NAVY TRAINING SYSTEM PLAN

FOR THE

E-6A/B

TACAMO AIRCRAFT

N78-NTSP-A-50-8516E/D

JUNE 2002

E-6A/B TACAMO AIRCRAFT

EXECUTIVE SUMMARY

The E-6 aircraft is the airborne portion of the Take Charge And Move Out (TACAMO) Communications System. It provides survivable communication links between the National Command Authority and Strategic Forces. The Airborne National Command Post (ABNCP) modification program was established to upgrade the operational capabilities by incorporating a subset of the United States Strategic Command EC-135 Airborne Command Post equipment into the E-6A aircraft. The modified aircraft have had their designations changed from E-6A to E-6B. The E-6B is capable of performing both the TACAMO and ABNCP missions. This program is in the Operations and Support Phase of the Defense Acquisition System.

All pipeline training is located at Maintenance Training Unit (MTU) 1080 Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Tinker Air Force Base (AFB) Oklahoma. MTU 1080 conducts organizational (initial and career) and intermediate level maintenance training. Fleet Air Reconnaissance Squadron (VQ) -7 Tinker AFB provides aircrew training. The mission of the E-6 aircraft has changed with the evolution of the "B' model aircraft, and the ABNCP mission.

Prior to the assumption of the ABNCP mission, the E-6A aircraft provided a ready-made platform for training. That is, there was ample time during actual missions to accomplish On-The-Job Training during flight. Thus, there was no need for a ground-based training program in operations for the E-6 communication crew. With the assumption of the ABNCP mission, the on-board training opportunities have been reduced substantially. The expectation of the battle staff is that all E-6B mission crewmembers will be fully trained in their respective positions prior to mission crew assignment. This fact has made it evident that continuing to train TACAMO mission crews on-the-job while airborne, is no longer a viable or effective training alternative. It was realized that the need exists for some type of training program that includes appropriate training devices. VQ-7 at Tinker AFB, has conceptualized the technical requirements for the specification, design and construction of a Weapons System Trainer (WST) as the key training device within that training program. The WST is identified in Part IV.A.2 of this Naval Training System Plan (NTSP). Funding for the WST begins in FY-04.

VQ-7 has proposed a new training facility to house the WST as well as sufficient classrooms to meet academic training requirements. This 13,485 square foot TACAMO Training Facility is identified in figure 4-5 of the Training System Alternatives Report for E-6B Mission Crew, 15 September 2000, prepared for Naval Aviation Systems Command (NAVAIRSYSCOM) PMA 205-2J. This study assumes that additional academic and training support facilities will be required to meet VQ-7s' new E-6B mission crew training tasking.

Currently L-3 Communications, Link Flight Simulation and Training Division, is on contract with the Department of the Air Force to provide the Department of the Navy E-6 flight crew training. The E-6 Contract Flight Crew Training System (CFCTS) requirement consists of providing training for flight crew members and other services. The purpose of this training program is to provide a full spectrum of United States Navy directed flight crew training through

an efficient training program to a guaranteed level of proficiency that minimizes involvement of E-6 Navy personnel and aircraft. Pilot and Flight Engineer training is accomplished through the use of two IFT aircraft. These trainer aircraft serve the purpose of providing VQ-7 with a suitable platform to teach student pilot flying skills in large transport aircraft. These IFT aircraft are identified in Part IV.A.2 of this NTSP.

The CFCTS contract is therefor required to provide instructor pilots for these surrogate E-6 aircraft. VQ-7 sends four Initial Qualification students and two Flight Engineers, under the CFCTS contract, to commercial flight training facilities each year to become instructor pilots and flight engineers. These personnel also participate in flight simulator classes up to fourteen times per year to maintain their type training and currency ratings.

This NTSP has been developed to identify the life cycle manpower, personnel and training requirements for the E-6B aircraft. It was developed in accordance with OPNAVINST 1500.76 of 21 July 1998.

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LIST OF ACRONYMS

ABNCP	Airborne National Command Post
ACDU	Active Duty
ADWS	Automatic Data Processing, Demand Assigned Multiple Access and Common Avionics Flight Deck Communications Capabilities with Weight and Space Savings
AFB	Air Force Base
ALCC	Airborne Launch Control Center
ALCS	Airborne Launch Control System
AMD	Activity Manning Document
AOB	Average on Board
ATIR	Annual Training Input Requirement
BIT	Built-In Test
BOLC	Basic Officer Leadership Course
C^3	Command, Control & Communications
CAI	Computer Aided Instruction
CBT	Computer Based Training
CDU	Computer Display Unit
CFCTS	Contractor Flight Crew Training System
CFE	Contractor Furnished Equipment
CFY	Current Fiscal Year
CIN	Course Identification Number
CINCPACFLT	Commander in Chief Pacific Fleet
CIV	Civilian
CLS	Contractor Logistics Support
CMI	Computer Managed Instruction
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
CNS/ATM	Communications Navigation Surveillance/Air Traffic Management
COMNAVAIRPAC	Commander Naval Air Force, U.S. Pacific Fleet
CNO	Chief Naval Operations
DA	Developing Agency
DAISS	Digital Airborne Intercommunications and Switching System
DISN	Defense Information System Network
DT	Developmental Test
DTWA	Dual Trailing Wire Antenna
ENL	Enlisted
ETM	Electronic Technical Manuals

E-6A/B TACAMO AIRCRAFT

LIST OF ACRONYMS

FDM	Frequency Division Multiplexing
FE	Flight Engineer
FID	Fault Insertion Device
FMCS	Flight Management Computer System
FOT&E	Follow On Test and Evaluation
FY	Fiscal Year
GFE	Government Furnished Equipment
GPETE	General Purpose Electronic Test Equipment
GPS	Global Positioning System
GPTE	General Purpose Test Equipment
HPTS	High Power Transmit Set
IAT	Integrated Avionics Trainer
ICW	Interactive Courseware
IFT	In-Flight Trainer
ILS	Integrated Logistics Support
ILSP	Integrated Logistics Support Plan
IOC	Initial Operational Capability
IOS	Instructor/Operator Station
IPB	Illustrated Parts Breakdown
LF	Low Frequency
MAST	Mission Avionics Systems Trainer
MCS	Mission Computer System
MDS	Multifunction Display System
MILSTAR	Military Strategic and Tactical Relay
MMRT	Modified Miniature Receive Terminal
MOMI	Manual of Operation and Maintenance Instruction
MRC	Maintenance Requirements Card
MTU	Maintenance Training Unit
NA	Not Applicable
NCA	National Command Authority
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAS	Naval Air Station
NATOPS	Naval Air Training and Operating Procedures
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NC2AIS	Nuclear Command and Control Automated Information System

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LIST OF ACRONYMS

NEC	Navy Enlisted Classification
NFO	Naval Flight Officer
NOBC	Naval Officer Billet Classification
NTSP	Navy Training System Plan
OFF	Officer
OFT	Operational Flight Trainer
OSA	Open System Architecture
OT	Operational Test
RFOU	Ready For Operational Use
RFT	Ready For Training
RO	Reel Operator
SELRES	Selected Reserve
SIOP	Single Integrated Operational Plan
SNEC	Secondary Navy Enlisted Classification
SPETE	Special Purpose Electronic Test Equipment
SRA	Shop Replaceable Assembly
SSPA/C	Solid State Power Amplifier/Coupler
TA	Training Agency
TAR	Training and Administration Reserve
TD	Training Device
TE	Training Equipment
TSA	Training Support Agency
TTE	Technical Training Equipment
UHF	Ultra High Frequency
UIC	Unit Identification Code
USSTRATCOM	United States Strategic Command
VHF	Very High Frequency
VLF	Very Low Frequency
VQ	Fleet Air Reconnaissance Squadron
WRA	Weapon Replaceable Assembly
WST	Weapon Systems Trainer

E-6A/B TACAMO AIRCRAFT

PREFACE

This Draft Navy Training System Plan (NTSP) for the E-6 Aircraft was prepared as part of the regular NTSP updates process within the guidelines set forth in OPNAVINST 1500.76. This NTSP reflects the changes that have occurred since, N88-NTSP-A-50-8516D/A dated March 1999, was approved by Chief of Naval Operations on 26 July 1999. It has been developed to identify the life cycle manpower, personnel and training requirements for the E-6B aircraft. This plan covers the transition from the E-6A to E-6B aircraft. Sixteen E-6A aircraft are being modified at a contractor's facility with Airborne Command Post equipment and an avionics block upgrade. All acquisition milestones have been completed. Initial Operational Capability was attained in the third quarter of fiscal year 1998. Thirteen aircraft have been modified. The last aircraft to be modified is scheduled for delivery in the third quarter of fiscal year 2003. Squadron manpower requirements were derived from Activity Manning Documents (AMD).

Updates to this NTSP consist of the following:

PART I Outdated information has been deleted; Identifies modifications of the E-6A; Identifies configuration of the E-6B; Identifies future E-6 Engineering Changes; and reflects transformation of the Airborne Command Post mission from the Air Force to the Navy. The Expansion of aircrew training tracks into Categories, I and III are defined. Maintenance training tracks have been changed to an Initial and Career concept. New E-6B Navy Enlisted Classification (NEC) codes supporting these changes are identified. Information on the In Flight Trainer (IFT) Navigator and Flight Management Computer System Part Task Trainers and the Mission Avionics Systems Trainers (MAST) is also included.

PART II Depicts current Operational and Fleet Support billet requirements and chargeable student billets through Fiscal Year (FY) 06.

PART III Reflects changes in training requirements and concepts mentioned in Part I above.

PART IV Reflects the changes in training and training logistics support requirements.

PART V Updated to include major milestones.

PART VI Identifies significant equipment shortfalls for training courses.

PART VII Updated to reflect current Points of Contact.

Note: When E-6 is used in this document it refers to both the E-6A and E-6B. The use of E-6A or E-6B only applies to that specific model.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym E-6A/B TACAMO Aircraft.

2. Program Element

a. Training Agent: 0101315N

b. Training Support Agency: 0101402N

B. SECURITY CLASSIFICATION. The TACAMO mission avionics system and Airborne National Command Post (ABNCP) system characteristics, capabilities, and functions are classified Secret and Top Secret.

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor.....CNO (N780E6)

OPO Resource Sponsor.....CNO (N780E6)

Functional Mission Sponsor.....CNO (N780E6)

Developing Agency.....Airborne Strategic Communications Program Office (PMA271)

Training Agency.....CINCPACFLT (N-70) CNET (ETS-23)

Training Support Agency.....NAVAIRSYSCOM (PMA205)

Manpower and Personnel Mission Sponsor.....CNO (N12)
NAVPERSCOM (PERS4, PERS404)

Director of Naval Training.....CNO (N79)

D. SYSTEM DESCRIPTION

1. Operational Uses. The E-6 aircraft is the airborne portion of the TACAMO Communications System. It provides survivable communication links among the National Command Authority (NCA) and Strategic Forces. The E-6 ABNCP modification program has been established to upgrade TACAMO operational capabilities by incorporating a subset of the United States Strategic Command's (USSTRATCOMM) EC-135 ABNCP equipment into the

E-6A aircraft. Modified aircraft have had their designation changed from E-6A to E-6B. The E-6B is capable of performing both the TACAMO and ABNCP missions. This modification enables USSTRATCOM to perform current and projected TACAMO and ABNCP operational tasking using the sixteen dual mission E-6B aircraft. The E-6B provides survivable Command Control & Communications (C^3) force management communications for the NCA via multiple frequency band communications.

2. Foreign Military Sales There are no planned Foreign Military Sales or other service procurement of this aircraft.

3. E-6 Engineering Changes

a. Automatic Data Processing Demand Assigned Multiple Access and Common Avionics Flight Deck Communications Capabilities with Weight and Space Savings Modification Program.

(1) Contracts have been initiated to incorporate the Automatic Data Processing Demand Assigned Multiple Access and Common Avionics Flight Deck Communications Capabilities with Weight and Space Savings (ADWS) modification into sixteen E-6 aircraft and to make the necessary adjustments to the Integrated Logistics Support (ILS) elements, including the training system, to support this program. The ADWS modified aircraft shall be compatible with the Multifunctional Display System (MDS) modification detailed in Part I paragraph 3.C.1. Aircraft installation commenced in the second quarter of FY02 and will be completed in the second quarter of FY05. Initial training requirements are identified in Part III.A.1 of this NTSP revision. Specific training systems inputs for follow-on training for this change will be included in future revisions of this document.

(2) This effort consists of the following:

(a) Add the capability for airborne and ground communication links to Defense Information System Network operations.

(b) Add a capability to route data to the Nuclear Command and Control Automated Information System (NC2AIS) server laptop from the Mission Computer System (MCS).

(c) Interface the Battle Staff NC2AIS server to E-6 Mission radios to allow for encrypted bi-directional movement of data between the E-6, E-4B and Mobile Command and Control Center Single Integrated Operational Plan (SIOP) databases.

(d) Add voice and data Demand Assigned Multiple Access capabilities with appropriate cryptographic devices.

(e) Remove and replace existing ARC-182 radios with Government Furnished ARC-210, Common Avionics radios for Communications Navigation Surveillance/Air Traffic Management (CNS/ATM) compatibility.

(f) Remove and/or replace equipment for weight and space savings to achieve a minimum of 500 pounds.

(g) Use commercial hardware and software to implement ADWS modifications.

b. Modified Miniature Receive Terminal

(1) Contracts have been initiated to incorporate the Modified Miniature Receive Terminal (MMRT) into sixteen E-6 aircraft and to make the necessary adjustments to the ILS elements, including the training system, to support this program. The MMRT is provided to replace the existing Very Low Frequency (VLF)/Low Frequency (LF) receiver for the Navy E-6 World Wide Military Command and Control System Airborne Resources. The MMRT subsystem consists of a single common MMRT receiver set and unique installation equipment for integration on the E-6 aircraft. It shall automatically receive, amplify, demodulate, decrypt, and process secure and non-secure messages propagated at VLF/LF frequencies originating from the NCA, the Minimum Essential Emergency Communications Network and the USSTRATCOM during benign and stressed conditions. Aircraft installation began in the third quarter of FY02 and will be completed in the first quarter of FY04 and includes developing the necessary changes to the training system to ensure that maintenance and aircrew personnel are adequately trained to maintain and operate the MMRT. Initial training requirements are identified in Part III.A.1 of this NTSP revision. Specific training systems inputs for follow-on training for this change will be included in future revisions of this document.

(2) This upgrade to the existing Miniature Receive Terminal provides for the following:

(a) High Data Rate Mode

(b) Verdin Modes 22 and 23

(c) On-host platform key fill capability

(d) Operator real time control of mission parameter creation, editing and loading

(e) Accurate time injection

(f) A receiver sensitivity of 3.61 nv rms (a receiver noise figure of 12 db or less)

(g) Non-Linear Adaptive Processor

c. Multifunction Display System Program

(1) Contracts have been initiated to incorporate the MDS into sixteen E-6B aircraft and to make the necessary adjustments to the ILS elements, including the training

system, to support this program. This improvement in cockpit instrumentation complies with the requirements of the International Civil Aviation Organization mandated CNS/ATM Global Air Traffic Management System. Aircraft installation began in the third quarter of FY02 and will be completed in the second quarter of FY05. Initial training requirements are identified in Part III.A.1 of this NTSP revision. Specific training systems inputs for follow-on training for this change will be included in future revisions of this document.

(2) This effort consists of the following:

(a) Adapting the 737-600/700/800/900 Common Display System and Flight Management System to the E-6B.

(b) Adding and integrating the following equipment and systems to permit the E-6B to operate in the CNS/ATM environment:

(1) A second air data system to support Reduced Vertical Separation Minimums.

(2) A Traffic Collision Avoidance System II and mode S, with mode 4 Identification Friend or Foe capability.

(3) Global Positioning System (GPS) with Receiver Autonomous Integrated Monitor and growth provisions for Wide Area Augmentation System and Local Area Augmentation System.

(4) Air Traffic Control data link communications for all terrestrial and oceanic areas.

