK36 rocket motors will be procured specifically for AIM-9X (without AIM-9M wing ribs). Starting with Lot 3, the AIM-9X will use a new production rocket motor called the MK36 Mod 9X. It will have the same rocket motor fill but will have the Control Actuation System (CAS) incorporated. New production rocket motors were determined to be cheaper than modification of MK36 Mod 11 motors. Because of the AIM-9X production quantities/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 hangers, 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, and 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.

- **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. For lots 1 and 2, 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. Specifically, the modifications 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. With the AIM-9X modifications, the Mk 36 Mod 11 rocket motor is re-designated Mk 139 Mod 0. Two electrical contact 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. With the Mk 139 Mod 0 rocket motor, the AIM-9X P/SS is designated the WPU-17/B. Starting with Lot 3, the AIM-9X will use a new production rocket motor, the Mk 139 Mod 1. It incorporates the changes made to the Mk 36 Mod 11 to create the Mk 139 Mod 0, eliminating the need to retrofit/modify Mk 36 Mod 11 assets. With the Mk 139 Mod 1 rocket motor, the AIM-9X P/SS is designated the WPU-17A/B. AUR tactical and live fire missiles using the different P/SS can be identified by their part number and National Stock Number (NSN).

(1) Forward Hanger/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 interfaces 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 cruciform 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/stencil.

(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 can 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 harness cover is made of a fibrite phenolic material, while the aft harness cover is made of stainless steel. Both 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

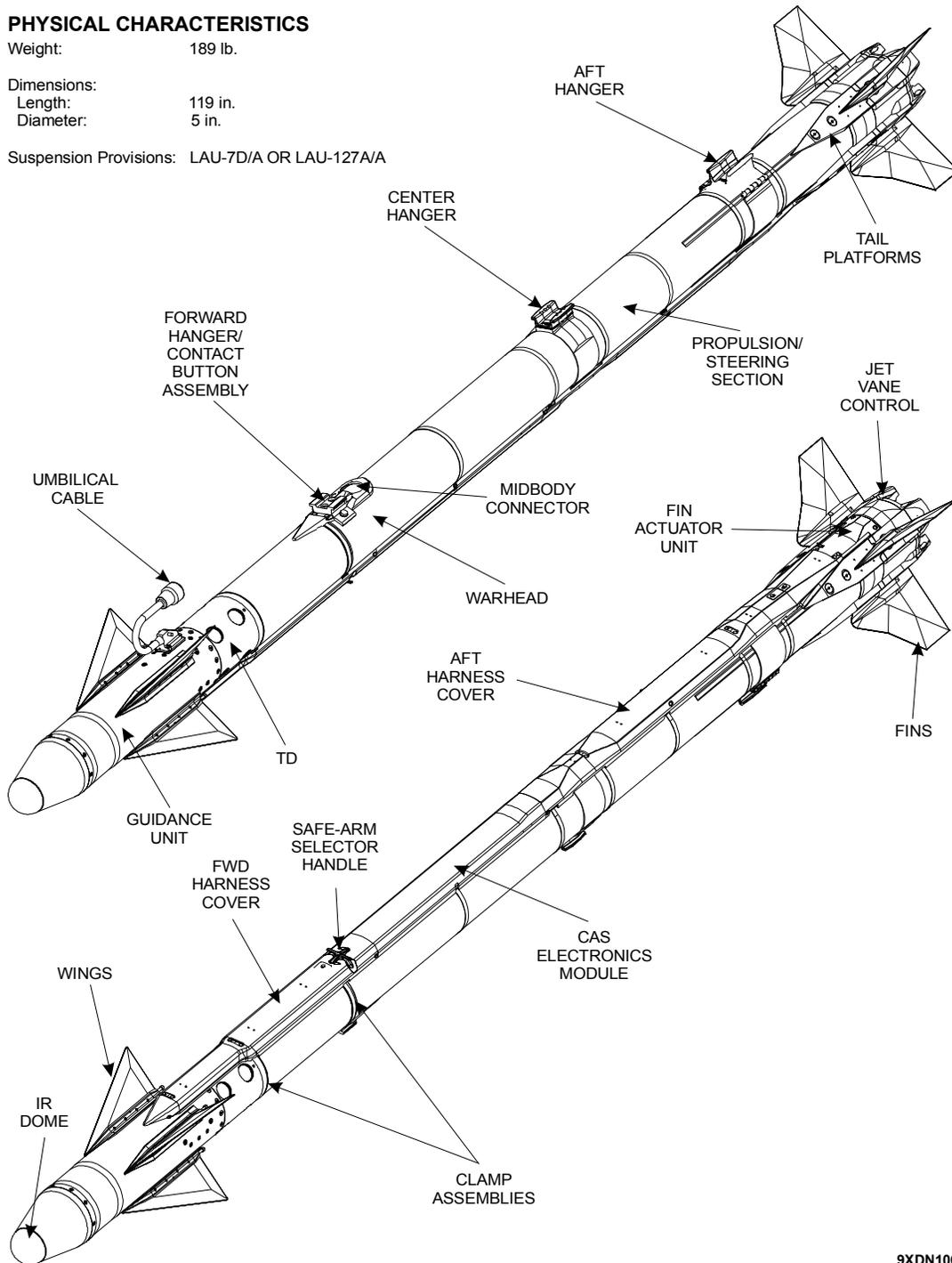
fixture for proper assembly at the factory. The forward and aft covers possess various cutouts for access to the Safe and Arm Selector Handle and marmon clamps.

2. Physical Description. 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



9XDN106

Figure I-1. AIM-9X AUR Missile

3. New Development Introduction. Early operational fielding of the AIM-9X missile began in the third quarter of FY03 at MCAS Iwakuni followed by Carrier Air Wing (CVW)-14

at NAS Lemoore, CVW-5 at NAS Atsugi in FY04, and CVW-3 at NAS Oceana and MCAS Beaufort. Initial Operational Capability (IOC) was attained in February 2004 by VMFA-212 at MCAS Iwakuni. Low-Rate Initial Production (LRIP) All-Up-Round (AUR) missile deliveries began in third quarter of FY02 and continue through FY06, when Full-Rate Production deliveries begin.

4. Significant Interfaces

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

- F/A-18C/D (complete),
- F/A-18E/F (in-process),
- F/A-18A+ (in-process),
- F-15C/D (complete),
- F-15E (in-process),
- F-16C/D (in-process), and
- F-22 (TBD).

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

The AIM-9X has been integrated with the Joint Helmet Mounted Cueing System (JHMCS). JHMCS includes a helmet-mounted display and the capability to cue and verify cueing of high off-boresight sensors and weapons. This missile-helmet combination provides 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 is achieved through the integrated combination of the AIM-9X missile, the JHMCS, and the aircraft. JHMCS has been integrated on F/A-18E/F, F-15C/D, and F-16C/D aircraft and is also planned for the F/A-18C/D aircraft.

The lead integration platform for the USN and United States Marine Corps (USMC) was the F/A-18C/D. The primary load configuration for AIM-9X is on the wingtip station. F/A-18C/D aircraft 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 was 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. ECP 582 was approved and funded 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 began in August 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 AN/AWM-103 is fielded in FY04/05. When the AN/AWM-103 is fielded, 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) must be replaced. With these modifications, it is designated the LAU-7D/A. The LAU-7D/A drives 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 was developed jointly by PMA-201, who manages the LAU-7D/A, and PMA-259. The ECP was approved and funded 178 LAU-7D/A kits. The ECP for CRALTS was developed jointly by PMA-259 and PMA-260, who manages CRALTS. The ECP was approved and funded 270 CRALTS kits.

(2) LAU-127A/A. The LAU-127A/A guided missile launcher will be used on the F/A-18E/F wing tip to carry AIM-9X. 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 LAU-127A/A 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.

e. **CNU-644/E and CNU-645/E.** The CNU-644/E can store two sets of AIM-9X wings (eight total), while the CNU-645/E can store two sets of AIM-9X fins (eight total). They are made up of a standard ammunition container with appropriate dunnage installed. These containers have been 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 missile wings and fins are made of titanium. Also, the AIM-9X missile uses its 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 employ AIM-9X during air-to-air combat missions against short-range threat aircraft. The AIM-9X missile is launched from F/A-18 aircraft for USN and USMC operations, and consequently it will be stowed on deployed USN aircraft carriers as well as at forward deployed sites.

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 slaving 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 even beyond radar gimbal limits. 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). 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, while AOs with NEC 8341 and 8841 perform organizational-level maintenance for air-launched weapons on the F/A-18E/F model aircraft. These squadron AOs are part of Work Center 230. AIM-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 F/A-18 squadrons, Aviation Electronics Technicians (ATs) perform aircraft weapons release and control systems checks. ATs with NEC 8342 and 8842 perform weapons release and control systems checks for air-launched weapons on the F/A-18A/B/C/D aircraft, while ATs with NEC 8341 and 8841 perform weapons release and control systems checks for air-launched weapons on the F/A-18E/F 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.

(2) Marine Corps - 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 is accomplished ashore and afloat. Station Weapons personnel perform AIM-9X and CATM-9X intermediate-level maintenance tasks ashore on Naval Air Stations (NAS). Weapons Department personnel (G3 Division) 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 missiles 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 aboard aircraft carriers using the AN/GYQ-79 CMBRE has been approved by the Weapons Systems Explosive Safety Review Board (WSESRB). The currently-fielded AN/GYQ-79 CMBRE, 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 is 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 - 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 is 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,
- 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.

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. Interim supply support was not required because the LRIP 1 spares had been procured and placed in the supply system prior to initial fielding. Material Support Date (MSD), the date when organic supply support capability is established, is expected to be achieved in June 2004.

e. Life Cycle Maintenance 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. The AIM-9X Product Support Management Plan (PSMP) is a Joint USN/USAF document that satisfies the requirements set forth in AFPD 20-5, AFI 63-107, and the Department of the Navy Performance Based Logistics Implementation Plan (PBL). It superseded the ALSP, and essentially is an update to it, retaining the document number MS-371. The PSMP revision A was approved December 2001. The PSMP revision B was updated and approved in August 2003 in preparation for the LRIP Lot 4 decision in September 2003 and the Milestone III decision in May 2004.

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 Systems Officer (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-18 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.

a. Organizational-level Maintenance. Loading an AIM-9X or a CATM-9X requires five AOs. One load crew (five USN AOs with NEC 8341/8342/8841/8842 or five USMC AOs with MOS 6531) can perform the 1139 CATM-9X upload-download cycles per year for an F/A-18 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-18 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, is the responsibility of RMS. This maintenance is supported through RMS warranty and repair contracts for out-of-warranty missiles. RMS is 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-18 community with NECs 8341, 8342, 8841, 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 Center for Naval Aviation Technical Training (CNATT) schools, provided that 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 NAVWPNTSTRON, VX-9, USS Nimitz, military instructors, and Naval Air Systems Team (NAST) personnel prior to the start of DT-IIB, OT-IIA, CCRP, and OT-IIB phases. Training included 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 were used to develop Render Safe Procedures (RSPs) for the AIM-9X and documented in the 60-series publications. The RSPs are 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 CNATT Unit (CNATTU) 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. RMS and NAST personnel, including Fleet Weapons Support Team (FWST) personnel, 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 has been provided to USN and USMC instructors prior to IOC, as well as to squadron personnel and ship's company prior to carrier deployments. See III.A.1 for more information on initial training completed and scheduled. Early initial fielding began in the third quarter of FY03 at MCAS Iwakuni, followed by CVW-14 at NAS Lemoore, CVW-5 at NAS Atsugi in FY04 and CVW-3 at NAS Oceana. USN and USMC instructors use the training curricula, training aids, and TDs and incorporate them into existing follow-on courses. The organizations that have received initial training are:

- AO "A" School Class A1, NAS Pensacola
- Aviation Ordnanceman Officer Career Progression (AOOCP) School, Pensacola, Florida
- CVW-14 (Fighter Attack Squadron (VFA)-25 and VFA-113), NAS Lemoore
- Marine Aviation Weapons and Tactics Squadron One (MAWTS-1), MCAS Yuma, Arizona
- Marine Fighter Attack Squadron (VMFA)-212, MCAS Iwakuni
- Marine Fighter Attack Training Squadron (VMFAT)-101, MCAS Miramar (training package only)
- MTU 4030 CNATT Detachment (DET) Mayport
- MTU 4032 CNATTU Norfolk
- MTU 4033 CNATTU North Island
- MTU 4034 CNATT Marine Unit (CNATT MARU) Cherry Point
- MTU 4035 CNATTU Whidbey Island
- Naval Airborne Weapons Maintenance Unit (NAWMU) One, Guam

- Naval Strike and Air Warfare Center (NSAWC), NAS Fallon
- Strike Fighter Weapons School, Atlantic (SFWSL), NAS Oceana
- Strike Fighter Weapons School, Pacific (SFWSP), NAS Lemoore
- VFA-106, NAS Oceana, Virginia (training package only)

- VFA-122, NAS Lemoore, California (training package only)
- VFA-125, NAS Lemoore, California (training package only)

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 have been updated to include AIM-9X information. Follow-on training for the AIM-9X is available as part of courses taught at the FRS, CNATT MTUs, NSAWC, and Strike Fighter Weapons Schools (SFWS). The addition of AIM-9X material did 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 (NATM-9X) are required for live-fire exercises, which are part of the annual Test, Training Conventional Ordnance Requirements (TTCOR). TTCOR were previously listed as Non-Nuclear Ordnance Requirements (NNOR) and 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, which is commonly referred to as the “dome trainer.” F/A-18C/D WTTs are located at NAS Lemoore, NAS Oceana, MCAS Miramar, and MCAS Beaufort. They are presently concurrent with SCS 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 Navy WTT are planned to be converted to F/A-18F trainers or retired, while the Marine Corps are seeking to update their WTT to SCS 17C and 19C.

