



NAVY TRAINING SYSTEM PLAN

FOR THE

**AVIATION MAINTENANCE TRAINING
CONTINUUM SYSTEM**

TECHNOLOGY INFUSION INITIATIVE

N88-NTSP-A-50-9907/P

JANUARY 2003

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION INITIATIVE****EXECUTIVE SUMMARY**

This Navy Training System Plan for the Aviation Maintenance Training Continuum System (AMTCS) provides early estimates of the manpower, personnel, and training requirements needed to support and sustain the AMTCS Computer-Based Training System Initiative (CBTSI) “Technology Infusion” initiative. AMTCS will support schoolhouse and Fleet training objectives described in the CBTSI Project Master Plan (4 April 1995) and the approved Training Device Requirements Document (10 May 1996). CBTSI is an Acquisition Category IV: M2 program and meets milestone requirements set by the Department of Defense. Initial Operational Capability is driven by the Computer-Based Training (CBT) development schedule for each platform or weapon system.

AMTCS is comprised of the technical training and associated infrastructure supporting Naval Aviation maintenance. Through the CBTSI “Technology Infusion” initiative, AMTCS will integrate schoolhouse and Fleet in-service aviation maintenance technical training. This integrated system will provide the Sailor and Marine in Naval aviation maintenance occupations with career path training throughout their military career, starting from their initial skills training, and will satisfy the training and administrative requirements of both the individual and the organization.

AMTCS CBTSI “Technology Infusion” initiative objectives are to:

- Increase professional knowledge and performance of aviation maintenance technicians
- Provide state-of-the-art training tools to the Fleet
- Increase the quality of aviation maintenance instruction
- Retire obsolete maintenance training devices – panel trainers
- Reduce the workload of Sailors and Marines
- Provide quality training “anytime, anywhere”
- Improve life cycle support of Training Systems (hardware and courseware)

The AMTCS CBTSI “Technology Infusion” initiative will provide the means for aviation technicians to assess and continually improve their level of technical proficiency. State-of-the-art electronic training tools will better provide technicians with knowledge and skills essential to troubleshooting and maintaining complex aircraft and aircraft related systems with increased skill and confidence. This is the end-state of naval aviation maintenance envisioned in the AMTCS “Technology Infusion” initiative.



N88-NTSP-A-50-9907/P
November 2002

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION**

All Aviation communities are affected by the implementation of the AMTCS. Even though specific instructions (e.g., OPNAV 8000.16 Naval Ordnance Maintenance Management Program (NOMMP)) may not be directly referenced in this document, they are assumed to apply if they are cited in the OPNAV 4790.2 (series).

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION**

TABLE OF CONTENTS

	Page
Executive Summary	i
List of Acronyms	iv
Preface.....	vii
 PART I - TECHNICAL PROGRAM DATA	
A. Nomenclature-Title-Program	I-1
B. Security Classification.....	I-1
C. Manpower, Personnel, and Training Principals	I-1
D. System Description.....	I-1
E. Developmental Test and Operational Test	I-10
F. Aircraft and/or Equipment/System/Subsystem Replaced	I-13
G. Description of New Development.....	I-13
H. Concepts	I-23
1. Operational Concept	I-23
2. Maintenance Concept.....	I-24
3. Manning Concept.....	I-26
4. Training Concept.....	I-29
I. Onboard (In-Service) Training.....	I-30
J. Logistics Support.....	I-31
K. Schedules.....	I-35
L. Government-Furnished Equipment and Contractor-Furnished Equipment Training Requirements	I-38
M. Related NTSPs and Other Applicable Documents.....	I-38
 PART II - BILLET AND PERSONNEL REQUIREMENTS	II-1
PART III - TRAINING REQUIREMENTS.....	III-1
PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS	IV-1
PART V - MPT MILESTONES.....	V-1
PART VI - DECISION ITEMS/ACTION REQUIRED.....	VI-1
PART VII - POINTS OF CONTACT.....	VII-1

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION**

FIGURES		Page
I-1	Pre-October 1994 Maintenance Training Continuum	I-13
I-2	AMTCS Model	I-13
I-3	CBTSI by Platform by Fiscal Year	I-35
 TABLES		
I-1	Current Navy TYPEWING/NAMTGD/AIMD Training Requirements	I-27
I-2	Maintenance Training Team Manning for TYPEWING and Ashore AIMD.....	I-27
I-3	Maintenance Training Team Manning for AIMD Afloat	I-27
I-4	Computer-Based Training Courseware Contracts.....	I-31

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION**

LIST OF ACRONYMS

2D	Two Dimensional
3D	Three Dimensional
AAEC	Advanced Automated Electronic Classroom
AEC	Automated Electronic Classroom
AIMD	Aircraft Intermediate Maintenance Department
AIRTMPS	Air Training Management and Planning System
AMIST	Aviation Maintenance In-Service Training
AMO	Assistant Maintenance Officer
AMTCS	Aviation Maintenance Training Continuum System
ASM	AMTCS Software Module
ATD	AMTCS Training Device
ATSS	Aviation Training Support Systems
CAI	Computer-Aided Instruction
CANDI	Commercial And Non-Developmental Item
CBT	Computer-Based Training
CBTS	Computer-Based Training System
CBTSI	Computer-Based Training System Initiative
CD-ROM	Compact Disc-Read Only Memory
CMC	Commandant of the Marine Corps
CMI	Computer-Managed Instruction
COMLANTFLT	Commander Atlantic Fleet
COMNAVAIRLANT	Commander, Naval Air Force, US Atlantic Fleet
COMNAVAIRPAC	Commander, Naval Air Force, US Pacific Fleet
COMNAVRESFOR	Commander, Naval Reserve Force
COMPACFLT	Commander Pacific Fleet
COTS	Commercial Off-The-Shelf
DA	Developing Agency
DII COE	Defense Information Infrastructure Common Operating Environment
DoD	Department of Defense
DT&E	Developmental Test and Evaluation
DW	Desktop Workstation
EQCR	Electronic Qualification/Certification Record
FEA	Front-End Analysis
GOTS	Government Off-The-Shelf
GPETE	General Purpose Electronic Test Equipment

