

NAVY TRAINING SYSTEM PLAN

FOR THE

AIR SURVEILLANCE AND PRECISION

APPROACH RADAR CONTROL SYSTEM

N88-NTSP-A-50-0006/D

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**AIR SURVEILLANCE AND PRECISION
APPROACH RADAR CONTROL SYSTEM**

EXECUTIVE SUMMARY

This Navy Training System Plan provides an overview of the Air Surveillance and Precision Approach Radar Control System (ASPARCS) program and its concepts for operation, maintenance, manpower, and training. The ASPARCS program is currently in the System Development and Demonstration Phase, approaching Milestone Decision C of the Defense Acquisition System. Developmental Testing for ASPARCS will begin in third quarter Fiscal Year (FY) 02, and Operational Testing in first quarter FY03. The Initial Operating Capability date for the ASPARCS program is scheduled for fourth quarter FY04.

The ASPARCS is required by the Naval Air Systems Command to replace the current Marine Air Traffic Control And Landing System (MATCALs). The MATCALs is reaching the end of its life cycle, and suffers from parts obsolescence and increased life cycle costs. ASPARCS will provide the Marine Corps with a system that is light, highly mobile, affordable, and maintainable. It will also provide interfaces to national and international Air Traffic Control (ATC) agencies. ASPARCS will be the Marine Air Traffic Control Detachments' (MATCD) primary means of detecting, identifying, tracking, and reporting on all Air Breathing Targets (ABT). ABTs are defined as manned aircraft, cruise missiles, or Unmanned Aerial Vehicles.

The ASPARCS program is being acquired in two phases. Phase I includes all core ATC components and will rely heavily on Non-Developmental Items with modifications. Phase II will incorporate interoperability with aviation command and control agencies, while enhancing ATC functions of the Phase I ASPARCS components.

Operation and maintenance of the ASPARCS will not require any additional manpower from the current MATCD Table of Organization (T/O). Marine Corps personnel will operate and maintain ASPARCS using an organizational to depot level maintenance concept.

ASPARCS operator and maintainer training will readily merge with existing pipelines, but the maintenance training will require modification of existing courses. The ASPARCS maintenance training at Naval Air Technical Training Center, Pensacola, Florida, will require a temporary increase to the schoolhouse T/O while both MATCALs and ASPARCS are taught during the transition. The ASPARCS training program will consist of ASPARCS initial training for operator and maintainer personnel provided by the Lockheed Martin Corporation. Follow-on training will be conducted at Department of Defense facilities.

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**AIR SURVEILLANCE AND PRECISION
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LIST OF ACRONYMS

| | |
|-------------|--|
| ABT | Air Breathing Target |
| ADC | Arrival and Departure Control |
| AGL | Above Ground Level |
| AMTCS | Aviation Maintenance Training Continuum System |
| AOB | Average Onboard |
| ASPARCS | Air Surveillance and Precision Approach Radar Control System |
| ASR | Air Surveillance Radar |
| ATC | Air Traffic Control |
| ATIR | Annual Training Input Requirement |
| | |
| BIT | Built-In Test |
| BITE | Built-In Test Equipment |
| | |
| CAC2S | Common Aviation Command and Control System |
| CCS | Control and Communications Subsystem |
| CFY | Current Fiscal Year |
| CIN | Course Identification Number |
| CINCLANTFLT | Commander in Chief, Atlantic Fleet |
| CINCPACFLT | Commander in Chief, Pacific Fleet |
| CM | Corrective Maintenance |
| CMC | Commandant of the Marine Corps |
| CNET | Chief of Naval Education and Training |
| CNO | Chief of Naval Operations |
| COTS | Commercial Off-The-Shelf |
| CS | Communications Subsystem |
| CSP | Commercial Stock Point |
| | |
| DoD | Department of Defense |
| DT | Developmental Test |
| DVD | Direct Vendor Delivery |
| | |
| FAA | Federal Aviation Administration |
| FC | Final Control |
| FIT | Fleet Integration Team |
| FMS | Foreign Military Sales |
| FOC | Full Operational Capability |
| FY | Fiscal Year |

**AIR SURVEILLANCE AND PRECISION
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LIST OF ACRONYMS

| | |
|--------------|---|
| GFE | Government Furnished Equipment |
| GOTS | Government Off-The-Shelf |
| GPSTOD | Global Positioning System Time-Of-Day |
| H&HS | Headquarters and Headquarters Squadron |
| HMMWV-HV | High Mobility Multipurpose Wheeled Vehicle, Heavy Variant |
| HQ | Headquarters |
| IFF | Identification Friend or Foe |
| IOC | Initial Operational Capability |
| ISEA | In-Service Engineering Activity |
| ISP | Integrated Support Plan |
| ITSS | Individual Training Standards System |
| LCMP | Life Cycle Maintenance Plan |
| MACCS | Marine Air Command and Control System |
| MACS | Marine Air Control Squadron |
| MATC | Marine Air Traffic Control |
| MATCAL | Marine Air Traffic Control And Landing System |
| MATCD | Marine Air Traffic Control Detachment |
| MATMEP | Maintenance Training Management and Evaluation Program |
| MATSG | Marine Aviation Training Support Group |
| MCAF | Marine Corps Air Field |
| MCAS | Marine Corps Air Station |
| MCCDC | Marine Corps Combat Development Command |
| MCO | Marine Corps Order |
| MCOTEA | Marine Corps Operational Test and Evaluation Activity |
| MD | Multifunction Display |
| MHE | Material Handling Equipment |
| MOS | Military Occupational Specialty |
| MSD | Material Support Date |
| NA | Not Applicable |
| NATTC | Naval Air Technical Training Center |
| NAVAIRSYSCOM | Naval Air Systems Command |
| NAWCAD | Naval Air Warfare Center Aircraft Division |
| NDI | Non-Developmental Item |

**AIR SURVEILLANCE AND PRECISION
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LIST OF ACRONYMS

| | |
|----------|---|
| NIMA | National Imagery and Mapping Agency |
| nm | Nautical Mile |
| NTSP | Navy Training System Plan |
| OJT | On-the-Job Training |
| OPNAV | Office of the Chief of Naval Operations |
| OPO | OPNAV Principal Official |
| OPTEVFOR | Operational Test and Evaluation Force |
| ORD | Operational Requirements Document |
| OS | Operations Subsystem |
| OT | Operational Test |
| PAR | Precision Approach Radar |
| PBL | Performance Based Logistics |
| PC | Personal Computer |
| Pd | Probability of Detection |
| PDA | Principle Development Agency |
| PFY | Previous Fiscal Year |
| PM | Preventive Maintenance |
| PMA | Program Manager, Air |
| PMOS | Primary Military Occupational Specialty |
| RFI | Ready For Issue |
| RFOU | Ready For Operational Use |
| RFT | Ready For Training |
| RLST | Remote Landing Site Tower |
| SLEP | Service Life Extension Program |
| SMOS | Secondary Military Occupational Specialty |
| SOO | Statement Of Objectives |
| SOW | Statement Of Work |
| SPS | System Performance Specification |
| SRD | Systems Requirement Document |
| TBD | To Be Determined |
| TD | Training Device |
| TFS | Total Force Structure |
| T/O | Table of Organization |

**AIR SURVEILLANCE AND PRECISION
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LIST OF ACRONYMS

| | |
|------|------------------------------|
| TSA | Training Support Agency |
| TTE | Technical Training Equipment |
| UAV | Unmanned Aerial Vehicle |
| UIC | Unit Identification Code |
| USMC | United States Marine Corps |

**AIR SURVEILLANCE AND PRECISION
APPROACH RADAR CONTROL SYSTEM**

PREFACE

This Draft Navy Training System Plan (NTSP) has been developed to update the Air Surveillance and Precision Approach Radar Control System (ASPARCS) Initial Navy Training System Plan, A-50-0006/I, dated December 2000. This document has been updated to comply with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97.

This NTSP provides the latest information about the ASPARCS program, including training, manpower, delivery schedules, milestones, and points of contact. This NTSP also provides the latest ASPARCS Developmental Testing (DT) and Operational Testing (OT) information.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Air Surveillance and Precision Approach Radar Control System (ASPARCS)

2. Program Element. 0604504N

B. SECURITY CLASSIFICATION

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

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

- OPNAV Principal Official (OPO) Program Sponsor..... CNO (N785)
- OPO Resource Sponsor CNO (N785)
- Functional Mission Sponsor CNO (N785)
- Marine Corps Program Sponsor..... CMC (APC-5)
- Developing Agency NAVAIRSYSCOM (PMA213)
- Training Agency..... CINCLANTFLT (N721)
CINCPACFLT (N70)
CNET (ETE32)
MCCDC (C5325A)
- Training Support Agency..... NAVAIRSYSCOM (PMA205)
- Manpower and Personnel Mission Sponsor CNO (N12)
CMC (ASM-1)
- Director of Naval Training CNO (N795)
- Marine Corps Force Structure..... MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The primary mission of ASPARCS will be to satisfy the Marine Air Traffic Control Detachments' (MATCD) mission of detecting, identifying, tracking, and reporting of all Air Breathing Targets (ABT). (The definition of an ABT includes manned aircraft, Unmanned Aerial Vehicles (UAV), and Cruise Missiles). ASPARCS will provide the MATCD with a real-time display of all air activity within their assigned area of responsibility. It will be adaptable to the standard Marine Corps High Mobility Multipurpose Wheeled Vehicle, Heavy Variant (HMMWV-HV), and will be rugged enough to support a wide range of tactical operations in all types of weather and terrain conditions. Additionally, ASPARCS will provide the speed and flexibility required for enhanced Air Traffic Control (ATC) capabilities in the execution of Operational Maneuver From The Sea, Ship To Objective Maneuver, Sustained Operations Ashore, and other expeditionary operations. When deployed, the ASPARCS will possess the mobility to keep pace with supported maneuver elements.