(5) Enhanced Ground Proximity Warning System.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. All Developmental Test (DT) and Operational Test (OT) have been completed as identified below:

- High Power Transmit Set (HPTS) OT IIA. fourth quarter FY92 - first quarter FY93
- HPTS DT IIA second quarter and third quarter FY92
- HPTS DT IIB forth quarter of FY94
- HPTS OT IIB first quarter - second quarter FY95
- ABNCP OT Follow On Test & Evaluation (FOT&E) second and third quarter FY98

F. AIRCRAFT EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED

The ABNCP modification resulted in the following equipment being removed from the E-6A aircraft:

- OE-242 Antenna
- OG-127 Power Amplifier Coupler
- OE-159 Dual Trailing Wire Antenna

- Unmodified Flight Management Computer System
- Analog Flight Reference Display Instruments
- E-6A Communications Central Console
- Message Communications System
- Litton Omega LTN-211

The ABNCP modification resulted in the following equipment being added to the aircraft:

1. LG-118A Peacekeeper Airborne Launch Control System. The Airborne Launch Control System (ALCS) is a secure, electronic, missile launch control system which combined with the Ultra High Frequency (UHF) Command C^3 radios enable the E-6B to function as an Airborne Launch Control Center (ALCC). The ALCS allows determination of missile status in silos, launch or cancel launch in progress, or change in missile assignments. ALCS is comprised of the following components:

- Aircraft Launch Interface Computer Controller
- Mass Storage Device
- Portable Storage Unit
- Display Controller
- Visual Display Unit

2. AN/ASC-33(V) Digital Airborne Intercommunications Switching System. The Digital Airborne Intercommunications and Switching System (DAISS) provide ALCC battle staff crew inter-phone and communications access channels. Each radio group can be operated on any of 7000 discrete channels. DAISS provides automated audio distribution and equipment control/configuration among the communications equipment supporting the ABNCP mission and access to the TACAMO equipment. DAISS services include the assignment of Defense Systems Network services to channels over the UHF Frequency Division Multiplexing (FDM) link and access to Automatic Digital Network via UHF FDM channels through direct access lines or telephone touch pads. Additional services provided include: access/control of STU-IIIR and ANDVT secure voice equipment, control of the secure facsimile, assignment of TRANSMUX, ALCS, single channel clear and secure voice to the UHF C^3 transceivers through the electronic switch matrix, and access to E-6B TACAMO voice communications systems via interface to an upgraded E-6B Intercommunications System. The following are DAISS components:

- Interface Control Processor
- Bus Coupler
- Communication Equipment Interface Unit
- Status Display Unit
- Communication Interface Units
- Interface Electrical Unit
- Bus Terminator
- Multiplexer
- Interconnecting Box
- Handset
- Loudspeaker Assembly

- ACU/SDU J-Box
- FDM/MUX Patch Panel

3. AN/ARC-171 (V) (3) Ultra High Frequency Radio Subsystem with Frequency Division Multiplexing. The UHF C^3 system adds three UHF transceivers that support 1,000 watts full-duplex transmissions using Amplitude Modulation or Frequency Modulation. This system provides UHF FDM (three full-duplex groups of 15 channels each), ALCS, Conventional UHF Amplitude Modulated Line Of Sight (three half-duplex channels), and/or Fleet Satellite Communication Phase Shift Keying (one receive-only channel).

4. Mission Computer System. The MCS enhances message handling and processing. It provides user-friendly message receipt operations, edit, storage, and transmission; identifying emergency action messages and routing data among peripherals (printers, keyboards, etc.).

5. AN/ARC-208 (V) 2 Military Strategic and Tactical Relay Extremely High Frequency/Ultra High Frequency Radio Airborne Terminal Station. The Military Strategic and Tactical Relay (MILSTAR) airborne radio terminal is a multi-channel terminal capable of simultaneous operation with more than one satellite. It provides UHF connectivity through the MILSTAR satellite system. The AN/ARC-208 (V) 2 permits the aircraft to function as either a Command Post or a SIOP force terminal.

6. Ultra High Frequency Satellite Communications Antenna Controller. This controller replaces the OE-242 antenna controller with a more reliable and supportable unit.

7. Time Frequency Standards Distribution System including: Standard Distribution Switching Unit Time Code Generator and Hand Held Module. This system replaces the existing time standard, providing retrieval and distribution of the accurate Universal Coordinated Time from the GPS. Time of Day, One-pulse-per-second, and precision five MHz reference signals are distributed to VLF and UHF communications equipment to provide accurate reference timing.

8. MIL-STD-1553B Bus System. Three dual-redundant MIL-STD-1553B data buses are utilized by ABNCP HPTS and GPS components. They will also accommodate future modifications to the E-6B weapon system.

9. AN/ART-54 High Power Transmit System, including: Solid State Power Amplifier/Coupler OG-187/ART-54 and Dual Trailing Wire Antenna System OE-456/ART-54. This set provides increased capabilities (including LF transmission spectrum) with significant reliability and operability improvements. It is an integrated hardware/software system designed to provide automatic or manual operation, verify operational status, and provide diagnostic fault isolation to faulty Weapon Replaceable Assemblies (WRA)/Shop Replaceable Assemblies (SRA).

10. Auto Throttle System. This system works in conjunction with the Autopilot and provides an auto orbit capability to reduce pilot workload.

11. Global Positioning System including: R-2332/AR Global Positioning System 3A Receiver, AS-3822/URN Global Positioning System Fixed Reception Pattern Antenna and

the AM-7314/URN AE-4 Antenna Electronics Group. This is a satellite navigation system that provides for more accurate position information and a precision clock signal for use by the Mission Avionics System.

12. NAC Receiver Mount, and modified Flight Management Computer System

13. Flight Reference Display System Provides pilot and copilot with electronically displayed flight reference data.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The E-6 is a derivative of the commercial Boeing 707 aircraft. It is a long range, air refuelable aircraft equipped with four CFM-56-2A-2 high bypass ratio fan/jet engines with thrust reversers. The weapon system is electromagnetic pulse hardened. It has an endurance of 15+ hours without refueling and a maximum endurance of 72 hours with in-flight refueling. Mission range is over 6000 Nautical Miles. It carries a crew of five naval officers, nine naval enlisted aircrewmen, and up to four trainees for TACAMO missions. For ABNCP missions it carries five naval officers, nine naval enlisted aircrewmen, and an eight person battle staff as determined by the USSTRATCOM (J36).

2. Physical Description. The E-6 has a wingspan of 148 feet 2 inches, length of 152 feet 11 inches. The maximum gross take off weight is approximately 342,000 pounds.

3. New Development Introduction. The E-6B is being introduced into the fleet as a major modification change. The first modified aircraft was delivered in the 4th quarter of FY97. The sixteenth, and last, aircraft will be delivered in the 3rd quarter of FY03.

4. Planned New Development. A request for Information has been issued by the Naval Air Systems Command, Patuxent River, seeking statements of interest and capability to support the E-6B Block 1 Modification Program of 16 E-6B aircraft, a Systems Integration Laboratory and all associated trainers in order to accomplish the goal of correcting Follow on Operational Test and Evaluation mission degraders and obsolescence issues. These requirements will include the procurement of necessary logistics elements. The E-6B Block 1 modifications to be accomplished include updating the Missions Systems architecture by adding an Open Systems Architecture (OSA) which uses industry accepted interface standards with non-proprietary hardware and software interfaces for replacing current systems. All onboard mission systems including those to be modified under this Block 1 acquisition and pre-existing, unmodified legacy systems shall be migrated to the new OSA. Further, the following legacy systems requiring modification/replacement are, but not limited to: VLF Transmit Terminal; the DAISS; UHF C3 system; the MCS; High Frequency Rebroadcast; Battle Staff and Information System Officer work stations and, correction and modification of on board cooling and electrical systems. Industry has been asked to review drafts of the Navy's proposed Acquisition Strategy, Statements of Objectives and Performance Based Work Statement. It is anticipated that a draft E-6B Block 1 Modification request for Proposal will be issued in the 4th quarter, FY02 with final solicitation anticipated in the 1st quarter of FY 03. Specific training systems inputs for initial and follow-on training for this modification will be included in future revisions of this document.

5. Significant Interfaces. The E-6B TACAMO/ABNCP aircraft provides an airborne communications system which interfaces with other existing communications systems.

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

H. CONCEPTS

1. Operational Concept

a. TACAMO. Independent random operations are performed from various deployed sites for approximately, 15 day intervals. Each deployed crew will be self-supporting except for fuel and perishables. The mission requires a 24 hour commitment of resources (alert posture) in the Atlantic and Pacific regions.

b. Airborne National Command Post. As directed by USSTRATCOM, two aircraft will be flown to Offutt Air Force Base (AFB) Omaha, Nebraska to embark the battle staff and the ALCS components and will be placed in an alert status. Maintenance of the systems will be performed by the standard compliment of Fleet Air Reconnaissance Squadron (VQ) -3 Offutt, AFB Detachment and in-flight technician personnel.

2. Maintenance Concept. The E-6 maintenance concept is a combination of Navy organic and contractor maintenance. The Navy will perform all organizational level maintenance on the aircraft and the mission avionics systems.

a. Organizational. Organizational maintenance includes servicing, handling, inspection, and both scheduled and unscheduled E-6 aircraft maintenance. In TACAMO squadrons, aircrew personnel perform organizational maintenance while at deployed sites.

(1) Preventive/Planned Maintenance. Consists of those maintenance actions prescribed by calendar, usage cycles, or hours of operation criteria.

(2) Corrective Maintenance. This consists of fault isolation using Built-in Test (BIT) or other test equipment, removal and replacement of faulty WRAs/SRAs.

b. Intermediate. E-6 intermediate level maintenance is a Navy and contractor responsibility. E-6A mission avionics systems and mission avionics components common to the E-6B are a Navy responsibility. Remaining Intermediate level responsibilities are contracted out.

c. Depot. Depot level maintenance for the airframe, engines, flight deck avionics, and mission avionics interface equipment (i.e., equipment racks and antenna) is contracted out. Depot level maintenance of the Mission Avionics System will continue to be performed by the Navy under Primary Inventory Control Point, Mechanicsburg Pennsylvania contract.

d. Interim Maintenance. NA

e. Life Cycle Maintenance Plan. NA

f. Expanded Phase Maintenance. This program was developed to allow for the performance of a normal Standard Depot Level Maintenance of appropriate requirements, at the fleet facilities. A depot field maintenance team performs the inspections and repairs with organizational level maintenance assistance during the normal phase inspections. Structural and systems tasks are performed at the Reliability Centered Maintenance justified intervals. Inspecting 10% of the aircraft in each phase performs zonal inspections. In this way the entire aircraft is inspected every 10 phases.

3. Manning Concept. Manpower requirements were derived from AMD's for VQ-3, VQ-4, detachments at Travis AFB California, Naval Air Station (NAS) Patuxent River, Maryland, Offutt AFB, COMSTRATCOMMWING ONE, VQ-7, Maintenance Training Unit (MTU) 1080 NAMTRAGRU DET Tinker Air Force Base Oklahoma City, Oklahoma, NAVCOMTELSTRATCOM Oklahoma City, Travis AFB, and NAS Patuxent River. These Activity Manning Documents contain the minimum quantitative and qualitative manpower necessary to support the Required Operational Capabilities and Projected Operational Environment statements.

The actual assignment of personnel to these billets will be affected by budget constraints on funded billets and, officer and enlisted manning plans.

4. Training Concept. Pipeline aircrew training is provided for Pilots, Navy Flight Officers (NFO), Flight Engineers, Communications Operators, In-Flight Technicians, and Reel Operators. Aircrew training tracks listing the specific courses required for personnel assigned to the various aircrew billets have been developed and approved by Naval Operations (CNO). Aircrew training tracks have been divided into Category I and Category III. Category I training is that training provided to personnel on their first assignment to the aircraft/squadron. Category III training, is that training provided to personnel who are on their second assignment to the aircraft/squadron. Normally personnel assigned to fill aircrew billets are provided only that training required by the aircrew billet. TACAMO aircrews are also responsible for organizational level maintenance while the aircraft is deployed to remote locations away from the parent squadron. This imposes an additional maintenance training requirement.

Pipeline maintenance training is in place to support the approved aircraft and systems maintenance plans. Training tracks have been developed and approved by CNO listing the specific courses necessary to assign an NEC to an individual. Where appropriate, maintenance training courses have been revised to provide the minimum training necessary for first tour personnel. This is called initial training. Personnel who have received initial training and have been assigned to a second tour of duty in VQ-3 or VQ-4 will receive additional training that is designed to assist them in their assignment to billets of greater responsibility. This is called career training. This concept has been incorporated in the following organization level maintenance ratings: Aviation Electronics Technician (AT); Aviation Machinist's Mate (AD); Aviation Electrician's Mate (AE) and Aviation Structural Mechanic (AM). The Aviation Structural Mechanic, Safety Equipment (AME) and the Aircrew Survival Equipmentman (PR) have not been revised to reflect this concept.

The MTU 1080 NAMTRAGRU DET Tinker AFB maintenance training curricula has been analyzed to support conversion of the paper based training materials to Computer Based

Training (CBT) curricula where appropriate. The objective of a CBT program is to off-load many, if not all task & skills learning from the maintenance panel trainers. This analysis included a task and skills media selection to determine the most cost effective use of Computer Aided Instruction (CAI), self paced Interactive Courseware, and hands-on use of existing training devices.

a. Initial Training. The Initial Training schedule is contained in element III.A.1. Courses will provide operator and maintenance training for cadre instructor, maintenance and operator personnel.

b. Follow-on Training. NAMTD 1080, NAMTRAGRU DET Tinker AFB and VQ-7 provide follow-on training for Pilots, Co-pilots, Navigators, Flight Engineers, Operator and Maintenance personnel.

c. Training Pipelines. The following is a listing of aircrew and maintenance training tracks in this program as initiated by the last Aircrew Training Requirements Review /Maintenance Training Requirements Review Conference.

Title	**E-6 Fleet Replacement Pilot Category I Pipeline**
CIN	E-2B-0407
Model Manager ...	VQ-7
Description	This course provides training to initial E-6 pilots including: ° Basics of Approaches, Departures, and Landings ° Flight characteristics and emergency procedures ° Crew Tactics and Safety ° Naval Air Training and Operating Procedures (NATOPS) Upon completion, the student will be able to perform as an E-6 pilot in a squadron environment.
Location	VQ-7 Tinker AFB Oklahoma City, Oklahoma
Length	115 days
RFT date	Currently available
Skill identifier.....	Designator 1311
TTE/TD.....	° E-6 IFT ° 2F144 Operational Flight Trainer (OFT) ° 2A81 E-6 Flight Management Computer System (FMCS) Part Task Trainer

Prerequisite.....
- Air Force Multi-Engine Undergraduate Pilot Training
- E-2D-0032, Survival, Evasion, Resistance and Escape Training (SERE)
- B-322-0040, Refresher Aerospace Physiology Training (RPC)
- B-9E-1226, Refresher Water Survival Training Program (R3)
- P-7C-0039, Basic Officer Leadership Course (BOLC)
- Security Clearance - Secret

Title ..... E-6 Fleet Replacement Pilot Category III Pipeline

CIN E-2B-0406

Model Manager ... VQ-7

Description ..... This course provides refresher training to previously qualified E-6 pilots including:

- Approaches, Departures, and Landings
- Flight characteristics and emergency procedures
- Crew Tactics and Safety
- NATOPS

Upon completion, the student will be able to perform as an E-6 pilot in a squadron environment.

Location ..... VQ-7 Tinker AFB Oklahoma City

Length ..... 53 days

RFT date ..... Currently available

Skill identifier..... Designator 1311

TTE/TD.....
- E-6 IFT
- 2F144 OFT
- 2A81 E-6 FMCS Part Task Trainer

Prerequisite.....
- B-322-0040, Refresher Aerospace Physiology Training (RPC)
- B-9E-1225, Naval Aviation Water Survival Training Program (R2)
- E-2B-0407 E-6 Fleet Replacement Pilot Category I Pipeline
- Other Complete Personnel Reliability Program (PRP) pre-screen
- Security Clearance – Top Secret

Title	**E-6 Fleet Replacement Naval Flight Officer Category I Pipeline**
CIN	E-2B-0407
Model Manager ...	VQ-7
Description	This course provides basic skills to first tour Naval Flight Officers including: ° Flight training ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS Upon completion, the student will be able to perform as an E-6A/B NFO in a squadron Environment.
Location	VQ-7 Tinker AFB Oklahoma City
Length	42 days
RFT date	Currently available
Skill identifier.....	Designator 1321
TTE/TD.....	° 2A80 E-6 Navigator Part Task Trainer ° 2F144 OFT ° 2A81 E-6 FMCS Part Task Trainer
Prerequisite.....	° B-322-0040, Refresher Aerospace Physiology Training (RPC) ° B-9E-1225, Naval Aviation Water Survival Training Program (R2) ° E-2D-0039 Survival Evasion Resistance and Escape ° Other Complete Personnel Reliability Program (PRP) pre-screen ° Security Clearance – Top Secret SCI eligible

Title	**E-6 Fleet Replacement Naval Flight Officer Category III Pipeline**
CIN	E-2D-0404
Model Manager ...	VQ-7

Description	Provides refresher training to previously qualified E-6 NFO's. ° Flight training ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS ° Classroom/simulator/in-flight instruction Upon completion, the student will be able to perform as an E-6A/B NFO in a squadron Environment.
Location	VQ-7 Tinker AFB Oklahoma City
Length	42 days
RFT date	Currently available
Skill identifier.....	Designator 1321
TTE/TD.....	° 2A80 E-6 Navigator Part Task Trainer ° 2F144 OFT ° 2A81 E-6 FMCS Part Task Trainer
Prerequisite.....	° B-322-0040, Refresher Aerospace Physiology Training (RPC) ° B-9E-1226, Naval Aviation Water Survival Training Program (R3) ° E-2D-0039 Survival Evasion Resistance and Escape ° Other Complete Personnel Reliability Program (PRP) pre-screen ° Security Clearance – Top Secret

Title	**E-6 Fleet Replacement Aircrew Flight Engineer Category I Pipeline**
CIN	E-050-0410
Model Manager ...	VQ-7