- **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. F/A-18C/D TOFTs are located at NAS Lemoore, NAS Oceana, and NAS Atsugi. They are configured with SCS 13C, but are being updated to SCS 17C. 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.

- **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 FA18C/D Aircrew Interactive Courseware (ICW). For detailed information on AIM-9X ICW refer to element IV.B.2. Additional related aids include the Raytheon AIM-9X Ready Room Tool (limited distribution) and the Joint Air-to-Air Model (JAAM) version 3.0.

- **AIM-9X FA-18C/D Aircrew ICW.** AIM-9X FA-18C/D Aircrew ICW is a component of the Strike Fighter Weapons and Tactics (SFWT) curricula, and is 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 is 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 has been developed for the SFTS by NSAWC, PMA205 PMA259, along with Air Force participation for F-15C content. A Beta version was released in March 2003, and a final was released in April 2004. A subsequent update is planned to include a module on FA-18E/F integration.

(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-18 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 | Sep 03 |
| D/E-2A-0602 | F/A-18 Fleet Replacement Pilot Category 2A | Sep 03 |
| D/E-2A-0604 | F/A-18 Fleet Replacement Pilot Category 3A | Sep 03 |
| D/E-2A-0606 | F/A-18 Fleet Replacement Pilot Category 4 | Sep 03 |
| None | F/A-18 Strike Fighter Advanced Readiness Program | Sep 03 |
| None | F/A-18 Strike Fighter Weapons Employment | Sep 03 |

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

(2) Initial Skills - Maintenance. The AO “A1” School at NAS Pensacola, Florida provides 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 intermediate-level maintenance training purposes. The DATM-9X is designed for ground training use only, and is not certified for flight. For the Navy and Marine Corps, the DATM is used in the training/schoolhouse environment and is repaired locally. Remove and replace components that are shared with the tactical AIM-9X, e.g., wings, fins, etc., are 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 is 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 or be replaced by LAU-7D/A assets.

(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 require modification to the LAU-7D/A configuration or to be replaced by LAU-7D/A assets. Refer to I.G.4.b 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.

- **CNU-644/E and CNU-645/E.** The AIM-9X wing and fin containers are required to teach and practice unpacking/packing wings and fins. Refer to I.G.4.d for more information.

(c) **Courses.** AIM-9X source material has been incorporated into the following courses with minimal impact. The addition of AIM-9X material did 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 required AIM-9X data. The applicable Human Performance Readiness Review (HPRR) for these courses is the AO “A1” School HPRR.

Table I-3. Initial Skills - Maintenance Courses

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

(3) **Organizational-level Maintenance.** O-level Maintenance personnel are trained at the appropriate SFWS (LANT/PAC) for F/A-18 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.** TD required for follow-on and proficiency training include:

- **CATM-9X.** The CATM-9X is used at SFWS and F/A-18 squadrons. It is used during Conventional Weapons Technical Proficiency Inspection (CWTPI), as well as during normal F/A-18 squadron operations. It satisfies all loading and handling training requirements because of its capability to perform post-load BIT.

(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 require modification to the LAU-7D/A configuration or to be replaced by LAU-7D/A assets. 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 require modification to the 74D750051-1007 configuration. The modified

AN/AWM-100 is planned to support AIM-9X IOC until the AN/AWM-103 is fielded. When the AN/AWM-103 is fielded, this NTSP will be updated accordingly. Refer to I.G.4.a for more information.

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

Table I-4. Organizational-level Maintenance Courses

| COURSE NUMBER | COURSE PROVIDER | COURSE TITLE | AIM-9X RFT DATE |
|----------------------|------------------------|---|------------------------|
| D-646-0640 | SFWSLANT | F/A-18 Conventional Weapons Loading | Sep 03 |
| D-646-0647 | SFWSLANT | F/A-18 Conventional Release System Test | Sep 03 |
| E-646-0640 | SFWSPAC | F/A-18 Conventional Weapons Loading | Sep 03 |
| E-646-0647 | SFWSPAC | F/A-18 Conventional Release System Test | Sep 03 |

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

(a) Training Devices. TD required for follow-on and proficiency training 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 intermediate-level maintenance training purposes. The DATM-9X is designed for ground training use only, and it is not certified for flight. For the Navy and Marine Corps, the DATM is used in the training/schoolhouse environment and is repaired locally. Remove and replace components that are shared with the tactical AIM-9X, e.g., wings, fins, etc., are 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.

- **CNU-644/E and CNU-645/E.** The AIM-9X wing and fin containers are required to teach and practice unpacking/packing wings and fins during remove and replace 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 (TTU-574/E24A) are needed to teach and practice AIM-9X BIT/reprogramming operations. The AIM-9X TPS is commonly referred to as “Box 4” because it supplements the three boxes that are used to ship and store CMBRE. Additionally, training software is available that simulates the AIM-9X Munitions Application Program (MAP) for training use (see AIM-9X CMBRE-Embedded Training under Training Aids). 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 second deck forward and aft transfer areas and the G-3 second deck missile reprogramming forward compartment. 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. The ASX-315 is not authorized for tactical AIM-9X and CATM-9X BIT/reprogramming because the 3-phase power that it supplies is not rated to the required 115 Vac. The ASX-315 was chosen for the schoolhouse environment because it does not require 3-phase input power, its controls are nearly identical to the ASX-345, and power is not applied to the DATM-9X during BIT/reprogramming training when using the CMBRE-Embedded Training PC card.

- **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 require modification to the LAU-7D/A configuration or to be replaced by LAU-7D/A assets. 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 have completed Support Equipment Configuration Change (SCC) 3070 that modifies the internal software and are in the process of implementing Support Equipment Change (SEC) 5573 to modify the W28 cable to the appropriate configuration. Refer to I.G.4.b for more information.

(c) Training Aids. Training aids required for follow-on and proficiency training include the AIM-9X Maintenance ICW and AIM-9X CMBRE-Embedded Training PC Cards. For detailed information on training aids, refer to element IV.B.2.

- **AIM-9X Maintenance ICW.** The AIM-9X Maintenance ICW is a self-paced, stand-alone training application that provides familiarization on AIM-9X maintenance tasks. These tasks include missile BIT, reprogramming, and remove/replace component procedures.

- **AIM-9X CMBRE-Embedded Training.** The AIM-9X Munitions Application Program (MAP) is the software that resides on a PC card and is used by CMBRE to BIT/reprogram tactical AIM-9X assets. The PC card also contains the AIM-9X Operational Flight Software (OFS) and is classified. To overcome security and power limitations in the schoolhouse environment, PMA 259 and PMA 205 contracted RMS to develop a Training MAP that does not contain the classified AIM-9X OFS, that simulates the tactical AIM-9X MAP, and that does not apply power to the test asset. The result is the AIM-9X “Training” MAP, which is unclassified, resides on a PC card and it is used with CMBRE and the DATM-9X to teach and practice AIM-9X BIT/reprogramming procedures. Additionally, instructors can insert simulated faults to teach troubleshooting procedures. An accompanying Maintenance Data Log PC card is provided, similar to the tactical AIM-9X, for added realism.

(d) Courses. The following table lists intermediate-level maintenance training courses that have AIM-9X source material incorporated. Detailed listings for these courses follow the table. Course updates were based on incorporating the RMS training materials used for DT/OT training, edited and reformatted to fit within the existing course length and format. The addition of the AIM-9X training materials did not change existing student throughput or chargeable student billets. For detailed information, refer to element IV.A.2. The applicable HPRRs for these courses are the 700/900 Division HPRRs – 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 | September 03 |
| C-646-3105 | Aviation Ordnance Intermediate Maintenance Technician | September 03 |
| C-646-3118 | Strike Armament Systems Intermediate Maintenance | September 03 |
| C-646-4108 | Air Launched Weapons Ordnance Supervisor | September 03 |
| C-646-4109 | Weapons Department General Aviation Ordnance | September 03 |

| | |
|---------------------|---|
| Title | Air Launched Guided Missiles Intermediate Maintenance |
| CIN | C-122-3111 (part of D/E-646-7007) |
| Model Manager. | MTU 4035, CNATTU NAS Whidbey Island |
| Description..... | This course provides training to the first tour Aviation Ordnancemen, Gunner's Mates and Torpedoman's Mates, including: <ul style="list-style-type: none"> • Basic theory • Safety precautions • Technical publications • Missile reporting procedures <p>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.</p> |
| Locations | MTU 4030, CNATT DET, Naval Station (NS) Mayport MTU 4032, CNATTU, NAS Norfolk MTU 4033, CNATTU, NAS North Island MTU 4035, CNATTU, NAS Whidbey Island |
| Length..... | 11 days |
| RFT date | Currently available |
| Skill identifier... | AO 6801 |
| TD/TTE | DATM-9X, AN/GYQ-79, TTU-574/E24A, ASX-315, CNU-609/E, CNU-644/E, CNU-645/E |
| Prerequisite | AO, GM, 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, CNATT MARU MCAS Cherry Point, North Carolina |
| Description..... | This course provides training to USMC ordnance personnel, including: <ul style="list-style-type: none"> • Basic theory • Safety precautions • Technical publications • Missile/launcher reporting procedures <p>Upon completion, the student will have sufficient knowledge/theory to be able to work on ordnance/armament in the MALS environment.</p> |
| Locations | MTU-4034 CNATT MARU MCAS Cherry Point, North Carolina |
| Length..... | 75 days |
| RFT date | Currently available |
| Skill identifier... | MOS 6541 |
| TD/TTE | DATM-9X, AN/GYQ-79, TTU-574/E24A, ASX-315, CNU-609/E, CNU-644/E, CNU-645/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, CNATTU, NAS North Island |
| Description..... | This course provides training to Aviation Ordnance Technicians, including: <ul style="list-style-type: none"> • 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 <p>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.</p> |
| Locations | MTU 4032, CNATTU, NAS Norfolk MTU 4033, CNATTU, NAS North Island |
| Length..... | 65 days |
| RFT date | Currently available |
| 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, CNATTU, NAS Norfolk |
| Description..... | This course provides training to the second tour Aviation Ordnancemen, including: <ul style="list-style-type: none"> • 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 Missiles <p>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.</p> |
| Locations | MTU 4030, CNATT DET, NS Mayport MTU 4032, CNATTU, NAS Norfolk MTU 4033, CNATTU, NAS North Island MTU 4035, CNATTU, NAS Whidbey Island |
| Length..... | 17 days |
| RFT date | Currently available |
| 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, CNATTU, NAS North Island |
| Description..... | This course provides training to the first tour Aviation Ordnancemen, Gunner's Mates and Torpedoman's Mates, including: <ul style="list-style-type: none"> • 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 <p>Upon completion of this course, the Aviation Ordnanceman assigned to Shipboard, Shore, 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 ammunition 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.</p> |
| Locations | MTU 4030, CNATT DET, NS Mayport MTU 4032, CNATTU, NAS Norfolk MTU 4033, CNATTU, NAS North Island MTU 4035, CNATTU, NAS Whidbey Island |
| Length..... | 10 days |
| RFT date | Currently available |
| Skill identifier... | N/A |
| TD..... | DATM-9X, CNU-609/E |
| Prerequisite | AO, GM, 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.

- **Inert Telemetry Section.** Although not required, at the request of the EOD School Raytheon and PMA-259 were able to supply an inert, declassified telemetry section.

(b) Courses. AIM-9X is taught in the following EOD training courses. The AIM-9X RSPs have been incorporated in these courses with minimal impact. The AIM-9X training material did 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 8841 | F/A-18E/F Armament System Organizational Apprentice Maintenance Technician | Figure I-2 |
| AO 8341 | F/A-18E/F System Organizational Maintenance Technician | Figure I-2 |
| AO 8842 | F/A-18 Armament System Organizational Apprentice Maintenance Technician | Figure I-3 |
| AO 8342 | F/A-18 System Organizational Maintenance Technician | Figure I-3 |
| AT 8842 | F/A-18 Armament System Organizational Apprentice Maintenance Technician | Figure I-4 |
| AT 8342 | F/A-18 System Organizational Maintenance Technician | Figure I-4 |
| 6531 | Aircraft Ordnance Technician (F/A-18) | Figure I-5 |
| 6541 | Aviation Ordnance Intermediate Maintenance Technician | Figure I-6 |
| AO 6801 | Air Launched Weapons Technician | Figure I-7 |
| AO 6802 | Strike Intermediate Armament Maintenceman | Figure I-8 |

d. Training Pipelines. New training tracks were not 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 did 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.