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION**

LIST OF ACRONYMS

GPTE	General Purpose Test Equipment
IAEC	Introductory Automated Electronic Classroom
ICW	Interactive Courseware
IEEE	Institute of Electrical and Electronics Engineers
IL	Instructor-Led
ILSP	Integrated Logistic Support Plan
IST	In-Service Training
ISTT	Instructional Systems Technology Team
IT	Information Technology
IT-21	Information Technology for the 21 st Century
LAN	Local Area Network
LCM	Life Cycle Management
LMS	Learning Management System
LRFS	Logistics Requirements and Funding Summary
LRU	Lowest Replaceable Unit
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCCDC	Marine Corps Combat Development Command
MOS	Military Occupational Specialty
MPT	Manpower, Personnel, and Training
MTIP	Maintenance Training Improvement Program
MTL	Master Task List
NALCOMIS	Naval Aviation Logistics Command Management Information System
NAMP	Naval Aviation Maintenance Program
NAMTRAGRU	Naval Air Maintenance Training Group
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAMTRA MARUNIT	Naval Air Maintenance Training Marine Unit
NAMTRAU	Naval Air Maintenance Training Unit
NATEC	Naval Air Technical Data and Engineering Service Command
NATTC	Naval Air Technical Training Center
NAVAIR	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NDI	Non-Destructive Inspection
NEC	Navy Enlisted Classification
NETC	Naval Education and Training Command
NITRAS	Navy Integrated Training Resource Administration System
NMCI	Navy Marine Corps Intranet

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION**

LIST OF ACRONYMS

NTCSS	Naval Tactical Command Support System
NTMPS	Navy Training Management and Planning System
NTSP	Navy Training System Plan
NUWC-DK	Naval Undersea Warfare Center, Division Keyport
OATMS	OPNAV Aviation Training Management System
OEM	Original Equipment Manufacturer
OJT	On-the-Job Training
OOP	Object-Oriented Programming
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
OSIP	Operational Safety Improvement Program
OT&E	Operational Test and Evaluation
PJT	Practical Job Training
PMA	Program Manager, Air
PW	Portable Workstation
SCORM	Sharable Content Object Reference Model
SPETE	Special Purpose Electronic Test Equipment
SPTTE	Special Purpose Test Equipment
SQL	Structured Query Language
STASS	Standard Training Activity Support System
SUADPS	Shipboard Uniform Automatic Data Processing System
TA	Training Agency
TD	Training Device
TEE	Training Effectiveness Evaluation
TEV	Test and Evaluation
T/M/S	Type/Model/Series
TSA	Training Support Agency
TTCMS	Training Tool Change Management System
TTE	Technical Training Equipment
TYCOM	Type Commander
ULSS	User's Logistics Support Summary
WAN	Wide Area Network

**AVIATION MAINTENANCE TRAINING CONTINUUM SYSTEM
TECHNOLOGY INFUSION****PREFACE**

This Proposed Navy Training System Plan (NTSP) for the Aviation Maintenance Training Continuum (AMTCS) Technology Infusion Initiative has been updated to comply with guidelines set forth in the Training Planning Process Methodology (TRPPM) and Guide P-751-2-9-97. This document has been developed to update the AMTCS Draft NTSP, N88-NTSP-A-50-9907/D of June 2001. Estimated billet and personnel requirements needed to support AMTCS CBTSI are included to identify any future manpower or training requirements that must be generated to support this program. Significant updates include:

- Part I data updated for technical accuracy.
- Part II data modified to include COMNAVAIRLANT and COMNAVAIRPAC commands and estimated billet requirements.

Comments received from the Draft NTSP review are incorporated. Comments were received from Chief of Naval Operations, Naval Air Systems Command (PMA205), Commander, Naval Air Force U.S. Pacific Fleet (N422F0), and Commander, Naval Air Force U.S., Atlantic Fleet (N422F1). These comments were general in nature.

standardized technical training for Fleet activities in Interactive Courseware (ICW) format. This NTSP includes the baseline for Instructional Delivery System development of all out-of-production platforms (T/M/S systems and subsystems) within the AMTCS for shore-based (Class “C” Schools) and Fleet-based In-Service Training (IST) training programs. The Computer-Based Training System Initiative (CBTSI) guides development of Computer-Based Training (CBT) and supports the design and acquisition of associated Life Cycle Support (LCS) systems.

CBT acquisition is divided into three separate initiatives, including the *courseware development* effort, the *hardware acquisition* and *system integration* process, and the establishment of the *life cycle support* infrastructure. They are described as follows:

- Courseware development relates to the design and production of software that will support the implementation of CBT curricula into the training process. CBT includes self-paced Computer-Aided Instruction (CAI), IL ICW programs, and the administrative Learning Management System (LMS). Initially, courseware has been designed solely for distribution via Compact Disc-Read Only Memory (CD-ROM) and delivery on the local computer workstation. Where practical, new courseware and existing courseware due for revision are developed to be “web-enabled” or web-delivery capable via a web browser by accessing a remote host. The ultimate design goal is to have all courseware Web-delivered and compliant with all applicable standards including those of the Aviation Industry CBT Committee (AICC) and the Sharable Content Object Reference Model (SCORM).
- Hardware acquisition is focused on the purchase of computer hardware needed to support the AMTCS courseware delivery. This includes AMTCS Training Devices (ATD) destined for all schoolhouse and Fleet activity Automated Electronic Classrooms (AEC). System integration provides the interface between hardware and courseware, AMTCS Software Module (ASM) software applications, and current or planned external databases. Some examples of current maintenance and training related databases are the Naval Aviation Logistics Command Management Information System (NALCOMIS) and the Navy Training Management and Planning System (NTMPS).
- Life cycle support relates to schoolhouse and Fleet upkeep and revision of the training procedures and applications software and hardware that make up CBT. The Life Cycle Management (LCM) process is implemented through the Training Tool Change Management System (TTCMS) and the Logistics Requirements and Funding Summary (LRFS) application programs.