Description	This course provides training to the first tour Flight Engineer, including: ° Aircraft systems purpose and operation ° Normal and emergency procedures ° Performance and weight and balance calculations ° Preflight, postflight, and servicing ° Survival equipment ° NATOPS Upon completion, the student will be able to perform as an E-6 Flight Engineer in a squadron environment under close supervision.
Location	VQ-7 Tinker AFB Oklahoma City
Length	242 days
RFT date	Currently available
Skill identifier.....	AD, AE, AM - 8235
TTE/TD.....	° 2F144 OFT ° E-6 Power Plants and Related Systems Trainer ° E-6 Flight Controls Trainer ° E-6 Hydraulic System Trainer ° E-6 Fuel Systems Trainer ° E-6 Fuel Systems Trainer Open Frame, Wing Tank #3 and Center Wing Tank ° E-6 Environmental Control System Trainer ° E-6 Landing Gear System Trainer ° E-6 Auxiliary Power Unit trainer
Prerequisite.....	° B-322-0040, Refresher Aerospace Physiology Training (RPC) ° B-9E-1225, Naval Aviation Water Survival Program (R2) ° E-2D-0039 Survival Evasion Resistance and Escape ° Q-050-1500 Naval Aircrew Candidate School ° Other Complete Personnel Reliability Program (PRP) pre-screen ° Security Clearance – None Required

Title	**E-6 Fleet Replacement Aircrew Flight Engineer Category III Pipeline**
CIN	E-050-0411
Model Manager ...	VQ-7

Description	This course provides refresher training to the previously qualified E-6 Flight Engineer, including: ° Normal and emergency procedures ° NATOPS ° Performance and Weight and Balance calculations ° Preflight, postflight and servicing ° Survival equipment Upon completion, the student will be able to perform as an E-6 Flight Engineer in a squadron environment under limited supervision
Location	VQ-7 Tinker AFB Oklahoma City
Length	53 days
RFT date	Currently available
Skill identifier.....	AD, AE, AM - 8235
TTE/TD.....	° 2F144 OFT ° E-6 Power Plants and Related Systems Trainer ° E-6 Flight Controls Trainer ° E-6 Hydraulic System Trainer ° E-6 Fuel Systems Trainer ° E-6 Fuel Systems Trainer Open Frame, Wing Tank #3 and Center Wing Tank ° E-6 Environmental Control System Trainer ° E-6 Landing Gear System Trainer ° E-6 Auxiliary Power Unit trainer
Prerequisite.....	° B-322-0040, Refresher Aerospace Physiology Training (RPC) ° B-9E-1226, Naval Aviation Water Survival Program (R3) ° B-322-0040 Refresher Aerospace Physiology Maritime Training ° NEC 8235 ° Other Complete Personnel Reliability Program (PRP) pre-screen ° Security Clearance – None Required

Title	**E-6B Fleet Replacement Aircrew Communications Operator Category I Pipeline**
CIN	E-050-0413
Model Manager ...	VQ-7

Description	This course provides sufficient knowledge/theory of the E-6 TACAMO communications and avionics systems, including: ° Preflight and postflight ° Systems operation ° Analysis and troubleshooting techniques. ° Crew coordination ° Safety Upon completion the student will be able to perform duties of and E-6 communications operator under close supervision
Location	VQ-7 Tinker AFB Oklahoma City
Length	163 days
RFT date	Currently available
Skill identifier.....	IT 8228
TTE/TD.....	° E-6B MAST ° E-6B Weapon System Trainer (WST)
Prerequisite.....	Q-050-1500 Naval Aircrew Candidate School E-2D-0039 Survival, Evasion, Resistance and Escape Complete Personnel Reliability Program (PRP) pre-screen Pay Grade E-4-E-7 Rate IT Security Clearance – Interim Secret

Title	**E-6B Fleet Replacement Aircrew Communications Operator Category III Pipeline**
CIN	E-050-04XX
Model Manager ...	VQ-7
Description	This course will provide refresher training to previously qualified E-6 Communications Operators ° Crew coordination ° Message handling ° Systems operation Upon completion the student will be capable to perform the duties of a communications operator under limited supervision
Location	VQ-7 Tinker AFB Oklahoma City
Length	35 days

RFT date	Available in Fiscal Year 2003
Skill identifier.....	IT 8228
TTE/TD.....	° E-6B MAST ° E-6B WST
Prerequisite.....	° B-322-0040 Refresher Aerospace Physiology Training (RP2) ° B-9E-1226 Refresher Water Survival Training Program (R3) ° Pay Grade E-4-E-7 ° Rate IT ° Security Clearance –Secret

Title	**E-6B Fleet Replacement Aircrew Reel Operator Category I Pipeline**
CIN	E-050-0412
Model Manager ...	VQ-7
Description	Upon completion of this track the student will have sufficient knowledge and skill to: ° Operate ° Maintain ° Troubleshoot ° Preflight and postflight Upon completion the student will be capable of performing the duties of a Reel Operator of the E-6 Dual Trailing Wire Antenna System under close supervision
Location	VQ-7 Tinker AFB Oklahoma City
Length	119 days
RFT date	Currently available
Skill identifier.....	AE and AM - 8227
TTE/TD.....	° E-6 HPTS ° E-6 Dual Trailing Wire Antenna (DTWA) Maintenance Trainer ° E-6B WST

Prerequisite.....
- Q-050-1500 Naval Aircrew Candidate School
- E-2D-0039 Survival, Evasion, Resistance and Escape
- B-9E-1226 Naval Aviation Water Survival Program (R3)
- Complete Personnel Reliability Program (PRP) pre-screen
- Pay Grade E-4-E-7
- Rate AE AM
- Security Clearance – Top Secret

Title ..... E-6B Fleet Replacement Aircrew Reel Operator Category III Pipeline

CIN E-050-0425

Model Manager ... VQ-7

Description ..... This course is used to provide refresher training to previously qualified E-6 Fleet Replacement Aircrew Reel Operators to include:

- Maintenance
- Troubleshooting
- Preflight postflight
- Crew coordination

Upon completion the student will be able to function as a Reel Operator under limited supervision

Location ..... VQ-7 Tinker AFB Oklahoma City

Length ..... 22 days

RFT date ..... Available in Fiscal Year 2003

Skill identifier..... AE and AM - 8227

TTE/TD.....
- E-6 HPTS
- E-6 DTWA
- E-6B WST

Prerequisite.....
- B-322-0040 Refresher Aerospace Physiology Training (RP2)
- B-9E-1226 Refresher Water Survival Training Program (R3)
- E-050-0412 E-6B Fleet Replacement Aircrew Reel Operator Category I Pipeline
- Rate AE AM
- Security Clearance –Secret

Title	**E-6B Fleet Replacement Aircrew In-flight Technician Category I Pipeline**
CIN	E-050-0414
Model Manager ...	VQ-7
Description	This course will provide sufficient knowledge/theory of the E-6 TACAMO communications and avionics systems to allow the student to become qualified in the following: ° Preflight postflight ° Operation ° Maintenance ° Troubleshooting ° Crew coordination Upon completion of this course, the student will be able to perform duties as an E-6 In-flight Technician and Communications Systems Operator, while independently deployed under close supervision
Location	VQ-7 Tinker AFB Oklahoma City
Length	263 days
RFT date	Currently available
Skill identifier.....	AT 8229
TTE/TD.....	° E-6B MAST ° E-6B WST ° E-6 HPTS Solid State Power Amplifier/Coupler (SSPA/C) Maintenance Trainer ° Integrated Avionics Trainer (IAT)
Prerequisite.....	° Q-050-1500 Naval Aircrew Candidate School ° E-2D-0039 Survival, Evasion, Resistance and Escape ° B-9E-1226 Naval Aviation Water Survival Program (R3) ° Complete Personnel Reliability Program (PRP) pre-screen ° Rate AT ° Security Clearance – Interim Top Secret

Title	**E-6B Fleet Replacement Aircrew In-flight Technician Category III Pipeline**
CIN	E-050-0421
Model Manager ...	VQ-7

Description	This course will provide refresher training to previously qualified E-6 Fleet Replacement Aircrew In-flight Technicians to include ° Preflight and postflight ° Operation ° Maintenance ° Troubleshooting ° Crew coordination Upon completion of this course the student will be capable of performing the duties of an E-6 In-flight technician with limited supervision
Location	VQ-7 Tinker AFB Oklahoma City
Length	36 days
RFT date	Available in Fiscal Year 2003
Skill identifier.....	AT 8229
TTE/TD.....	° E-6B MAST ° E-6B WST ° E-6 HPTS SSPA/C Maintenance Trainer ° IAT
Prerequisite.....	° B-322-0040 Refresher Aerospace Physiology Training (RP2) ° B-9E-1226 Refresher Water Survival Training Program (R3) ° E-050-0414 E-6B Fleet replacement Aircrew In-flight Technician Category I Pipeline ° Rate AT ° Security Clearance –Top Secret

Title	**E-6 Power Plant and Related Systems (Initial) Organizational Maintenance**
CIN	E-601-1911
Model Manager ...	MTU 1080 NAMTRAGRU DET Tinker AFB

Description	This course will provide the student with an introduction and basic description of the following E-6 systems: ° Fuel system, ° Auxiliary Power Unit ° Engines Upon completion the Aviation Machinist Mate will have the skills and knowledge necessary to perform, scheduled/unscheduled maintenance at the organizational level, under close supervision.
Location	MTU 1080 NAMTRAGRU DET Tinker AFB
Length	35 days
RFT date	Currently available
Skill identifier.....	AD 8843
TTE/TD.....	° E-6 Power Plants and Related Systems Trainer ° E-6 Flight Controls Trainer ° E-6 Fuel System Trainer ° E-6 Fuel System Trainer Open Frame, Wing Tank NO.#3 and Center Wing ° E-6 AFT Lower Lobe Trainer ° E-6 Landing Gear System Trainer ° E-6 Forward Entry Door/Aerial Refueling Receptacle ° E-6 Auxiliary Power Unit Trainer ° IAT
Prerequisite.....	° Pay Grade E-3-E-4 ° C-601-2014 AD TJET STRAND or equivalent fleet experience ° Security Clearance - Secret

Title	**E-6 Power Plant and Related Systems (Career) Organizational Maintenance**
CIN	E-601-0415
Model Manager ...	MTU 1080 NAMTRAGRU DET Tinker AFB

Description	This course will provide refresher training to the previously qualified E-6 power plant and related systems technician for the following: ° Fuel system ° Auxiliary Power Unit ° Engines Upon completion this course will provide the Aviation Machinist Mate sufficient knowledge to operate and perform organizational level maintenance, troubleshooting and repair on the E-6 Fuel System, Auxiliary Power Unit, and Power Plant and related systems, in the squadron working environment with limited supervision.
Location	MTU 1080 NAMTRAGRU DET Tinker AFB
Length	28 days
RFT date	Currently available
Skill identifier.....	AD 8343
TTE/TD.....	° E-6 Power Plants and Related Systems Trainer ° E-6 Flight Controls Trainer ° E-6 Fuel System Trainer ° E-6 Fuel System Trainer Open Frame, Wing Tank NO.#3 and Center Wing ° E-6 AFT Lower Lobe Trainer ° E-6 Landing Gear System Trainer ° E-6 Forward Entry Door/Aerial Refueling Receptacle ° E-6 Auxiliary Power Unit Trainer ° IAT
Prerequisite.....	° Pay Grade E-5-E-7 ° E-601-1911 E-6 Power Plant and Related Systems (Initial) Organizational Maintenance ° Security Clearance - Secret

Title	**E-6 Airframe and Hydraulic Systems (Initial) Organizational Maintenance**
CIN	E-602-1981
Model Manager ...	MTU 1080 NAMTRAGRU DET Tinker AFB

Description	This course provides instruction to the Aviation Structural and Hydraulic Mechanics on the following: ° Airframes ° Hydraulics ° Flight controls ° Preflight and postflight Upon completion of this course the Aviation Structural and Hydraulic Mechanics will be provided sufficient knowledge and skills necessary to perform limited organizational level maintenance in a squadron environment on the E-6 Airframe and Hydraulic Systems under close supervision.
Location	MTU 1080 NAMTRAGRU DET Tinker AFB
Length	32 days
RFT date	Currently available
Skill identifier.....	AM 8843
TTE/TD.....	° E-6 Power Plants and Related Systems Trainer ° E-6 Flight Controls Trainer ° E-6 Fuel System Trainer ° E-6 Hydraulic System Trainer ° E-6 Fuel System Trainer Open Frame, Wing Tank NO.#3 and Center Wing ° E-6 AFT Lower Lobe Trainer ° E-6 Landing Gear System Trainer ° E-6 Forward Entry Door/Aerial Refueling Receptacle ° E-6 Auxiliary Power Unit Trainer ° IAT
Prerequisite.....	° Pay Grade E-3-E-4 ° C-603-0176 AM Organizational Level STRAND or equivalent fleet experience ° Security Clearance - Secret

Title	**E-6 Airframe & Hydraulic Systems (Career) Organizational Maintenance**
CIN	E-603-0470
Model Manager ...	MTU 1080 NAMTRAGRU DET Tinker AFB

Description ..... This course will provide the previously qualified Aviation Structural and Hydraulic Mechanics Refresher training on the following systems:

- Airframes
- Hydraulics
- Flight controls
- Preflight and postflight

Upon completion of this course the student will posses sufficient knowledge and skills necessary to perform organizational level maintenance in a squadron environment on the E-6 Airframe and Hydraulic Systems with limited supervision.

Location ..... MTU 1080 NAMTRAGRU DET Tinker AFB

Length ..... 35 days

RFT date ..... Currently available

Skill identifier..... AM 8343

TTE/TD.....

- E-6 Power Plants and Related Systems Trainer
- E-6 Flight Controls Trainer
- E-6 Fuel System Trainer
- E-6 Hydraulic System Trainer
- E-6 Fuel System Trainer Open Frame, Wing Tank NO.#3 and Center Wing
- E-6 AFT Lower Lobe Trainer
- E-6 Landing Gear System Trainer
- E-6 Forward Entry Door/Aerial Refueling Receptacle
- E-6 Auxiliary Power Unit Trainer
- IAT

Prerequisite.....

- Pay Grade E-5-E-7
- E-602-1981 E-6 Airframes and Hydraulic Systems (Initial) Organization Maintenance
- Security Clearance - Secret

Title ..... E-6 Environmental Systems Organizational Maintenance

CIN E-602-0466

Model Manager ... MTU 1080 NAMTRAGRU DET Tinker AFB

Description ..... This course will provide training on the following:

- Aviation Safety Equipment
- Environmental Control System

Upon completion of this course the Aviation Structural Mechanic Safety Equipment technician will posses sufficient knowledge and skills necessary to perform limited organizational level maintenance in the squadron working environment with limited supervision.

Location ..... MTU 1080 NAMTRAGRU DET Tinker AFB

Length ..... 31 days

RFT date ..... Currently available

Skill identifier..... AME 8343

TTE/TD.....
- E-6 Power Plants and Related Systems Trainer
- E-6 Flight Controls Trainer
- E-6 Environmental Control System Trainer
- E-6 AFT Lower Lobe Trainer
- E-6 Landing Gear System Trainer
- E-6 Auxiliary Power Unit Trainer
- IAT

Prerequisite.....
- Pay Grade E-3-E-7
- C-602-2033 Aviation Structural Mechanic(E) Safety Equipment common CORE
- Security Clearance - Secret

Title ..... E-6B Avionics Systems (Initial) Organizational Maintenance Technician

CIN E-102-6145

Model Manager ... MTU 1080 NAMTRAGRU DET Tinker AFB

Description ..... This course provides sufficient knowledge/theory of the E-6 TACAMO communications and avionics systems, including:

- Operation
- Testing
- Troubleshooting
- Repair techniques

Upon completion of this track the student will have sufficient knowledge and skill of the E-6 Mission and Flight Deck Avionics Systems to work in the squadron environment under close supervision

Location	MTU 1080 NAMTRAGRU DET Tinker AFB
Length	114 days
RFT date	Currently available
Skill identifier.....	AT 8809
TTE/TD.....	° E-6B MAST ° E-6 Flight Controls Trainer ° E-6, HPTS,SSPA/C Maintenance Trainer ° IAT
Prerequisite.....	° Pay Grade E-3-E-4 ° C-100-2018 Avionics Organizational Level Maintenance ° Security Clearance – Top Secret

Title	**E-6B Avionics Systems (Career) Organizational Maintenance Technician**
CIN	E-102-6144
Model Manager ...	MTU 1080 NAMTRAGRU DET Tinker AFB
Description	This course will provide the previously qualified Aviation Electronics Technician refresher training on the following systems: ° Mission Avionics ° Flight Deck Avionics Upon completion of this course the second tour Avionics Technician will posses advanced knowledge and skills necessary to perform organizational maintenance on the E-6 Avionics Systems in the squadron working environment with limited supervision
Location	MTU 1080 NAMTRAGRU DET Tinker AFB
Length	56 days
RFT date	Currently available
Skill identifier.....	AT 8315
TTE/TD.....	° E-6B MAST ° E-6 Flight Controls Trainer ° E-6, HPTS/SSPA/C Maintenance Trainer ° IAT

Prerequisite.....
- Pay Grade E-3-E-4
- E-102-6145 E-6B Avionics Systems (Initial) Organizational Maintenance Course
- Security Clearance – Top Secret

Title ..... E-6 Electrical and Instrument Systems (Initial) Organizational Maintenance