As a secondary mission, ASPARCS will be capable of transmitting track information on targets detected within its coverage limits to air defense agencies within the Marine Air Command and Control System (MACCS). Additional ASPARCS missions will include supporting worldwide emergencies and disaster relief operations, and serving as an interim replacement for shore-based Naval ATC systems during equipment upgrades or other Service Life Extension Program (SLEP) efforts.

The Common Aviation Command and Control System (CAC2S) Mission Need Statement AAS 48, dated April 1995, validated the requirement for an ATC capability to control aircraft, including fixed wing, rotary wing, and UAV. Operation of the ASPARCS will be similar to the current Marine Air Traffic Control And Landing System (MATCAL) with improved maintainability. The ASPARCS will be employed by the MATCD while assigned to Marine Air Command Squadrons (MACS). The ASPARCS will fulfill the mission of the ATC agency of the MACCS and Marine Air-Ground Task Force.

2. Foreign Military Sales. No Foreign Military Sales (FMS) are planned at this time. However, the ASPARCS has potential as a Joint Interest for the United States Navy, Army, and Air Force.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The ASPARCS DT and OT will be performed by Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, Maryland, to ensure that the system will meet all environmental, shock, vibration, and performance thresholds as defined in the ASPARCS Systems Requirement Document (SRD) and System Performance Specification (SPS). The contractor is responsible for the development of the first article and production tests, plans, and procedures and will also conduct or direct testing necessary to establish the reliability and maintainability levels for the system. In lieu of actual first article testing, test data from the Non-Developmental Item (NDI) subsystems previously tested by Department of Defense (DoD) agencies will be accepted.

NAWCAD Patuxent River will perform the ASPARCS DT, primarily at the Landing Systems Test Facility, Patuxent River, Maryland. DT is scheduled to begin in third quarter Fiscal Year

(FY) 02. The Marine Corps Operational Test and Evaluation Activity (MCOTEA) will conduct the OT, primarily at Bogue Field, North Carolina, beginning in first quarter FY03. An ASPARCS Test Evaluation Master Plan will be developed prior to DT and OT.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The ASPARCS program will replace MATCALs, which is reaching its service life limits. The MATCALs is comprised of the AN/TSQ-131(V) Radar Command and Control Shelter, which is part of the Control and Communications Subsystem (CCS), the AN/TPS-73 Airport Surveillance Radar (ASR), and the AN/TPN-22 Precision Approach Radar (PAR) systems.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. Advanced aircraft technologies and the need for lightweight, highly mobile radar, and related command and control nodes have driven the requirement for significant upgrades to the current ATC system. The goal of the ASPARCS program is to improve the current technology and efficiency of operations by enhancing the MATCD's capability to effectively detect, identify, track, and report on all ABTs. The ASPARCS will principally facilitate the safe and expeditious flow of air traffic during joint or combined operations.

The highly mobile ASPARCS will consist of four subsystems, the ASR, PAR, Operations Subsystem (OS), and Communications Subsystem (CS). All four subsystems will be mounted on and be capable of operating from HMMWV-HVs. In addition, each of the subsystems will be capable of removal from the HMMWV-HV without the use of Material Handling Equipment (MHE), and capable of remote operation while separated from the HMMWV-HV. The ASR and PAR will provide maintenance personnel with a detailed diagnostic tool for situations wherein the ASR and PAR are not physically interfaced to the OS. This is accomplished by using a Personal Computer (PC) Maintenance Port for the purpose of initiating and observing the results of ASR and PAR, Built-In Test (BIT) or Built-In Test Equipment (BITE), and diagnostic tests. Both the ASR and PAR will operate in a frequency range currently approved for military ATC radar systems.

a. Air Surveillance Radar. The ASPARCS ASR subsystem provides a digital indication display system with interactive controls and devices required to perform ABT surveillance, arrival, departure, and en route control functions. It will include radar and Identification Friend or Foe (IFF) plot and track symbols, weather, flight data, flight clearance, and relevant map information. The ASR will also provide controls, alerts, and advisories, including Minimum Safe Altitude Warning, conflicts, and handoffs, while being augmented with National Imagery and Mapping Agency (NIMA) map products. The ASPARCS ASR subsystem will also incorporate anti-radiation missile protection, plus selectable and automatic Electronic Protection features. The ASPARCS ASR SRD and SPS threshold and objectives include:

| ASR DETECTION | THRESHOLD | OBJECTIVE |
|-------------------------------------|---|---|
| Detecting ABTs at Radial Velocities | 40 knots to Mach 1 | 0 knots to Mach 2 |
| Remote from the OS and PAR | 3000 meters | 5000 meters |
| Radar Plot | Two-dimensional (azimuth and range) radar information | Three-dimensional (azimuth, range, and altitude) radar information |
| Coverage Volume for Detecting ABTs | 1 - 30 degrees elevation within altitudes 100 - 20,000 feet Above Ground Level (AGL), 360 degrees azimuth, and 0.5 - 45 nautical miles (nm) | 1-30 degrees elevation within altitudes 100 - 20,000 feet AGL, 360 degrees azimuth, and 0.5 - 60 nm |
| IFF Coverage | IFF returns from 0.5 - 60 nm, 1 - 30 degrees elevation, within altitudes of 100 - 40,00 feet | IFF returns from 0.5 - 120 nm, 1 - 30 degrees elevation, within altitudes of 100 - 60,00 feet |

b. Precision Approach Radar. The ASPARCS PAR subsystem will provide precision approach capability with Federal Aviation Administration (FAA) conformance. The PAR will provide an all-digital display and automatic three-dimensional information (azimuth, elevation, and range) on all ABTs within the prescribed scan area. It will provide the capability of servicing up to three intersecting runways (only one direction at a time). The ASPARCS ASR SRD and SPS threshold and objectives include:

| PAR DETECTION | THRESHOLD | OBJECTIVE |
|-----------------------|---|--|
| Detecting ABTs Speeds | 40 - 250 knots with a single scan Probability of Detection (Pd) of 0.90, within the specified coverage volume | 40 - 250 knots with a single scan Pd of 0.95, within the specified coverage volume |
| ABTs Range Accuracy | Two percent +/- 60 feet, whichever is greater for both search and track | One percent +/- 30 feet, whichever is greater for track only |

| PAR DETECTION | THRESHOLD | OBJECTIVE |
|----------------------------------|--|--|
| ABTs Elevation Accuracy | 1.0 square meter target of no more than 0.23 degrees for search and track, a total error at touch down point less than 20 feet for search and track, with a minimum update rate of 1 Hertz | 0.12 degrees for track only, with a total error at touch down point less than 10 feet for track only, with a minimum update rate of 5 Hertz (track only) |
| Track Capacity on Final Approach | 10 nm for four ABTs, approaches 200 feet above runway threshold, and 0.5 nm from the touch down point | 15 nm for six ABTs, approaches 100 feet above runway threshold, and 0.25 nm from the touch down point |
| Remote from the OS and ASR | 3000 meters | 5000 meters |
| PAR Coverage Volume | Detecting ABTs within a sector defined as -1 to +7 degrees in elevation, +/- 7.5 degrees azimuth, and 750 feet to 15 nm in range | Detecting ABTs within a sector defined as -1 to +13 degrees in elevation, +/- 20 degrees azimuth, and 750 feet to 15 nm in range |

c. Operations Subsystem. The ASPARCS OS will employ a high-capacity digital data link in order to forward specified targets and track data. This will include a target tagging feature and symbology configuration that is compatible with higher and adjacent air command and control agencies. The OS subsystem will provide an automated mapping capability that inputs and outputs NIMA standard digital products. Mapping formats of NIMA maps will be included in the Interface Standard for Vector Product Format in order to support Joint Operations and to be interoperable among all DoD Command Control Communications Computers and Intelligence agencies. An automated load capability will be available to use these databases with minimum workload. The control software will provide multiple display modes to accommodate the various aspects of ATC as well as simulation, training, and maintenance.

d. Communications Subsystem. The ASPARCS CS will be interoperable with the AN/TSQ-216 Remote Landing Site Tower (RLST), AN/TSQ-120B ATC Central (Expeditionary Airfield Tower), and CAC2S. The CS will provide the voice communications equipment necessary to perform safe ATC as well as the data link equipment to communicate with all appropriate military and civilian agencies. The CS infrastructure will support OS expansion from four Multifunction Display (MD) operator positions and one supervisor position, to eight MD operator and two supervisor positions.

2. Physical Description. The ASPARCS program is currently in the System Development and Demonstration Phase of the acquisition process; consequently, specific ASPARCS components have not been identified. The current NAWCAD combined design calls

for a single HMMWV-HV with a mounted rigid shelter and a Deployable Rapid Assembly Shelter serviced by a trailer with Generator Set and Environmental Control Unit. The majority of the CS equipment will be mounted within the shelter and the majority of the OS equipment will be mounted in transit cases. During normal operation, the transit-cased equipment will be set up and operated within the tent. During transport, the transit cases will be stowed within the shelter or on the OS and CS trailer. The design of the CS requires a Global Positioning System Time-Of-Day (GPSTOD) distribution subsystem for the radios and audio recorder. The OS and CS design will also include a GPSTOD distribution capability inside the OS tent. Further information on physical description or design modifications will be updated in this NTSP as the design develops.

3. New Development Introduction. The ASPARCS will be acquired in two phases. Phase I includes all core ATC components and will consist of NDI with modifications. Phase II will incorporate interoperability with aviation command and control agencies and enhanced ATC functions to the Phase I ASPARCS. The ASPARCS will be comprised of Government Off-The-Shelf (GOTS), Commercial Off-The-Shelf (COTS), Government Furnished Equipment (GFE) and NDI equipment and software to the maximum extent. The ASPARCS program will also exploit the opportunities offered by digital communications, sensors netting, micro-miniaturization, and other technologies that are available via GOTS and COTS sources.