The increasing complexity of weapon systems necessitates a transition from paper-based to electronic training environment with standardized transportable digital media. This standardized training must respond to the dynamics of Naval Aviation, provide a quality training reference, and identify individual knowledge and skill requirements at the right time to allow for real-time “just-in-time” training. This coincides with reductions in force (including training

staff) and must comply with the Navy's Advanced Distributed Learning initiative to convert paper-based instruction to CBT, distribute training to alternative locations, and to develop reusable courseware and embedded training.

Faced with a need for strict cost controls and law-mandated efficiencies, even as mission scope and battle readiness requirements have expanded, the Navy and Marine Corps have experienced a paradigm change in the way weapon systems maintenance training is accomplished. Efficiency and increased effectiveness can be achieved by transforming training from one that is event-based to one that is more mission requirements-based. The key to this new approach is to establish training requirements based on wartime missions and the direct and indirect support needed for those missions. This is based in a concept of training involving a list of Mission Essential Tasks that the commander uses to prioritize and focus unit training. The Naval Mission Essential Task List (NMETL) serves as the Fleet's common baseline of tasks, conditions, and standards for use in planning, conducting, assessing, and evaluating fleet training. Naval aviation maintenance links to the NMETLs via the Maintenance Task Lists (MTLs), Mission Essential Subsystem Matrix (MESM), and the Training and Readiness (T&R) events. MTLs form the basis for all aviation technical training; they establish the technical training requirements for all Navy and Marine Corps aviation technicians in the same occupational field, NEC/MOS, or billet. They are developed to specify the knowledge and skills required to maintain weapon systems and subsystems in support of each unit's combat missions as defined in an aviation unit's Mission Essential Task List (METL). MTLs are the core of all training under AMTCS; this new concept (AMTCS) provides state-of-the-art training tools to advance the Fleet's In-Service Training process and thereby enhances the Operational Commander's war-fighting capability by optimizing personnel knowledge and skill levels and maximizing the availability of fully mission-capable weapons systems.

The AMTCS will be the Naval Aviation Maintenance Program's primary technical training system. The goals and objectives of the AMTCS CBTSI Technology Infusion initiative are to enhance the Naval Aviation maintenance community's technical training program, produce qualified maintenance personnel in an efficient and effective manner, provide the tools to maintain proficiency via "just-in-time" training, and provide the means to implement and maintain a flexible training continuum to meet emerging war-fighting requirements.

Under AMTCS, Naval Aviation Technical Training is a sequential process (with a flexible integrated curriculum design) that spans a Sailor or Marine's entire career. The training continuum begins with formal "A" School at the Naval Air Technical Training Center (NATTC), which provides initial skills training. A "C School" at a Naval Air Maintenance Training Unit (NAMTRAU) or Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) provides the next level of instruction with specific training for Type/Model/Series (T/M/S) weapons systems, associated components, and support equipment. The "C School" provides special technology training such as Non-Destructive Inspection (NDI), Aeronautical Welding, Micro-Miniature Repair for electronic components, and individual Weapons courses. Aviation maintenance training provided by other supporting activities such as the Naval Aviation Depots (NADEP), Shipyard and Intermediate Repair (SIMA) facilities, Naval Air Technical Data and Engineering Service Command (NATEC), and Naval Air Warfare Center-Weapons Division

(NAWCWD) also falls under the AMTCS umbrella. Finally, the Fleet-based IST element includes weapon systems-specific On-the-Job Training (OJT) syllabi and instruction at the organizational unit level.

In the normal career progression, Class “A” and “C” schools provide classroom and laboratory time to give student technicians the knowledge and skills required to perform scheduled and unscheduled maintenance while under supervision. Once technicians finish “A” School with acquired entry-level skills, they advance to apprentice and journeyman-level craftsmen via experiential follow-on OJT supplemented by command-sponsored instruction (using CAI and ICW on ATDs). Working in their respective occupational ratings, technicians ultimately advance to master-level upon completion of Career “C” School and additional OJT.

Introducing a “technology infusion” into the training continuum influences the way training is designed, delivered, and implemented, in both the schoolhouse and the Fleet. Fundamental and refresher technical training are tailored to the individual’s skill level and to the Mission Commander’s needs on a case-by-case basis through the use of a combination of existing and newly-developed tools. An example of one tool is CBT, managed via ASM under local command cognizance, which meets individual and command requirements at the work center level.

The AMTCS CBTSI “Technology Infusion” initiative is designed to support schoolhouse and Fleet training requirements as outlined in the OPNAVINST 4790.2 (series) Naval Aviation Maintenance Program (NAMP) and any additional requirements identified through Front-End Analysis in the Instructional System Development process. This is done using state-of-the-art tools in support of refresher training for maintenance personnel who have been working outside their rating for an extended period, and for initial training for tasks not taught in a formal schoolhouse environment, or otherwise covered by Fleet OJT or other IST administrative processes.

A number of technologies are available than can provide an unprecedented flexibility in being able to deliver the right training to the right people at the right time and place. Multiple paths towards training can now be taken in order to advance the system knowledge of the individual or to improve and maintain technical proficiency. CBT courseware is developed for two types of user audience; i.e., for the single individual (in the form of self-paced ICW with Computer-Managed Instruction (CMI)) and for group presentation (CAI which is meant to be used by an instructor/moderator). Both types of instructional media are accessible on ATDs in stand-alone or Local Area Network (LAN)/Wide Area Network (WAN) environments. Additionally, the workstations ATDs in an Advanced Automated Electronic Classroom (AAEC) can be used to simultaneously support multiple individuals interacting with different self-paced ICW packages, or a group engaged in IL CAI-based training, or any combination of the two. CBT courseware is expected to consist of a mixture of centrally provided and locally developed training materials. Additionally, courseware can be accessed from the workstation, from the AEC server, or from remote sources, such as dedicated web-servers.