CIN E-602-1952

Model Manager ... MTU 1080 NAMTRAGRU DET Tinker AFB

Description ..... This course provides sufficient knowledge/theory of the E-6 Electrical and Instrument systems, which includes:

- Power Generation and Distribution
- Flight Instrumentation
- Environmental Controls
- APU
- Fuel System

Upon completion of this course, the Aviation Electricians Mate will have sufficient knowledge and skills necessary to perform limited organizational level maintenance in a squadron environment under close supervision on the E-6 Electrical Systems

Location ..... MTU 1080 NAMTRAGRU DET Tinker AFB

Length ..... 41 days

RFT date ..... Currently available

Skill identifier..... AE 8843

TTE/TD.....
- E-6 Power Plants and Related Systems Trainer
- E-6 Flight Controls Trainer
- E-6 Environmental Control System Trainer
- E-6 AFT Lower Lobe Trainer
- E-6 Landing Gear System Trainer
- E-6 Auxiliary Power Unit Trainer
- IAT
- E-6 Electrical System Trainer
- E-6 Hydraulic Systems Trainer
- E-6 Fuel System Trainer
- E-6 Fuel System Trainer Open Frame, Wing tank NO #3 and Center Wing Trainer
- E-6 Forward Entry Door/Aerial Refueling Receptacle

Prerequisite.....
- Pay Grade E-3-E-4
- C-603-2039, Aviation Electricians Mate STRAND A1 or equivalent fleet experience
- Security Clearance – Secret

Title ..... E-6 Electrical and Instrument Systems (Career) Organizational Maintenance

CIN E-602-0452

Model Manager ... MTU 1080 NAMTRAGRU DET Tinker AFB

Description ..... This course will provide the previously qualified Aviation Electricians Mate refresher training on the following systems:

- Power Generation and Distribution
- Flight Instrumentation
- Environmental Controls
- APU
- Fuel System

Upon completion of this course, the second tour Aviation Electricians Mate will have advanced knowledge and skills necessary to perform organizational level maintenance in a squadron environment with limited supervision on the E-6 Electrical and Instrument Systems

Location ..... MTU 1080 NAMTRAGRU DET Tinker AFB

Length ..... 28 days

RFT date ..... Currently available

Skill identifier..... AE 8343

TTE/TD.....
- E-6 Power Plants and Related Systems Trainer
- E-6 Flight Controls Trainer
- E-6 Environmental Control System Trainer
- E-6 AFT Lower Lobe Trainer
- E-6 Landing Gear System Trainer
- E-6 Auxiliary Power Unit Trainer
- IAT
- E-6 Electrical System Trainer
- E-6 Hydraulic Systems Trainer
- E-6 Fuel System Trainer
- E-6 Fuel System Trainer Open Frame, Wing tank NO #3 and Center Wing Trainer
- E-6 Forward Entry Door/Aerial Refueling Receptacle

Prerequisite.....
- Pay Grade E-5-E-7
- E-602-1952 E-6 Electrical and Instrument Systems (Initial) Organizational Maintenance
- Security Clearance – Secret

Title ..... E-6 Mission Avionics System Intermediate Maintenance

CIN E-102-6143

Model Manager ... MTU 1080 NAMTRAGRU DET Tinker AFB

Description ..... This course will provide the student with the ability to perform as an intermediate level Avionics Technician as follows:

- Testing
- Troubleshooting
- Repair

Upon completion of this course the student will posses the skills and knowledge necessary to perform intermediate level repair on the E-6 Mission Avionics with limited supervision

Location ..... MTU 1080 NAMTRAGRU DET Tinker AFB

Length ..... 28 days

RFT date ..... Currently available

Skill identifier..... AT 6702

TTE/TD..... E-6B Mission Avionics Intermediate Level Maintenance Trainers

Prerequisite.....
- Pay Grade E-5-E-6
- Candidate must be an AT Intermediate (I) Level designate
- Security Clearance – Secret

Title ..... E-6B Airborne Communications Officer

CIN C-2D-3504

Model Manager ... MTU 1080 NAMTRAGRU DET Tinker AFB

Description	This course is designed to provide the NFO the training to perform the following: ° Crew Coordination ° Message Handling ° Operational Scenarios Upon completion of this course, Naval Flight Officers will have acquired sufficient knowledge and skills of the E-6B Communications System to manage a crew in the squadron/airborne environment under close supervision
Location	MTU 1080 NAMTRAGRU DET Tinker AFB
Length	5 days
RFT date	Currently available
Skill identifier.....	Designator 1321
TTE/TD.....	E-6B MAST
Prerequisite.....	° Naval Flight Officer, E-6 Navigator Qualified ° Security Clearance – Interim Secret

I. ON BOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. COMNAVAIRPACINST 3500.67D. This contains the proficiency and other training requirements applicable to the E-6 community.

b. Aviation Maintenance Training Continuum System. The Aviation Maintenance Training Continuum System (AMTCS) will provide the career path training to the sailor or marine from their initial service entry to the end of their military career. The AMTCS is planned to be an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. By 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 Chief of CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: CBT for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and CAI for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module (ASM) which provides testing [Test and Evaluation (TEV)], recording [Electronic Training Jacket (ETJ)], and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task

List (MTL) data bank. These tools are procured and fielded with appropriate hardware and software, i.e. Fleet Training Devices (FTD) - Laptops, PCs, Electronic Classrooms (ECR), Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N889H), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Other On board/In-Service Training Packages. NA

J. LOGISTICS SUPPORT

1. Manufacturer/Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00019-93-C-0224	Rockwell International	3200 East Renner Road Richardson, Texas 75082-2402
N00019-94-C-0224	Raytheon E-Systems Waco Division	7500 Maehr Road Waco, Texas 76715

2. Program Documentation

DOCUMENT	APPROVAL DATE	REVISION DATE	PLANNED NEXT REVISION DATE
Joint Integrated Logistic Support Plan	01 June 1992	NA	
Integrated Logistics Support Plan AC-ILSP-227	17 December 1993	NA	
E-6B/ABNCP Revision G addendum 2 AC-ILSP-277	01 June 1994	NA	
HPTS AV-ILSP-227	31 March 1995	NA	

DOCUMENT	APPROVAL DATE	REVISION DATE	PLANNED NEXT REVISION DATE
Operational Logistics Support Summary	NA	NA	NA
ORD Number 389-88-95		20 March 1997	September 2002

3. Technical Data Plan. E-6A and E-6B technical manuals and technical data have been prepared, validated, verified and delivered under the production options of the contract. Organizational Maintenance Manuals, Structural Repair Manuals and Illustrated Parts Breakdown (IPB) series have been published. All manuals are numbered in the NAVAIR series and delivered in hard copy. Complete hard copy sets of E-6B technical manuals were delivered to the fleet to support Initial Operational Capability (IOC). In addition, Electronic Technical Manuals (ETM's) are being acquired to support the E-6B. Hardware platforms for ETM viewing and use were acquired in FY99. The ETM hardware and software has been gradually phased into the E-6 maintenance community since FY99 with continued support of hard copy publications. NAVAIR unique manuals are:

- NATOPS Flight Manuals, Supplements and Check Lists
- Tactical Manual Supplement and Pocket Guideline
- Periodic Maintenance Manuals, Checklists and Maintenance Requirements Cards (MRCs)
- Weapons System Technical Documentation List
- Fire Fighting and Rescue Manual
- Crew Station Maintenance Manual

4. Test Sets, Tools, and Test Equipment. The Logistic Support Analysis process has identified the ABNCP support equipment requirements. The initial support equipment selected for the E-6B was based on existing E-6A requirements with modifications to satisfy the new E-6B equipment requirements.

Special test sets, tools, and test equipment for the maintenance trainers are listed in the detail specification for each trainer and are a part of the inventory of the trainer. In the case of multiple uses they are assigned to a primary trainer and the detail specification is annotated to show they are to be shared with other trainers. The tools and equipment were transferred to MTU 1080 NAMTRAGRU DET Tinker AFB as the trainers were accepted.

5. Repair Parts. The Navy operates supply response centers at Tinker AFB, Offutt AFB, and the two coastal alert detachment sites, Travis AFB and NAS Patuxent River. The Navy provides and manages the spares and repair parts for Government Furnished Equipment (GFE) common to the Navy inventory. The Contractor Logistic Support (CLS) contractor manages spares for repair of Contractor Furnished Equipment (CFE) and GFE not common to

Navy inventory. Initial spares, Provisioning Parts Lists and Repair Parts Lists for the maintenance trainers have been procured by NAVAIR.

6. **Human Systems Integration.** The Human Systems Integration Plan is not required for this program.

K. SCHEDULES

1. Schedule of Events

a. Installation/Delivery Schedule. E-6B aircraft are being delivered to the fleet in accordance with the following PMA271 schedule of 15 Dec 1997.

Aircraft 01 (406) .....Delivered
Aircraft 02 (918) .....Delivered
Aircraft 03 (782) .....Delivered
Aircraft 04 (784) .....Delivered
Aircraft 05 (783) .....Delivered
Aircraft 06 (919) .....Delivered
Aircraft 07 (920)..... Delivered
Aircraft 08 (387) .....Delivered
Aircraft 09 (408) .....Delivered
Aircraft 10 (386) .....Delivered
Aircraft 11 (404) .....Delivered
Aircraft 12 (388) .....Delivered
Aircraft 13 (407) .....Delivered
Aircraft 14 (405) .....FY02 second quarter
Aircraft 15 (409) .....FY02 fourth quarter
Aircraft 16 (410) .....FY03, third quarter

2. Ready for Operational Use Schedule. The Ready for Operational Use schedule will occur 3 months after delivery of the aircraft to the fleet. The three months will be used for operational training of the aircrews.

3. Time Required to Install at Operational Sites. NA

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule. NA

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS

1. Training Requirements. GFE and CFE requirements for the trainers are contained in the detailed trainer specification. Course requirements are in the Equipment Requirements List.

M. RELATED NAVAL TRAINING SYSTEM PLANS AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
AN/ARC-182(V) UHF/VHF Radio	A-50-8115C	PMA 209	Approved Mar 00
Training Systems Alternatives Report for E-6B Mission Crew		PMA-205J	Delivered 15 Sept. 2000

PART II BILLET AND PERSONNEL REQUIREMENTS

The following NTSP elements are not required or impacted by this revision and are not included:

- II.A.1.a Operational and Fleet Support Activity Activation Schedule (E-6A to E-6B Transition)
- 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

Element II.A.1.b. **Billets Required for Operational and Fleet Support Activities**

ACTIVITY/UIC	BILLETS OFF	ENL/ CIV	DSGNTR RATING	PNEC/SNEC PP/OCC/GD
Operational				
VQ-3 Shore Component/09923		35		
VQ-3 Sea Component/55154	77	371		
VQ-3 Det Travis/47294	1	85		
VQ-3 Det Offutt/55677	1	78		
Total VQ-3	79	569		
VQ-4 Shore Component/09962		35		
VQ-4 Sea Component/42065	77	371		
VQ-4 Det Patuxent River/49403	1	55		
Total VQ-4	78	461		
Fleet Support				
STRATCOMMWING ONE/55575	21	208 (includes 26 civilians)		
VQ-7/47372	59* *(includes 18 contractors)	57		
NAMTGD 1080/47373	2	53 (includes 1 civilian)		
NAVCOMTELSTRATCOM U Det Travis/49657		17		
NAVCOMTELSTRATCOM U Det Okla/49658	1	32		
NAVCOMTELSTRATCOM U Det Pax/49659		17		
FLEET TOTAL	157	1030		
FLEET SUPPORT TOTAL	83	384		
GRAND TOTAL	240* *(includes 18 contractors)	1414 (includes 27 civilian)		

NOTE: Manpower requirements are derived from the units Activity Manpower Document.

Element II.A.1.c. **Total Billets Required for Operational and Fleet Support Activities**

DSGNTR RATING	PNEC/SNEC	CFY 02 OFF	CFY 02 ENL/CIV	FY 03 OFF	FY 03 ENL/CIV	FY 04 OFF	FY 04 ENL/CIV	FY 05 OFF	FY 05 ENL/CIV	FY 06 OFF	FY 06 ENL/CIV
OPERATIONAL ACTIVITIES - ACDU											
FLEET SUPPORT ACTIVITIES - ACDU											
SUMMARY TOTALS:											
OPERATIONAL											
ACDU		157	1030								
TAR											
SELRES											
CIVILIAN											
FLEET SUPPORT											
ACDU		65	357								
TAR											
SELRES											
CIVILIAN			27								
CONTRACTORS		18									
GRAND TOTALS											
ACDU		222	1387								
TAR											
SELRES											
CIVILIAN			27								
CONTRACTORS		18									
		240	1414								

Element II.A.3. **Training Activities Instructor and Support Billet Requirements**

INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRUDET 1080/TINKER AFB/47373

DSGNTR RATING	PNEC/SNEC	CFY 02 OFF	CFY 02 ENL/CIV	FY 03 OFF	FY 03 ENL/CIV	FY 04 OFF	FY 04 ENL/CIV	FY 05 OFF	FY 05 ENL/CIV	FY 06 OFF	FY 06 ENL/CIV
ACDU											
LT	1320	1									
ADC	8343/9502		1								
AD1	8343/9502		2								
AD2	8343/9502		1								
AEC	8343/9502		2		-1						
AE1	8343/9502		1								
AE1	8235/9502		1								
AE1	8227/9502		2								
AE2	8343/9502		1								
AMHC	8227/9502		1								
AMH1	8235/9502		2								
AMH1	8343/9502		2								
AMS1	8227/9502		1								
AMS1	8235/9502		1								
AMS1	8343/9502		2								
AME1	8343/9502		1								
AME2	8343/9502		1								
APO1	0000/9502		1								
ATC	8343/9502		1								
ATC	8229/9502		2		-1						
AT1	6702/9502		3		-1						
AT1	8229/9502		6		-1						
AT1	8238/9502		2								
AT1	8343/9502		3								
AT2	8229/9502		1								
TAR											
SELRES											
CIVILIAN											
TOTAL		1	41								

Element II.A.3. **Training Activities Instructor and Support Billet Requirements (cont.)**

TRAINING ACTIVITY, LOCATION, UIC: VQ-7/TINKER AFB/47372

DSGNTR RATING	PNEC/SNEC	CFY 02 OFF	CFY 02 ENL/CIV	FY 03 OFF	FY 03 ENL/CIV	FY 04 OFF	FY 04 ENL/CIV	FY 05 OFF	FY 05 ENL/CIV	FY 06 OFF	FY 06 ENL/CIV
ACDU											
LT	1312	26*			*(9 are contractor personnel)						
LT	1322	23*			*(9 are contractor personnel)						
APOCS	8235/9502		1								
APOC	8227/9502		1								
APO1	8227/9502		1								
APO1	8235/9502		5								
APO2	8235/9502		4								
ATC	8229/9502		1								
ATC	8238/9502		1								
AT1	8229/9502		1								
AT1	8238/9502		1								
ITC	8228/9502		2								
IT1	8228/9502		3				-1				
IT1	8237/9502		1								
IT2	8228/9502		1								
TAR											
SELRES											
CIVILIAN TOTAL		*49	23								
		*(18 are contractor personnel)									

Element II.A.3. **Training Activities Instructor and Support Billet Requirements (cont.)**

SUPPORT BILLETS

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRUDET 1080/TINKER AFB/47373

		CFY 02		FY 03		FY 04		FY 05		FY 06	
DSGNTR RATING	PNEC/SNEC	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV
ACDU											
LCDR	1320	1									
AEC	0000		1		-1						
AK1	0000		1								
APOCS	0000		1		+1						
ATCS	0000/9502		1		-1						
AVCM	0000/9502		1								
AZ2	0000		1								
IT1	2735		1		-1						
IT1	2739		1								
IT3	2750		1								
YN1	0000		1								
YN2	0000		1								
TAR											
SELRES											
CIVILIAN											
GS-11	01712		1								
TOTAL		1	12								

Element II.A.3. **Training Activities Instructor and Support Billet Requirements (cont.)**

TRAINING ACTIVITY, LOCATION, UIC: VQ-7/TINKER AFB/47372

DSGNTR RATING	PNEC/SNEC	CFY 02 OFF	CFY 02 ENL/CIV	FY 03 OFF	FY 03 ENL/CIV	FY 04 OFF	FY 04 ENL/CIV	FY 05 OFF	FY 05 ENL/CIV	FY 06 OFF	FY 06 ENL/CIV
SUPPORT BILLETS (cont.)											
ACDU											
CDR	1302	2									
LCDR	1312	2									
LCDR	1322	2									
LT	1312	1									
LT	1520	1									
LT	2102	1									
LT	6410	1									
AKC	0000		1								
AK2	9590		1								
AN	0000		6								
APOCS	0000		1								
APOC	8235		1								
APOC	8236		1								
APO1	0000		1								
APO1	9595		1								
APO1	8235		4								
APO1	8236		1								
APO2	0000		3								
AZ2	0000		1								
AZ3	0000		1								
DK2	0000		1								
HM2	8406		1								
ITC	8237		1								
PN2	0000		1								
YN1	9588		1								
YN2	0000		3								
YN3	0000		1								
YNSN	0000		2								
TAR											
SELRES											
CIVILIAN											
TOTAL		10	34								