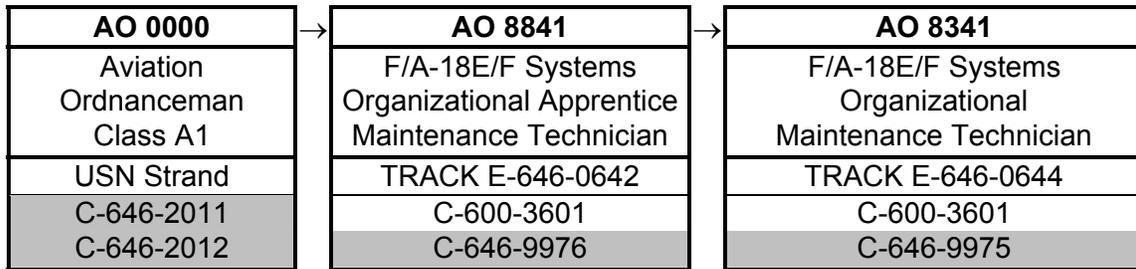


Figure I-2 USN F/A-18E/F Systems Organizational Maintenance Technician Career Progression

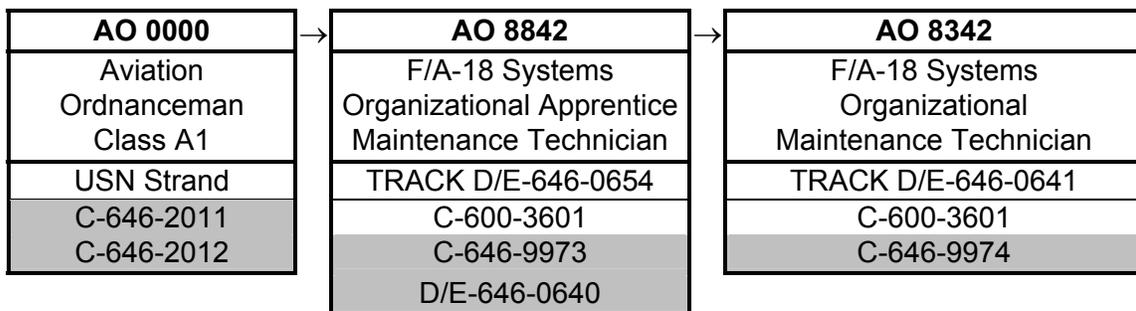


Figure I-3 USN F/A-18A/B/C/D Systems Organizational Maintenance Technician Career Progression

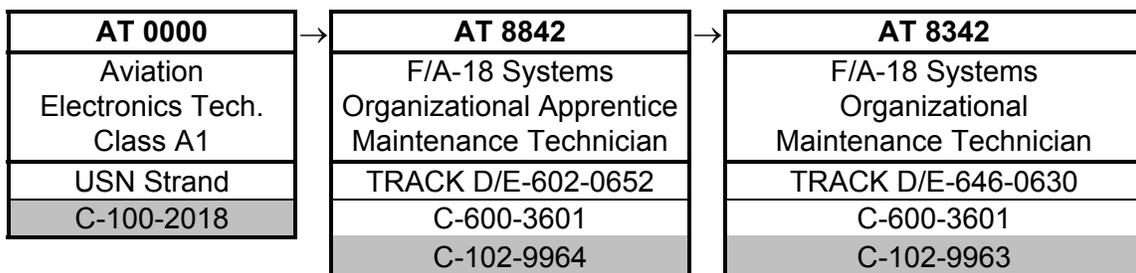


Figure I-4 F/A-18A/B/C/D Aviation Electronics Technician Systems Organizational Maintenance Career Progression

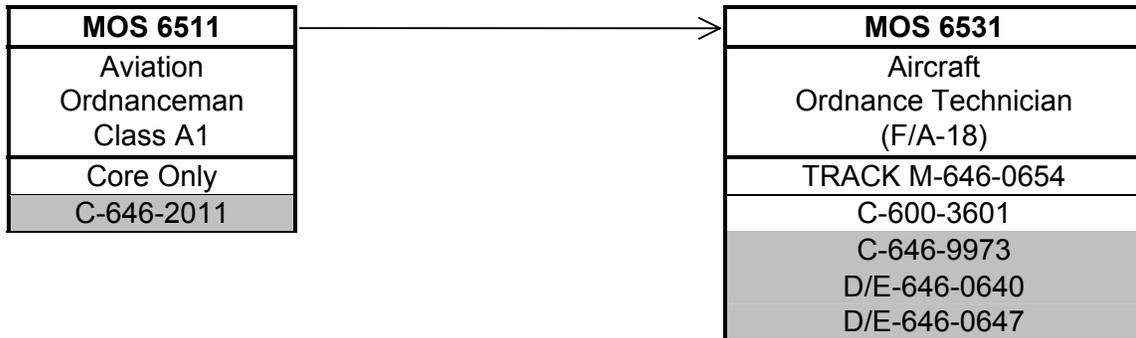


Figure I-5 USMC F/A-18 Aircraft Ordnance Technician Career Progression

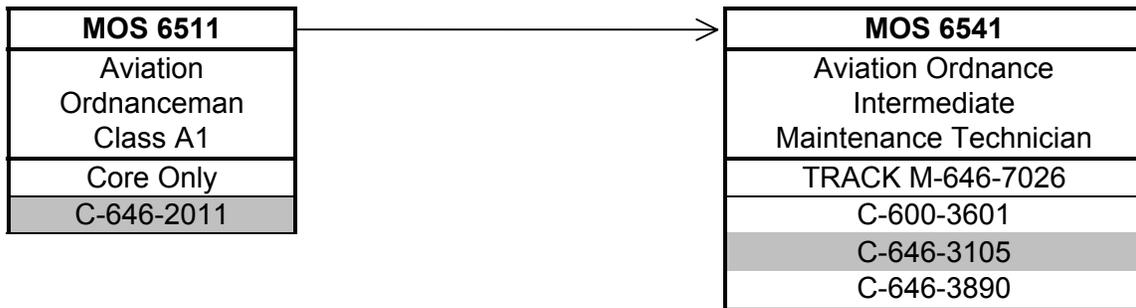


Figure I-6 Aviation Ordnance Intermediate Maintenance Technician Career Progression

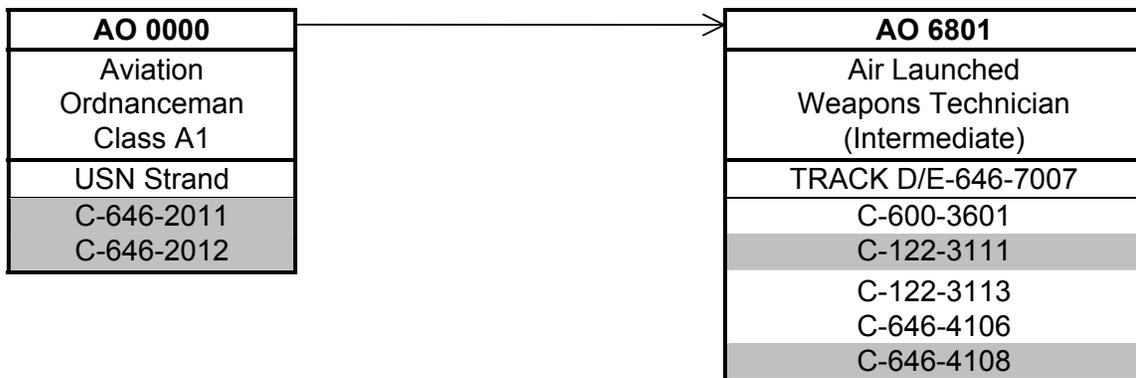


Figure I-7 Air Launched Weapons Technician Career Progression



Figure I-8 Strike Intermediate Armament Maintnanceman Career Progression

e. Training Effectiveness Evaluations. An individual Training Effectiveness Evaluation (TEE) plan is not required for Sidewinder AIM-9X courses. For air-launched weapons, the TEE is addressed by each user community as follows.

(1) Aircrew/pilot Training. The Strike Fighter Training Program (SFTP) (see paragraph I.1.c) drives training and readiness for aircrew/pilot weapons employment. Within this program, various means are used to evaluate training effectiveness including events from the Training & Readiness (T&R) matrix. These events include Sidewinder employment, both captive carry and live fire, and are used to evaluate the combat readiness of aircrew, squadron and air wing. See the SFTP NTSP, N88-NTSP-A-50-9906, for more information. The training effectiveness of Sidewinder employment is further evaluated during Fleet and Joint-Service exercises, e.g., Marine Corps Combat Readiness Evaluation (see paragraph I.3.c), Joint Training Exercise (JTX), etc. Ultimately, when significant training deficiencies are identified, they are communicated at the annual Naval Aviation Training Systems Advisory Group (NATSAG) meetings and prioritized.

(2) Squadron/Organizational-level Maintenance. AOs at the organizational-level use several training effectiveness tools. The first tool is the Conventional Weapon Technical Proficiency Inspection (CWTPI) (see paragraph I.3.b). These inspections evaluate how well the individual, load crew, and squadron perform weapon loading. The second tool is the Explosive Handling Qualification and Certification Program (see paragraph I.3.d). The program is implemented 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). Ultimately, the Maintenance Training Improvement Program (MTIP) (see paragraph I.1.a), Marine Aviation Training Management Evaluation Program (MATMEP) (see paragraph I.3.a), and Aviation Maintenance Training Continuum System (AMTCS) (see paragraph I.1.b) are used to collect data and identify training deficiencies.

(3) Weapons Department/Intermediate-level Maintenance. AOs at the intermediate-level use several training effectiveness tools. The first tool is the Explosive Handling Qualification and Certification Program (see paragraph I.3.d). The program is

implemented 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). Ultimately, the Aviation Maintenance Training Continuum System (AMTCS) (see paragraph I.1.b) is used to collect data and identify training deficiencies. Additionally, courses go through an annual Formal Course Review (FCR) and are further improved via the Training Feedback System.

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 were developed from training material incorporated into the organizational and intermediate level follow-on training courses. Suggested questions were provided with the initial training material packages, however, CNATT and SFWS ultimately control the final question bank content.

b. Aviation Maintenance Training Continuum System. AMTCS provides career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits are 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 (N00T), 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), has developed 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 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 every two years, 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. This contract has four LRIP lots; LRIP lots 1-4 have been exercised. Currently, RMS is making deliveries on the LRIP Lot 2 and 3 options.

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 I milestone decision and approved in August 2000. It was updated once again in July 2003 for the LRIP Lot 4 and Milestone III decisions and approved in May 2003. Refer to item I.M for other related documents.

b. Product Support Management Plan. The AIM-9X Sidewinder 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. The AIM-9X PSMP is a Joint USN/USAF document that satisfies the requirements set forth in AFPD 20-5, AFI 63-107, and the Department of the Navy Performance Based Logistics Implementation Plan (PBL). It superseded the ALSP, and essentially is an update to it, retaining the document number MS-371. The PSMP revision A was approved December 2001. The PSMP revision B was approved August 2003 in preparation for the LRIP Lot 4 decision in September 2003 and the Milestone III decision in May 2004.

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. Additionally, RMS has setup a secure website for accessing AIM-9X information and training data. The Naval Air Technical Data & Engineering Service Command (NATEC) website has all approved AIM-9X unclassified technical manuals available on its website for download.

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.

- **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 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 configuration of the AN/AWM-100, which requires modification to the 74D750051-1007 configuration. The necessary modification can be found in SEC 5578. The modified AN/AWM-100 will support AIM-9X IOC until the upcoming AN/AWM-103 is fielded. When the AN/AWM-103 is fielded, 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 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 and is unclassified. The AIM-9X CMBRE TPS is being 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 is 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 requires modification to test the LAU-7D/A launcher. The necessary software modification can be found in SCC 3070. The necessary hardware modification can be found in SEC 5573. 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 are being procured through the Naval Inventory Control Point. The MSD is projected to be attained in June 2004. Prior to MSD, LRIP spares were procured from RMS for all replaceable and consumable repair parts. Parts for the training missile configurations and the AIM-9X TPS include:

AUR/CATM/DATM

| <u>Part Number</u> | <u>Nomenclature</u> |
|--------------------|---------------------------|
| 2212601-4 | Harness Cover, Fwd |
| 2212612-1 | Cover, Mid body |
| 2212614-2 | Mid-Body Buffer |
| 2212618-2 | Standoff Harness Cover |
| 22126452-1 | Fin, Assembly |
| 2212649-1 | Wing, Fwd Assembly |
| 2212653-1 | Screw, Wing |
| 2212671-1 | Cable, Umbilical |
| 2212790-1 and -2 | Harness Cover, Aft |
| 2213080-3 | Safe-Arm Handle |
| 2215311-1 | Umbilical Cap, Protective |
| 2215362-1 | Screw, Fin |
| 2215365-1 | Fairing, Fwd Hangar |
| 2215441-2 and -3 | Cover, Dome |
| 2215442-1 | Cover, TD |
| 2215700 | Decal, Fwd Harness |
| 60464B20036 | Label, Safe-Arm |

CNU-609/E

| <u>Part Number</u> | <u>Nomenclature</u> |
|--------------------|---------------------|
| 48B7385 | Ring, Tiedown |
| A-A59561-40064 | Shim |
| AYC0006 | Kit, Latch Assembly |
| BP18WCL10 | Cap |
| BP20WOTL10 | Cap |
| MS17990C830 | Pin, Quick Release |
| MS9021-025 | Packing, Preformed |
| PEFV007 | Seal, Port Cover |
| PEFV008 | Seal, Rubber |
| PHBP001 | Screw |
| PPVV035 | Plate, Name |
| TA-356-40 | Window, Humidity |
| TA-356-HC-40 | Disc, Color Change |
| TA-770-10-10R | Relief Valve |

TTU-574/E24A – TPS

| <u>Part Number</u> | <u>Nomenclature</u> |
|--------------------|------------------------------------|
| 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

in August 2000. The only unique human systems integration challenge that faced the AIM-9X was integration with the JHMCS. The JHMCS required more pilot interaction in the search and acquisition of targets. However, this additional task was well within the current Navy, Marine Corps, and Air Force operator capability. The Joint Interface Control Working Group addressed this issue. Lessons learned in DT&E and OT&E evolved this facet of aircrew training. Missile status tones used in AIM-9X very closely approximate those used for AIM-9M and provide a simple transition for the aircrew; however, some tone modifications were 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 were necessary.