The ASM is designed to assist individual career path training. The four primary elements of the ASM program are:

- Master Task List (MTL) module - hosts task lists and supporting data elements
- Test and Evaluation (TEV) module - provides a means of assessing the knowledge level of individual technicians
- Feedback Module - provides the data required to conduct statistical analysis to identify and support training system revisions
- Electronic Qualification/Certification Record (EQCR) - records accomplished training and other critical individual technician training management data

CBT interfaces and communicates through the ASM application program and is hosted and fielded with the appropriate ATD hardware. The integrated ATD hardware-software provides a system to support preparation and delivery of “A” and “C” schoolhouse training and Fleet OJT syllabus training. The ATD increases training effectiveness and efficiency, and enhances the overall quality of training through the use of computer technology. The ATD consists of Commercial Off-The-Shelf (COTS) hardware and operating system software combined with custom application software. ASM in the Fleet is planned to operate on the Naval Tactical Command Support System (NTCSS)-NALCOMIS LAN and on the Chief of Naval Education and Training (CNET) WAN for the schoolhouse. CBT will be delivered initially via CD-ROM with eventual transition to the Web-based delivery, as bandwidth issues are resolved. ASM data will reside on local network servers and interface with Standard Training Activity Support System (STASS), NTMPS, NALCOMIS, the Electronic Field Service Record, the Navy Learning Network, and a variety of other learning, maintenance, and personnel management databases.

Fleet commands are provided with ATDs based upon an analysis of individual command requirements. ATDs will have a current standard operating system, Learning Management System, and initial data pre-loaded and integrated upon delivery to the activity. Access to the ASM application in Fleet activities is planned to initially be from the ATD, with future access available from the NTCSS workstations as well. While the ASM application will initially reside on a server within the ATD suite, it is planned to transition to the NTCSS application server. NALCOMIS maintenance action data will be transferred between the NALCOMIS server and the ASM ORACLE® database application via a real-time automated software interface (similar to the interface method currently in use between NALCOMIS and the Shipboard Uniform Automatic Data Processing System (SUADPS) applications.

a. Aviation Maintenance Training Continuum System Implementation

Goals. There are three goals that must be accomplished to implement AMTCS in the Naval Aviation maintenance community:

- **Goal 1** - Ensure the reengineered AMTCS is in effect as soon as possible, so that all newly accessed Naval Aviation maintenance personnel receive quality and effective "just-in-time" training
- **Goal 2** - Invest in technologically advanced training tools and support structures that enhance the development, implementation, and future integrity of the “Technology Infusion” initiative

- **Goal 3** - Ensure that all Naval Aviation Technical Training management and technical training systems are interoperable, forming a seamless training continuum infrastructure that supports leveraging across communities and capitalizes on program investments

b. Aviation Maintenance Training Continuum System Implementation

Objectives. To achieve the AMTCS implementation goals, several measurable objectives must be accomplished. These objectives are:

- Provide an Integrated Training System that meets the AMTCS training requirements and optimizes throughput to support operational readiness
- Develop training measures of effectiveness that measure a technician's proficiency
- Develop an integrated curriculum for AMTCS to meet the requirements of the reengineered training continuum that takes full advantage of current and future technologies
- Continuously improve Fleet and schoolhouse instructional systems
- Develop all courseware and associated media databases to operate in network, web, and stand-alone environments
- Develop all management systems to accommodate Higher Level Architecture
- Solicit Fleet and schoolhouse feedback through an automated system and incorporate results into future planning

2. Mission. The AMTCS CBTSI "Technology Infusion" Initiative will offer software applications in the form of knowledge, management, and architecture electronic tools supporting both the Fleet and the schoolhouse. These "e-tools" will provide weapon system and subsystem task knowledge and information through ICW CAI, thus supporting the Fleet In-service and schoolhouse training requirements with an integrated, deployable tool set. Naval aviation technicians will be able to access digital training information "anytime and anywhere" to continually improve their level of technical proficiency. Training managers, work center supervisors, and schoolhouse instructors will be able to assess training needs based on the actual job performance of the technicians, measuring their proficiency and providing feedback. Commanders will be able to quantify the impact of maintenance training on readiness. Training data developers and course managers will have ready means to maintain courseware currency with the parent weapon system or subsystem.

The success of these e-tools depends on their seamless operation, function, and interoperability across the numerous internal and external systems, processes, and organizations of the training continuum. Design, development, and implementation considerations include the clear identification of each user's requirements, existing capabilities and limitations, and balancing the alternatives provided by the new initiatives through a thorough analysis of the

training business process, information architecture, and enterprise-wide Information Technology (IT) infrastructure.

a. Training Business Process

(1) Output Goal #1. The first Training Business Process Output Goal is to increase Fleet readiness and decrease operational costs through the enhanced troubleshooting capabilities of maintenance technicians. Key performance parameters:

- Aircraft availability to support Fleet mission requirements
- Manpower, Personnel, and Training Program proficiency

(2) Output Goal #2. The second Training Business Process Output Goal is to elevate the level of training in both the schoolhouse and Fleet through increased cognitive and troubleshooting skill training using state-of-the-art instructional methodologies. Key performance parameters include:

- Implementation of ICW and CAI courseware as performance support tools for the learner-technician
- Revision of existing curricula materials to incorporate the most appropriate media in support of training content
- Reductions in attrition, setback rates, and time to train for existing curricula. Reductions in time to train may not be realized if added training requirements are identified during the application of sound Instructional Systems Development processes.