Element II.A.4 **Chargeable Student Billet Requirements**

ACTIVITY	USN	PFY 01		CFY 02		FY 03		FY 04		FY 05		FY 06			
LOCATION, UIC	USMC	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV	OFF	ENL/ CIV
NAMTGD 1080, TINKER, 47373	USN	1.0	15.8	1.0	16.4	1.0	15.8	1.0	15.8	1.0	16.4	1.0	15.8		
SUMMARY TOTALS	USN	1.0	15.8	1.0	16.4	1.0	15.8	1.0	15.8	1.0	16.4	1.0	15.8		
VQ-7 TINKER, 47372	USN		ENL/		ENL/		ENL/		ENL/		ENL/		ENL/		ENL/
	USMC	OFF	CIV	OFF	CIV	OFF	CIV	OFF	CIV	OFF	CIV	OFF	CIV	OFF	CIV
	USN	10.4	41.0	10.4	41.9	10.2	40.8	10.4	41.5	10.4	41.5	10.4	41.5		
SUMMARY TOTALS	USN	10.4	41.0	10.4	41.9	10.2	40.8	10.4	41.5	10.4	41.5	10.4	41.5		
GRAND TOTAL	USN	11.4	56.8	11.4	58.3	11.2	56.6	11.4	57.3	11.4	57.9	11.4	57.9		

Note: These billets are a summary of the chargeable student billets from III.A.2

Element II.A.5. **ANNUAL INCREMENTAL AND CUMULATIVE BILLETS**

a. **OFFICER - USN**

DESIGNATOR	BILLET BASE	CFY 02 +/- CUM	FY 03 +/- CUM	FY 04 +/- CUM	FY 05 +/- CUM	FY 06 +/- CUM
Operational Billets ACDU and TAR						
1301	04	/04	/04	/04	/04	/04
1302	03	/03	/03	/03	/03	/03
1311	84	/84	/84	/84	/84	/84
1321	56	/56	/56	/56	/56	/56
1520	03	/03	/03	/03	/03	/03
2102	02	/02	/02	/02	/02	/02
6330	03	/03	/03	/03	/03	/03
7510	02	/02	/02	/02	/02	/02
Fleet Support Billets ACDU and TAR						
1000	01	/01	/01	/01	/01	/01
1300	01	/01	/01	/01	/01	/01
1301	02	/02	/02	/02	/02	/02
1302	02	/02	/02	/02	/02	/02
1312	16	/16	/16	/16	/16	/16
1322	10	/10	/10	/10	/10	/10
1520	01	/01	/01	/01	/01	/01
1630	01	/01	/01	/01	/01	/01
1650	01	/01	/01	/01	/01	/01
2102	03	/03	/03	/03	/03	/03
2500	01	/01	/01	/01	/01	/01
3100	02	/02	/02	/02	/02	/02
4100	01	/01	/01	/01	/01	/01
6290	02	/02	/02	/02	/02	/02
6380	02	/02	/02	/02	/02	/02
6410	01	/01	/01	/01	/01	/01
6420	01	/01	/01	/01	/01	/01
Instructor and Support (Staff Billets ACDU and TAR)						
1312	17	/17	/17	/17	/17	/17
1320	02	/02	/02	/02	/02	/02
1322	16	/16	/16	/16	/16	/16
Chargeable Student Billets ACDU and TAR						
	10	/10	/10	/10	/10	/10
TOTAL USN OFFICER BILLETS:						
Operational	157	/157	/157	/157	/157	/157

Fleet Support	48	/48		/48		/48		/48		/48	
Staff	35	/35		/35		/35		/35		/35	
Student	09	/09		/09		/09		/09		/09	
SELRES	250	/250		/250		/250		/250		/250	

Element II.A.5. **ANNUAL INCREMENTAL AND CUMULATIVE BILLETS** (cont.)

b. **ENLISTED/CIVILIAN - USN**

		BILLET	CFY 02		FY 03		FY 04		FY 05		FY 06	
RTNG	PNEC/SNEC	BASE	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
Operational Billets ACDU and TAR												
AD	8343	24	/	24	/	24	/	24	/	24	/	24
AD	8843	39	/	39	/	39	/	39	/	39	/	39
AE	8343	26	/	26	/	26	/	26	/	26	/	26
AE	8843	49	/	49	/	49	/	49	/	49	/	49
AK		18	/	18	/	18	/	18	/	18	/	18
AK	0000/9590	02	/	02	/	02	/	02	/	02	/	02
AME	8343	39	/	39	/	39	/	39	/	39	/	39
AMH	8343	11	/	11	/	11	/	11	/	11	/	11
AMH	8843	17	/	17	/	17	/	17	/	17	/	17
AMS	8343	24	/	24	/	24	/	24	/	24	/	24
AMS	8843	49	/	49	/	49	/	49	/	49	/	49
AMS	8343/9595	04	/	04	/	04	/	04	/	04	/	04
AN		69	/	69	/	69	/	69	/	69	/	69
APO		48	/	48	/	48	/	48	/	48	/	48
APO	0000/9595	02	/	02	/	02	/	02	/	02	/	02
APO	8227	38	+07/	45	+10/	55	/	55	/	55	/	55
APO	8235	56	/	56	/	56	/	56	/	56	/	56
APO	8236	18	-07/	11	-10/	01	/	01	/	01	/	01
APO	8300	02	/	02	/	02	/	02	/	02	/	02
APO	8343	01	/	01	/	01	/	01	/	01	/	01
AT	6703	48	+06/	54	+10/	64	/	64	/	64	/	64
AT	8229	56	+13/	69	+15/	84	/	84	/	84	/	84
AT	8238	28	-13/	15	-15/	00	/	00	/	00	/	00
AT	8343	23	-06/	17	-10/	07	/	07	/	07	/	07
AZ		18	/	18	/	18	/	18	/	18	/	18
AZ	6315	02	/	02	/	02	/	02	/	02	/	02
CE		06	/	06	/	06	/	06	/	06	/	06
CM		18	/	18	/	18	/	18	/	18	/	18
EO		06	/	06	/	06	/	06	/	06	/	06
HM	8425	02	/	02	/	02	/	02	/	02	/	02
IT	2735	02	/	02	/	02	/	02	/	02	/	02
IT	8228	38	+08/	46	+09/	55	/	55	/	55	/	55
IT	8237	18	-08/	10	-09/	01	/	01	/	01	/	01
MA		20	/	20	/	20	/	20	/	20	/	20
MS		18	/	18	/	18	/	18	/	18	/	18
NC		02	/	02	/	02	/	02	/	02	/	02
PO		57	/	57	/	57	/	57	/	57	/	57
PO	8201	01	/	01	/	01	/	01	/	01	/	01
PO	0000/9545	88	/	88	/	88	/	88	/	88	/	88

POC	06	/	06	/	06	/	06	/	06	/	06
POCM0000/9580	02	/	02	/	02	/	02	/	02	/	02
PR	14	/	14	/	14	/	14	/	14	/	14
YN	21	/	21	/	21	/	21	/	21	/	21
Fleet Support Billets ACDU and TAR											
ABE	01	/	01	/	01	/	01	/	01	/	01
AD	01	/	01	/	01	/	01	/	01	/	01
AE	01	/	01	/	01	/	01	/	01	/	01

Element II.A.5. **ANNUAL INCREMENTAL AND CUMULATIVE BILLETS** (cont.)

b. **ENLISTED/CIVILIAN - USN** (cont.)
Fleet Support Billets ACDU and TAR (cont.)

		BILLET	CFY 02		FY 03		FY 04		FY 05		FY 06	
RTNG	PNEC/SNEC	BASE	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
AK		17	/	17	/	17	/	17	/	17	/	17
AK	2824	06	/	06	/	06	/	06	/	06	/	06
AK	2825	01	/	01	/	01	/	01	/	01	/	01
AMS		01	/	01	/	01	/	01	/	01	/	01
AMS	8236	01	/	01	/	01	/	01	/	01	/	01
AN		02	/	02	/	02	/	02	/	02	/	02
APO		04	/	04	/	04	/	04	/	04	/	04
APO	8235	01	/	01	/	01	/	01	/	01	/	01
APO	8236	01	/	01	/	01	/	01	/	01	/	01
APO	8343	01	/	01	/	01	/	01	/	01	/	01
APO	0000/9502	01	/	01	/	01	/	01	/	01	/	01
APO	0000/9580	01	/	01	/	01	/	01	/	01	/	01
APO	0000/9595	01	/	01	/	01	/	01	/	01	/	01
AT		07	/	07	/	07	/	07	/	07	/	07
AT	6702	02	/	02	/	02	/	02	/	02	/	02
AT	6702/9503	01	/	01	/	01	/	01	/	01	/	01
AT	6702/9526	02	/	02	/	02	/	02	/	02	/	02
AT	6702/9527	02	/	02	/	02	/	02	/	02	/	02
AT	8238	02	/	02	/	02	/	02	/	02	/	02
AZ		02	/	02	/	02	/	02	/	02	/	02
AZ	6313	01	/	01	/	01	/	01	/	01	/	01
ET		03	/	03	/	03	/	03	/	03	/	03
ET	1415	01	/	01	/	01	/	01	/	01	/	01
ET	1425	01	/	01	/	01	/	01	/	01	/	01
ET	1425/1468	01	/	01	/	01	/	01	/	01	/	01
ET	1442/1460	01	/	01	/	01	/	01	/	01	/	01
ET	1456	01	/	01	/	01	/	01	/	01	/	01
ET	1460	02	/	02	/	02	/	02	/	02	/	02
ET	14NO	01	/	01	/	01	/	01	/	01	/	01
ET	14RM	03	/	03	/	03	/	03	/	03	/	03
ET	14RO	03	/	03	/	03	/	03	/	03	/	03
ET	1664/1677	02	/	02	/	02	/	02	/	02	/	02
ET	23EY	01	/	01	/	01	/	01	/	01	/	01
HM	8406	04	/	04	/	04	/	04	/	04	/	04
HN		02	/	02	/	02	/	02	/	02	/	02
IS		03	/	03	/	03	/	03	/	03	/	03
IT		53	/	53	/	53	/	53	/	53	/	53

IT	2318/2319	01	/	01	/	01	/	01	/	01	/	01
IT	2730	02	/	02	/	02	/	02	/	02	/	02
IT	2732	06	/	06	/	06	/	06	/	06	/	06
IT	2735	04	/	04	/	04	/	04	/	04	/	04
IT	2750/2732	01	/	01	/	01	/	01	/	04	/	01
IT	2780	01	/	01	/	01	/	01	/	01	/	01
IT	8237	05	/	05	/	05	/	05	/	05	/	05
JO		01	/	01	/	01	/	01	/	01	/	01
LN		01	/	01	/	01	/	01	/	01	/	01

Element II.A.5. **ANNUAL INCREMENTAL AND CUMULATIVE BILLETS** (cont.)

ENLISTED/CIVILIAN - USN (cont.)
Fleet Support Billets ACDU and TAR (cont.)

		BILLET	CFY 02		FY 03		FY 04		FY 05		FY 06	
RTNG	PNEC/SNEC	BASE	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
MA		09	/	09	/	09	/	09	/	09	/	09
MA	9999	02	/	02	/	02	/	02	/	02	/	02
MS		06	/	06	/	06	/	06	/	06	/	06
MS	3538	03	/	03	/	03	/	03	/	03	/	03
NC		01	/	01	/	01	/	01	/	01	/	01
PO		03	/	03	/	03	/	03	/	03	/	03
PO	0000/9545	40	/	40	/	40	/	40	/	40	/	40
PO	9999/9545	04	/	04	/	04	/	04	/	04	/	04
RP		01	/	01	/	01	/	01	/	01	/	01
SK		05	/	05	/	05	/	05	/	05	/	05
SK	2824	02	/	02	/	02	/	02	/	02	/	02
SK	0000/9595	01	/	01	/	01	/	01	/	01	/	01
SN		02	/	02	/	02	/	02	/	02	/	02
YN		05	/	05	/	05	/	05	/	05	/	05
GS00018		01	/	01	/	01	/	01	/	01	/	01
GS00028		01	/	01	/	01	/	01	/	01	/	01
GS00029		01	/	01	/	01	/	01	/	01	/	01
GS00080		02	/	02	/	02	/	02	/	02	/	02
GS00318		02	/	02	/	02	/	02	/	02	/	02
GS00326		02	/	02	/	02	/	02	/	02	/	02
GS00334		05	/	05	/	05	/	05	/	05	/	05
GS00335		01	/	01	/	01	/	01	/	01	/	01
GS00342		01	/	01	/	01	/	01	/	01	/	01
GS00343		02	/	02	/	02	/	02	/	02	/	02
GS00501		01	/	01	/	01	/	01	/	01	/	01
GS00560		01	/	01	/	01	/	01	/	01	/	01
GS00801		01	/	01	/	01	/	01	/	01	/	01
GS01105		01	/	01	/	01	/	01	/	01	/	01
GS01670		02	/	02	/	02	/	02	/	02	/	02
GS01740		01	/	01	/	01	/	01	/	01	/	01
GS02001		01	/	01	/	01	/	01	/	01	/	01

Instructor and Support (Staff) Billets ACDU and TAR

		BILLET	CFY 02		FY 03		FY 04		FY 05		FY 06	
RTNG	PNEC/SNEC	BASE	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
AD	8343/9502	04	/	04	/	04	/	04	/	04	/	04

AE		01	/	01	-01/	00	/	00	/	00	/	00
AE	8227/9502	02	/	02	/	02	/	02	/	02	/	02
AE	8235/9502	01	/	01	/	01	/	01	/	01	/	01
AE	8343/9502	04	/	04	-01/	03	/	03	/	03	/	03
AK		02	/	02	/	02	/	02	/	02	/	02
AK	0000/9590	01	/	01	/	01	/	01	/	01	/	01
AME	8343/9502	02	/	02	/	02	/	02	/	02	/	02
AMH	8227/9502	01	/	01	/	01	/	01	/	01	/	01
AMH	8235/9502	02	/	02	/	02	/	02	/	02	/	02
AMH	8343/9502	02	/	02	/	02	/	02	/	02	/	02

Element II.A.5. **ANNUAL INCREMENTAL AND CUMULATIVE BILLETS** (cont.)

ENLISTED/CIVILIAN - USN (cont.)

Instructor and Support (Staff) Billets ACDU and TAR (cont)

		BILLET	CFY 02		FY 03		FY 04		FY 05		FY 06	
RTNG	PNEC/SNEC	BASE	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
AMS	8227/9502	01	/	01	/	01	/	01	/	01	/	01
AMS	8235/9502	01	/	01	/	01	/	01	/	01	/	01
AMS	8343/9502	02	/	02	/	02	/	02	/	02	/	02
AN		06	/	06	/	06	/	06	/	06	/	06
APO		06	/	06	+01/	07	/	07	/	07	/	07
APO	0000/9502	01	/	01	/	01	/	01	/	01	/	01
APO	0000/9595	01	/	01	/	01	/	01	/	01	/	01
APO	8227/9502	02	/	02	/	02	/	02	/	02	/	02
APO	8235	05	/	05	/	05	/	05	/	05	/	05
APO	8235/9502	10	/	10	/	10	/	10	/	10	/	10
APO	8236	02	/	02	/	02	/	02	/	02	/	02
AT	0000/9502	01	/	01	-01/	00	/	00	/	00	/	00
AT	6702/9502	03	/	03	-01/	02	/	02	/	02	/	02
AT	8229/9502	11	/	11	-02/	09	/	09	/	09	/	09
AT	8238/9502	04	/	04	/	04	/	04	/	04	/	04
AT	8343/9502	04	/	04	/	04	/	04	/	04	/	04
AV	0000/9502	01	/	01	/	01	/	01	/	01	/	01
AZ		03	/	03	/	03	/	03	/	03	/	03
DK		01	/	01	/	01	/	01	/	01	/	01
HM		01	/	01	/	01	/	01	/	01	/	01
IT	2735	01	/	01	-01/	00	/	00	/	00	/	00
IT	2739	01	/	01	/	01	/	01	/	01	/	01
IT	2750	01	/	01	/	01	/	01	/	01	/	01
IT	8228/9502	06	/	06	/	06	-01/	05	/	05	/	05
IT	8237	01	/	01	/	01	/	01	/	01	/	01
IT	8237/9502	01	/	01	/	01	/	01	/	01	/	01
PN		01	/	01	/	01	/	01	/	01	/	01
YN		09	/	09	/	09	/	09	/	09	/	09
GS01712		01	/	01	/	01	/	01	/	01	/	01

TOTAL USN ENLISTED/CIVILIAN BILLETS:

BILLET	CFY 02	FY 03	FY 04	FY 05	FY 06
BASE	+/-CUM	+/-CUM	+/-CUM	+/-CUM	+/-CUM

Operational	1030	/1030	/1030	/1030	/1030	/1030
Fleet Support	274	/274	/274	/274	/274	/274
Staff	110	/110	-06/110	-01/104	-01/103	/103
Student	57	+01/57	-01/58	/57	+01/58	/58
SELRES						
	1471	1472	-07/1465	-01/1464	+01/1465	+01/1465

Section **II.B. PERSONNEL REQUIREMENTS**

Element II.B.1. **Annual Training Input Requirements**

CIN, COURSE TITLE: E-2B-0407, E-6 Fleet Replacement Pilot Category I Pipeline

COURSE LENGTH: 115 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU	23		23		23		23		23	

CIN, COURSE TITLE: E-2B-0406, E-6 Fleet Replacement Pilot Category III Pipeline

COURSE LENGTH: 53 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU	5		5		5		5		5	

Note: Contractor schedules courses for 8 category III pilots per year.