4. Significant Interfaces. The ASPARCS will be adaptable to the standard Marine Corps HMMWV-HV. A maximum of three HMMWV-HV (M1097A2) GFE vehicles, with three trailers, will be capable of containing the ASPARCS. One HMMWV-HV and one trailer will be dedicated to the sole use of the OS and CS. The remaining two HMMWV-HV and two trailers will be capable of containing the PAR and ASR and all of its associated equipment. The Government will procure the OS and CS trailer, and the contractor, if required, will procure the ASR and PAR trailers. The ASPARCS, while mounted on the HMMWV-HV and trailers, will be capable of loading without the use of MHE, shoring, or external power. It will be able to be shipped via military C-130, C-141, C-17, and C-5 transport aircraft. The ASPARCS will be capable of reconfiguration from the transport mode to the basic operational mode within 90 minutes.

The ASPARCS program will interface and support the National standards for interoperability with FAA and International Civil Aviation Organization ATC systems within the areas of National Airspace Systems. These ASPARCS interfaces will allow for target conflict alert and resolution, automated target hand-off and hand-over, weather display, aircraft flight plans, and airspace control functions for military and civilian aircraft. The ASPARCS will also interface with the AN/TSQ-216 RLST.

5. New Features, Configurations, or Material. The ASPARCS program will develop and integrate emerging technologies in order to provide more lightweight, highly mobile radar and related command and control nodes. It will offer a significantly reduced footprint compared to the MATCALs. The ASPARCS design will provide for the following deployment configuration options:

- **Option 1.** Entire ASPARCS including the ASR, PAR, OS, and CS

- **Option 2.** ASR, OS, and CS (PAR not deployed)
- **Option 3.** PAR, OS, and CS (ASR not deployed)
- **Option 4.** OS and CS (ASR and PAR not deployed)
- **Option 5.** ASR, plus a subset of the OS and CS and the PAR, plus a subset of the OS and CS deployed simultaneous, but separately

There is no contractor requirement to provide transport options other than for Options 1 through 4. However, the equipment necessary to perform Options 1 through 4 will be provided, and the design will fully support Option 5.

H. CONCEPTS

1. Operational Concept. The ASPARCS will be operated by MATCD personnel to provide ATC capabilities throughout an Amphibious Operational Area without regard to the effects of weather. Two Marine Corps personnel are required to set up each subsystem to the basic operational mode level and to the full operational mode. The following Marine Corps personnel and Military Occupational Specialty (MOS) will operate the ASPARCS in the execution of the ATC missions:

| POSITION | MOS |
|---------------------------|------------|
| ATC Officers | 7220 |
| ATC | 7257 |
| Senior ATC | 7291 |
| ATC - Tower | 72XX/7252 |
| ATC - Radar | 72XX/7253 |
| Radar Approach Controller | 72XX/7254 |

2. Maintenance Concept. The ASPARCS maintenance concept, less the HMMWV-HV transport vehicles, will be consistent with that for existing MATCD systems and equipment. Maintenance of the ASPARCS components will be accomplished using an organizational to depot level maintenance concept. An ASPARCS Office of the Chief of Naval Operations Instruction (OPNAVINST) 4790.XX is currently being developed. The ASPARCS maintenance intention is to minimize the requirements for organizational corrective maintenance to allow Marine Corps maintainers to service and sustain the ASPARCS as far forward in the battle area as possible, without having to rely on depot or contractor support. This will be accomplished using common tools and general purpose test equipment to the maximum extent. The following Marine Corps personnel will provide ASPARCS ATC maintenance supervision, coordination, and administration:

| POSITION | MOS |
|-------------------------|------------|
| ATC Maintenance Officer | 5950 |
| ATC Maintenance Chief | 5959 |

a. Organizational. Organizational level maintenance skill levels required to maintain ASPARCS will not exceed the current MOS skill levels required to support MATCALS. The MATCD performs all levels of organizational maintenance, which includes functions normally accomplished by an intermediate maintenance activity. The following Marine Corps ATC personnel will perform ASPARCS organizational level maintenance:

| POSITION | MOS |
|-------------------------------|------------|
| ATC Radar Technician | 5953 |
| ATC Communications Technician | 5954 |

Minimal ASPARCS maintenance support will also provided by non-ATC Marine Corps personnel with MOSs 1142, 1161, 1169, 1341, 6492, or 8641.

(1) Preventive Maintenance. Marine Corps personnel with MOSs 5953 or 5954 perform Preventive Maintenance (PM) on ASPARCS equipment. PM will be performed at the organizational level and will consist of adjustments, alignments, inspection, lubrication, cleaning, and other tasks required to ensure continued operation of the ASPARCS. The ASPARCS will be required to run 120 continuous hours prior to PM. The PM objective will be to perform no more than two hours of PM per week.

(2) Corrective Maintenance. Marine Corps personnel with MOSs 5953 or 5954 will perform Corrective Maintenance (CM) on ASPARCS equipment. CM will consist of BIT fault isolation, removal and replacement of failed modules and components, and system functional testing. BIT and BITE will be capable of detecting faults, while isolating 95 percent of all electrical and electronic faults to no more than three ASPARCS subassemblies. CM will consist of diagnosing and isolating a malfunction to the faulty lowest replaceable unit, removing and replacing subassemblies and piece parts, performance of subassembly and subsystem adjustments and alignments as necessary, and verification that the malfunction has been corrected.

b. Intermediate. Not Applicable (NA)

c. Depot. The contractor will provide a Performance Based Logistics (PBL) program and function as the Government's commercial stocking point for material applicable to ASPARCS program not currently supported by the Navy supply system. The PBL program is a commercial depot concept that is intended to be the supply support of the ASPARCS program. The original equipment manufacturer or an authorized repair station will perform depot level

maintenance. Depot level maintenance will consist of repair, rework, and overhaul of the replaceable assemblies that are beyond the repair capability of the organizational level. For MATCD, support of software maintenance corrections, reproduction, and enhancements is also considered a depot level maintenance function. The contractor will be responsible for the repair or replacement of all failed Replaceable Units that are provisioned and will be requisitioned by the Fleet.

d. Interim Maintenance. NA

e. Life Cycle Maintenance Plan. The Life Cycle Maintenance Plan (LCMP) for the ASPARCS and associated equipment will use a five-year management concept. The LCMP will include, but not be limited to, Equipment Installation and Restoration Plans, Technical Manual Update Plans, Onboard Training Plans, Support Equipment Plans, Software Enhancement Plans, Procurement of GFE Plans, and Maintainability and Improvement Plans.

3. Manning Concept. Operation and maintenance of the ASPARCS will not require any additional manpower from the levels currently assigned in the MATCD T/O. Air Traffic Controllers holding MOS 72XX will man and use the ASPARCS in the execution of the ATC mission. ATC maintenance supervision, coordination, and administration is provided by the ATC Maintenance Officer (MOS 5950) and the ATC Maintenance Chief (MOS 5959). ATC Radar Technicians (MOS 5953) and ATC Communications Technicians (MOS 5954) will maintain the ASPARCS at the organizational level. Minimal maintenance support is also provided by non-ATC Marine Corp personnel with MOSs 1142, 1161, 1169, 1341, 6492, or 8641.

a. Estimated Maintenance Man-Hours per Operating Hour. Requirements for the ASPARCS components exclusive of the HMMWV-HV transport vehicles are based on a mission duration of 24 hours. Assuming the ASPARCS SRD and SPS thresholds are attained, the system will not generate a need for additional maintenance personnel. The ASPARCS technical parameter threshold values derived from the SRD for system reliability, availability, and repair time are as follows:

| PARAMETER | DEFINITION | THRESHOLD | OBJECTIVE |
|---------------------------------|---|------------------|------------------|
| System Operational Availability | Operational Availability, exclusive of administrative and logistic downtime | 0.95 | 0.98 |
| System Reliability | Mean Time Between Operational Mission Failures | 720 hours | 1440 hours |
| System Availability | Uptime (Uptime + Downtime) (percent of uptime usage) | 95% | 98% |

| PARAMETER | DEFINITION | THRESHOLD | OBJECTIVE |
|--|---|------------------|------------------|
| Operational Mission System Maintainability | Mean Corrective Maintenance Time for Operational Mission Failures | 25 minutes | 15 minutes |

b. Proposed Utilization. The ASPARCS proposed utilization is a period of 120 hours of continued operation without maintenance adjustments or alignments. No planned maintenance will be required during this period.

c. Recommended Qualitative and Quantitative Manpower Requirements. Qualitative and quantitative manpower requirements for ASPARCS were estimated using current MATCAL manpower data from NAVAIRSYSCOM (AIR 3.4.1), using the Table of Manpower Requirements, Total Force Structure (TFS), October 2000.

4. Training Concept. The MATCALs formal training courses established at Naval Air Technical Training Center (NATTC), Pensacola, Florida, will transition to ASPARCS courses and equipment. ASPARCS operator and maintainer training will specifically effect the MATCALs AN/TSQ-131(V) CCS, AN/TPS-73 ASR, and the AN/TPN-22 PAR systems and associated equipment. In FY04, ASPARCS training will begin to phase out the MATCALs ATC operator and maintainer training. ASPARCS operator and maintainer training will readily merge with existing training pipelines, with reduced or similar overall training times required.

Personnel selected by Headquarters, Marine Corps for MOS 72XX Air Traffic Controllers and MOS 59XX Marine Air Traffic Control (MATC) maintenance personnel will be trained in these courses to operate and maintain ASPARCS and its associated equipment.