(3) Output Goal #3. The third Training Business Process Output Goal is to reduce workload (i.e., to avoid burdening the Sailor or Marine). Key performance parameters include:

- Personnel gains in total qualifications, reductions in time to achieve individual qualifications, and activity maintenance trend factors.
- Implementation of training management software (e-tools) whose design and development are based on an analysis of the actual business process and business rules of the user and the using activity

(4) Output Goal #4. The fourth Training Business Process Output Goal is to field training business process application systems in support of AMTCS. Key performance parameters include:

- Utilization of automated management and administrative tools in ASM to:
 - Identify and validate requirements for the training continuum

- Track and record individual training accomplishments and deficiencies
- Identify deficiencies in training system tools
- Utilization of Decision Support System tools, either COTS or Government Off-The-Shelf (GOTS), to facilitate the business process.
- Integration of AMTCS processes and tools to support cross functional activities:
 - NTMPS and its associated Air Training Management and Planning System (AIRTMPS)
 - NALCOMIS
 - STASS
 - Navy Integrated Training Resource Administration System (NITRAS)
- Identification of life cycle support requirements for AMTCS tools and insertion of resource requirements into the Future Years Defense Plan

(5) Output Goal #5. The fifth Training Business Process Output Goal is to optimize training and achieve future savings in travel costs and training dollars through the use of CBT. Key performance parameters include:

- En-route training
- Cross platform training
- “Right training at the right time”

b. Information Architecture (Software Applications and Data)

(1) Output Goal #1. The first Information Architecture Output Goal is to capitalize on current and emerging technologies in the development of ICW and CAI for the Fleet and the schoolhouse. Key performance parameters include:

- Utilization of Object-Oriented Programming (OOP) in CBT development processes to facilitate reuse
- Ability to “reuse” materials developed for other applications such as Interactive Electronic Technical Manuals to support the CBT development processes
- Ability to leverage across aircrew and maintenance training communities to reduce development costs
- Implementation of automated analysis and decision support tools (COTS/GOTS) to facilitate Instructional System Development and

Front End Analysis process, i.e., Training System Requirement Analysis Program

(2) Output Goal #2. The second Information Architecture Output Goal is to field training business process application systems in support of AMTCS. Key performance parameters includes:

- Utilization of application programs and common standards that enable transportability between platforms and communities. Examples include the use of:
 - Structured Query Language (SQL)
 - SCORM
 - DOD Data Element Dictionary
 - Institute of Electrical and Electronics Engineers (IEEE)
 - Search Engines

c. Enterprise-Wide Information Technology Infrastructure (Local Area Network Wide Area Network Hardware and Software). The output goal of the Enterprise-Wide IT Infrastructure is “unrestricted access to quality digital training product information to accomplish weapon system acquisition, deployment, operations, and maintenance activities.” Specific objectives include:

- Leverage:
 - Navy and Marine Corps Intranet (NMCI)
 - Navy E-Learning Infrastructure
 - NTCSS investment for Afloat infrastructure
 - Other existing infrastructure
- Establish an Integrated Training Data Environment for all technical training functions and organizations
- Implement a common operating environment for sharing technical training information through accepted standards:
 - Defense Information Infrastructure Common Operating Environment (DII COE)
 - Fleet IT 21
- Ensure AMTCS Training Devices (TD) are compatible with the latest technology and available at both Fleet and schoolhouse user activities, on the Ready For Training date

3. Naval Aviation Maintenance. AMTCS provides the essential support for Naval Aviation maintenance that is founded upon the three-level maintenance concept. Navy and Marine Corps aviation maintenance technicians, possessing various Navy Enlisted Classification (NEC) and Military Occupational Specialty (MOS), in operational units and at the intermediate

level activities perform maintenance tasks on aircraft, systems, and equipment. A civilian workforce at Naval Aviation industrial establishments conducts depot level maintenance.

Every Navy and Marine Corps aviation maintenance activity is responsible for performing their assigned range of maintenance tasks. However, these tasks do not determine whether a maintenance activity is capable of performing its mission, is adequately manned and equipped, or the personnel are adequately trained. The basis for measuring the efficiency and effectiveness of a maintenance activity, and of individual technicians, is the ability to find and fix problems efficiently. Maintenance activities are judged on their ability to support the launching of full mission capable aircraft, and to keep the aircraft and aircrew safely in the air to complete their mission.

The success of aviation maintenance activities, and of Naval Aviation to carry out its mission, depends on properly trained technicians. These requirements are no different than those for any other profession that involves both diagnostic and psychomotor skills. The most valued maintenance abilities are also the most difficult to acquire and practice. Research, on-the-job observations, and experience have demonstrated that it is much easier to teach and learn psychomotor skills than diagnostic (or troubleshooting) skills. Meeting Naval Aviation's mission requirements depends on acquiring the tools needed to enable Sailors and Marines, in their first enlistment, to perform maintenance tasks previously performed by more senior technicians. The Navy must embrace technology to optimize efficiency, reduce costs safely, and produce superior trained technicians.

The challenge for the AMTCS CBTSI "Technology Infusion" Initiative is to provide the right training tools and environment to produce Navy and Marine Corps aviation maintenance technicians with well-honed cognitive skills characteristic of the finest troubleshooters.

4. Foreign Military Sales. For information regarding AMTCS and the Foreign Military Sales program, contact Program Manager, Air (PMA) 205.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. Test and Evaluation for Interactive Courseware and Computer-Aided Instruction. For more than a decade, ICW and CAI, integrated with multimedia, have been a viable means for delivering training commercially, as well as in military and educational environments. More powerful and cheaper microprocessors developed in recent years provide the essential tools for developing (or enhancing) existing, creative training applications. Naval Aviation Technical Training must capitalize on these benefits. Fundamental questions must be answered to ensure that our decision to invest in the type and level of ICW and CAI, and the right mix of multimedia, meets the needs of the Fleet. We must be assured that multimedia interactive learning is effective and that the products we procure can teach.

a. Formative and Summative Evaluation. MIL-HBK-29612-2 Instructional Systems Development/Systems Approach to Training and Education offers the following

guidance for conducting formative and summative evaluation on training products designed under the Instructional System Development process.