CIN, COURSE TITLE: E-2D-0407, E-6 Fleet Replacement Naval Flight Officer Category I Pipeline

COURSE LENGTH: 42 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU	14		13		14		14		13	

Note: Contractor schedules courses for 24 total NFOs per year.

CIN, COURSE TITLE: E-2D-0404, E-6 Fleet Replacement Naval Flight Officer Category III Pipeline

COURSE LENGTH: 42 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU	5		5		5		5		5	

Note: Contractor schedules courses for 24 total NFOs per year.

Element II.B.1. **Annual Training Input Requirements** (cont.)

CIN, COURSE TITLE: E-050-0410, E-6 Fleet Replacement Aircrew Flight Engineer Category I Pipeline

COURSE LENGTH: 242 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU		14		13		14		14		13

Note: Contractor schedules courses for 20 Category I Flight Engineers per year.

CIN, COURSE TITLE: E-050-0411, E-6 Fleet Replacement Aircrew Flight Engineer Category III Pipeline

COURSE LENGTH: 53 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU		5		5		5		5		5

Note: Contractor schedules courses for 5 Category III Flight Engineers per year.

CIN, COURSE TITLE: E-050-0413, E-6B Fleet Replacement Aircrew Communications Operator Category I Pipeline

COURSE LENGTH: 163 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU		20		13		12		13		12

CIN, COURSE TITLE: E-050-04XX, E-6B Fleet Replacement Aircrew Communications Operator Category III Pipeline

Note: This Category III Pipeline Course will not be initialized until FY03

COURSE LENGTH: 35 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0% BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU		0.0		6.0		7.0		6.0		7.0

Element II.B.1. **Annual Training Input Requirements** (cont.)

CIN, COURSE TITLE: E-050-0412, E-6B Fleet Replacement Aircrew Reel Operator Category I Pipeline

COURSE LENGTH: 119 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU		19		13		12		13		12

CIN, COURSE TITLE: E-050-0425, E-6B Fleet Replacement Aircrew Reel Operator Category III Pipeline

Note: This Category III Pipeline Course will not be initialized until FY 03

COURSE LENGTH: 22 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0% BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU		00		6.0		7.0		6.0		7.0

CIN, COURSE TITLE: E-050-0414, E-6B Fleet Replacement Aircrew Inflight Technician Category I Pipeline

COURSE LENGTH: 267 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VQ-7	NAVY	ACDU		28		19		18		19		18

CIN, COURSE TITLE: E-050-0421, E-6B Fleet Replacement Aircrew Inflight Technician Category III Pipeline

Note: This Category III Pipeline Course will not be initialized until FY 03

COURSE LENGTH: 36 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0% BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD 108	NAVY	ACDU		00		9.0		10.0		9.0		10.0

Element II.B.1. **Annual Training Input Requirements** (cont.)

CIN, COURSE TITLE: E-602-0466, E-6 Environmental Systems Organizational Maintenance

COURSE LENGTH: 31 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD 1080	NAVY	ACDU		13		13		13		13		13

CIN, COURSE TITLE: E-102-6145, E-6B Avionics Systems (Initial) Organizational Maintenance Technician

COURSE LENGTH: 114 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD 1080	NAVY	ACDU		15		14		14		15		14

CIN, COURSE TITLE: E-102-6144, E-6B Avionics Systems (Career) Organizational Maintenance

COURSE LENGTH: 56 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD	NAVY	ACDU		9		10		9		9		10

1080

CIN, COURSE TITLE: E-602-1952, E-6 Electrical and Instrument Systems (Initial) Organizational Maintenance

COURSE LENGTH: 41 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD	NAVY	ACDU		17		16		16		17		16
1080												

Element II.B.1. **Annual Training Input Requirements** (cont.)

CIN, COURSE TITLE: E-602-0452, E-6 Electrical and Instrument Systems (Career) Organizational Maintenance

COURSE LENGTH: 28 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD	NAVY	ACDU		8		9		9		8		9
1080												

CIN, COURSE TITLE: E-601-1911, E-6 Power Plant & Related Systems (Initial) Organization Maintenance

COURSE LENGTH: 35 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD	NAVY	ACDU		13		13		13		13		13
1080												

CIN, COURSE TITLE: E-601-0415, E-6 Power Plant & Related Systems (Career) Organization Maintenance

COURSE LENGTH: 28 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

NAMTGD 1080	NAVY	ACDU		8		8		8		8		8

CIN, COURSE TITLE: E-602-1981, E-6 Airframe & Hydraulic Systems (Initial) Organization Maintenance

COURSE LENGTH: 32 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD 1080	NAVY	ACDU		22		22		22		22		22

Element II.B.1. **Annual Training Input Requirements** (cont.)

CIN, COURSE TITLE: E-603-0470, E-6 Airframe & Hydraulic Systems (Career) Organization Maintenance

COURSE LENGTH: 35 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 021		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD 1080	NAVY	ACDU		12		11		12		12		11

CIN, COURSE TITLE: E-102-6143, E-6 Mission Avionics System Intermediate Maintenance

COURSE LENGTH: 103 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0

TRAINING		ACDU-TAR	CFY 02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTGD 1080	NAVY	ACDU		3		2		2		3		2

CIN, COURSE TITLE: EC-2D-3504. E-6B Airborne Communications Officer

COURSE LENGTH 12 days SEA TOUR LENGTH: 3 years

ATTRITION FACTOR: 0 % BACKOUT FACTOR: 0%

TRAINING		ACDU-TAR	CFY02		FY 03		FY 04		FY 05		FY 06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

NAMTGD	NAVY	ACDU	12	12	12	12	12

PART III - TRAINING REQUIREMENTS

The following NTSP elements are not required or impacted by this revision and are not included:

III.A.2.c. Unique Courses

PART lll Training Requirements

III.A.1. Initial Training Requirements. NAMTRAGRUDET 1080 Tinker will be quota control for all initial maintenance training courses. 12 students per class. The actual number of students attending will be dependent on manning levels and operational commitments. VQ-7 will be quota control for all initial operational training courses.

COURSE TITLE**: ADWS/MMRT Initial Maintenance Training**

E-6 Automatic Data Processing (ADP), Demand Assigned Multiple Access (DAMA), and Common Avionics Flight Deck Communications Capabilities with Weight and Space Savings (ADWS)

E-6 Modified Miniature Receive Terminal (MMRT)

COURSE DEVELOPER: Rockwell Collins

INSTRUCTOR: Rockwell Collins

COURSE LENGTH: By Rating	AT	3 weeks		
	IT and ACO	1 week		
	AME and FE	1 day	ECS ADWS changes	
	RO	1 day	DTWA ADWS changes	
LOCATION, UIC	Students		Course dates	Activity Destination
NAMTRAGRU DET 1080/47373	ADWS/MMRT Instructors		9/3/02-9/24/02	NAMTG/VQ-7
	ECS ADWS changes		9/23/02	NAMTG/VQ-7
	DTWA ADWS changes		9/23/02	NAMTG/VQ-7
NAMTRAGRU DET 1080/47373	ADWS/MMRT Cadre #1		12/04/02-12/22/02	VQ-3
	ECS ADWS changes		12/18/02	VQ-3
	DTWA ADWS changes		12/18/02	VQ-3
NAMTRAGRU DET 1080/47373	ADWS/MMRT Cadre #2		4/2/02-4/20/03	VQ-3
	ECS ADWS changes		4/16/02	VQ-3
	DTWA ADWS changes		4/16/02	VQ-3
NAMTRAGRU DET 1080/47373	ADWS/MMRT Cadre #3		6/4/03-6/22/03	VQ-3
	ECS ADWS changes		6/18/03	VQ-3
	DTWA ADWS changes		6/18/03	VQ-3
NAMTRAGRU DET 1080/47373	ADWS/MMRT Cadre #4		7/30/03-8/17/03	VQ-3
NAMTRAGRU DET 1080/47373	ADWS/MMRT Cadre #5		10/1/03-10/19/03	VQ-3
NAMTRAGRU DET 1080/47373	ADWS/MMRT Cadre #6		11/26/03-12/14/03	VQ-3
NAMTRAGRU DET 1080/47373	ADWS/MMRT Cadre #1		3/17/04-4/4/04	VQ-4
	ECS ADWS changes		3/31/04	VQ-4

	DTWA ADWS changes	3/31/04	VQ-4

III.A.1. Initial Training Requirements (cont.)

NAMTRAGRU DET	ADWS/MMRT Cadre #2	5/12/04-5/30/04	VQ-4
1080/47373	ECS ADWS changes	5/26/04	VQ-4
	DTWA ADWS changes	5/26/04	VQ-4
NAMTRAGRU DET	ADWS/MMRT Cadre #3	6/30/04-7/18/04	VQ-4
1080/47373	ECS ADWS changes	7/14/04	VQ-4
	DTWA ADWS changes	7/14/04	VQ-4
NAMTRAGRU DET	ADWS/MMRT Cadre #4	8/18/04-9/5/04	VQ-4
1080/47373			
NAMTRAGRU DET	ADWS/MMRT Cadre #5	10/6/04-10/24/04	VQ-4
1080/47373			
NAMTRAGRU DET	ADWS/MMRT Cadre #6	11/24/04-12/12/04	VQ-4
1080/47373			

NOTE: Course dates are based upon proposed scheduled aircraft deliveries.

COURSE TITLE**: MDS Initial Maintenance Training**

Multifunction Display System (MDS)

COURSE DEVELOPER: Boeing

INSTRUCTOR: Flight Safety Boeing to provide instruction and course materials to selected personnel within VQ community. These select personnel will then provide remaining initial instruction to VQ-7 and Fleet personnel through On the Job Training until NAMTRAGRU 1080 develops follow on training curriculums.

COURSE LENGTH: By Rate	AT	2 weeks MDS	
	AE, AD, AM, AME and FE (Others)	1 week MDS	
LOCATION, UIC	Students	Course dates	Activity Destination
NAMTRAGRU DET	MDS Select personnel #1	TBD	VQ-7 and VQ-3
1080/47373	MDS Select personnel #1 Others)	TBD	VQ-7 and VQ-3
NAMTRAGRU DET	MDS Select personnel #2	TBD	VQ-7 and VQ-3
1080/47373	MDS Select personnel #2 (Others)	TBD	VQ-7 and VQ-3
NAMTRAGRU DET	MDS NAMTRAGRU Instructors	TBD	VQ-3
1080/47373	MDS NAMTRAGRU Instructors (Others)	TBD	VQ-3

III.A.1. Initial Training Requirements (cont.)

COURSE TITLE**: Pilot/Flight Engineer Multifunction Display System/Automatic Data Processing, Demand Assigned Multiple Access, and Common Avionics Flight Deck Communications Capabilities with Weight and Space Savings (MDS/ADWS) Initial Operational Training**

COURSE DEVELOPER: Boeing

INSTRUCTOR: L-3 Communications

COURSE LENGTH: 2 weeks

LOCATION, UIC	Students	Course dates	Activity Destination
VQ-7/47372	Pilot/FE Cadre #1	TBD	VQ-3
VQ-7/47372	Pilot/FE Cadre #2	TBD	VQ-3
VQ-7/47372	Pilot/FE Cadre #3	TBD	VQ-3
VQ-7/47372	Pilot/FE Cadre #4	TBD	VQ-3
VQ-7/47372	Pilot/FE Cadre #5	TBD	VQ-3
VQ-7/47372	Pilot/FE Cadre #6	TBD	VQ-3
VQ-7/47372	Pilot/FE Cadre #1	TBD	VQ-4
VQ-7/47372	Pilot/FE Cadre #2	TBD	VQ-4

COURSE TITLE**: : Pilot/Flight Engineer Multifunction Display System/Automatic Data Processing, Demand Assigned Multiple Access, and Common Avionics Flight Deck Communications Capabilities with Weight and Space Savings (MDS/ADWS) Initial Operational Training** (cont.)

VQ-7/47372	Pilot/FE Cadre #3	TBD	VQ-4
VQ-7/47372	Pilot/FE Cadre #4	TBD	VQ-4
VQ-7/47372	Pilot/FE Cadre #5	TBD	VQ-4
VQ-7/47372	Pilot/FE Cadre #6	TBD	VQ-4

Each Cadre Class will be comprised of two (2) Cockpit Crews

III.A.2. Follow-on Training

Element III.A.2.a. **Existing Courses**

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-2B-0407, E-6 Fleet Replacement Pilot Category I Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
23		23		23		23		23		ATIR
23		23		23		23		23		Output
6.9		6.9		6.9		6.9		6.9		AOB
6.9		6.9		6.9		6.9		6.9		Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-2B-0406, E-6 Fleet Replacement Pilot Category III Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
05		05		05		05		05		ATIR
05		05		05		05		05		Output
0.7		0.7		0.7		0.7		0.7		AOB
0.7		0.7		0.7		0.7		0.7		Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-2D-0407, E-6 Fleet Replacement Naval Flight Officer Category I Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
14		13		14		14		13		ATIR
14		13		14		14		13		Output
2.1		1.9		2.1		2.1		1.9		AOB
2.1		1.9		2.1		2.1		1.9		Chargeable

III.A.2. a. Existing Courses (cont.)

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-2D-0404, E-6 Fleet Replacement Naval Flight Officer Category III Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
05		05		05		05		05		ATIR
05		05		05		05		05		Output
0.7		0.7		0.7		0.7		0.7		AOB
0.7		0.7		0.7		0.7		0.7		Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-050-0410, E-6 Fleet Replacement Aircrew Flight Engineer Category I Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	14		13		14		14		13	ATIR
	14		13		14		14		13	Output
	9.5		8.8		9.5		9.5		8.8	AOB
	9.5		8.8		9.5		9.5		8.8	Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-050-0411, E-6 Fleet Replacement Aircrew Flight Engineer Category III Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	05		05		05		05		05	ATIR
	05		05		05		05		05	Output
	0.7		0.7		0.7		0.7		0.7	AOB
	0.7		0.7		0.7		0.7		0.7	Chargeable

III.A.2. a. Existing Courses (cont.)

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-050-0413, E-6B Fleet Replacement Aircrew Communications Operator Category I Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	20		13		12		13		12	ATIR
	20		13		12		13		12	Output
	8.9		5.8		5.3		5.8		5.3	AOB
	8.9		5.8		5.3		5.8		5.3	Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

Note: This Category III Pipeline course will not be initialized until FY 03.

CIN, COURSE TITLE: E-050-04XX, E-6B Fleet Replacement Aircrew Communications Operator Category III Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0.0		6.0		7.0		6.0		7.0	ATIR
	0.0		6.0		7.0		6.0		7.0	Output
	0.0		2.7		3.1		2.7		3.1	AOB
	0.0		2.7		3.1		2.7		3.1	Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-050-0412, E-6B Fleet Replacement Aircrew Reel Operator Category I Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	19		13		12		13		12	ATIR
	19		13		12		13		12	Output
	5.4		3.6		3.3		3.6	`	3.3	AOB
	5.4		3.6		3.3		3.6		3.3	Chargeable

III.A.2.a Existing Courses (cont.)

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

Note: This Category III Pipeline course will not be initialized until FY 03.

CIN, COURSE TITLE: E-050-0425, E-6B Fleet Replacement Aircrew Reel Operator Category III Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0.0		6.0		7.0		6.0		7.0	ATIR
	0.0		6.0		7.0		6.0		7.0	Output
	0.0		1.7		1.9		1.7		1.9	AOB
	0.0		1.7		1.9		1.7		1.9	Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-050-0414, E-6B Fleet Replacement Aircrew Inflight Technician Category I Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	28		19		18		19		18	ATIR
	28		19		18		19		18	Output
	17.4		11.7		11.1		11.7		11.1	AOB
	17.4		11.7		11.1		11.7		11.1	Chargeable

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker AFB, 47372

Note: This Category III Pipeline course will not be initialized until FY 03.

CIN, COURSE TITLE: E-050-0421, Fleet Replacement Aircrew Inflight Technician Category III Pipeline

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0.0		9.0		10.0		9.0		10.0	ATIR

0.0	9.0	10.0	9.0	10.0	Output
0.0	5.6	6.2	5.6	6.2	AOB
0.0	5.6	6.2	5.6	6.2	Chargeable

III.A.2. a. Existing Courses (cont.)

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47372

CIN, COURSE TITLE: E-602-0466, E-6 Environmental Systems Organizational Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	13		13		13		13		13	ATIR
	13		13		13		13		13	Output
	1.2		1.2		1.2		1.2		1.2	AOB
	1.2		1.2		1.2		1.2		1.2	Chargeable

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-102-6145, E-6B Avionic Systems (Initial) Organizational Maintenance Technician

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	15		14		14		15		14	ATIR
	15		14		14		15		14	Output
	4.8		4.5		4.5		4.8		4.5	AOB
	4.8		4.5		4.5		4.8		4.5	Chargeable

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-102-6144, E-6B Avionics Systems (Career) Organizational Maintenance Technician

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	09		10		09		09		10	ATIR
	09		10		09		09		10	Output
	1.5		1.6		1.5		1.5		1.6	AOB
	1.5		1.6		1.5		1.5		1.6	Chargeable

III.A.2. a. Existing Courses (cont.)