Personnel from the Marine Forces Reserve Air Traffic Control Detachments are provided a limited number of student billets in both the controller and maintenance courses.

a. Initial Training. The contractor will establish a training program and provide operational and maintenance training prior to first article delivery and prior to the delivery of the first production unit. ASPARCS initial training will be conducted at NAWCAD Patuxent River (Webster Field), Maryland, in second quarter FY02. Initial training will ensure the transfer of required knowledge and skills to ATC operators, maintainers, instructors, Fleet Integration Team (FIT) members, and DT and OT personnel.

Title **ASPARCS Initial Operator Training**

Description This course will provide initial ASPARCS training for operators, instructors, FIT, DT and OT personnel, including:

- ASPARCS Operation
- ASPARCS Employment
- ASPARCS Capabilities
- Terminal Instrument Approach Procedures

Upon completion the student will be able to participate in DT and OT, instruct, or perform as a member of the FIT.

Location NAWCAD Patuxent River, Maryland

Length To Be Determined (TBD)

RFT date FY02

TTE/TD TBD

Prerequisites ◦ MOS 72XX
 ◦ MOS 5950
 ◦ MOS 5959

Title **ASPARCS Initial Maintainer Training**

Description This course provides initial ASPARCS training for instructors, FIT, DT, OT and cadre maintenance personnel, including:

- ASPARCS System and Component Function
- ASPARCS System and Component Troubleshooting
- ASPARCS System and Component Repair

Upon completion the student will be able to participate in DT and OT, instruct, or perform as a member of the FIT.

Location NAWCAD Patuxent River, Maryland

Length TBD

RFT date FY02

TTE/TD TBD

Prerequisites ◦ MOS 5953
 ◦ MOS 5354
 ◦ MOS 5950
 ◦ MOS 5959

b. Follow-on Training

(1) Air Traffic Controller Training. MATC operator training uses a building block approach through formal training and On-the-Job Training (OJT), as established within the Aviation Training and Readiness Manual, Marine Corps Order (MCO) 3500.19B. Officer and enlisted trainees receive 16 weeks of instruction in *C-222-2010, Air Traffic Controller A1*, conducted at NATTC Pensacola. The trainees receive basic skills and knowledge required to perform routine duties in the control and handling of aircraft in a tower or radar environment.

Upon successful completion of *C-222-2010, Air Traffic Controller A1*, Basic Air Traffic Controller Trainees (MOS 7251) receive instruction on the operation of MATCALs equipment (ASPARCS equipment in the future). Marine Corps Controllers attend this course in lieu of the Navy carrier familiarization course at the end of the Air Traffic Controller Course. Course *C-222-2021, MATCALs Operator (Basic)*, is five days in length and provides MATCD personnel with familiarization training on the MATCALs. All MATCALs ATC training will transition to ASPARCS equipment.

Trainees are then assigned to an ATC Facility or a MACS for Reservists assigned to the 4th Marine Aircraft Wing. At their assigned duty station, enlisted personnel receive further training through OJT on Radar Final Control and Radar Flight Data or Ground Control and Tower Flight Data. Once qualified, trainees are then awarded their primary MOS 7257, Air Traffic Controller. Additional training through OJT is then required to become qualified for MOS 7252, Air Traffic Controller-Tower, and MOS 7253, Air Traffic Controller-Radar. Selected Radar Air Traffic Controllers return to NATTC Pensacola for course *C-222-2022, Advanced Radar ATC*. This phase of training provides students with the skills and knowledge to perform as a basic level Radar Approach Controller at all operating positions in a Radar Approach Control Facility and become qualified for MOS 7254. Once qualified through OJT on Radar Final Control and Ground Control, Marine Corps officers are awarded MOS 7220, ATC Officer.

Additional advanced training for senior MATCD personnel is available in *C-2G-2018, MATCALs Advanced Operator Course*, which provides comprehensive training on the deployment and operation of MATCALs. Students receive instruction on the operation, capabilities, and limitations of the MATCALs. Students are also instructed on developing and designing United States Standard Terminal Instrument Procedures. This advanced operator course will transition to ASPARCS equipment. The following courses have been established specifically for MATCALs operator training, and will transition to ASPARCS operator training beginning in FY04.

Title **MATCALs Advanced Operator Course**
CIN C-2G-2018
Model Manager .. NATTC Pensacola
Description This course provides senior MATCD personnel with comprehensive training on MATCALs deployment and operation, including:
 ° MATCALs Operation
 ° MATCALs Employment
 ° MATCALs Capabilities
 ° Terminal Instrument Approach Procedures
 Upon completion, the student will be able to perform tasks in an expeditionary environment during tactical conditions.
Location Marine Aviation Training Support Group (MATSG)
 Pensacola
Length 26 days (TBD)
RFT date Currently available (transition to ASPARCS in FY04)
Skill identifier None
TTE/TD..... ° Various MATCALs subsystems and equipment
 ° Various ASPARCS subsystems and equipment
Prerequisite..... ° C-222-2021, MATCALs Operator
 ° E-5 and above

Title **MATCALs Operator**
CIN C-222-2021
Model Manager .. NATTC Pensacola
Description This course provides training to MATCD personnel with entry level knowledge and skills needed to operate the MATCALs equipment, including:
 ° MATCALs and Subsystems Familiarization
 ° MATCALs and Subsystems Operation
 Upon completion, the student will be able to perform basic MATC functions in a tactical environment.
Location MATSG Pensacola
Length 5 days (TBD)
RFT date Currently available (transition to ASPARCS in FY04)

Skill identifier MOS 7251
TTE/TD..... ° Various MATCALs subsystems and equipment
° Various ASPARCS subsystems and equipment
Prerequisite..... C-222-2010, Air Traffic Controller Class A1

(2) Maintenance Training. MATC maintenance training is conducted at NATTC Pensacola. Students must complete the following prerequisite training prior to attending the MATC maintenance courses: *C-100-2020, Avionics Common Core Class A1*, and *C-100-2017, Avionics Technician I Level*. After successful completion of these courses, trainees attend one of the two technician pipelines: *C-103-2080, MATC Radar Technician Pipeline*, or *C-103-2090, MATC Communications Technician Pipeline*. Additionally, there is a supervisor and manager pipeline, *C-103-2110, MATCALs Maintenance Management and System Analysis Pipeline*. These pipelines will transition from MATCALs to ASPARCS. Marines may return to NATTC Pensacola to receive initial or refresher training in a segment of the pipeline they had not previously attended, providing sufficient student seats are available. The following courses have been established specifically for MATCALs maintenance training and will transition to ASPARCS maintenance training beginning in FY04.

Title **MATCALs Maintenance Management and System Analysis Pipeline**
CIN C-103-2110
Model Manager .. NATTC Pensacola
Description This pipeline provides career MATCD Technicians, Maintenance Officers, ATC Officers, and Maintenance Chiefs with advanced technical training to improve their skills and abilities in the performance of maintenance management, maintenance training, and supervision of an expeditionary MATCD. This pipeline consists of two courses including:
° C-103-2111, MATCALs Maintenance Management
° C-103-2112, MATCALs System Analysis
Upon completion, the student will be able to perform maintenance management in an MACS without supervision.
Location MATSG Pensacola
Length 39 days
RFT date Currently available (transition to ASPARCS in FY04)
Skill identifier None
TTE/TD NA

Prerequisite..... ° MOS 5950, 5953, 5954 or 5959
 ° Paygrades E-6 through E-8, or W-1 or W-2
 or
 ° MOS 7220
 ° Paygrades O-1 through O-3

Title **MATC Radar Technician Pipeline**

CIN C-103-2080

Model Manager .. NATTC Pensacola

Description This pipeline provides general knowledge and skills to perform preventive and corrective maintenance on the MATC radar equipment. This pipeline consists of the following five courses:

- ° C-103-2026, Miniature Component Repair
- ° C-103-2072, MATC Technician Common Core Course
- ° C-103-2081, AN/TPN-22 Radar Maintenance
- ° C-103-2084, AN/TPS-73 Radar Maintenance
- ° C-103-2083, AN/UYQ-34 Processor Display Set Maintenance

Upon completion, the student will be able to perform as a MATCD Radar Technician in an MACS under supervision.

Location MATSG Pensacola

Length 247 days

RFT date Currently available (transition to ASPARCS in FY04)

Skill identifier MOS 5953

TTE/TD ASPARCS Training Device (TD) and Technical Training Equipment (TTE) TBD

Prerequisite..... ° C-100-2017, Avionics Technician I Level
 ° C-100-2020, Avionics Common Core Class A1

Title **MATC Communications Technician Pipeline**
CIN C-103-2090
Model Manager .. NATTC Pensacola
Description This pipeline provides general knowledge and skills to perform preventive and corrective maintenance on the MATC communications equipment. This pipeline consists of the following six courses:
 ° C-103-2026, Miniature Component Repair
 ° C-103-2072, MATC Technician Common Core Course
 ° C-103-2091, MATCALS Radio Maintenance Course
 ° C-103-2092, AN/TSQ-120 Maintenance
 ° C-103-2093, AN/TSQ-131 Maintenance
 ° C-103-2094, AN/TSQ-216 Remote Landing Site Tower Maintenance
 Upon completion, the student will be able to perform as a MATCD Communications Technician in an MACS under supervision.
Location MATSG Pensacola
Length 172 days
RFT date Currently available (transition to ASPARCS in FY04)
Skill identifier MOS 5954
TTE/TD ASPARCS TTE/TD TBD
Prerequisite..... ° C-100-2017, Avionics Technician I Level
 ° C-100-2020, Avionics Common Core Class A1

c. Student Profiles

| SKILL IDENTIFIER | PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS |
|----------------------------|---|
| MOS 7220, 7252, 7253,7257 | ° C-222-2010, Air Traffic Controller Class A1 |
| MOS 7254 | ° C-222-2010, Air Traffic Controller Class A1 ° C-222-2022, Advanced Radar Air Traffic Control |
| MOS 5950, 5953, 5954, 5959 | ° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level |

d. Training Pipelines. The existing MATCALs courses and pipelines will be modified to include ASPARCS. Eventually, the MATCALs portion of the courses will be phased out. The effect of the modifications including course and pipelines lengths will be included in future updates to this NTSP.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. MACS Onboard Training. Onboard Training at the MACS consists of controller qualification and proficiency training and maintenance technical training programs. These systematic training programs are conducted by senior squadron personnel to ensure a high state of operational readiness of the squadron. This is accomplished by maintaining and improving the efficiency and technical expertise of MACS controllers and maintenance personnel within their MOSs. This training consists of classroom instruction and “hands-on” practical application with the supervision of qualified personnel. In addition, individual OJT can be accomplished with the use of audio-visual aids, technical manuals, and Planned Maintenance System documentation.