(1) Developmental Test and Evaluation. Developmental Test and Evaluation (DT&E) is an active part of training system development. As a formative evaluation activity, it is conducted to demonstrate that training system equipment design and development are complete, design risks have been minimized, and the system meets performance requirements. It ensures the effectiveness of the manufacturing process, equipment, and procedures.

(2) Operational Test and Evaluation. Operational Test and Evaluation (OT&E) completes the formative evaluation process for training system equipment. This formative evaluation activity evaluates the system's operational effectiveness, maintainability, supportability, and suitability. It identifies any operational and logistics support deficiencies, and the need for modification. In addition, OT&E provides information on organizational structure, personnel requirements, support equipment, doctrine, training, and tactics. It should also provide data to verify operating instructions, maintenance procedures, training programs, publications, and handbooks.

(3) Summative Evaluation. With the conclusion of small-group tryouts, formative evaluation activities are complete. Summative evaluation is the next stage in the continuous evaluation process. This stage of evaluation involves testing the instruction on the target audience in an operational environment. In some organizations, summative evaluations are conducted after the instructional system becomes operational and include two components: internal and external evaluation. Summative evaluation is a form of evaluation designed to collect data and information during the operational (field) tryouts in order to determine the "summed" effect of the instruction under operational conditions and to make any changes or revisions to the system prior to becoming operational. Summative evaluations are also conducted when significant revisions or updates have been made to the instructional system. The only summative evaluation activity is the operational tryouts. Operational tryouts are used to determine if the training system works under operational conditions; provide feedback from a large sample of the target audience to be used for revisions; implement a prior training system; identify possible implementation or operational problems; determine if training is cost effective, adequate, and required; and provide validation data for acceptance testing.

(4) Evaluation Schedule. Separate formative evaluation is conducted for each weapon system ICW and CAI software development. The formative evaluation process normally follows the project's In-Process Review schedule. Deficiencies identified during incremental reviews are reconciled at the In-Process Reviews with corrections reviewed at subsequent In-Process Reviews.

b. Training Effectiveness and Evaluation. The purpose of the Training Effectiveness and Evaluation (TEE) is to provide accurate information upon which to base instructional decisions. It is not enough to know that a particular multimedia program is effective, but it must be understood as to why it is effective. The scope of the TEE must capture

the relevant variables involved in learning and provide the types of information educators and designers need.

The TEE must address CAI and ICW relative to traditional stand-up instruction and OJT. The majority of previous evaluations frequently yielded no significant differences between the interactive systems and conventional instruction. The few that reported statistically significant differences offered little insight to the problems of designing future multimedia instruction. Each segment of the AMTCS must be examined to determine if the type of interactivity and the instructional strategies built into the lessons provide results. Specifically, CBT materials must embrace the full potential and the power of the interactive environment, thus ensuring that our Sailors and Marines learn using this technology.

The Naval Air Maintenance Training Group (NAMTRAGRU) validation team will assist the Naval Air Systems Command (NAVAIR) Program Manager (PMA205-3) in the design of and conducting of TEEs. The TEE will be employed to evaluate the perceptions of students, instructors, and Fleet technicians regarding the AMTCS training system and its components. The data collected will be used to identify the instructional effectiveness of the courseware, to evaluate the soundness of the ATD design, and to identify potential areas that require revision.

(1) Aviation Maintenance Training Continuum System Software

Module Software Test and Validation. Testing of the ASM application program will follow the guidelines and methods called for in the Software Test Plan and Procedures for ASM Naval Undersea Warfare Center Division Keyport (NUWC-DK) Document Number V1.1-515. ASM is a Software Configuration Item of the AEC and the ATD system. Therefore, the ASM software development and testing will be accomplished in accordance with the “Test and Validation Plan for the AMTCS Training Device,” V2.0-504. ASM testing will be accomplished on its individual components (Level I Testing) as well as on the integrated subsystem itself (Level II Testing) within the AEC and ATD hardware environments.

(2) Aviation Maintenance Training Continuum System Training

Device Test and Validation. NUWC-DK Document Number V2.0-504, Test and Validation Plan for the AMTCS Training Device, outlines testing procedures for the ATD and AEC. This Test and Validation Plan defines NUWC-DK’s role and responsibilities as the Integration and Deployment Agent for the NAVAIR ATD. It defines NUWC-DK’s responsibilities and system acceptance actions for technical and life cycle development of the ATD production baselines. It defines the technical documentation and testing responsibilities in support of new AEC and ATD production baselines.

Test procedures and results for the ATD are provided in two documents: NUWC-DK Document Number V2.0-401, Test Procedures for the AMTCS Training Devices and NUWC-DK Document Number V2.0-404, System Acceptance Test And Operational Test Procedures For The AMTCS AEC.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. Prior to October 1994, the Aviation Maintenance Training Continuum for enlisted personnel consisted of an “A” School for a specific rating (career field), which was followed by an aircraft T/M/S specific “C” School (see Figure I-1 below).