K. SCHEDULES

1. Schedule of Events

a. Installation and Delivery Schedules. The Defense Acquisition Board (DAB) gave approval to the AIM-9X LRIP Lot 1 decision in September 2000, Lots 2 and 3 in September 2001 and LRIP Lot 4 in September 2003. The DAB convened in May 2004 for the MS-III decision.

(1) AIM-9X. LRIP deliveries are scheduled for 21, 24, 27 and 30 months after each LRIP option is exercised. The LRIP Lot 1 option was approved in September 2000 and was awarded (to RMS) in November 2000. AIM-9X deliveries on LRIP Lot 1 and 2 are complete and LRIP Lot 3 deliveries are underway.

(2) Digital Wingtip Modification. The F/A-18C/D Digital Wingtip Modification, ECP 582, has been approved. Contracts for modification kits were awarded to Boeing and they began delivery/installation in August 2002. SEC 5578 includes the related changes to the AN/AWM-100.

(3) LAU-7D/A. The ECP for the LAU-7D/A has been approved and modifications are underway. Two changes, SEC 5573 and SCC 3070, include the related changes to the A/E37T-35 CRALTS. Initial quantity modification kits for the LAU-7D/A and A/E37T-35 CRALTS have been procured and installations began in July 2002. MTU 4033 received their LAU-7D/A in November 2003. The AO “A1” School and MTUs 4032 and 4034 are expected to receive their LAU-7D/A in May 2004.

(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. TTU-574/E24A deliveries on LRIP Lots 1 and 2 are complete. MTUs 4030, 4032, 4033, 4034, and 4035 have received their TTU-574/E24A.

(5) CNU-609/E. LRIP deliveries of AIM-9X, CATM-9X, and DATM-9X are made using the AUR container, CNU-609/E. The AO “A1” School and MTUs 4030, 4032, 4033, 4034 and 4035 have received their CNU-609/E with the delivery of their DATM-9X assets.

b. Ready For Operational Use Schedule. The AIM-9X is Ready For Operational Use (RFOU) by the operational activity upon receipt of AUR missiles. Normally, activities 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 FY03 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. Implementation of ECP 582 (Digital Wing Tip) on the F/A-18C/D aircraft is averaging 48 hours.

d. Foreign Military Sales and Other Source Delivery Schedule. Switzerland, Poland, and South Korea have begun the process of buying AIM-9X. As delivery schedules for these FMS cases become available, they will be included in this NTSP.

e. Training Device and Delivery Schedule. DATM, CEST, and PEST deliveries for LRIP Lot 1 and 2 are completed. CATM Lot 1 deliveries began in May 2002. 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.

| <u>TRAINING DEVICE</u> | <u>LRIP Lot 1</u> | <u>LRIP Lot 2</u> | <u>LRIP Lot 3</u> |
|------------------------|-------------------|-------------------|-------------------|
| 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 are being 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. CATM-9X LRIP Lot 1 and 2 deliveries are complete and LRIP Lot 3 deliveries are underway. 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 1092 CATM-9Xs represent an 86% asset readiness objective, for a

total of 1270 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 Lot 1, 2 and 3 deliveries are complete and have satisfied requirements for all schools and Inter-Deployment Training Cycle (IDTCs) activities. DATM-9X LRIP Lot 3 deliveries for the four Reserve squadrons were diverted to SFWSLANT and SFWSPAC (2 DATM-9X each) to support training and QUAL/CERT requirements until CATM-9X inventory grows sufficiently to support their requirement/allocation. 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 complete. 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 Weapons System NTSP | N88-NTSP-A-50-7703H/A | PMA265 | Approved Dec 01 |
| AIM-9X Single Acquisition Management Plan for the AIM-9X | No Number Assigned | PMA259 | Approved May 03 |
| Test and Evaluation Master Plan (TEMP) for AIM-9X Sidewinder Missile | 1412 Revision C | PMA259 | Approved Jul 00 |
| Test and Evaluation Master Plan (TEMP) for AIM-9X Sidewinder Missile | 1412 Revision D | PMA259 | In Signature Cycle |
| Advanced Sidewinder Missile AIM-9X Cost Analysis Requirements Document (CARD) | No Number Assigned | PMA259 | Approved Feb 04 |
| Navy and Air Force PSMP for Sidewinder AIM-9X | MS-371 Revision B | AIR-3.1.1L | Approved Aug 03 |
| AIM-9M-8 NTSP | N78-NTSP-A-50-8105C/A | PMA205 | Approved June 02 |
| Navy and Air Force ILSP for Sidewinder AIM-9M | ILSP MS-059 | AIR-3.1.1L | Approved Dec 93 |
| Strike Fighter Training Program NTSP | N88-NTSP-A-50-9906/A | PMA205 | Approved May 02 |

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-18 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: NAVAIR PMA259/PMA205, AIRPAC/AIRLANT

DATE: 04/2004

| ACTIVITY | UIC | PFYs | CFY04 | FY05 | FY06 | FY07 | FY08 |
|--------------------|-------------|------|-------|------|------|------|------|
| OPERATIONAL | NAVY | | | | | | |
| NAVWPNTSTRON CL | 39787 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAVWPNTSTRON PM | 39788 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAVSTKAIRSTRON | 39783 | 1 | 0 | 0 | 0 | 0 | 0 |
| VX-9 | 55646 | 1 | 0 | 0 | 0 | 0 | 0 |
| NSAWC N7 | 69190 | 1 | 0 | 0 | 0 | 0 | 0 |
| SFWSL | 47084 | 1 | 0 | 0 | 0 | 0 | 0 |
| SFWSP | 35185 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-106 | 09679 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-125 | 09485 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-15 | 09015 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-34 | 09070 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-37 | 09478 | 0 | 1 | 0 | 0 | 0 | 0 |
| VFA-83 | 09223 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-87 | 63922 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-105 | 65183 | 0 | 1 | 0 | 0 | 0 | 0 |
| VFA-131 | 63934 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-136 | 55141 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-82 | 09122 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-86 | 09943 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-127 | 08956 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-25 | 09637 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-94 | 09295 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-97 | 63923 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-113 | 09092 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-146 | 09063 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-147 | 63925 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-151 | 09558 | 0 | 1 | 0 | 0 | 0 | 0 |
| VFA-192 | 55179 | 0 | 1 | 0 | 0 | 0 | 0 |
| VFA-195 | 09706 | 0 | 1 | 0 | 0 | 0 | 0 |
| VFA-201 | 09309 | 0 | 0 | 0 | 1 | 0 | 0 |
| VFA-203 | 09030 | 0 | 0 | 0 | 1 | 0 | 0 |
| VFA-204 | 09032 | 0 | 0 | 0 | 1 | 0 | 0 |
| VFC-12 | 52994 | 0 | 0 | 0 | 1 | 0 | 0 |
| VFC-13 | 52995 | 0 | 0 | 0 | 1 | 0 | 0 |
| VFA-122 (E/F) | 09355 | 0 | 0 | 1 | 0 | 0 | 0 |
| SWATSLANT (E/F) | 47157 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-115 (E) | 09604 | 0 | 1 | 0 | 0 | 0 | 0 |
| VFA-14 (E) | 09084 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-41 (F) | 09774 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-102 (F) | 09717 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-137 (E) | 55142 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-2 (F) | 09113 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-22 (E) | 09561 | 0 | 0 | 1 | 0 | 0 | 0 |



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

SOURCE: NAVAIR PMA259/PMA205, AIRPAC/AIRLANT

DATE: 04/2004

| ACTIVITY | UIC | PFYs | CFY04 | FY05 | FY06 | FY07 | FY08 |
|---------------|-------|------|-------|------|------|------|------|
| VF-154 (F) | 09678 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-27 (E) | 65185 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-81 (E) | 09221 | 0 | 0 | 1 | 0 | 0 | 0 |
| VFA-103 (F) | 09718 | 0 | 0 | 1 | 0 | 0 | 0 |
| VF-211 | 09086 | 0 | 0 | 0 | 0 | 1 | 0 |
| VF-32 | 09053 | 0 | 0 | 0 | 0 | 1 | 0 |
| TOTAL: | | 11 | 6 | 25 | 5 | 2 | 0 |

| OPERATIONAL | USMC | | | | | | |
|-----------------------|-------|---|---|----|---|---|---|
| MAWTS-1 | 55167 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFAT-101 | 09965 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-115 | 09234 | 0 | 1 | 0 | 0 | 0 | 0 |
| VMFA-122 | 09407 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA-251 | 09241 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA-312 | 09253 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA (AW)-224 | 01224 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA (AW)-332 | 09501 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA (AW)-533 | 09193 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA-212 | 09434 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-232 | 09242 | 0 | 1 | 0 | 0 | 0 | 0 |
| VMFA-314 | 09230 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA-323 | 09235 | 0 | 1 | 0 | 0 | 0 | 0 |
| VMFA (AW)-121 | 09257 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA (AW)-225 | 09232 | 0 | 0 | 1 | 0 | 0 | 0 |
| VMFA (AW)-242 | 09668 | 0 | 0 | 1 | 0 | 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 | 1 | 0 | 0 | 0 | 0 |
| MALS Augment Miramar | 09116 | 1 | 0 | 0 | 0 | 0 | 0 |
| TOTAL: | | 4 | 4 | 10 | 4 | 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 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Fallon | 60495 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Lemoore | 63042 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Oceana | 60191 | 0 | 1 | 0 | 0 | 0 | 0 |
| NS Roosevelt Roads | 00389 | 0 | 0 | 1 | 0 | 0 | 0 |
| COMNAVAIRLANT | 57012 | 0 | 1 | 0 | 0 | 0 | 0 |
| CV-63 USS Kitty Hawk | 03363 | 0 | 1 | 0 | 0 | 0 | 0 |
| CV-64 USS Constellation | 03364 | 0 | 0 | 0 | 0 | 0 | 0 |
| CV-67 USS Kennedy | 03367 | 0 | 0 | 1 | 0 | 0 | 0 |
| CVN-65 USS Enterprise | 03365 | 0 | 0 | 1 | 0 | 0 | 0 |



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

SOURCE: NAVAIR PMA259/PMA205, AIRPAC/AIRLANT

DATE: 04/2004

| ACTIVITY | UIC | PFYs | CFY04 | FY05 | FY06 | FY07 | FY08 |
|-------------------------|-------------|------|-------|------|------|------|------|
| CVN-68 USS Nimitz | 03368 | 0 | 0 | 1 | 0 | 0 | 0 |
| CVN-69 USS Eisenhower | 03369 | 0 | 0 | 1 | 0 | 0 | 0 |
| CVN-70 USS Vinson | 20993 | 0 | 1 | 0 | 0 | 0 | 0 |
| CVN-71 USS Roosevelt | 21247 | 0 | 0 | 1 | 0 | 0 | 0 |
| CVN-72 USS Lincoln | 21297 | 0 | 1 | 0 | 0 | 0 | 0 |
| CVN-73 USS Washington | 21412 | 0 | 0 | 1 | 0 | 0 | 0 |
| CVN-74 USS Stennis | 21847 | 0 | 0 | 1 | 0 | 0 | 0 |
| CVN-75 USS Truman | 21853 | 0 | 1 | 0 | 0 | 0 | 0 |
| CVN-76 USS Reagan | 22178 | 0 | 0 | 0 | 1 | 0 | 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: | | 5 | 6 | 8 | 4 | 0 | 0 |
| FLEET SUPPORT | USMC | | | | | | |
| MAD China Lake | 67852 | 0 | 1 | 0 | 0 | 0 | 0 |
| MAD Patuxent River | 67356 | 0 | 1 | 0 | 0 | 0 | 0 |
| MALS-11 Miramar | 09111 | 1 | 0 | 0 | 0 | 0 | 0 |
| MALS-12 Iwakuni | 09377 | 1 | 0 | 0 | 0 | 0 | 0 |
| MALS-13 Yuma | 09041 | 0 | 1 | 0 | 0 | 0 | 0 |
| MALS-31 Beaufort | 09384 | 0 | 1 | 0 | 0 | 0 | 0 |
| MAG-41 Det B Fort Worth | 67241 | 0 | 0 | 0 | 1 | 0 | 0 |
| MAG-42 Marietta | 67236 | 0 | 0 | 0 | 1 | 0 | 0 |
| MAG-46 Miramar | 67244 | 0 | 0 | 0 | 1 | 0 | 0 |
| MASD Andrews | 04801 | 0 | 0 | 0 | 1 | 0 | 0 |
| TOTAL: | | 2 | 4 | 0 | 4 | 0 | 0 |