(1) Air Traffic Controllers. The existing radar equipment pipeline contains a Training Mode for Air Traffic Controllers that provides scenarios closely resembling those of the Arrival and Departure Control (ADC) and Final Control (FC) displays. Instructor sub-modes provide the capability to generate simulated radar targets and to control them so that their behavior can be made to resemble a live radar target. The trainee sub-modes provide the same display and entry capabilities as the corresponding operator modes (ADC or FC) and allows the controller to exercise those capabilities on the simulated targets. This training should be transitioned as relevant to ASPARCS equipment.

(2) In-the-Field Controller. An annual In-the-Field Controller Training Program is presented by In-Service Engineering Activity (ISEA) at selected MATCD sites. This course provides familiarization training on the MATCALs to personnel who are new to the field or who have been stationed away from the MATCD. This program will be transitioned to ASPARCS.

(3) Marine Air Traffic Controller Maintenance. The ISEA is responsible for developing and providing TD and TTE for maintenance training on the MATC systems and equipment. ISEA coordinates with NATTC Pensacola and the MACS to determine the requirements for OJT on MATC systems and equipment.

(4) On-Site Maintenance. The ISEA for MATC systems and equipment will provide on-site maintenance instruction to MATCD personnel, if required.

(5) Annual Training Schedule. The quarterly MATC newsletter, published by Space and Naval Warfare Systems Center, provides the annual training schedule for MATC maintenance and seat availability for Fleet Marine Force refresher training, as well as initial training for new systems.

b. Aviation Maintenance Training Continuum System. ASPARCS maintenance personnel will use the Aviation Maintenance Training Continuum System (AMTCS). ASPARCS operator personnel will use the MATC operator building block approach through formal training and OJT, as established within the Aviation Training and Readiness Manual, MCO 3500.19B.

AMTCS will provide career path training to a Sailor or Marine from their initial service entry to the end of their military career. AMTCS concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

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

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

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are 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 Maintenance Training Improvement Program and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System (ITSS) and 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, documentable, 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. Currently the MATCALS ITSS/MATMEP instruction is being reviewed, although there are no changes expected for MATCALS and

ASPARCS maintenance requirements. Future updates to this NTSP will include any decisions concerning Marine Corps in-service training.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

| CONTRACT NUMBER | MANUFACTURER | ADDRESS |
|-----------------|---|---------------------------------------|
| N0019-00-C-0340 | Lockheed Martin Corporation Naval Electronics and Surveillance Systems | 6417 Deere Road Syracuse, NY 13206 |

2. Program Documentation. The Operational Requirements Document (ORD), AAS 48.1, was updated in June 2000. The SRD, NAVAIR/213-99-0001, was updated in April 2000. The MATCALC NTSP, N88-NTSP-A-50-9804/A, was updated in July 2000.

3. Technical Data Plan. The contractor will provide and update, as required, Technical Manuals per the Technical Manual Contract Requirements for COTS, Technical Manual Contract Requirements for NDI, and the Technical Manual Contract Requirements for Military Specifications. The ASPARCS technical manuals contract will include training, operation, maintenance, support equipment, and repair instructions with illustrated parts breakdown.

4. Test Sets, Tools, and Test Equipment. ASPARCS tools and test equipment will be selected from Marine Corps common tools and general purpose test equipment listed in the current editions of General Purpose Electronic Test Equipment, where possible. Either Metric or American Standard hardware will be used in the system, but not both. Special Purpose Electronic Test Equipment or Special Tools, if required for maintenance of the system at the organizational level, will be provided as part of the system and be supported by the contractor.

5. Repair Parts. The contractor will establish and administer a Direct Vendor Delivery (DVD) for the ASPARCS program. Under the DVD concept, the contractor will function as the Government's Commercial Stock Point (CSP) for material applicable to ASPARCS program not currently supported by the Navy supply system. The CSP performs all routine inventory management functions for Ready For Issue (RFI) and non-RFI components including receiving, shipping, tracking, warehousing, reporting, and scheduling. The Government will require the contractor to maintain the form, fit, and functional equivalency of all Lowest Replaceable Units and modules throughout the 20-year ASPARCS life cycle. Elements of the supply support program are defined in the Integrated Support Plan (ISP). The DVD program will be implemented in accordance with the provisions of the ISP and the DVD Statement of Objectives (SOO). The contractor will provide a PBL program and function as the Government commercial stocking point. The ASPARCS Material Support Date (MSD) is scheduled for FY04.

6. Human Systems Integration. The ASPARCS Human Systems Integration program will achieve the effective integration of personnel into the design of the system. The human engineering effort will include, but not necessarily be limited to active participation in the following three major interrelated areas of system development: analysis, design and test, and evaluation. The use of NDI, COTS, and GOTS hardware, software, and firmware common to other systems should not require new personnel specialties, but rather an extension of the skill levels. Further, the use of highly reliable, integrated common support systems should result in the more efficient use of operating and support personnel.

K. SCHEDULES. Initial Operational Capability (IOC) for ASPARCS will be achieved after Phase I ATC core capability ASPARS is delivered to an operational unit and fielded with its required support equipment, training support, publications, and trained personnel in place. IOC for ASPARCS is scheduled for FY04. ASPARCS Full Operational Capability (FOC) is scheduled for FY09. NATTC Pensacola RFT is scheduled for fourth quarter FY04.

1. Installation and Delivery Schedules. Currently, an ASPARCS delivery schedule for specific activities does not exist. A total of 12 ASPARCS deliveries are contracted; tentative plans indicate that NATTC Pensacola and MACS-2 Cherry Point will receive the first articles. ASPARCS delivery quantities by FY are as follows:

| YEAR | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 | FY09 |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| DELIVERIES | 1 | 2 | 2 | 2 | 2 | 2 | 1 |

The following chart is not an ASPARCS delivery schedule. The activities indicated below are potential candidates to receive the ASPARCS.

| EAST COAST | OVERSEAS |
|-----------------------------------|------------------------------------|
| MACS-2, ATC Det A, Beaufort | MACS-4, ATC Det A, Futenma |
| MACS-2, ATC Det B, New River | MACS-4, ATC Det B, Iwakuni |
| MACS-2, ATC Det D, Bogue Field | RESERVE |
| WEST COAST | MACS-24, ATC Det A, JRB Fort Worth |
| MACS-1, ATC Det B, Miramar | OTHER |
| MACS-1, ATC Det C, Yuma | NATTC Pensacola |
| MACS-1, ATC Det A, Camp Pendleton | NAWCAD Patuxent River |

2. Ready For Operational Use Schedule. ASPARCS will be Ready For Operational Use upon receipt of the ASPARCS and subsystem equipment, calibration, and successful operational check out at each MATCD.

3. Time Required to Install at Operational Sites. The time required to install ASPARCS at MATCDs will be minimal since it is replacing equipment already in use with a direct replacement item. The time required to install ASPARCS at NATTC Pensacola is unknown. This information will be provided in future updates to this ASPARCS NTSP.

4. Foreign Military Sales and Other Source Delivery Schedule. No FMS are planned at this time; however, the Joint Potential Designations are Joint Interest for the U.S. Army, Navy, and Air Force. Information concerning FMS or Joint Potential Designations may be obtained from PMA213.

5. Training Device and Technical Training Equipment Delivery Schedule. Currently, ASPARCS TD and TTE have not been identified. NATTC Pensacola is scheduled to be RFT in FY04. ASPARCS TD and TTE information will be included in future iterations of this ASPARCS NTSP.