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-602-1952, E-6 Electrical and Instrument Systems (Initial) Organizational Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	17		16		16		17		16	ATIR
	17		16		16		17		16	Output
	2.0		1.9		1.9		2.0		1.9	AOB
	2.0		1.9		1.9		2.0		1.9	Chargeable

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-602-0452, E-6 Electrical and Instrument Systems (Career) Organizational Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	08		09		09		08		09	ATIR
	08		09		09		08		09	Output
	0.7		0.8		0.8		0.7		0.8	AOB
	0.7		0.8		0.8		0.7		0.8	Chargeable

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-601-1911, E-6 Power Plant & Related Systems (Initial) Organizational Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	13		13		13		13		13	ATIR
	13		13		13		13		13	Output
	1.3		1.3		1.3		1.3		1.3	AOB
	1.3		1.3		1.3		1.3		1.3	Chargeable

III.A.2. a. Existing Courses (cont.)

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-601-0415, E-6 Power Plant & Related Systems (Career) Organizational Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	08		08		08		08		08	ATIR
	08		08		08		08		08	Output
	0.7		0.7		0.7		0.7		0.7	AOB
	0.7		0.7		0.7		0.7		0.7	Chargeable

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-602-1981, E-6 Airframe & Hydraulic Systems (Initial) Organizational Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	22		22		22		22		22	ATIR
	22		22		22		22		22	Output
	2.1		2.1		2.1		2.1		2.1	AOB
	2.1		2.1		2.1		2.1		2.1	Chargeable

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-603-0470, E-6 Airframe & Hydraulic Systems (Career) Organizational Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	12		11		12		12		11	ATIR
	12		11		12		12		11	Output
	1.2		1.1		1.2		1.2		1.1	AOB
	1.2		1.1		1.2		1.2		1.1	Chargeable

III.A.2. a. Existing Courses (cont.)

TRAINING ACTIVITY: Naval Air Maintenance Training Group Detachment 1080

LOCATION, UIC: Tinker AFB, 47373

CIN, COURSE TITLE: E-102-6143, E-6 Mission Avionics Systems Intermediate Maintenance

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	03		02		02		03		02	ATIR
	03		02		02		03		02	Output
	0.9		0.6		0.6		0.9		0.6	AOB
	0.9		0.6		0.6		0.9		0.6	Chargeable

CIN, COURSE TITLE: C-2D-3504, E-6B Airborne Communications Officer

SOURCE: USN STUDENT CATEGORY: ACDU

CFY 02		FY 03		FY 04		FY 05		FY 06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
12		12		12		12		12		ATIR
12		12		12		12		12		Output
1		1		1		1		1		AOB
.6		.6		.6		.6		.6		Chargeable

III.A.2.b Planned Courses

Title	**E-6B Fleet Replacement Aircrew Communications Operator Category III Pipeline**
CIN	E-050-04XX
Model Manager	VQ-7
Description	This course is used to provide refresher training to previously qualified E-6 Communications Operators
Location	VQ-7 Tinker Air Force Base Oklahoma City, OK.
Length	35 days
RFT date	Available in Fiscal Year 2003
Skill identifier	IT 8228
TTE/TD	° E-6B Mission Avionics Systems Maintenance Trainer ° E-6B Weapons System Trainer
Prerequisite	° B-322-0040 Refresher Aerospace Physiology Training (RP2) ° B-9E-1226 Refresher Water Survival Training Program (R3) ° Pay Grade E-4-E-7 ° Rate IT ° Security Clearance –Secret

Title	**E-6B Fleet Replacement Aircrew Reel Operator Category III Pipeline**
CIN	E-050-0425
Model Manager	VQ-7
Description	This course is used to provide refresher training to previously qualified E-6 Fleet Replacement Aircrew Reel Operators
Location	VQ-7 Tinker Air Force Base Oklahoma City, OK.
Length	22 days
RFT date	Available in Fiscal Year 2003
Skill identifier	AE and AM - 8227
TTE/TD	° E-6 High Power Transmit Set Dual Trailing Wire Antenna Maintenance Trainer ° E-6B Weapons System Trainer
Prerequisite	° B-322-0040 Refresher Aerospace Physiology Training (RP2) ° B-9E-1226 Refresher Water Survival Training Program (R3) ° E-050-0412 E-6B Fleet Replacement Aircrew Reel Operator Category I Pipeline ° Rate AE AM ° Security Clearance –Secret

III.A.2.b Planned Courses

Title	**E-6B Fleet Replacement Aircrew In-flight Technician Category III Pipeline**
CIN	E-050-0421
Model Manager	VQ-7
Description	This course is used to provide refresher training to previously qualified E-6 Fleet Replacement Aircrew Inflight Technicians
Location	VQ-7 Tinker Air Force Base Oklahoma City, OK.
Length	36 days
RFT date	Available in Fiscal Year 2003
Skill identifier	AT 8229
TTE/TD	° E-6B Mission Avionics Systems Maintenance Trainer ° E-6B Weapons System Trainer ° E-6 High Power Transmit Set Slid State Power Amplifier/Coupler Maintenance Trainer ° Integrated Avionics Trainer
Prerequisite	° B-322-0040 Refresher Aerospace Physiology Training (RP2) ° B-9E-1226 Refresher Water Survival Training Program (R3) ° E-050-0414 E-6B Fleet replacement Aircrew In-flight Technician Category I Pipeline ° Rate AT ° Security Clearance –Top Secret

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

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

IV.C. Facility Requirements

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

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

Section **IV.A. TRAINING HARDWARE**

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

Technical Training Equipment: E-6 In-Flight Trainer (IFT) Aircraft

DESCRIPTION OF DEVICE: Two E-6 IFT aircraft (commercial Boeing 737-200 aircraft) serve the purpose of providing VQ-7 with a suitable platform to teach student pilots flying skills in large transport aircraft. These aircraft supplement and permit accomplishment of syllabus training events not possible in E-6 Operational Flight Trainers (OFT). Rationale for selecting the B-737 as a surrogate E-6 aircraft include: E-6 aircraft are not assigned (or available) to conduct VQ-7's training mission, the VQ-7 training mission doesn't require the IFT platform to have mission avionics systems to teach flying skills, and airworthy Boeing 707 aircraft are no longer available. The B-737 has been determined by Naval Air Warfare Center Aircraft Division to be a suitable E-6 surrogate aircraft for VQ-7's mission.

MANUFACTURER: Boeing Commercial Airplanes Group

CONTRACT NUMBER: F34601-01-C-0191; In-Flight Trainer Lease, L3 Communications, Inc.

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VQ-7 Tinker AFB	2			On-board	E-2B-0401, as part of Track E-2B-0407 E-2B-0405, as part of Track E-2B-0406 E-2B-0404

Note: B-737 aircraft provided are on contract to AAR, Oklahoma, in-turn L3 Communications, in-turn US Air Force on behalf of the US Navy. Lease runs until 30 Sep 01 with one-year options through 30 Sep 04. Leased aircraft are to be replaced in FY-04 with Navy leased B-737-700 aircraft. These aircraft are proposed to have RFT dates of Nov. 03 and Dec. of 03. New aircraft will support Multi-Function Display System modified E-6B training requirements and Chairman Joint Chiefs of Staff lift tasking.

IV.A.2. Training Devices

DEVICE: 2F144, E-6 Operational Flight Trainer (OFT)

DESCRIPTION OF DEVICE: The OFT provides a simulated E-6 cockpit with pilot, copilot and flight engineer positions on a motion base with a visual reference system. There are provisions for two instructor stations. Provides training in takeoffs, flight maneuvers, navigation, communications, emergency procedures and landings.

MANUFACTURER: Reflectone Training Systems (OFT 1). CPT modification to OFT Hughes Training Incorporated, Arlington, Texas.

CONTRACT NUMBER: N61339-86-C-0145 (OFT 1). F42630-93-C-0635 (CPT to OFT modification).

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VQ-7 Tinker AFB 47372	2			on board	E-2B-0401, as part of track E-2B-0407 E-2B-0405, as part of track E-2B-0406 E-2D-0401, as part of track E-2D-0407 E-2D-0403, as part of track E-2D-0404 E-050-0404 and E-050-0401, as part of track E-050-0410 E-050-0405, as part of track E-050-0411

Note: Simulators are contractor operated and maintained.

IV.A.2. Training Devices (cont.)

DEVICE: 2A80, E-6 Navigator Part Task Trainer

DESCRIPTION OF DEVICE: This trainer provides student navigators with the opportunity to execute a variety of complex procedures under simulated conditions on equipment closely resembling the equipment found in the aircraft. It consists of a full scale replica of the E-6 navigator crew station. Contains an Instructor/Operator Station (IOS) which provides the computing resources needed to create and execute realistic flight scenarios, simulate mission situations (e.g., weather, air refueling), insert faults and monitor student performance.

MANUFACTURER: EER Systems Inc under subcontract to OCI.

CONTRACT NUMBER: N00406-95-D-5062

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VQ-7 Tinker AFB 47372	1		3/1/98	on-board	E-2D-0401, as part of track E-2D-0407 E-2D-0403, as part of track E-2D-0404

Note: Simulators are contractor operated and maintained

IV.A.2. Training Devices (cont.,)

DEVICE: 2A81, E-6 Flight Management Computer System (FMCS) Part Task Trainer

DESCRIPTION OF DEVICE: Provides pilots and navigators with hands-on interface with the Smiths Industries, FMCS Central Display Unit (CDU). The trainer has the capability of simulating movement along controllable flight paths in real time or accelerated time. The simulated CDU is the same physical size as the aircraft CDU and the keypad and face plate bezel are the same as the aircraft to provide the correct tactile feel.

MANUFACTURER: EER Systems Inc under subcontract to OCI.

CONTRACT NUMBER: N00406-95-D-5062

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VQ-7 Tinker AFB 47372	1		4/1/98	on-board	E-2B-0401, as part of track E-2B-0407 E-2B-0405, as part of track E-2B-0406 E-2D-0401, as part of track E-2D-0407 E-2D-0403, as part of track E-2D-0404

Note: Simulators are contractor operated and maintained.

IV.A.2. Training Devices (cont.)

DEVICE: E-6B Mission Avionics Systems Trainer.

DESCRIPTION OF DEVICE: This trainer replicates the mission communications equipment installed in the E-6B aircraft. It will provide organizational level maintenance training for the In-flight Technician and Avionics Maintenance Technician. It also provides operator training for the In-flight Technician and the Communications Operator.

MANUFACTURER: Raytheon E-Systems (formerly Chrysler Technologies Airborne Systems)

CONTRACT NUMBER: N00019-94-C-0224

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	2			on-board	C-2D-3504, E-6B Airborne Communications Officer Course C-102-4517, as part of tracks E-050-0414 and E-102-6145 C-102-4516, as part of tracks E-050-0421 and E-102-6144 C-102-4514, as part of track E-050-0413

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Power Plants & Related Systems Trainer

DESCRIPTION OF DEVICE: This trainer consists of an open frame housing the inboard wing leading edge, struts, engine, and a functional thrust reverser. The trainer consists of electrical and mechanical components that are replicated by the use of 3 dimensional components located in the same relative position as in the aircraft. It provides the capability to demonstrate normal and degraded operation and to perform specified organizational level testing and trouble shooting as outlined in the Manual of Operation and Maintenance Instruction (MOMI). Tasks performed on the trainer shall be confined to engine removal and installation, testing, troubleshooting, and adjustment. Indications and cues during operations, testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-601-3504, as part of track E-601-0415 C-601-3500, as part of track E-601-1911 C-602-3507, as part of track E-602-1952 C-602-3509, as part of track E-602-0452 C-602-3510, as part of track E-602-0466 C-603-3501, as part of track E-602-1981 C-603-3503, as part of track E-603-0470 C-050-3502, as part of track E-050-0410

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Flight Controls Trainer

DESCRIPTION OF DEVICE: This trainer consists of four interconnected maintenance trainer sections replicating the E-6 Flight Controls Systems. These systems are comprised of electrical and mechanical components which, are replicated by the use of 3 dimensional, components located in the same relative position as in the aircraft. The trainer provides the capability of demonstrating normal and degraded operation and of performing specified organizational level testing and troubleshooting as outlined in the MOMI. Tasks performed on the trainer shall be confined to rigging, testing, troubleshooting, and adjustment. Indications and cues during operations, testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-601-3504, as part of track E-601-0415 C-601-3500, as part of track E-601-1911 C-602-3509, as part of track E-602-0452 C-602-3507, as part of track E-602-1952 C-602-3510, as part of track E-602-0466 C-603-3501, as part of track E-602-1981 C-603-3503, as part of track E-603-0470 C-102-4517, as part of track E-102-6145 C-102-4516, as part of track E-102-6144 C-050-3502, as part of track E-050-0410

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Electrical System Trainer

DESCRIPTION OF DEVICE: This trainer consists of two maintenance trainer sections of the animated/simulation type classification. It depicts those components of the aircraft that relate to the operation and maintenance of the E-6 electrical systems. It provides the capability to demonstrate normal and degraded operations, and specified organizational level testing and troubleshooting procedures/fault isolation as outlined in the MOMI. Tasks performed on the trainer are confined to testing and troubleshooting. Indications and cues during operations, testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-602-3509, as part of track E-602-0452 C-602-3507, as part of track E-602-1952

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Hydraulic System Trainer

DESCRIPTION OF DEVICE: This trainer consists of two maintenance trainer sections of the animated/simulation type classification. It provides the capability to demonstrate normal and degraded operations, and specified organizational level testing and troubleshooting procedures/fault isolation as outlined in the MOMI. Tasks performed on the trainer shall be confined to testing and troubleshooting. Indications and cues during operations testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-602-3509, as part of track E-602-0452 C-602-3507, as part of track E-602-1952 C-603-3503, as part of track E-603-0470 C-603-3501, as part of track E-602-1981 C-050-3502, as part of track E-050-0410

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Fuel System Trainer

DESCRIPTION OF DEVICE: This trainer consists of three maintenance trainer sections of the animated/simulation type classification, and one artwork panel. It depicts those components of the aircraft that relates to the operation and maintenance of the E-6 fuel system. It provides the capability to demonstrate normal and degraded operations, and specified organizational level testing and troubleshooting procedures/fault isolation as outlined in the MOMI. Tasks performed on the trainer shall be confined to testing and troubleshooting. Indications and cues during operations, testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-601-3504, as part of track E-601-0415
					C-601-3500, as part of track E-601-1911
					C-050-3502, as part of track E-050-0410
					C-603-3503, as part of track E-603-0470
					C-603-3501, as part of track E-602-1981
					C-602-3509, as part of track E-602-0452
					C-602-3507, as part of track E-602-1952

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Fuel System Trainer Open Frame, Wing Tank No. 3 and Center Wing Tank

DESCRIPTION OF DEVICE: These open frame trainers are inoperative replicas of those portions of the aircraft that relates to the operation and maintenance of systems located in the E-6 wing tank number 3 and the center wing tank. The trainers replicate aircraft systems size and location and provide the capability to demonstrate normal organizational level removal and replacement procedures as outlined in the MOMI. Tasks performed on the trainer shall be confined to removal, replacement, repair, and adjustment. They are **not** used to demonstrate operation, fault isolation or testing procedures.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on Board	C-601-3504, as part of track E-601-1911
					C-601-3500, as part of track E-601-1911
					C-050-3502, as part of track E-050-0410
					C-603-3503, as part of track E-603-0470
					C-603-3501, as part of track E-602-1981
					C-602-3509, as part of track E-602-0452
					C-602-3507, as part of track E-602-1952

IV.A.2. Training Devices (cont.)