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETTS 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 | | |

¹All 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-FY05 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 ACTIVITIES¹

| 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 | | |
| VMFA-134 | 09365 | | | | | |
| USMC | | | 0 | 7 | | 6541 |
| AR | | | 0 | 3 | | 6541 |
| ACTIVITY TOTAL: | | | 0 | 10 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|--------------------------|-------|------------------|----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |



II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|------------------------|-------|------------------|----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |



II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|------------------------|-------|------------------|----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |



II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETTS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|------------------------|-------|------------------|-----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|------------------------------|-------------|------------------|----------------|-----|------------------|------------------------|
| 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-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 | | |
| 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 | | |

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETTS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|--|-------|------------------|-----------------|-----|------------------|------------------------|
| 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 | 22178 | | | | | |
| 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 | | |
| COMSTKFIGHTWINGLAN T 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 | | |



II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|---|-------|------------------|----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|-------------------------------|-------|------------------|----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|------------------------|-------|------------------|----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|--|-------------|------------------|----------------|-----|------------------|------------------------|
| 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 | | |
| 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 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

| ACTIVITY | UIC | PHASING INCR. | BILLETS OFF | ENL | DESIGN RATING | PNEC/SNEC PMOS/SMOS |
|----------------------------------|-------|------------------|----------------|-----|------------------|------------------------|
| MALS-12 Iwakuni | 09377 | | | | | |
| USMC | | | 0 | 44 | | 6541 |
| ACTIVITY TOTAL: | | | 0 | 44 | | |
| 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 | | |
| 2 nd MAW Cherry Point | 00201 | | | | | |
| USMC | | | 0 | 1 | | 6541 |
| ACTIVITY TOTAL: | | | 0 | 1 | | |
| 4 th 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 ACTIVITIES¹

| 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 | | |
| 1 st MAW Futenma | 00101 | | | | | |
| USMC | | | 0 | 1 | | 6541 |
| ACTIVITY TOTAL: | | | 0 | 1 | | |
| 3 rd 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 | | |
| MALSE Kaneohe | 02300 | | | | | |
| USMC | | | 0 | 4 | | 6541 |
| ACTIVITY TOTAL: | | | 0 | 4 | | |



II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

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

II.A.1.c. TOTAL BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES²

| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|---------------------------------|---------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| OPERATIONAL ACTIVITY – ACDCU | | | | | | | | | | | | | |
| 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 – ACDCU | | | | | | | | | | | | | |
| | 0812/6801 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6801 | 0 | 307 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 350 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 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: | | | | | | | | | | | | | |
| OPERATIONAL ACTIVITY – ACDCU | | | | | | | | | | | | | |
| | | 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 | | | | | | | | | | | | | |
| | | 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 |

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-FY05 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 ACTIVITIES²

| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|---------------------------------|---------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| FLEET SUPPORT ACTIVITY – ACDU | | | | | | | | | | | | | |
| | | 0 | 671 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 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: | | | | | | | | | | | | | |
| | ACDU | 0 | 671 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 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 REQUIREMENTS³

INSTRUCTOR BILLETS

| TRAINING ACTIVITY, LOCATION, UIC: | | MTU-4030 CNATT DET | | | | NS Mayport | | | | 66069 | | | |
|-----------------------------------|---------------------|--------------------|-----|-------|-----|------------|-----|------|-----|-------|-----|------|-----|
| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | 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 CNATTU | | | | NAS Norfolk | | | | 66046 | | | |
|-----------------------------------|---------------------|-----------------|-----|-------|-----|-------------|-----|------|-----|-------|-----|------|-----|
| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | 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 CNATTU | | | | NAS North Island | | | | 66065 | | | |
|-----------------------------------|---------------------|-----------------|-----|-------|-----|------------------|-----|------|-----|-------|-----|------|-----|
| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| ACDU | | | | | | | | | | | | | |
| AO | 6801/9502 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |

| TRAINING ACTIVITY, LOCATION, UIC: | | MTU-4034 CNATTMARU | | | | MCAS Cherry Point | | | | 66047 | | | |
|-----------------------------------|---------------------|--------------------|-----|-------|-----|-------------------|-----|------|-----|-------|-----|------|-----|
| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| USMC | | | | | | | | | | | | | |
| MOS | 6541 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 |

| TRAINING ACTIVITY, LOCATION, UIC: | | MTU-4035 CNATTU | | | | NAS Whidbey Island | | | | 66058 | | | |
|-----------------------------------|---------------------|-----------------|-----|-------|-----|--------------------|-----|------|-----|-------|-----|------|-----|
| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| ACDU | | | | | | | | | | | | | |
| AO | 6801/9502 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |

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 | | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|--|--------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| MTU 4030 CNATT DET, NS Mayport, 66069 | USN | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 |
| MTU 4032 CNATTU, NAS Norfolk, 66046 | USN | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 16 |
| MTU 4033 CNATTU, NAS North Island, 66065 | USN | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22 |
| MTU 4034, CNATTMARU MCAS Cherry Point, 66047 | USMC | 0 | 48 | 0 | 48 | 0 | 48 | 0 | 48 | 0 | 48 | 0 | 48 |
| MTU 4035 CNATTU, 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 |

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 BILLETS⁵

a. OFFICER - USN: NA

b. ENLISTED - USN:

| RATING | PNEC/SNEC | BILLET BASE | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|---|-----------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | 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 | 308 | +10 | 318 | 0 | 318 | 0 | 318 | 0 | 318 | 0 | 318 |
| 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 | 363 | +7 | 370 | 0 | 370 | 0 | 370 | 0 | 370 | 0 | 370 |
| 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 | | 689 | +17 | 706 | 0 | 706 | 0 | 706 | 0 | 706 | 0 | 706 |
| 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 BILLETS⁵

c. OFFICER - USMC: NA

b. ENLISTED - USMC:

| RATING | PMOS/SMOS | BILLET BASE | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|--|-----------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | 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 REQUIREMENTS⁶

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 | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|------------------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OF | ENL | OFF | ENL |
| MTU-4032 CNATTU, 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 | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|--------------------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OF | ENL | OFF | ENL |
| MTU-4030 CNATT DET, NS Mayport | | | | | | | | | | | | |
| | USN | ACDU-TAR | 0 | 72 | 0 | 72 | 0 | 72 | 0 | 72 | 0 | 72 |
| MTU-4032 CNATTU, 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 | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|-----------------------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OF | ENL | OFF | ENL |
| MTU-4033 CNATTU, 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 |

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 | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|----------------------|---|--------------------|-------|-----|------|-----|------|-----|---------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OF F | ENL | OFF | ENL |
| MTU-4033 | CNATTU, 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 | CNATTU, 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 | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|----------------------|----------------------------|--------------------|-------|-----|------|-----|------|-----|---------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OF F | ENL | OFF | ENL |
| MTU-4030 | CNATT DET, NS Mayport | | | | | | | | | | | |
| | USN | ACDU-TAR | 0 | 60 | 0 | 60 | 0 | 60 | 0 | 60 | 0 | 60 |
| MTU-4032 | CNATTU, NAS Norfolk | | | | | | | | | | | |
| | USN | ACDU-TAR | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 |
| MTU-4033 | CNATTU, NAS North Island | | | | | | | | | | | |
| | USN | ACDU-TAR | 0 | 72 | 0 | 72 | 0 | 72 | 0 | 72 | 0 | 72 |
| MTU-4035 | CNATTU, 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 | CFY04 | | FY05 | | FY06 | | FY07 | | FY08 | |
|----------------------|-----------------------------|-----------------|-------|-----|------|-----|------|-----|---------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OF F | ENL | OFF | ENL |
| MTU-4034, | CNATTMARU MCAS Cherry Point | | | | | | | | | | | |
| | USMC | USMC-AR | 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 |



ACTIVITY TOTAL:

| | | | | | | | | | | |
|--------------------|---|-----|---|-----|---|-----|---|-----|---|-----|
| MTU-4030 CNATT DET | 0 | 132 | 0 | 132 | 0 | 132 | 0 | 132 | 0 | 132 |
| MTU-4032 CNATTU | 0 | 150 | 0 | 151 | 0 | 150 | 0 | 150 | 0 | 150 |
| MTU-4033 CNATTU | 0 | 209 | 0 | 209 | 0 | 209 | 0 | 209 | 0 | 209 |
| MTU-4034 CNATTMARU | 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 |
| MTU-4035 CNATTU | 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 (when available)

| <u>LOCATION, UIC</u> | <u>DATE BEGIN</u> | <u>STUDENTS</u> | | | | <u>ACTIVITY DESTINATION</u> |
|--|-------------------|-----------------|------------|------------|------------|--|
| | | <u>OFF</u> | <u>ENL</u> | <u>CIV</u> | | |
| Boeing St. Louis, MO, NA | 15 SEP 98 | 11 | 0 | 4 | Input | (DT-IIB/C) NAWCWD, AWL, and NAWCAD |
| | | 0.09 | 0 | 0.01 | AOB | |
| | | 0.09 | 0 | 0.01 | Chargeable | |
| Boeing St. Louis, MO, NA | 14 JUL 99 | 5 | 0 | 0 | Input | (OT-IIA) VX-9 |
| | | 0.04 | 0 | 0 | AOB | |
| | | 0.04 | 0 | 0 | Chargeable | |
| VX-9, 55646, NAWS China Lake | 4 FEB 02 | 6 | 0 | 0 | Input | (OT-IIB) VX-9 |
| | | 0.05 | 0 | 0 | AOB | |
| | | 0.05 | 0 | 0 | Chargeable | |
| NSAWC (Topgun), 69190, NAS Lemoore | JUN 02 | 3 | 0 | 0 | Input | (NSAWC, (Topgun) |
| | | 0.03 | 0 | 0 | AOB | |
| | | 0.03 | 0 | 0 | Chargeable | |
| VMFA-212, 09434, MCAS Iwakuni | 7 APR 03 | 6 | 0 | 0 | Input | CVW-5 (VMFA-212) |
| | | 0.05 | 0 | 0 | AOB | |
| | | 0.05 | 0 | 0 | Chargeable | |
| SFWSP, 35185, NAS Lemoore | 15 JUL 03 | 20 | 0 | 0 | Input | SFWSP, CVW-14 (VFA-25, VFA-113) MAWTS-1 |
| | | 0.17 | 0 | 0 | AOB | |
| | | 0.17 | 0 | 0 | Chargeable | |
| VFA-192, 55179, VFA-195, 09706, NAS Atsugi (Instructor LT Thorson) | FEB 04 | 20 | 0 | 0 | Input | CVW-5 (VFA-192, VFA-195) |
| | | 0.17 | 0 | 0 | AOB | |
| | | 0.17 | 0 | 0 | Chargeable | |
| SFWSL, 47084, NAS Oceana (Topgun Instructor LT Robert Simone) | MAR 04 | 20 | 0 | 0 | Input | SFWSL, CVW-3 VFA-37,VFA-105-SFARP VFA-15,VFA-83, VFA-87, VFA-106 |
| | | 0.17 | 0 | 0 | AOB | |
| | | 0.17 | 0 | 0 | Chargeable | |
| MAG-31, 09131, MCAS Beaufort (MAWTS-1 Instructor Capt. Ed Rush) | MAY 04 | 20 | 0 | 0 | Input | MAG-31 VMFA-115 |
| | | 0.17 | 0 | 0 | AOB | |
| | | 0.17 | 0 | 0 | Chargeable | |



III.A.1. INITIAL TRAINING REQUIREMENTS

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

| <u>LOCATION, UIC</u> | <u>DATE BEGIN</u> | <u>STUDENTS</u> | | | | <u>ACTIVITY DESTINATION</u> |
|---|-------------------|-----------------|------------|------------|------------|--|
| | | <u>OFF</u> | <u>ENL</u> | <u>CIV</u> | | |
| NAVWPNTSTRON CL, 39787 | 30 JUN 98 | 0 | 7 | 0 | Input | (DT-IIB/C) NAWCWD CL and NAWCWD PM |
| | | 0 | 0.02 | 0 | AOB | |
| | | 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 | 4 FEB 02 | 0 | 12 | 0 | Input | (OT-IIB) VX-9, 55646 |
| | | 0 | 0.03 | 0 | AOB | |
| | | 0 | 0.03 | 0 | Chargeable | |
| VMFA-212, 09434, MCAS Iwakuni | 7 APR 03 | 0 | 12 | 3 | Input | CVW-5 (VMFA-212) |
| | | 0 | 0.03 | 0.01 | AOB | |
| | | 0 | 0.03 | 0.01 | Chargeable | |
| SFWSP, 35185, NAS Lemoore (VFA-25 09637, VFA-113 09092, (Also attending NATTC AO "A1" School, 63082) | 15 JUL 03 | 0 | 20 | 4 | Input | SFWSP, CVW-14 (VFA-25, VFA-113) NATTC AO "A1" School |
| | | 0 | 0.06 | 0.02 | AOB | |
| | | 0 | 0.06 | 0.02 | Chargeable | |
| VFA-192, 55179, VFA-195, 09706, NAS Atsugi | FEB 04 | 0 | 20 | 0 | Input | CVW-5 (VFA-192, VFA-195) |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |
| SFWSL, 47084, NAS Oceana (VFA-34 09070, VFA-83 09223) (SFWSL Instructor) | MAR 04 | 0 | 20 | 0 | Input | SFWSL, CVW-17 (VFA-34, VFA-83) |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |
| MAG-31, 09131, MCAS Beaufort (FWST Instructors Chris Parmalee & Glen Williams) | MAY 04 | 0 | 20 | 0 | Input | MAG-31 |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |