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

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

| DOCUMENT OR NTSP TITLE | DOCUMENT OR NTSP NUMBER | PDA CODE | STATUS |
|-------------------------------|--------------------------------|-----------------|-----------------|
| MATCALs NTSP | N88-NTSP-A-50-9804/D | PMA2134 | Approved Jul 00 |
| ORD for ASPARCS | AAS 48.1 Change 2 | PMA213 | Approved Jun 00 |
| SRD for ASPARCS | NAVAIR/213-99-0001 | PMA213 | Approved Apr 00 |
| SOO for ASPARCS | ASPARCS SOO | PMA213 | Approved Feb 00 |
| CAC2S Mission Need Statement | AAS 48 | PMA213 | Approved Apr 95 |
| ASPARCS ISP | | PMA213 | Approved |

| DOCUMENT OR NTSP TITLE | DOCUMENT OR NTSP NUMBER | PDA CODE | STATUS |
|-----------------------------------|------------------------------------|---------------------|--------------------|
| DVD SOW for ASPARCS | N00019-99-R-1384 | PMA213 | Approved Feb 00 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the ASPARCS program and, therefore, are not included in Part II of this NTSP:

- II.A.1.b. Billets Required for Operational and Fleet Support Activities
- II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule
- II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities
- II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

Note: At this time, a definitive ASPARCS delivery schedule is not available. The activities, billets, and training courses depicted in Part II already exist in support of MATCALs. The purpose of this Part II is to show the transition to ASPARCS. A complete list of MATCALs activities, billets, and student throughput can be found in the MATCALs NTSP, N88-NTSP-A-50-9804/A, July 2000.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

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

SOURCE OF BILLETS: Extract from Table of Manpower Requirements, TFS, MCCDC

DATE: April 2001

| ACTIVITY | UIC | PFYs | CFY01 | FY02 | FY03 | FY04 | FY05 |
|---------------------------------|------------|-------------|--------------|-------------|-------------|-------------|-------------|
| FLEET SUPPORT ACTIVITIES - USMC | | | | | | | |
| NATTC Pensacola | 39831 | 0 | 0 | 0 | 1 | 1 | 0 |
| MACS MATCD | XXXXX | 0 | 0 | 0 | 0 | 1 | 2 |
| TOTAL: | | 0 | 0 | 0 | 1 | 2 | 2 |

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

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|--|----------|-----------|------------------|---------------|---------------|
| | OFF | ENL | | | |
| FLEET SUPPORT ACTIVITIES - USMC | | | | | |
| MACS MATCD, XXXXX, FY04 Increment | | | | | |
| USMC | 1 | 0 | CAPT | 7220 | |
| | 1 | 0 | CWO2 | 5950 | |
| | 2 | 0 | LT | 7220 | |
| | 0 | 1 | CPL | 1142 | 9954 |
| | 0 | 1 | CPL | 1161 | |
| | 0 | 1 | CPL | 5952 | |
| | 0 | 2 | CPL | 5953 | |
| | 0 | 2 | CPL | 5954 | |
| | 0 | 1 | CPL | 6492 | |
| | 0 | 2 | CPL | 7257 | 7252 |
| | 0 | 2 | CPL | 7257 | 7254 |
| | 0 | 1 | GYSGT | 1169 | |
| | 0 | 1 | GYSGT | 5952 | |
| | 0 | 1 | GYSGT | 5953 | |
| | 0 | 1 | GYSGT | 5954 | |
| | 0 | 2 | GYSGT | 7257 | |
| | 0 | 1 | LCPL | 1341 | |
| | 0 | 3 | LCPL | 5952 | |
| | 0 | 4 | LCPL | 5953 | |
| | 0 | 4 | LCPL | 5954 | |
| | 0 | 7 | LCPL | 7257 | 7252 |
| | 0 | 11 | LCPL | 7257 | 7254 |
| | 0 | 1 | MSGT | 5959 | |
| | 0 | 1 | MSGT | 7291 | |
| | 0 | 1 | SGT | 1341 | |
| | 0 | 1 | SGT | 5952 | |
| | 0 | 1 | SGT | 5953 | |
| | 0 | 1 | SGT | 5954 | |
| | 0 | 2 | SGT | 7257 | 7252 |
| | 0 | 3 | SGT | 7257 | 7254 |
| | 0 | 1 | SSGT | 5952 | |
| | 0 | 1 | SSGT | 5953 | |
| | 0 | 1 | SSGT | 5954 | |
| | 0 | 3 | SSGT | 7257 | |
| ACTIVITY TOTAL: | 4 | 65 | | | |

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

| DESIG/ RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|--------------------------------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| USMC FLEET SUPPORT ACTIVITIES - USMC | | | | | | | | | | | | | |
| CAPT | 7220 | | 0 | | 0 | | 0 | | 0 | | 10 | | 0 |
| CWO2 | 5950 | | 0 | | 0 | | 0 | | 0 | | 8 | | 0 |
| LT | 7220 | | 0 | | 0 | | 0 | | 0 | | 16 | | 0 |
| CPL | 1142 | 9954 | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| CPL | 1161 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| CPL | 5952 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| CPL | 5953 | | | 0 | | 0 | | 0 | | 0 | 16 | | 0 |
| CPL | 5954 | | | 0 | | 0 | | 0 | | 0 | 16 | | 0 |
| CPL | 6492 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| CPL | 7257 | 7252 | | 0 | | 0 | | 0 | | 0 | 16 | | 0 |
| CPL | 7257 | 7254 | | 0 | | 0 | | 0 | | 0 | 16 | | 0 |
| GYSGT | 1169 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| GYSGT | 5952 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| GYSGT | 5953 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| GYSGT | 5954 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| GYSGT | 7257 | | | 0 | | 0 | | 0 | | 0 | 18 | | 0 |
| LCPL | 1341 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| LCPL | 5952 | | | 0 | | 0 | | 0 | | 0 | 24 | | 0 |
| LCPL | 5953 | | | 0 | | 0 | | 0 | | 0 | 34 | | 0 |
| LCPL | 5954 | | | 0 | | 0 | | 0 | | 0 | 32 | | 0 |
| LCPL | 7257 | 7252 | | 0 | | 0 | | 0 | | 0 | 56 | | 0 |
| LCPL | 7257 | 7254 | | 0 | | 0 | | 0 | | 0 | 88 | | 0 |
| MGYSGT | 5959 | | | 0 | | 0 | | 0 | | 0 | 2 | | 0 |
| MGYSGT | 7291 | | | 0 | | 0 | | 0 | | 0 | 2 | | 0 |
| MSGT | 5959 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| MSGT | 7291 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| SGT | 1341 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| SGT | 5952 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| SGT | 5953 | | | 0 | | 0 | | 0 | | 0 | 10 | | 0 |
| SGT | 5954 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| SGT | 7257 | 7252 | | 0 | | 0 | | 0 | | 0 | 16 | | 0 |
| SGT | 7257 | 7254 | | 0 | | 0 | | 0 | | 0 | 24 | | 0 |
| SSGT | 5952 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| SSGT | 5953 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| SSGT | 5954 | | | 0 | | 0 | | 0 | | 0 | 8 | | 0 |
| SSGT | 7257 | | | 0 | | 0 | | 0 | | 0 | 24 | | 0 |

SUMMARY TOTALS:

| | | | | | | | | | | | | | | | |
|--------------------------------------|--|--|---|---|---|---|---|---|---|---|---|----|-----|---|---|
| USMC FLEET SUPPORT ACTIVITIES - USMC | | | | | | | | | | | | | | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 530 | 0 | 0 |

GRAND TOTALS:

| | | | | | | | | | | | | | | | |
|-------------|--|--|---|---|---|---|---|---|---|---|---|----|-----|---|---|
| USMC - USMC | | | | | | | | | | | | | | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 530 | 0 | 0 |

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

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

TRAINING ACTIVITY, LOCATION, UIC: Marine Aviation Training Support Group, Pensacola, 39831

INSTRUCTOR BILLETS

| USMC | | | | | | | | | | | | | |
|-------|------|------|---|---|---|---|---|---|----|---|----|---|----|
| CPL | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 4 |
| CPL | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 |
| GYSGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| GYSGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| GYSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 4 |
| MSGT | 7291 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| SGT | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 5 |
| SGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 7 |
| SGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 5 |
| SGT | 7257 | 7252 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 |
| SGT | 7257 | 7253 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 5 |
| SSGT | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 4 |
| SSGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 4 |
| SSGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 5 |
| SSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 0 | 11 |

SUPPORT BILLETS

| USMC | | | | | | | | | | | | | |
|---------------|------|--|---|---|---|---|---|---|----|---|----|---|----|
| CAPT | 7220 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| CPL | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| CPL | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| CPL | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| GYSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| LCPL | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 |
| LCPL | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 4 |
| LCPL | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| MSGT | 5959 | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 4 |
| SGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| SSGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| SSGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| SSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| TOTAL: | | | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 1 | 80 | 1 | 80 |

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

| ACTIVITY, LOCATION, UIC | USN/ USMC | PFYs | | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|--|--------------|------|-----|-------|-----|------|-----|------|-----|------|------|------|------|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Marine Aviation Training Support Group, Pensacola, 39831 | | | | | | | | | | | | | |
| | USMC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 53.5 | 0.5 | 25.8 |

SUMMARY TOTALS:

| | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|
| USMC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 53.5 | 0.5 | 25.8 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|

GRAND TOTALS:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 53.5 | 0.5 | 25.8 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | BILLET BASE | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|------------------|---------------|---------------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM |

a. OFFICER - USN Not Applicable

b. ENLISTED - USN Not Applicable

c. OFFICER - USMC

Fleet Support Billets USMC and AR

| | | | | | | | | | | | | | |
|------|------|--|---|---|---|---|---|---|---|----|----|---|----|
| CAPT | 7220 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 0 | 10 |
| CWO2 | 5950 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| LT | 7220 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 16 |

Staff Billets USMC and AR

| | | | | | | | | | | | | | |
|------|------|--|---|---|---|---|---|---|---|---|---|---|---|
| CAPT | 7220 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
|------|------|--|---|---|---|---|---|---|---|---|---|---|---|

Chargeable Student Billets USMC and AR

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | -1 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|----|---|

TOTAL USMC OFFICER BILLETS:

| | | | | | | | | | | | | | |
|---------------|--|--|---|---|---|---|---|---|---|----|----|---|----|
| Fleet Support | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 34 | 0 | 34 |
|---------------|--|--|---|---|---|---|---|---|---|----|----|---|----|

| | | | | | | | | | | | | | |
|-------|--|--|---|---|---|---|---|---|---|---|---|---|---|
| Staff | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
|-------|--|--|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | |
|--------------------|--|--|---|---|---|---|---|---|---|---|---|----|---|
| Chargeable Student | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | -1 | 1 |
|--------------------|--|--|---|---|---|---|---|---|---|---|---|----|---|