Pre October 1994

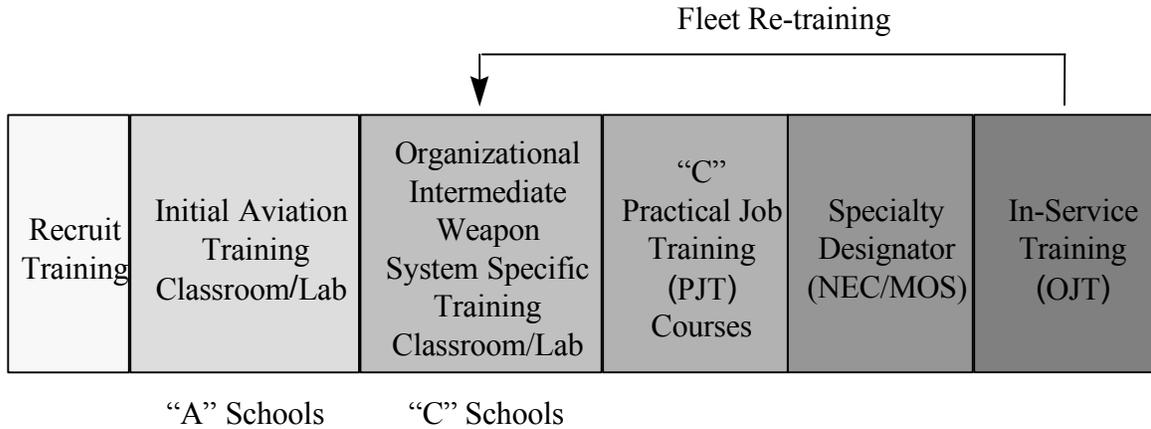


FIGURE I-1. PRE-OCTOBER 1994 MAINTENANCE TRAINING CONTINUUM

Following the “C” School, enlisted personnel received little more than OJT for the remainder of their career. While effective, this continuum provided too much training early-on and not enough in the latter part of an individual’s career. In fact, this continuum had virtually no vehicle or media to provide career individuals with maintenance training after they completed the “C” School. Additionally, quality state-of-the-art training tools at the schoolhouse were scarce and not deployable. This lack of deployable training only exacerbated the Fleet’s training problem.

G. DESCRIPTION OF NEW DEVELOPMENT. Recent technological advances in hardware and software have significant potential for improving Navy and Marine Corps aviation technical training. These advances can strengthen training capabilities in many areas by providing the capacity to create and quickly modify training situations, facilitating and improving training delivery system development, and enhancing general all-around training simulations, thereby increasing learning and improving performance. The AMTCS CBTSI “Technology Infusion” initiative has begun to contract for and deliver CBT materials to the schoolhouse and to the Fleet. The ATD and AEC hosts the various training materials.

computer determine the level, order, and pace of instruction, as well as the type of feedback generated.

ICW relies on user input to determine the pace, sequence, and content of training delivery using more than one medium to convey the content of instruction. ICW can link a combination of media including, but not limited to, programmed instruction, video tapes, slides, film, television, text, two-dimensional (2D) and three-dimensional (3D) graphics, digital audio, animation, and full motion video to enhance the learning process. ICW training, if designed properly, yields significant results by providing stimuli that affect all sensory elements of a learner. This aids the learner in comprehending complex topics faster with better retention. ICW can deliver real-time simulation to practice complex tasks refining cognitive skills. The capability of ICW offers trainees, technicians, and supervisors a number of possibilities to conduct training. Technicians can refresh systems knowledge, theory of operations, fundamentals, practice testing and troubleshooting, or engage in problem solving scenarios.

The instructional design strategy for ICW is capable of presenting troubleshooting problems using the Expert System technology. An Expert System-based troubleshooting and problem solving program incorporates the use of a weapon system or subsystem specific knowledge base, an inference engine, an expert model, instructor model, and a user model that offers a robust diagnostic training and practice environment. This functional modeling technique supports the development of cognitive tasks that are necessary to perform fault isolation and diagnosis. The Intelligent Tutoring technique allows a user to learn how to solve a problem, and therein lies its true instructional value. Rather than learning a lock-step approach to troubleshooting and problem solving, Expert Systems provide the user a “real world” scenario, relevant to the task and the situation he or she encounters on the job. This is particularly significant in the “transfer of learning” process. Expert System-based systems facilitate the process of “transfer” by giving the students opportunities to apply their learning to a variety of high-fidelity circumstances. The above tasks can be performed either at the discretion of the individual Sailor and Marine or the shop supervisor, all for a one-time investment. ICW is a performance tool to deliver “knowledge,” i.e., the specific information required for the student-technician to develop the skills and attitudes for effective accomplishment of his or her job, duties, and tasks.

Functionality required for each weapon system and subsystem includes:

- A simulation function to give the user the ability to operate and maintain the equipment under a given scenario
- A monitoring function to watch the actions taken by the user under the given scenario and to provide advice
- An information presentation function to provide both the theory of operations and functions of various components
- A justification component to ask the user to specify a reason for the particular action
- A recording function to store the student’s actions

- A replay function to be used by the student to observe the actions taken and justifications given by an expert as well as by the instructor/supervisor to review the user's actions and justifications for those actions.

(2) Computer-Aided Instruction. Computer-Aided Instruction (CAI) is the use of computers to aid in the delivery of instruction in a group-paced learning environment where the instructor controls the pace and sequence of the presentation. CAI exploits the computer technology to provide for storage and retrieval of information for both the instructor and technician/student. CAI is a media package providing weapon system and subsystem operation functionality, for group-paced instructional support in the schoolhouse and Fleet unit. The design and content of the CAI media package is consistent with the above description for ICW.

CAI functionality is different from other CBT instructional approaches, and its design and development differ from that of conventional courseware. The overall design strategy begins with the end item (e.g., aircraft or weapon system) and progresses through various levels of system detail. The designer must use imagination and all available technical data to realize the full value of this medium. The maintenance manuals and existing training aids are the starting point for designing the presentations. Consideration should always be given to including material taken in part, or completely, from intermediate maintenance, depot, and industry sources. The goal is to stimulate the technician's full understanding of the concept as rapidly as possible.

Consideration for the use of all available graphic materials including 2D and 3D animation, actual photos, digitized video, etc., will employ a development structure similar to the Maintenance Instruction Manual work package. For example, the segment of a CAI lesson covering fuel control could include an on-aircraft view showing the relative positions of significant components, regardless of the rating or skill designator assigned repair responsibility. Designing to a system, vice a course, means that the same graphics may be used in more than one module, reducing development time, effort, and ultimately, cost. Additionally, it can readily display the system's interface.