COURSE TITLE: AIM-9X and F/A-18C/D Digital Wing Tip Impacts
COURSE DEVELOPER: SMT
INSTRUCTOR: Tim Carroll
COURSE LENGTH: 1 day

| <u>LOCATION, UIC</u> | <u>DATE BEGIN</u> | <u>STUDENTS</u> | | | | <u>ACTIVITY DESTINATION</u> |
|---|-------------------|-----------------|------------|------------|------------|--|
| | | <u>OFF</u> | <u>ENL</u> | <u>CIV</u> | | |
| VX-9, 55646 | 4 FEB 02 | 0 | 12 | 0 | Input | (OT-IIB) VX-9, 55646 |
| | | 0 | 0.03 | 0 | AOB | |
| | | 0 | 0.03 | 0 | Chargeable | |
| VMFA-212, 09434, MCAS Iwakuni | 7 APR 03 | 0 | 12 | 3 | Input | CVW-5 (VMFA-212) |
| | | 0 | 0.03 | 0.01 | AOB | |
| | | 0 | 0.03 | 0.01 | Chargeable | |
| SFWSP, 35185, NAS Lemoore (VFA-25 09637, VFA-113 09092, (Also attending NATTC AO "A1" School, 63082) | 15 JUL 03 | 0 | 20 | 4 | Input | SFWSP, CVW-14 (VFA-25, VFA-113) NATTC AO "A1" School |
| | | 0 | 0.06 | 0.02 | AOB | |
| | | 0 | 0.06 | 0.02 | Chargeable | |
| VFA-192, 55179, VFA-195, 09706, NAS Atsugi | FEB 04 | 0 | 20 | 0 | Input | CVW-5 (VFA-192, VFA-195) |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |
| SFWSL, 47084, NAS Oceana (VFA-34 09070, VFA-83 09223) | MAR 04 | 0 | 20 | 0 | Input | SFWSL, CVW-17 (VFA-34, VFA-83) |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |
| MAG-31, 09131, MCAS Beaufort (FWST Instructors Chris Parmalee & Glen Williams) | MAY 04 | 0 | 20 | 0 | Input | MAG-31 |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |



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

| <u>LOCATION, UIC</u> | <u>DATE BEGIN</u> | <u>STUDENTS</u> | | | | <u>ACTIVITY DESTINATION</u> |
|---|-------------------|-----------------|------------|------------|------------|---|
| | | <u>OFF</u> | <u>ENL</u> | <u>CIV</u> | | |
| NAWS China Lake, 68937 | 9 SEP 99 | 0 | 0 | 4 | Input | (OT-IIA) NAWS China Lake |
| | | 0 | 0 | 0.01 | AOB | |
| | | 0 | 0 | 0.01 | Chargeable | |
| VX-9, 55646, NAWS China Lake (also attending MTU-4033 66065) | 13 JUL 00 | 0 | 2 | 0 | Input | (CCRP) VX-9, MTU-4033 |
| | | 0 | 0.01 | 0 | AOB | |
| | | 0 | 0.01 | 0 | Chargeable | |
| CVN-74 USS Stennis, 21847 (for Ship Suitability Test) Instructors: AO1 Sutphin/AO2 Elias | 13 MAR 01 | 0 | 16 | 0 | Input | CVN-74 USS Stennis, |
| | | 0 | 0.04 | 0 | AOB | |
| | | 0 | 0.04 | 0 | Chargeable | |
| CVN-68 USS Nimitz, 03368 (for OPEVAL) (Also attending MTU-4034 66047) | 28 MAY 02 | 0 | 8 | 0 | Input | (OT-IIB) VX-9, 55646 MTU-4034 |
| | | 0 | 0.02 | 0 | AOB | |
| | | 0 | 0.02 | 0 | Chargeable | |
| MALS-12, 09377, MCAS Iwakuni | 7 APR 03 | 0 | 8 | 3 | Input | MALS-12 |
| | | 0 | 0.02 | 0.01 | AOB | |
| | | 0 | 0.02 | 0.01 | Chargeable | |
| NAS Lemoore Weapons 63042, (Also attending Weapons Det Fallon 60495, Weapons Det Oceana 60191, MTU-4030 66069, MTU-4032 66046, MTU-4034 66047, MTU-4035 66058) | 15 JUL 03 | 0 | 12 | 4 | Input | NAS Lemoore Weapons, Weapons Det Fallon, Weapons Det Oceana, MTU-4030, MTU-4032, MTU-4034, MTU-4035 |
| | | 0 | 0.04 | 0.02 | AOB | |
| | | 0 | 0.04 | 0.02 | Chargeable | |
| CV-63 USS Kitty Hawk 03363, (Also attending NAS Atsugi Weapons) (FWST Instructor John Iccardo) | FEB 04 | 0 | 20 | 0 | Input | CV-63 USS Kitty Hawk |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |
| NAS Oceana Weapons 60191 (Also attending FASOTRAGRULANT/ MOTT 09810) (MTU-4032 Instructor and Tim Carroll) | MAR 04 | 0 | 8 | 0 | Input | NAS Oceana Weapons FASOTRAGRULANT |
| | | 0 | 0.02 | 0 | AOB | |
| | | 0 | 0.02 | 0 | Chargeable | |
| MALS-31, 09384, MCAS Beaufort (FWST Instructors Chris Parmalee & Glen Williams) | MAY 04 | 0 | 8 | 0 | Input | MALS-31 |
| | | 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

| <u>LOCATION, UIC</u> | <u>DATE BEGIN</u> | <u>STUDENTS</u> | | | | <u>ACTIVITY DESTINATION</u> |
|---|-------------------|-----------------|------------|------------|------------|---|
| | | <u>OFF</u> | <u>ENL</u> | <u>CIV</u> | | |
| 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 (for Ship Suitability Test) Instructors: AO1 Sutphin/AO2 Elias | 14 MAR 01 | 0 | 16 | 0 | Input | CVN-74 USS Stennis, 21847 |
| | | 0 | 0.04 | 0 | AOB | |
| | | 0 | 0.04 | 0 | Chargeable | |
| CVN-68 USS Nimitz, 03368 (for OPEVAL) (Also attending MTU-4034 66047) | 28 MAY 02 | 0 | 8 | 0 | Input | (OT-IIB) VX-9, 55646 MTU-4034 |
| | | 0 | 0.02 | 0 | AOB | |
| | | 0 | 0.02 | 0 | Chargeable | |
| MALS-12, 09377, MCAS Iwakuni | 7 APR 03 | 0 | 8 | 3 | Input | MALS-12 |
| | | 0 | 0.02 | 0.01 | AOB | |
| | | 0 | 0.02 | 0.01 | Chargeable | |
| NAS Lemoore Weapons 63042, (Also attending Weapons Det Fallon 60495, Weapons Det Oceana 60191, MTU-4030 66069, MTU-4032 66046, MTU-4034 66047, MTU-4035 66058) | 15 JUL 03 | 0 | 12 | 4 | Input | NAS Lemoore Weapons, Weapons Det Fallon, Weapons Det Oceana, MTU-4030, MTU-4032, MTU-4034, MTU-4035 |
| | | 0 | 0.04 | 0.02 | AOB | |
| | | 0 | 0.04 | 0.02 | Chargeable | |
| CV-63 USS Kitty Hawk 03363, (Also attending NAS Atsugi Weapons) | FEB 04 | 0 | 20 | 0 | Input | CV-63 USS Kitty Hawk |
| | | 0 | 0.06 | 0 | AOB | |
| | | 0 | 0.06 | 0 | Chargeable | |
| NAS Oceana Weapons 60191 (Also attending FASOTRAGRULANT/ MOTT 09810) (MTU-4032 Instructor and Tim Carroll) | MAR 04 | 0 | 8 | 0 | Input | NAS Oceana Weapons FASOTRAGRULANT |
| | | 0 | 0.02 | 0 | AOB | |
| | | 0 | 0.02 | 0 | Chargeable | |
| MALS-31, 09384, MCAS Beaufort (FWST Instructors Chris Parmalee & Glen Williams) | MAY 04 | 0 | 8 | 0 | Input | MALS-31 |
| | | 0 | 0.02 | 0 | AOB | |
| | | 0 | 0.02 | 0 | Chargeable | |



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

| <u>LOCATION, UIC</u> | <u>DATE BEGIN</u> | <u>STUDENTS</u> | | | | <u>ACTIVITY DESTINATION</u> |
|----------------------|-------------------|-----------------|------------|------------|------------|-----------------------------|
| | | <u>OFF</u> | <u>ENL</u> | <u>CIV</u> | | |
| 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 Intermediate Maintenance
COURSE DEVELOPER: CNATTU MTU-4032/4033/4035
INSTRUCTOR: TBD
COURSE LENGTH: 2 days

| <u>LOCATION, UIC</u> | <u>DATE BEGIN</u> | <u>STUDENTS</u> | | | | <u>ACTIVITY DESTINATION</u> |
|-------------------------------------|-------------------|-----------------|------------|------------|------------|-----------------------------|
| | | <u>OFF</u> | <u>ENL</u> | <u>CIV</u> | | |
| NAWMU-1, 52821 | FY04 | 0 | 20 | 0 | Input | NAWMU-1, 52821 |
| | | 0 | 0.05 | 0 | AOB | |
| | | 0 | 0.05 | 0 | Chargeable | |
| CVN-70 USS Carl Vinson (West Coast) | FY04 | 0 | 20 | 0 | Input | CVW-9/CVN-70 (West Coast) |
| | | 0 | 0.05 | 0 | AOB | |
| | | 0 | 0.05 | 0 | Chargeable | |
| CVN-75 USS Truman (East Coast) | FY04 | 0 | 20 | 0 | Input | CVW-3/CVN-75 (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 CNATT DET

LOCATION, UIC: NS Mayport, 66069

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

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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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 CNATTU

LOCATION, UIC: NAS Norfolk, 66046

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

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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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 CNATTU
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: E-646-7001, Strike Armament Equipment Intermediate Maintenance
SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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 CNATTMARU
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance
SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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 CNATTU
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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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

| CY04 | | FY05 | | FY06 | | FY07 | | FY08 | | |
|------|------|------|------|------|------|------|------|------|------|------------|
| 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

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|--------------------|------------------|--------------------------------------|-------------------|------------------|----------------|--------------------|
| TTE | | | | | | |
| 001 | CNU-609/E | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 002 | LAU-7D/A | NA | 1 | FY04 | GFE | Expected Jul 04 |
| 006 | CNU-644/E | NA | 1 | FY03 | GFE | On Hand |
| 007 | CNU-645/E | NA | 1 | FY03 | GFE | On Hand |

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

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|--------------------|----------------------------------|--------------------------------------|-------------------|------------------|----------------|------------------------|
| TTE | | | | | | |
| 002 | LAU-7D/A | NA | 2 | FY03 | GFE | Allocated ⁸ |
| 003 | AN/AWM-100 P/N 74D750051-1007 | NA | 1 | FY03 | GFE | Allocated ⁸ |

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

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|--------------------|----------------------------------|--------------------------------------|-------------------|------------------|----------------|------------------------|
| TTE | | | | | | |
| 002 | LAU-7D/A | NA | 2 | FY03 | GFE | Allocated ⁸ |
| 003 | AN/AWM-100 P/N 74D750051-1007 | NA | 1 | FY03 | GFE | Allocated ⁸ |

⁸ Allocations for technical training equipment allow the activity to request these assets from the local AIMD/Support Activity, and, provided the assets are available, check them out.