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | BILLET BASE | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|------------------|---------------|---------------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM |

d. ENLISTED - USMC

Fleet Support Billets USMC and AR

| | | | | | | | | | | | | | |
|--------|------|------|---|---|---|---|---|---|---|----|----|---|----|
| CPL | 1142 | 9954 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| CPL | 1161 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| CPL | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| CPL | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 16 |
| CPL | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 16 |
| CPL | 6492 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| CPL | 7257 | 7252 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 16 |
| CPL | 7257 | 7254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 16 |
| GYSGT | 1169 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| GYSGT | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| GYSGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| GYSGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| GYSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 18 | 0 | 18 |
| LCPL | 1341 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| LCPL | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 24 | 0 | 24 |
| LCPL | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 34 | 0 | 34 |
| LCPL | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 32 | 0 | 32 |
| LCPL | 7257 | 7252 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 56 | 0 | 56 |
| LCPL | 7257 | 7254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 88 | 0 | 88 |
| MGYSGT | 5959 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 |
| MGYSGT | 7291 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 |
| MSGT | 5959 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| MSGT | 7291 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| SGT | 1341 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| SGT | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| SGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 0 | 10 |
| SGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| SGT | 7257 | 7252 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 16 |
| SGT | 7257 | 7254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 24 | 0 | 24 |
| SSGT | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| SSGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| SSGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 8 |
| SSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 24 | 0 | 24 |

Staff Billets USMC and AR

| | | | | | | | | | | | | | |
|-------|------|--|---|---|---|---|---|---|---|---|---|---|---|
| CPL | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| CPL | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| CPL | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| GYSGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| GYSGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| GYSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| LCPL | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| LCPL | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| LCPL | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| MSGT | 5959 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| MSGT | 7291 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | BILLET BASE | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|--|---------------|---------------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM |
| SGT | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| SGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 |
| SGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| SGT | 7257 | 7252 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| SGT | 7257 | 7253 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| SSGT | 5952 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| SSGT | 5953 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| SSGT | 5954 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| SSGT | 7257 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 |
| Chargeable Student Billets USMC and AR | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 54 | -28 | 26 |
| TOTAL USMC ENLISTED BILLETS: | | | | | | | | | | | | | |
| Fleet Support | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 530 | 530 | 0 | 530 |
| Staff | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 80 |
| Chargeable Student | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 54 | -28 | 26 |

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-2G-2018, MATCALs Advanced Operator Course

COURSE LENGTH: 4.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.08

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|---|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Marine Aviation Training Support Group, Pensacola | | | | | | | | | | | | |
| | USMC | USMC | | 0 | | 0 | | 0 | | 56 | | 18 |
| | | TOTAL: | | 0 | | 0 | | 0 | | 56 | | 18 |

CIN, COURSE TITLE: C-222-2021, MATCALs Operator

COURSE LENGTH: 1.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|---|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Marine Aviation Training Support Group, Pensacola | | | | | | | | | | | | |
| | USMC | USMC | | 0 | | 0 | | 0 | | 235 | | 62 |
| | | TOTAL: | | 0 | | 0 | | 0 | | 235 | | 62 |

CIN, COURSE TITLE: C-103-2110, MATCALs Maintenance Management and System Analysis Pipeline

COURSE LENGTH: 5.8 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.12

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|---|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Marine Aviation Training Support Group, Pensacola | | | | | | | | | | | | |
| | USMC | USMC | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 26 | 5 | 9 |
| | | TOTAL: | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 26 | 5 | 9 |

CIN, COURSE TITLE: C-103-2080, MATC Radar Technician Pipeline

COURSE LENGTH: 35.4 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.71

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|---|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Marine Aviation Training Support Group, Pensacola | | | | | | | | | | | | |
| | USMC | USMC | | 0 | | 0 | | 0 | | 35 | | 21 |
| | | TOTAL: | | 0 | | 0 | | 0 | | 35 | | 21 |

CIN, COURSE TITLE: C-103-2090, MATC Communications Technician Pipeline

COURSE LENGTH: 24.8 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.50

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | |
|---|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Marine Aviation Training Support Group, Pensacola | | | | | | | | | | | | |
| | USMC | USMC | | 0 | | 0 | | 0 | | 42 | | 18 |
| | | TOTAL: | | 0 | | 0 | | 0 | | 42 | | 18 |

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the ASPARCS program and, therefore, are not included in Part III of this NTSP:

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

PART III - TRAINING REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: ASPARCS Initial Maintainer Training
COURSE DEVELOPER: Lockheed Martin Corporation
COURSE INSTRUCTOR: Lockheed Martin Corporation
COURSE LENGTH: 14 Days
ACTIVITY DESTINATIONS: Patuxent River, Maryland

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | |
|--|-------------------|-----------------|------------|------------|------------|
| | | OFF | ENL | CIV | |
| NAWCAD Patuxent River, Maryland, 00421 | Feb 02 | 2 | 7 | 1 | Input |
| | | 0.1 | 0.3 | | AOB |
| | | 0 | 0 | | Chargeable |

COURSE TITLE: ASPARCS Initial Operator Training
COURSE DEVELOPER: Lockheed Martin Corporation
COURSE INSTRUCTOR: Lockheed Martin Corporation
COURSE LENGTH: 14 Days
ACTIVITY DESTINATIONS: Patuxent River, Maryland

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | |
|--|-------------------|-----------------|------------|------------|------------|
| | | OFF | ENL | CIV | |
| NAWCAD Patuxent River, Maryland, 00421 | Feb 02 | 2 | 7 | 1 | Input |
| | | 0.1 | 0.3 | | AOB |
| | | 0 | 0 | | Chargeable |

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-2G-2018, MATCALs Advanced Operator Course
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC: Pensacola, 39831

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

| CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 0 | | 0 | | 0 | | 56 | | 18 | ATIR |
| | 0 | | 0 | | 0 | | 56 | | 18 | Output |
| | 0.0 | | 0.0 | | 0.0 | | 4.0 | | 1.3 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 4.0 | | 1.3 | Chargeable |

CIN, COURSE TITLE: C-222-2021, MATCALs Operator
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC: Pensacola, 39831

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

| CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 0 | | 0 | | 0 | | 235 | | 62 | ATIR |
| | 0 | | 0 | | 0 | | 235 | | 62 | Output |
| | 0.0 | | 0.0 | | 0.0 | | 3.2 | | 0.8 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 3.2 | | 0.8 | Chargeable |

CIN, COURSE TITLE: C-103-2110, MATCALs Maintenance Management and System Analysis Pipeline
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC: Pensacola, 39831

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

| CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | | |
| | 0 | | 0 | | 0 | | 19 | | 5 | 9 | ATIR |
| | 0 | | 0 | | 0 | | 19 | | 5 | 9 | Output |
| | 0.0 | | 0.0 | | 0.0 | | 2.0 | | 0.5 | 1.0 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 2.0 | | 0.5 | 1.0 | Chargeable |

CIN, COURSE TITLE: C-103-2080, MATC Radar Technician Pipeline
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC: Pensacola, 39831

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

| CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | | |
|-------|-----|------|-----|------|-----|------|------|------|------|--------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 0 | | 0 | | 0 | | 35 | | 21 | ATIR |
| | 0 | | 0 | | 0 | | 35 | | 21 | Output |
| | 0.0 | | 0.0 | | 0.0 | | 23.7 | | 14.2 | AOB |

| | | | | | | |
|--|-----|-----|-----|------|------|------------|
| | 0.0 | 0.0 | 0.0 | 23.7 | 14.2 | Chargeable |
|--|-----|-----|-----|------|------|------------|

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-103-2090, MATC Communications Technician Pipeline
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC: Pensacola, 39831

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

| CFY01 | | FY02 | | FY03 | | FY04 | | FY05 | | |
|-------|-----|------|-----|------|-----|------|------|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 0 | | 0 | | 0 | | 42 | | 18 | ATIR |
| | 0 | | 0 | | 0 | | 42 | | 18 | Output |
| | 0.0 | | 0.0 | | 0.0 | | 19.8 | | 8.5 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 19.8 | | 8.5 | Chargeable |

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

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

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

Note: ASPARCS Training Devices have not been identified to date.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

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

CIN, COURSE TITLE: C-103-2081, AN/TPN-22 Radar Maintenance (Track C-103-2080)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

CIN, COURSE TITLE: C-103-2083, AN/UYQ-34 Processor Display Set Maintenance (Track C-103-2080)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

CIN, COURSE TITLE: C-103-2084, AN/TPS-73 Radar Maintenance (Track C-103-2080)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

CIN, COURSE TITLE: C-103-2072, MATC Technician Common Core (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

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

CIN, COURSE TITLE: C-103-2091, MATCALs Radio Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

CIN, COURSE TITLE: C-103-2094, AN/TSQ-216 Remote Landing Site Tower Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

CIN, COURSE TITLE: C-103-2092, AN/TSQ-120 Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

CIN, COURSE TITLE: C-103-2093, AN/TSQ-131 Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

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

CIN, COURSE TITLE: C-222-2021, MATCALs Operator
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

CIN, COURSE TITLE: C-2G-2018, MATCALs Advanced Operator Course
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC: Pensacola, 39831

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE 0000 | ASPARCS Technical Training Equipment | TBD | Sep 04 | CFE | Pending |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-103-2072, MATC Technician Common Core (Track C-103-2080)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|-----------------|------------------|---------------|
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2081, AN/TPN-22 Radar Maintenance (Track C-103-2080)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|-----------------|------------------|---------------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2083, AN/UYQ-34 Processor Display Set Maintenance (Track C-103-2080)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|-----------------|------------------|---------------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2084, AN/TPS-73 Radar Maintenance (Track C-103-2080)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|-----------------|------------------|---------------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2090, MATC Communications Technician Pipeline

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|-----------------|------------------|---------------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