DEVICE: E-6 AFT Lower Lobe Trainer

DESCRIPTION OF DEVICE: This trainer consists of an open frame maintenance trainer replicating the E-6 Aft Lower Lobe. Students are presented with realistic removal, replacement, and rigging situations. The response characteristics of the trainer represents,aircraft systems behavior to the degree required for maximum training effectiveness. Tasks performed on the trainer shall be confined to adjustment, removal, replacement, and rigging.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-602-3509, as part of track E-602-0452 C-602-3507, as part of track E-602-1952 C-603-3503, as part of track E-603-0470 C-603-3501, as part of track E-602-1981 C-602-3510, as part of track E-602-0466 C-601-3504, as part of track E-601-0415 C-601-3500, as part of track E-601-1911 C-601-3504, as part of track E-601-0415

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Environmental Control System Trainer

DESCRIPTION OF DEVICE: This trainer consists of three maintenance trainer sections. One section is of the open frame type classification and two sections are of the animated simulation type classification. The trainer depicts the components of the aircraft that relate to the operation and maintenance of the E-6 Environmental Control System. It provides the capability to demonstrate normal and degraded operations, and specified organizational level testing and troubleshooting procedures/fault isolation as outlined in the MOMI. Tasks performed on the trainer shall be confined to testing and troubleshooting. Indications and cues during operations, testing, and troubleshooting are the same as the aircraft. The open frame trainer replicates aircraft systems size and location. The trainer has the capability to demonstrate normal organizational level removal and replacement procedures as outlined in the MOMI. Tasks performed on the trainer shall be confined to removal, replacement, and adjustment.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-602-3510, as part of track E-602-0466 C-050-3502, as part of track E-050-0410 C-602-3509, as part of track E-602-0452 C-602-3507, as part of track E-602-1952

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Landing Gear System Trainer

DESCRIPTION OF DEVICE: This trainer consists of two interconnected maintenance trainer sections replicating the E-6 landing gear system and the instructor's operating station. The trainer provides the capability to demonstrate normal and degraded operation and to perform specified organizational level testing and troubleshooting as outlined in the MOMI. Tasks performed on the trainer shall be confined to testing, troubleshooting, and adjustment. Indications and cues during operations, testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-602-3507, as part of track E-602-1952
					C-602-3509, as part of track E-602-0452
					C-603-3501, as part of track E-602-1981
					C-603-3503, as part of track E-603-0470
					C-050-3502, as part of track E-050-0410
					C-602-3510, as part of track E-602-0466
					C-601-3504, as part of track E-601-0415
					C-601-3500, as part of track E-601-1911

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Forward Entry Door/Aerial Refueling Receptacle

DESCRIPTION OF DEVICE: This trainer is a replica of those portions of the aircraft that relate to the operation and maintenance of the aerial refueling receptacle, and forward entry door. The aerial refueling receptacle and forward entry door comprise electrical, hydraulic, and mechanical components which are duplicated by the use of actual aircraft components, most of which are located in the same relative positions as in the aircraft. The trainer provides the capability to demonstrate normal operation and to perform specified organizational level testing and trouble shooting as outlined in the MOMI. Tasks performed on the trainer are confined to testing, trouble-shooting, and adjustment. Indications and cues during operations, testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-602-3509, as part of track E-602-0452 C-602-3507, as part of track E-602-1952 C-603-3503, as part of track E-603-0407 C-603-3501, as part of track E-602-1981 C-601-3504, as part of track E-601-0415 C-601-3500, as part of track E-601-1911

IV.A.2. Training Devices (cont.)

DEVICE: E-6 Auxiliary Power Unit Trainer

DESCRIPTION OF DEVICE: This trainer consists of two maintenance trainer sections. One section is an open frame hardware type panel and the other section is an animated/simulation type. The animated/simulation section provides the capability to demonstrate normal and degraded operations, and specified organizational level testing and troubleshooting procedures/fault isolation as outlined in the MOMI. Tasks performed on the trainer shall be confined to testing and troubleshooting. Indications and cues during operations, testing, and troubleshooting shall be the same as in the aircraft. The open frame trainer shall replicate aircraft systems size, location and replacement difficulty. Tasks performed on the trainer shall be confined to adjustment, removal, replacement, and rigging.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-601-3500, as part of track E-601-1911
					C-601-3504, as part of track E-601-0415
					C-602-3510, as part of track E-602-0466
					C-050-3502, as part of track E-050-0410
					C-603-3503, as part of track E-603-0407
					C-603-3501, as part of track E-602-1981
					C-602-3509, as part of track E-602-0452
					C-602-3507, as part of track E-602-1952

IV.A.2. Training Devices (cont.)

DEVICE: Simulation Control Console

DESCRIPTION OF DEVICE: The Simulation Control Console (SCC) consists of a single, basic training unit of the computerized console type. The console shall be designed to connect to interchangeable training panels of the E-6 NAMTRAGRU DET 1080 suite in order to accomplish the following:

- Provide dynamic simulated displays of the mechanical, electronic or other physical actions and interactions of the systems and subsystems represented by the individual trainer panels.
- Provide logic and power to individual trainer panels to simulate system normal operating characteristics and conditions as well as predetermined malfunction aspects of the systems and subsystems represented.
- Provide a permanent record of student actions.
- Provide electrical power supply control, and monitoring to individual panels.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1 per panel trainer			on board	

IV.A.2. Training Devices (cont.)

DEVICE: Integrated Avionics Trainer

DESCRIPTION OF DEVICE: This trainer consists of five interconnected maintenance trainer panels replicating the E-6 Flight Deck Instruments and Flight Deck Avionics systems. The flight instruments and avionics systems comprise electrical and mechanical components that shall be replicated by the use of 3 dimensional components located in the same relative position as in the aircraft. The trainer shall provide the capability to demonstrate normal and degraded operation and to perform specified organizational level testing and troubleshooting as outlined in the MOMI. Tasks performed on the trainer shall be confined to testing, troubleshooting, and adjustment. Indications and cues during operations, testing, and troubleshooting are the same as in the aircraft.

MANUFACTURER: Boeing Aerospace Company

CONTRACT NUMBER: N00019-83-C-0176

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-602-3509, as part of track E-602-0452 C-602-3507, as part of track E-602-1952 C-603-3503, as part of track E-603-0470 C-603-3501, as part of track E-602-1981 C-102-4517, as part of track E-102-6145 and E-050-0414 C-102-4516, as part of track E-102-6144 and E-050-0421 C-602-3510, as part of track E-602-0466 C-601-3504, as part of track E-601-0415 C-601-3500, as part of track E-601-1911

IV.A.2. Training Devices (cont.)

DEVICE: E-6B Mission Avionics Intermediate Maintenance Trainers

DESCRIPTION OF DEVICE: These trainers consist of common and peculiar GFE mounted in consoles and on wheels for mobility. The trainer consists of (1) Test Station Trainers 1 through 6 (2) Test Carts 1 through 4 (3) Two Facility Power Distribution Panels. The trainers are designed to present trainees with realistic intermediate level maintenance testing, operational checkout, and troubleshooting situations. The response characteristics of the trainers represent actual mobile maintenance behavior to the degree required for maximum training effectiveness.

MANUFACTURER: Rockwell International

CONTRACT NUMBER: N00019-82-C-0446

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-102-4506, as part of track E-102-6143

IV.A.2. Training Devices (cont.)

DEVICE: E-6 High Power Transmit Set (HPTS) Solid State Power Amplifier (SSPA)/Coupler Maintenance Trainer

DESCRIPTION OF DEVICE: This trainer consists of two trainer sections. One trainer section replicates the AN/USC-13(V) Solid State Power Amplifier/Coupler Group OG-187/ART-54 and the second trainer section is a Simulator Control Console (SCC). The SSPA maintenance trainer section consists of the components of an actual aircraft Solid State Power Amplifier/Coupler group OG-187/ART-54. All components shall be functional and operational, except that appropriate interlocks or other devices prohibit operation at high power output ratings. The SCC provides the required signal inputs from the DTWA or from the Receiver/Transmitter panel of the Communications Central required for operation or maintenance of the SSPA trainer. The SSPA Trainer is designed to allow trainees to be presented with realistic operational checkout and troubleshooting situations. The response characteristics of the trainer represent actual aircraft systems behavior to the degree required for maximum training effectiveness.

MANUFACTURER: Rockwell International

CONTRACT NUMBER: N00019-87-C-0116

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-102-4517, as part of track E-102-6145 and E-050-0414 C-102-4516, as part of track E-102-6144 and E-050-0421

IV.A.2. Training Devices (cont.)

DEVICE: E-6 High Power Transmit Set (HPTS) Dual Trailing Wire Antenna Maintenance Trainer

DESCRIPTION OF DEVICE: The DTWA (includes LTWA, STWA, and UTWA) Trainer consists of three maintenance trainer sections. Two trainer sections replicate the AN/USC-13 (V) Dual Trailing Wire Antenna (OE-456/ART-54) and the third is a Simulator Control Console. This trainer is designed to allow trainees to be presented with realistic operational checkout and troubleshooting situations. The response characteristics of the trainer shall represent actual aircraft systems behavior to the degree required for maximum training effectiveness. Tasks performed on the trainer shall be confined to testing and troubleshooting.

MANUFACTURER: Rockwell International

CONTRACT NUMBER: N00019-87-C-0116

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAMTGD 1080, Tinker AFB 47373	1			on board	C-102-4513, as part of track E-050-0412 E-050-0424, as part of track E-050-04xx

IV.A..2 Training Devices (cont.)

DEVICE: E-6B Weapons System Trainer (WST)

DESCRIPTION OF DEVICE: This trainer provides the capability for mission crew familiarization, operations and procedural practices. It allows the development and execution of operational scenarios while assessing individual responses and promoting crew interaction through simulated mission systems operations. This trainer provides the ability to demonstrate normal and degraded operations through instructor generated fault insertion and mission events.

MANUFACTURER: TBD

CONTRACT NUMBER:

TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	COURSES SUPPORTED
VQ-7 Tinker AFB 47372	1			E-050-0420 and E-050-0408 as part of track E-050-0413 E-050-0422 and E-050-0423 as part of track E-050-04XX E-050-0407 and E-050-0408 as part of track E-050-0412 E-050-0422 as part of track E-050-0425 E-050-0408 and E-050-0420 as part of track E-050-0414 E-050-0422 and E-050-0423 as part of track E-050-0421

NOTE: WST has been funded beginning in FY-04, delivery and ready for training dates will be determined during contract negotiations.

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. Training Services

COURSE/TYPE OF TRAINING	SCHOOL/ LOCATION/UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	BEGIN DATE
ADWS/MMRT initial Maintenance Training	NAMTGD 1080/47373 Tinker Air Force Base	2	48	7/15/02
MDS/ADWS/MMRT Initial Maintenance Training	NAMTGD 1080/47373 Tinker Air Force Base	2	60	1/06/03
Pilot/Flight Engineer MDS Initial Operational Training	VQ-7/47372 Tinker Air Force Base	2	48	1/27/03
MDS initial Maintenance Training	NAMTGD 1080/47373 Tinker Air Force Base	2	24	4/05/04

IV.B.2. Curricula Materials and Training Aids

TRAINING ACTIVITY:

LOCATION, UIC;

CIN, COURSE TITLE:

Note: The type of curricula material such as slides, disks and tape sets, instructor guides, student materials, guides and evaluations, visual aids, pre-faulted modules, and fault insertion devices required are contained in the Aviation Requirements List which are available to the training activities. All required curriculums and training aids for E-6 training have been delivered to the training activities.

IV.B.3. Technical Manuals

Note: Technical manual requirements are contained in the Aviation Requirements Lists that are available to the training activities. Technical manuals for the E-6A and E-6B have been delivered to the training activities. Electronic technical manuals with the exception of Wiring Diagrams have been phased in to accommodate the E-6B aircraft.

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: Information required by these elements for existing facilities are contained in contractor prepared, government approved Facility Requirement Documents.

IV.C FACILITY REQUIREMENTS (cont.)

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

CIN, COURSE TITLE: E-050-XXXX, Mission Crew Training

TRAINING ACTIVITY: VQ-7

LOCATION, UIC: Tinker Air Force Base, Ok./47372

REQUIRED RFT DATE: Prior to delivery of proposed WST

Operational training of the E-6B Mission Crew is now conducted by VQ-7 using a combination of classroom and simulator training using the Mission Avionics System Trainer (MAST) and associated classrooms owned and operated by NAMTRAGRU DET 1080. The layout of the MAST and its use of operational equipment provide a limited capability for Mission Crew familiarization, operation, and procedural practice. However, there is no capability for the development and execution of operational scenarios or insertion of and response to software faults or operational events.

VQ-7 has identified a requirement to appropriate a Weapons System Trainer to be utilized to train the mission crewmembers in their respective positions. This requirement stems from the Navy's acceptance of the ABNCP mission and the inability to provide on-the-job training while airborne. The expectation of the Battle Staff is that all E-6B mission crewmembers will be fully trained in their respective positions prior to mission crew assignment. Therefore this new E-6B aircraft mission has placed additional training requirements on the mission crew. In turn, greater training demands have been placed on both VQ-7 and NAMTRAGRU DET 1080 in the form of more courses and more students without any increase in facilities. VQ-7 has conceptualized the technical requirements for the specification, design and construction of this WST as the key training device. Funding for the WST will begin in FY-04.

Facility requirements to house the WST have been proposed by VQ-7 and identified in the Training System Alternatives Report for E-6B Mission Crew, 15 September 2000, prepared for NAVAIRSYSCOM PMA-205-2J. This 13,485 square foot facility includes space for the WST as well as sufficient classrooms to meet future academic training requirements.

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Conducted analysis of manpower personnel, and training requirements	FY 97	Completed
DCNO/Sponsor	Programmed manpower and training resource requirements	FY 97	Completed
PDA	Fleet Introduction	FY 97	Completed
PDA	Promulgated ILS Master Plan	FY 97	Completed
TSA	Began Initial Training	FY 97	Completed
TSA	Delivered Technical Training Equipment	FY 97	Completed
TSA	Delivered Curricula Materials	FY 97	Completed
TA	Began Follow-on Training	FY 97	Completed
DA	Prepared Draft NTSP for review	Jul 98	Completed
PMA 271	Submitted Proposed NTSP to OPNAV for Approval	Feb 99	Completed
DCNO (MPT)	Approved and promulgated NTSP	Mar 99	Completed
PMA 271	Distributed Approved NTSP	May 99	Completed
ABNCP IPT	Aircraft (408) completed mod program	Sep 99	Completed
ABNCP IPT	Aircraft (386) completed mod program	Feb 00	Completed
MMRT IPT	Aircraft (408) completed mod program	Mar 00	Completed
ABNCP IPT	E-6A Mission Avionics Systems Trainer completed E-6B mod program	Jun 00	Completed
PMA-271	Review NTSP to determine if update is required	Jun 00	Completed
ABNCP IPT	Aircraft (404) completed mod program	Sep 00	Completed
ABNCP IPT	Mission Avionics Systems Trainer # 2 Ready for Training	Mar 01	Completed
ABNCP IPT	Aircraft (388) completed mod program	May 01	Completed
PMA-271	Review NTSP to determine if update is required	Jun 01	Completed
ABNCP IPT	Aircraft (407) completed mod program	Dec 01	Completed
PMA-205	Prepared Updated Draft NTSP for submission	Dec 01	Completed
ADWS IPT	Aircraft (408) completes mod program	Feb 02	
MDS IPT	Aircraft (408) completes mod program	Mar 02	
ABNCP IPT	Aircraft (405) completes mod program	Nov 01- Jul 02	
ABNCP IPT	Aircraft (409) completes mod program	Jun 02-Feb 03	
ADWS/MMRT IPT	Mission Avionics Systems Trainer #1 completes mod program	9/02/02	
ADWS IPT	Operational Flight Trainer #1 completes mod	10/25/02	
ADWS IPT	Operational Flight Trainer #2 completes mod	11/27/02	
MDS/ADWS/MMRT IPT	Aircraft (406) completes mod program	1/07/03	
MDS/ADWS/MMRT IPT	Aircraft (918) completes mod program	4/25/03	

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
MDS/ADWS/MMRT IPT	Aircraft (782) completes mod program	6/26/03	
ABNCP IPT	Aircraft (410) completes mod program Last aircraft in mod program	Feb 03-Sep 03	
MDS IPT	Operational Flight Trainer #1 completes mod program	7/01/03	
MDS/ADWS/MMRT IPT	Integrated Avionics System Trainer completes mod program	7/31/03	
MDS/ADWS/MMRT IPT	Aircraft (784) completes mod program	8/22/03	
MDS/ADWS/MMRT IPT	Aircraft (783) completes mod program	10/23/03	
ADWS/MMRT IPT	Mission Avionics System Trainer #2 completes mod program	12/19/03	
MDS/ADWS/MMRT IPT	Aircraft (919) completes mod program	12/22/03	
MDS/ADWS/MMRT IPT	Aircraft (920) completes mod program	2/20/04	
MDS/ADWS/MMRT IPT	Aircraft (387) completes mod program	4/12/04	
MDS/ADWS/MMRT IPT	Aircraft (386) completes mod program	6/04/04	
MDS/ADWS/MMRT IPT	Systems Integration Lab completes mod program	6/24/04	
MDS/ADWS/MMRT IPT	Aircraft (404) completes mod program	7/23/04	
MDS IPT	Operational Flight Trainer #2 completes mod program	8/04/04	
MDS/ADWS/MMRT IPT	Aircraft (388) completes mod program	9/10/04	
MDS/ADWS/MMRT IPT	Aircraft (407) completes mod program	10/28/04	
MDS/ADWS/MMRT IPT	Aircraft (405) completes mod program	12/15/04	
MDS/ADWS/MMRT IPT	Aircraft (409) completes mod program	2/09/05	
MDS/ADWS/MMRT IPT	Aircraft (410) completes mod program	3/29/05	

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS

No Decision Items or Actions Pending

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CDR Jay Gallamore TACAMO Requirements Office CNO, N780E6 gallamore.jay@hq.navy.mil	**COMM:** (703) 695-2205 **DSN:** 225-2205 **FAX:** (703) 693-8823
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MGYSGT Ken Gravatt E-6 Technical Training CNO, N789H4 gravatt.kenneth@hq.navy.mil	**COMM:** (703) 604-7722 **DSN:** 664-7722 **FAX:** (703) 604-6939
AZCS Gary Greenlee NTSP Manager CNO, N789H7 greenlee.gary@hq.navy.mil	**COMM:** (703) 604-7709 **DSN:** 664-7709 **FAX:** (703) 604-6939
LCDR Scott Stroble E-6 Aircrew Training Requirements CNO, N789F3 stroble.scott@hq.navy.mil	**COMM:** (703) 604-7721 **DSN:** 604-7721 **FAX:** (703) 604-6939
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