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

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

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|----------------------------|------------------|--------------------------------------|-------------------|------------------|----------------|---------------|
| TTE | | | | | | |
| 001 | CNU-609/E | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 005 | TTU-574/E24A | See I.J.5 | 1 | FY03 | GFE | On Hand |
| | AIM-9X CMBRE TPS | | | | | |
| 006 | CNU-644/E | NA | 1 | FY03 | GFE | On Hand |
| 007 | CNU-645/E | NA | 1 | FY03 | GFE | On Hand |
| 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 |

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

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|----------------------------|---|--------------------------------------|-------------------|------------------|----------------|--------------------|
| TTE | | | | | | |
| 001 | CNU-609/E | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 002 | LAU-7D/A | NA | 2 | FY04 | GFE | Expected May 04 |
| 004 | A/E37T-35 CRALTS (LAU-7D/A compatible) | NA | 3 | FY03 | GFE | On Hand |
| 005 | TTU-574/E24A | See I.J.5 | 1 | FY03 | GFE | On Hand |
| | AIM-9X CMBRE TPS | | | | | |
| 006 | CNU-644/E | NA | 1 | FY03 | GFE | On Hand |
| 007 | CNU-645/E | NA | 1 | FY03 | GFE | On Hand |
| 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

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|----------------------------|------------------------------|--------------------------------------|-------------------|------------------|----------------|---------------|
| TTE | | | | | | |
| 001 | CNU-609/E | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 002 | LAU-7D/A | NA | 2 | FY04 | GFE | On Hand |
| 004 | A/E37T-35 | NA | 3 | FY03 | GFE | On Hand |
| | CRALTS (LAU-7D/A compatible) | | | | | |
| 005 | TTU-574/E24A | See I.J.5 | 1 | FY03 | GFE | On Hand |
| | AIM-9X CMBRE TPS | | | | | |
| 006 | CNU-644/E | NA | 1 | FY03 | GFE | On Hand |
| 007 | CNU-645/E | NA | 1 | FY03 | GFE | On Hand |
| 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 NAMTRAMARU
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|----------------------------|---|--------------------------------------|-------------------|------------------|----------------|--------------------|
| TTE | | | | | | |
| 001 | CNU-609/E | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 002 | LAU-7D/A | NA | 2 | FY04 | GFE | Expected Jun 04 |
| 004 | A/E37T-35 CRALTS (LAU-7D/A compatible) | NA | 4 | FY03 | GFE | On Hand |
| 005 | TTU-574/E24A AIM-9X CMBRE TPS | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 006 | CNU-644/E | NA | 1 | FY03 | GFE | On Hand |
| 007 | CNU-645/E | NA | 1 | FY03 | GFE | On Hand |
| 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 |

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

| <u>ITEM NUMBER</u> | <u>EQUIPMENT</u> | <u>TYPE OR RANGE OF REPAIR PARTS</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>GFE CFE</u> | <u>STATUS</u> |
|----------------------------|----------------------------------|--------------------------------------|-------------------|------------------|----------------|---------------|
| TTE | | | | | | |
| 001 | CNU-609/E | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 005 | TTU-574/E24A AIM-9X CMBRE TPS | See I.J.5 | 1 | FY03 | GFE | On Hand |
| 006 | CNU-644/E | NA | 1 | FY03 | GFE | On Hand |
| 007 | CNU-645/E | NA | 1 | FY03 | GFE | On Hand |
| 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 Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV 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 | FY04 | FY04 | On contract ⁷ | D-2A-0601 D-2A-0602 D-2A-0604 D-2A-0606 |
| VFA-125 NAS Lemoore, 09485 | 28 | FY04 | FY04 | On contract ⁷ | E-2A-0601 E-2A-0602 E-2A-0604 E-2A-0606 |
| VMFAT-101 MCAS Miramar, 09965 | 28 | FY04 | FY04 | On contract ⁷ | M13P4B3 M13P3V3 M13P3W3 M13P4C3 M13P3R3 M13P3S3 |
| SFWS Atlantic NAS Oceana, 40784 | 14 | FY04 | FY03 | On contract ⁷ | SFARP SFWE D-646-0640 D-646-0647 |
| SFWS Pacific NAS Lemoore, 35185 | 14 | FY04 | FY03 | On contract ⁷ | SFARP SFWE E-646-0640 E-646-0647 |
| Naval Strike and Air Warfare Center N7 (Topgun) NAS Fallon, 69190 | 14 | FY04 | FY03 | On contract ⁷ | SFTP SFTI |
| MAWTS 1, MCAS Yuma, 55167 | 14 | FY04 | FY03 | On contract ⁷ | ACTI/ACMI/ DEFTACI/WTI |
| VFA-25, NAS Lemoore, 09637 | 14 | FY03 | FY03 | 10 On Hand 4 On contract ⁷ | T&R/SFTP |
| VFA-94, NAS Lemoore, 09295 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-97, NAS Lemoore, 63923 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-113, NAS Lemoore, 09092 | 14 | FY03 | FY03 | 10 On Hand 4 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 Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV and additional Full-rate Production contract award.

TEE STATUS: NA

| TRAINING ACTIVITY LOCATION, UIC | QUANT REQD | DATE REQD | RFT DATE | STATUS | COURSES SUPPORTED |
|--|-----------------------|----------------------|---------------------|---|------------------------------|
| VFA-146, NAS Lemoore, 09063 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-147, NAS Lemoore, 63925 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-151, NAS Lemoore, 09558 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-192, NAF Atsugi, 55179 | 14 | FY04 | FY04 | 10 On Hand 4 On contract ⁷ | T&R/SFTP |
| VFA-195, NAF Atsugi, 09706 | 14 | FY04 | FY04 | 10 On Hand 4 On contract ⁷ | T&R/SFTP |
| VFA-127, NAS Fallon, 08956 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFC-13 (TAR), NAS Fallon, 52995 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-15, NAS Oceana, 09015 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-34, NAS Oceana, 09070 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-37, NAS Oceana, 09478 | 14 | FY04 | FY04 | 4 On Hand 10 On contract ⁷ | T&R/SFTP |
| VFA-83, NAS Oceana, 09223 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-87, NAS Oceana, 63922 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-105, NAS Oceana, 65183 | 14 | FY04 | FY04 | 4 On Hand 10 On contract ⁷ | T&R/SFTP |
| VFA-131, NAS Oceana, 63934 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-136, NAS Oceana, 55141 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-82, MCAS Beaufort, 09122 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VFA-86, MCAS Beaufort, 09943 | 14 | FY04 | FY04 | 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 | FY03 | FY03 | 1 On Hand 13 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 Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV 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, NAWCWD China Lake, 55646 | 14 | FY03 | FY03 | 2 On Hand 12 On contract ⁷ | T&R/SFTP |
| VX-9 Det, NAWCWD Point Mugu, 09830 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| NAVWPNTSESTRON China Lake, 39787 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| NAVWPNTSESTRON Point Mugu, 39788 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| NAVSTKAIRSTRON, NAS Patuxent River, 39783 | 14 | FY04 | FY04 | On contract ⁷ | T&R/SFTP |
| VMFA-115, MCAS Beaufort, 09234 | 14 | FY04 | FY04 | 8 On Hand 6 On contract ⁷ | T&R |
| VMFA-122, MCAS Beaufort, 09407 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA-251, MCAS Beaufort, 09241 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA-312, MCAS Beaufort, 09253 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA(AW)-224, MCAS Beaufort, 01224 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA(AW)-332, MCAS Beaufort, 09501 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA(AW)-533, MCAS Beaufort, 09193 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA-212, MCAS Iwakuni, 09434 | 14 | FY03 | FY03 | 10 On Hand 4 On contract ⁷ | T&R |
| VMFA-232, MCAS Miramar, 09242 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA-314, MCAS Miramar, 09230 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA-323, MCAS Miramar, 09235 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA(AW)-121, MCAS Miramar, 09257 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA(AW)-225, MCAS Miramar, 09232 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA(AW)-242, MCAS Miramar, 09668 | 14 | FY04 | FY04 | On contract ⁷ | T&R |
| VMFA-112 (AR), JRB Fort Worth, 08954 | 14 | FY06 | FY06 | On contract ⁷ | T&R |
| VMFA-134 (AR), MCAS Miramar, 09365 | 14 | FY06 | FY06 | On contract ⁷ | T&R |
| VMFA-142 (AR), JRB Atlanta, 67243 | 14 | FY06 | FY06 | On contract ⁷ | T&R |
| VMFA-321 (AR), NAF Washington, 67235 | 14 | FY06 | FY06 | On contract ⁷ | T&R |
| VFA-122, NAS Lemoore, 09355 (E/F) | 28 | FY05 | FY05 | PBBS | T&R |
| SWATSLANT, NAS Oceana, 47157 (E/F) | 14 | FY05 | FY05 | PBBS | T&R/SFTP/SFARP |

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 Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV 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 (E) | 14 | FY05 | FY05 | On contract ⁷ | T&R/SFTP |
| VFA-14, NAS Oceana, 09084 (E) | 14 | FY05 | FY05 | PBBS | T&R/SFTP |
| VFA-41, NAS Oceana, 09774 (F) | 14 | FY05 | FY05 | PBBS | T&R/SFTP |
| VFA-102, NAS Oceana, 09717 (F) | 14 | FY05 | FY05 | PBBS | T&R/SFTP |
| VFA-137, NAS Lemoore, 55142 (E) | 14 | FY05 | FY05 | On contract ⁷ | T&R/SFTP |
| VFA-2, NAS Oceana, 09113 (F) | 14 | FY05 | FY05 | PBBS | T&R/SFTP |
| VFA-22, NAS Lemoore, 09561 (E) | 14 | FY05 | FY05 | On contract ⁷ | T&R/SFTP |
| VFA-154, NAS Oceana, 09678 (F) | 14 | FY05 | FY05 | PBBS | T&R/SFTP |
| VFA-27, NAF Atsugi, 65185 (E) | 14 | FY05 | FY05 | On contract ⁷ | T&R/SFTP |
| VFA-81, NAS Oceana, 09221 (E) | 14 | FY06 | FY06 | On contract ⁷ | T&R/SFTP |
| VFA-103, NAS Oceana, 09718 (F) | 14 | FY06 | FY06 | PBBS | T&R/SFTP |
| VF-32, NAS Oceana, 09053 | 14 | FY08 | FY08 | PBBS | T&R/SFTP |
| VF-211, NAS Oceana, 09086 | 14 | FY07 | FY07 | PBBS | T&R/SFTP |
| VF-213, NAS Oceana, 09934 | 14 | FY09 | FY09 | PBBS | T&R/SFTP |
| VF-11, NAS Oceana, 09560 | 14 | FY09 | FY09 | PBBS | T&R/SFTP |
| VF-143, NAS Oceana, 09281 | 14 | FY09 | FY09 | PBBS | T&R/SFTP |
| TOTAL: (86% Asset Readiness) | 1092 | | | | |
| TOTAL: (100% Asset Readiness) | 1270 | | | | |

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 Lots 1, 2, and 3 option have been exercised for 28 DATM-9X.

TEE STATUS: NA

| TRAINING ACTIVITY LOCATION, UIC | QUANT REQD | DATE REQD | RFT DATE | STATUS | COURSES SUPPORTED |
|--|-----------------------|----------------------|---------------------|---------------|--|
| MTU-4030, NAMTRAGRUDET NAS Mayport, 66069 | 2 | FY03 | FY03 | On Hand | C-122-3111 |
| MTU-4032, NAMTRAU NAS Norfolk, 66046 | 2 | FY03 | FY03 | On Hand | C-122-3111 |
| MTU-4033, NAMTRAU NAS North Island, 66065 | 2 | FY03 | FY03 | On Hand | C-122-3111 |
| MTU-4034, NAMTRAMARU MCAS Cherry Point, 66047 | 2 | FY03 | FY03 | On Hand | C-646-3105 |
| MTU-4035, NAMTRAU NAS Whidbey Island, 66058 | 2 | FY03 | FY03 | On Hand | C-122-3111 |
| CNATT, AO A1 School NAS Pensacola, 63082 | 2 | FY03 | FY03 | On Hand | C-646-2011 C-646-2012 |
| Inter Deployment Training Cycle (IDTC), Weapons Dept, NAS Fallon, 60495 | 1 | FY03 | FY03 | On Hand | Qual/Cert Program |
| IDTC, MALS-11, MCAS Miramar, 09111 | 2 | FY03 | FY03 | On Hand | Qual/Cert Program |
| IDTC, MALS-12, MCAS Iwakuni, 09377 | 2 | FY03 | FY03 | On Hand | Qual/Cert Program |
| IDTC, CV-63, Yokosuka/NAS Atsugi, 03363 | 2 | FY03 | FY03 | On Hand | Qual/Cert Program |
| IDTC, MOTT, Norfolk (FASOTRAGRULANT), 09810 | 2 | FY03 | FY03 | On Hand | Qual/Cert Program |
| IDTC, MOTT (AIRPAC), North Island, 57025 | 1 | FY03 | FY03 | On Hand | Qual/Cert Program |
| IDTC, MALS-31, MCAS Beaufort, 09384 | 2 | FY04 | FY04 | On Hand | Qual/Cert Program |
| NAF Washington Andrews AFB, Maryland, 00166 | 1 | FY05 | FY05 | At SFWSL | F/A-18 Conventional Weapons Loading |
| NAS JRB Atlanta Marietta, Georgia, 00196 | 1 | FY05 | FY05 | At SFWSL | F/A-18 Conventional Weapons Loading |
| NAS JRB New Orleans New Orleans, Louisiana, 00206 | 1 | FY05 | FY05 | At SFWSP | F/A-18 Conventional Weapons Loading |
| NAS JRB Fort Worth Fort Worth, Texas, 00215 | 1 | FY05 | FY05 | At SFWSP | 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 hand | A-431-0011 A-431-0012 |
| EODTEU ONE San Diego, 30202 | 1 | FY02 | FY03 | On hand | G-431-0001 |
| EODTEU TWO Fort Story, 43505 | 1 | FY02 | FY03 | On hand | 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 hand | A-431-0011 A-431-0012 |