ASPARCS Wall Charts 1 Set Sep 04 Pending

CIN, COURSE TITLE: C-103-2072, MATC Technician Common Core (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------|----------|-----------|---------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2091, MATCALC Radio Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|----------|-----------|---------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2094, AN/TSQ-216 Remote Landing Site Tower Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|----------|-----------|---------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2092, AN/TSQ-120 Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|----------|-----------|---------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2093, AN/TSQ-131 Maintenance (Track C-103-2090)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|----------|-----------|---------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

| | | | |
|------------------------|-------|--------|---------|
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2111, MATCALs Maintenance Management and System Analysis Pipeline (Track C-103-2110)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|--|----------|-----------|----------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |
| Computer: Current Processing Standards for Navy and Marine Corps | 4 each | Mar 94 | On board |

CIN, COURSE TITLE: C-103-2112, MATCALs System Analysis (Track C-103-2110)

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|----------|-----------|---------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

CIN, COURSE TITLE: C-222-2021, MATCALs Operator

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|----------|-----------|---------|
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |

CIN, COURSE TITLE: C-2G-2018, MATCALs Advanced Operator Course

TRAINING ACTIVITY: Marine Aviation Training Support Group

LOCATION, UIC: Pensacola, 39831

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|-----------------------------------|----------|-----------|---------|
| ASPARCS Instructor Guides | 4 | Sep 04 | Pending |
| ASPARCS Slides/Transparencies | 1 Set | Sep 04 | Pending |
| ASPARCS Student Achievement Tests | 10 | Sep 04 | Pending |
| ASPARCS Student Guides | 10 | Sep 04 | Pending |
| ASPARCS Wall Charts | 1 Set | Sep 04 | Pending |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-103-2081, AN/TPN-22 Radar Maintenance (Track C-103-2080)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | TBD | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2083, AN/UYQ-34 Processor Display Set Maintenance (Track C-103-2080)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | TBD | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2084, AN/TPS-73 Radar Maintenance (Track C-103-2080)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2072, MATC Technician Common Core (Track C-103-2090)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2091, MATCALs Radio Maintenance (Track C-103-2090)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2094, AN/TSQ-216 Remote Landing Site Tower Maintenance (Track C-103-2090)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-103-2092, AN/TSQ-120 Maintenance (Track C-103-2090)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2093, AN/TSQ-131 Maintenance (Track C-103-2090)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2111, MATCALs Maintenance Management and System Analysis Pipeline (Track C-103-2110)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-103-2112, MATCALs System Analysis (Track C-103-2110)
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-222-2021, MATCALs Operator
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

CIN, COURSE TITLE: C-2G-2018, MATCALs Advanced Operator Course
TRAINING ACTIVITY: Marine Aviation Training Support Group
LOCATION, UIC : Pensacola, 39831

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--------------------------------------|-----------|----------|-----------|---------|
| *APARCS Technical Manual, Number TBD | Hard copy | 8 | Sep 04 | Pending |

PART V - MPT MILESTONES

| COG CODE | MPT MILESTONES | DATE | STATUS |
|-----------------|--|-------------|---------------|
| PDA | Validated the Requirement (CAC2S MNS AAS 48) for an ATC Capability to Control Aircraft | Apr 95 | Completed |
| PDA | Promulgated ASPARCS Basic SRD | Nov 99 | Completed |
| PDA | Approved ASPARCS DVD/SOO and SOW | Feb 00 | Completed |
| PDA | Updated ASPARCS SRD | Apr 00 | Completed |
| PDA | Promulgated Draft ASPARCS ISP | Jun 00 | Completed |
| PDA | Updated ASPARCS ORD | Jun 00 | Completed |
| PDA | Awarded ASPARCS Contract to Lockheed Martin Corporation | Jul 00 | Completed |
| OPO | Promulgated Initial ASPARCS NTSP | Dec 00 | Completed |
| OPO | Promulgated Draft ASPARCS NTSP | May 01 | Completed |
| OPTEVFOR | Begin ASPARCS DT at Patuxent River | Apr 02 | Pending |
| OPTEVFOR | Begin ASPARCS OT at Bouge Field | Oct 02 | Pending |
| PDA | Deliver ASPARCS to NATTC Pensacola | FY03 | Pending |
| TSA | Deliver ASPARCS ATC Curriculum | FY03 | Pending |
| TSA | Deliver NATTC Pensacola TD and TTE | FY03 | Pending |
| PDA | Achieve ASPARCS IOC | FY04 | Pending |
| PDA | Achieve ASPARCS MSD | FY04 | Pending |
| PDA | Begin ASPARCS Fleet Delivery | FY04 | Pending |
| TSA | Achieve ASPARCS RFT at NATTC Pensacola | FY04 | Pending |
| TSA | Begin to Phase Out MATCALs Follow-On Training at NATTC Pensacola | FY04 | Pending |
| PDA | Achieve ASPARCS FOC | FY09 | Pending |

PART VI - DECISION ITEMS / ACTION REQUIRED

**DECISION ITEM OR
ACTION REQUIRED**

COMMAND ACTION DUE DATE STATUS

No Actions and/or Decisions required.

PART VII - POINTS OF CONTACT

| NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL | TELEPHONE NUMBERS |
|---|---|
| CAPT Owen Fletcher Deputy Aviation Maintenance Programs CNO, N781B fletcher.owen@hq.navy.mil | COMM: (703) 604-7747 DSN: 664-7747 FAX: (703) 604-6972 |
| CDR David Kelch Program Sponsor, Airspace and Air Traffic Control CNO, N785F kelch.david@hq.navy.mil | COMM: (703) 604-7711 DSN: 664-7711 FAX: (703) 604-6969 |
| LTCOL James Beaton Marine ATC / EAF Coordinator CNO, N785F3 james.beaton@hq.navy.mil | COMM: (703) 604-7707 DSN: 664-7707 FAX: (703) 604-6969 |
| CAPT Terry Merritt Head, Aviation Technical Training Branch CNO, N789H merritt.terry@hq.navy.mil | COMM: (703) 604-7730 DSN: 664-7730 FAX: (703) 604-6939 |
| AZC Gary Greenlee NTSP Manager CNO, N789H1A greenlee.gary@hq.navy.mil | COMM: (703) 604-7743 DSN: 664-7743 FAX: (703) 604-6939 |
| CDR Kevin Neary Aviation Manpower CNO, N122C1 n122c1@bupers.navy.mil | COMM: (703) 695-3247 DSN: 225-3247 FAX: (703) 614-5308 |
| Mr. Robert Zweibel Training Technology Policy CNO, N795B zweibel.robert@hq.navy.mil | COMM: (703) 614-1344 DSN: 224-1344 FAX: (703) 695-5698 |
| COL Dennis Bartels Branch Head, USMC Aviation Manpower Management CMC, ASM-1 bartelsd@hqmc.usmc.mil | COMM: (703) 614-1244 DSN: 224-1244 FAX: (703) 614-1309 |
| LTCOL Angela Clingman USMC Aircraft Maintenance Officer CMC, ASL-33 clingmanab@hqmc.usmc.mil | COMM: (703) 614-1187 DSN: 224-1187 FAX: (703) 697-7343 |
| MAJ Rodney D. Burnett Marine Corps Program Sponsor, ATC Coordinator CMC, APC-5 burnettrd@notes.hqi.usmc.mil | COMM: (703) 614-1850 DSN: 224-1850 FAX: (703) 614-2680 |

PART VII - POINTS OF CONTACT

| NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL | TELEPHONE NUMBERS |
|---|---|
| CAPT James L. Campbell Program Manager, Air Traffic Control and Landing Systems NAVAIRSYSCOM, PMA213 campbelljl@navair.navy.mil | COMM: (301) 862-6301 DSN: 342-3512 ext. 6301 FAX: (301) 862-6328 |
| Mr. Brian Storey Assistant Deputy Program Manager NAVAIRSYSCOM, PMA2134 storeybj@navair.navy.mil | COMM: (301) 862-6314 DSN: 342-3512 ext. 6314 FAX: (301) 862-6328 |
| MAJ Tim M. Hathaway ATC Project Officer NAVAIRSYSCOM, PMA213M hathawaytm@navair.navy.mil | COMM: (301) 862-6217 DSN: 342-3512 ext. 6217 FAX: (301) 862-6328 |
| ACCM Howard McGrath Assistant Program Manager, Training Systems NAVAIRSYSCOM, PMA2053B1 mcgrathhj@navair.navy.mil | COMM: (301) 757-8126 DSN: 757-8126 FAX: (301) 757-6945 |
| Mr. Jeff Hagen Deputy Program Manager, Logistics NAWCAD, AIR 3.1.4.1 hagenja@navair.navy.mil | COMM: (301) 862-8580 DSN: 342-3512 ext. 8580 FAX: (301) 862-6328 |
| Mr. Ben Fenhagen Assistant Program Manager, Logistics NAVAIRSYSCOM, AIR 3.1.4B fenhaganb@navair.navy.mil | COMM: (301) 862-6310 DSN: 342-3512 ext. 6310 FAX: (301) 862-6328 |
| Mr. Don Schwikert Project Engineer ASPARCS NAWCAD, AIR 4.5.8 schwikertfd@navair.navy.mil | COMM: (301) 862-8310 DSN: 342-3512 ext. 8310 FAX: (301) 862-6328 |
| CDR Robin Mason Aviation NTSP Point of Contact CINCPACFLT, N-721 masonrf@clf.navy.mil | COMM: (757) 836-0101 DSN: 836-0101 FAX: (757) 836-0141 |
| Mr. Bob Long Deputy Director for Training CINCPACFLT, N70 u70@cpf.navy.mil | COMM: (808) 471-8513 DSN: 315-4718 ext. 8542 FAX: (808) 471-8596 |
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PART VII - POINTS OF CONTACT

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