IV.B. COURSEWARE REQUIREMENTS

IV.B.1 TRAINING SERVICES

| <u>COURSE/TYPE OF TRAINING</u> | <u>SCHOOL/LOCATION/UIC</u> | <u>NO. OF PERSONNEL</u> | <u>MAN WEEKS REQUIRED</u> | <u>BEGIN DATE</u> |
|---|--|-------------------------|---------------------------|-------------------|
| AIM-9X Aircrew Familiarization/ Initial (Instructor) | SFWSP/NAS Lemoore/35185 | 2 | 0.4 | FY03 |
| | VFA-125/NAS Lemoore/09485 | 2 | 0.4 | FY03 |
| | SFWSL/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 |
| | SFWSL/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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

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)

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

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)

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

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)

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

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)

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

TRAINING ACTIVITY: F/A-18 Squadrons
LOCATION, UIC: See Below
CIN, COURSE TITLE: SFTP and Training & Readiness (T&R)

| <u>TYPES OF MATERIAL OR AID:</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|----------------------------------|-----------------------|----------------------|------------------------|
| SFTS AIM-9X Aircrew ICW | 1 Set | FY03 | On-hand Version 1.0 |

LOCATION, UIC:
 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

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:

- 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
- VX-9 Det, NAWCWD Point Mugu, 09830

| <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|-----------------------|----------------------|---------------|
|-----------------------|----------------------|---------------|

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 Aircrew ICW

| <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|-----------------------|----------------------|------------------------|
| 1 Set | FY03 | On-hand Version 1.0 |

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

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

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

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

| <u>TYPES OF MATERIAL OR AID:</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------------|-----------------------|----------------------|---------------|
| 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 | | | |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|---------------|
| AIM-9X Training Package | 1 Set ⁹ | FY03 | On Hand |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-----------------------|----------------------|---------------|
| AIM-9X Training Package | 1 Set ⁹ | FY03 | On Hand |

⁹ Training package consists of Lesson Plan, Trainee Guide, Student Handbook, and Visual Aids.

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|--------------------|------------------|---------------|
| AIM-9X Training Package | 1 Set ⁸ | FY03 | On Hand |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|--------------------|------------------|-----------------|
| AIM-9X Training Package | 1 Set ⁸ | FY02 | On Hand |
| AIM-9X/CMBRE CBT (Revision 2.2.0) | 1 CD | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1) | 1 Set | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1) | 1 Set | FY04 | On Hand |
| AIM-9X Intermediate Maintenance ICW (v1.0) | 1 CD | FY04 | Expected Jun 04 |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|--------------------|------------------|-----------------|
| AIM-9X Training Package | 1 Set ⁸ | FY02 | On Hand |
| AIM-9X/CMBRE CBT (Revision 2.2.0) | 1 CD | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1) | 1 Set | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1) | 1 Set | FY04 | On Hand |
| AIM-9X Intermediate Maintenance ICW (v1.0) | 1 CD | FY04 | Expected Jun 04 |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|--------------------|------------------|-----------------|
| AIM-9X Training Package | 1 Set ⁸ | FY02 | On Hand |
| AIM-9X/CMBRE CBT (Revision 2.2.0) | 1 CD | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1) | 1 Set | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1) | 1 Set | FY04 | On Hand |
| AIM-9X Intermediate Maintenance ICW (v1.0) | 1 CD | FY04 | Expected Jun 04 |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|--------------------|------------------|-----------------|
| AIM-9X Training Package | 1 Set ⁸ | FY02 | On Hand |
| AIM-9X/CMBRE CBT (Revision 2.2.0) | 1 CD | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1) | 1 Set | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1) | 1 Set | FY04 | On Hand |
| AIM-9X Intermediate Maintenance ICW (v1.0) | 1 CD | FY04 | Expected Jun 04 |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|--------------------|------------------|-----------------|
| AIM-9X Training Package | 1 Set ⁸ | FY02 | On Hand |
| AIM-9X/CMBRE CBT (Revision 2.2.0) | 1 CD | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1) | 1 Set | FY02 | On Hand |
| AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1) | 1 Set | FY04 | On Hand |
| AIM-9X Intermediate Maintenance ICW (v1.0) | 1 CD | FY04 | Expected Jun 04 |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-------------------|------------------|---------------|
| AIM-9X Source Data | 1 Set | FY02 | Available |

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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-------------------|------------------|---------------|
| 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

| <u>TYPE OF MATERIAL OR AID</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--------------------------------|-------------------|------------------|---------------|
| 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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|---|----------------------|-------------------|------------------|-------------------|
| NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000 | Digital or Hard copy | 6 | FY03 | On Hand |
| NATOPS Pocket Checklist, A1-F18AC-NFM-500 | Digital or Hard copy | 6 | FY03 | On Hand |
| 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. Updated manuals are available from the NATEC website.

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 | On Hand |
| NATOPS Pocket Checklist, A1-F18AC-NFM-500 | Digital or Hard copy | 6 | FY03 | On Hand |
| 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. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|---|----------------------|-------------------|------------------|-------------------|
| NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000 | Digital or Hard copy | 6 | FY03 | On Hand |
| NATOPS Pocket Checklist, A1-F18AC-NFM-500 | Digital or Hard copy | 6 | FY03 | On Hand |
| 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. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|---|----------------------|-------------------|------------------|-------------------|
| NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000 | Digital or Hard copy | 6 | FY03 | On Hand |
| NATOPS Pocket Checklist, A1-F18AC-NFM-500 | Digital or Hard copy | 6 | FY03 | On Hand |
| 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. Updated manuals are available from the NATEC website.

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)

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|---|----------------------|-------------------|------------------|-------------------|
| NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000 | Digital or Hard copy | 6 | FY03 | On Hand |
| NATOPS Pocket Checklist, A1-F18AC-NFM-500 | Digital or Hard copy | 6 | FY03 | On Hand |
| 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. Updated manuals are available from the NATEC website.

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

| | | | | |
|---|----------------------|---|------|-------------------|
| NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000 | Digital or Hard copy | 6 | FY03 | On Hand |
| NATOPS Pocket Checklist, A1-F18AC-NFM-500 | Digital or Hard copy | 6 | FY03 | On Hand |
| 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. Updated manuals are available from the NATEC website.

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 | On Hand |
| NATOPS Pocket Checklist, A1-F18AC-NFM-500 | Digital or Hard copy | 6 | FY03 | On Hand |
| 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. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|---|---------------|-----------------------|----------------------|---------------|
| Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000 | Hard copy | 10 | FY03 | On Hand |
| Release & Control (Missiles), Air to Air A1-F18AE-LWS-210 | Hard copy | 10 | FY03 | On Hand |
| AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530 | Hard copy | 10 | FY03 | On Hand |
| 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 | On Hand |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|---|---------------|-----------------------|----------------------|---------------|
| Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000 | Hard copy | 10 | FY03 | On Hand |
| Release & Control (Missiles), Air to Air A1-F18AE-LWS-210 | Hard copy | 10 | FY03 | On Hand |
| AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530 | Hard copy | 10 | FY03 | On Hand |
| 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 | On Hand |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|---|---------------|-------------------|------------------|-------------------|
| Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000 | Hard copy | 10 | FY03 | On Hand |
| Release & Control (Missiles), Air to Air A1-F18AE-LWS-210 | Hard copy | 10 | FY03 | On Hand |
| AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530 | Hard copy | 10 | FY03 | On Hand |
| 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 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1 | Hard copy | 10 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2 | Hard copy | 10 | FY03 | On Hand |
| Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84 | Hard copy | 10 | FY03 | On Hand |
| Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2 | Hard copy | 10 | FY03 | On Hand |
| Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1 | Hard copy | 10 | FY03 | On Hand |
| 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 | FY04 | Update in process |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|-------------------|
| 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 | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2 | Hard copy | 12 | FY03 | On Hand |
| Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1 | Hard copy | 12 | FY03 | On Hand |
| 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 | 12 | FY04 | Update in process |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|-------------------|
| 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 | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2 | Hard copy | 12 | FY03 | On Hand |
| Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1 | Hard copy | 12 | FY03 | On Hand |
| 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 | 12 | FY04 | Update in process |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|-------------------|
| 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 | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2 | Hard copy | 12 | FY03 | On Hand |
| Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1 | Hard copy | 12 | FY03 | On Hand |
| 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 | 12 | FY04 | Update in process |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|-------------------|
| 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 | 12 | FY03 | On Hand |
| 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 | 12 | FY04 | Update in process |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|-------------------|
| 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 | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2 | Hard copy | 12 | FY03 | On Hand |
| Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2 | Hard copy | 12 | FY03 | On Hand |
| Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1 | Hard copy | 12 | FY03 | On Hand |
| 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 | 12 | FY04 | Update in process |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|---------------|
| Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5 | CD-ROM | 150 | FY03 | On Hand |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|---------------|
| Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5 | CD-ROM | 4 | FY03 | On Hand |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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

| <u>TECHNICAL MANUAL TITLE, NUMBER</u> | <u>MEDIUM</u> | <u>QUANT REQD</u> | <u>DATE REQD</u> | <u>STATUS</u> |
|--|---------------|-------------------|------------------|---------------|
| Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5 | CD-ROM | 4 | FY03 | On Hand |

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

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 |
| NAVWPNTSTRON/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 | Feb 02 | Completed |
| OPTEVFOR/VX-9 | Commence F/A-18C/D OPEVAL (OT-IIB) | Aug 02 | Completed |
| PMA 259/205F2B/RMS | Begin Technical Training Equipment delivery | FY02 | Completed |
| PMA 259/205F2B/RMS | Begin Training Device delivery | FY02 | Completed |
| PMA 205-F2B | Begin Curricula Material delivery | FY02 | Completed |
| AIR-3.1.1L/RMS | Begin Technical Manuals delivery | FY03 | Completed |
| PMA 205-F2B | Commence Initial Training | FY03 | Completed |
| OPTEVFOR/VX-9 | Complete F/A-18C/D OPEVAL (OT-IIB) | Aug 03 | Completed |
| PMA 259/205-F2B/RMS | Complete Technical Training Equipment delivery | Feb 04 | In Process |
| PMA 205 | Promulgate Approved Update (Rev B) NTSP | Feb 04 | In Process |
| PMA 205-F2B | Complete Curricula material delivery | Mar 04 | In Process |
| PMA 259/205-F2B/RMS | Complete Training Device delivery (except CATM) | June 04 | In Process |
| AIR-3.1.1L/RMS | Complete Technical Manuals delivery | FY04 | In Process |
| AIR-3.1.1L | Material Support Date (MSD) attained | FY04 | In Process |
| PMA 259/AIR-3.1.1L | Fleet Introduction | FY03-04 | In Process |
| CNATT/NSAWC/MCCDC | Commence Follow-on Training | FY03 | Completed |
| CNO/FLEET | Attain Initial Operational Capability | Feb 04 | Completed |
| PMA 205 | Promulgate Approved Update (Rev B) NTSP | Apr 04 | Completed |

PART V - MPT MILESTONES

| COG CODE | MPT MILESTONES | DATE | STATUS |
|---------------|-----------------------------------|--------|------------|
| OPTEVFOR/VX-9 | Commence F/A-18E/F OPEVAL (FOT&E) | May 04 | In Process |
| AIR-3.1.1L | Navy Support Date (NSD) attained | FY05 | In Process |

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. |
| Include CATM-9X requirements for FA-18E/F squadrons (other than FA-18A/B/C/D squadrons that will transition to FA-18E/F squadrons, i.e., F-14 squadrons) | PMA 205-F2B | July 03 | Closed – II.A.1.a and IV.A.2 updated to show additional F-14 squadrons that will transition to FA-18E/F squadrons. |



PART VII - POINTS OF CONTACT

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PART VII - POINTS OF CONTACT

| NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL | TELEPHONE NUMBERS |
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| <p>LCDR Bryan Bowen Acquisition Programs Branch/C4ISR & Aviation HIS, Total Force CNO, N125C Bryan.bowen@navy.mil</p> | <p>COMM: (703) 693-3066 DSN: 223-3066 FAX: (703) 697-8684, DSN 227</p> |
| <p>LCDR Bill Filan Aviation Mechanical, Enlisted Plans and Career Management Division, Community Manager CNO, N132D1 bill.filan@navy.mil</p> | <p>COMM: (703) 695-3806 DSN: 225-3806 FAX: (703) 614-6502, DSN 224</p> |
| <p>COL C.R. Spofford, USMC Branch Head, USMC Aviation Manpower Support Branch HQMC, ASM-1 spoffordcr@hqmc.usmc.mil</p> | <p>COMM: (703) 693-9846 DSN: 223-9846 FAX: (703) 614-1309</p> |
| <p>MAJ John Gackle, USMC USMC Aircraft Maintenance Officer CMC, ASL-33 gacklejo@hqmc.usmc.mil</p> | <p>COMM: (703) 614-1187 DSN: 224-1187 FAX: (703) 697-7343 DSN 227</p> |
| <p>CAPT Scott Stewart Air-to-Air Missile Program Manager NAVAIR, PMA 259 scott.stewart@navy.mil</p> | <p>COMM: (301) 757-7311 DSN: 757-7311 FAX: (301) 757-7310</p> |
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