(3) Learning Management System. The use of computers and software to manage the instructional process is achieved through a Learning Management System (LMS) program. A LMS is a software application that allows navigation in ICW or CAI while collecting valuable statistical data. It includes a management administration system designed to facilitate entering and exiting courseware, tracking user performance over a period of time, providing information concerning performance trends, administering testing, recording individual and group performance data, scheduling training, and providing support for other training management functions, including report generation.

b. Aviation Maintenance Training Continuum System Software Module

Application. The ASM is a software application for training management designed to identify task requirements, track training exposure, and record knowledge for all Navy and Marine Corps aviation maintenance personnel. ASM functions in a relational database environment providing the following capabilities:

- A Data Management MTL module that provides the capability to produce task lists related to weapons platforms, systems, subsystems, and components
- A Test and Evaluation (TEV) module used as a diagnostic tool that tests a technician's knowledge within an NEC/Rating, MOS, Billet, or Collateral Billet Assignment
- An EQCR module for recording accomplished training
- A Feedback module that provides the capability for tracking training tool effectiveness feedback to the training activities

ASM design and functionality is centered on the actual tasks and sub-tasks that a technician performs on a specific weapon system or subsystem. The task list encompasses each occupational field's (rating) functional area including maintenance, administration, and safety. Tasks are assigned to a technician based upon his or her billet and unit assignment at a specific point and time in his or her career. ASM provides a capability for activity-created Unit Task Lists (UTL). UTLs are non-platform related task lists and can be created locally for site-specific use.

(1) Master Task List. The Master Task List (MTL) contains multiple task lists. Taken in total, these task lists identify all the tasks required to maintain and support a weapon system or platform. These task lists reside in a database within the AMTCS environment. A technician will have multiple task lists, each task list housed within its own domain within the database. Specifically, an F-14 Technician will have a MTL housed in the F-14 Domain that contains all F-14 peculiar tasks, and a task list within the NAMP domain that houses all NAMP specific requirements. Weapon-specific MTLs have a hierarchical structure based on the weapon system and subsystem breakdown in accordance with the Work Unit Code Manual, and its relationship to the maintenance tasks performed on each piece of equipment to the standards identified in the Occupational Standards Manual. Non-weapon-specific MTLs have a hierarchical structure that is based upon a logical analysis of the tasks and the most appropriate manner to assess these tasks. Tasks are correlated with ratings, NECs, MOSs, lowest grade expected to perform the task, billet, and collateral duty assignments. Tasks reside in ASM's MTL database and are linked to the relevant Course Identification Number, learning objectives, assessment questions and answer banks, and available training tools.

(2) Electronic Qualification/Certification Record. The EQCR records technical training data throughout an aviation maintenance technician's career. It contains the individual's personal training information, Individual Training Plan, and training status for both formal and informal training. It provides the means for individuals to view their Individual Task Lists and Training Plans generated from their assigned task lists (MTL/UTL). Both knowledge-based and skills-based training will be tracked in the EQCR. The EQCR is designed to be transferable, following an individual from duty station to duty station.

(3) Testing and Evaluation. The Testing and Evaluation (TEV) module serves as a diagnostic tool that tests an individual's knowledge within his or her rating, NEC, MOS,

and billet and collateral duty assignments, as well as Naval Standards. TEV provides the capability to generate, take, and grade tests. TEV test results are used to determine remediation training needs, update the individual's Individual Task List and Individual Training Plan, and provide data to the Feedback module.

(4) Feedback. The Feedback module provides the capability for tracking training tool effectiveness, Wing, Squadron, and Work Center readiness, and MTL question and answer bank effectiveness information. With the Feedback module, AMTCS will be provided with continual product and training improvement information.

d. The Aviation Maintenance Training Continuum System Training Device. The ATD consists of COTS hardware, software, and custom application software.

(1) Automated Electronic Classroom. The AEC provides the capability to use instructional guides, CAI, and ICW as an integrated media for group-paced instruction on one or more designated aviation systems or subsystems. The AEC provides the student with the ability to access instructional material, individual data, and course data under the control of the instructor. It provides the instructor with the ability to administer tests, control the pace of instruction, and monitor student access to instructional material. The three basic configurations for an AEC are:

- Advanced AEC-Fleet (AAEC-F)
- Advanced Automated Electronic Classroom (AAEC)
- Introductory AECs (IAECs)

AAEC-Fs are designed primarily to support self-paced remediation by Fleet activities and students. AAECs include student stations and may be used for any training requirement that dictates the student/technician interactivity. This interactivity may be in a group-paced or self-paced instructional environment. All AAEC versions may be used as an ASM testing lab. IAECs do not contain student stations and support only group-paced instruction.

The AAEC-F will also function as a central repository for all digital training materials within a schoolhouse. The AAEC-F provides instructional materials such as CAI, ICW, trainee guides, and simulation software for user self-paced, refresher study to supplement formal classroom training. The AAEC-F's Developer Station provide a workbench and development tools for instructors to review, update, and maintain instructional materials. As noted above, the AAEC-F functions as an AAEC for backup or overflow classroom training. The primary components of the AAEC-F subsystem are the Developer Station, Student Stations, Presentation Device, Video Controller, network, network server, CBT materials, and the ASM application program.

(a) Instructor Station. The Instructor Station for the AEC supports required capabilities of all instructor and administrator training activities. It provides the platform for the instructor to present CBT materials, utilize the ASM application program, and access instructor guides and ICW. The Instructor Station will operate with the classroom Presentation Device to allow presentation of instructor annotations and drawings on training materials.

(b) Student Station. The Student Station for the AEC supports student-user interactivity requirements in the instructor-led or self-paced training environment. The Student Station provides the platform for students to view and interact with instructional materials and the ASM. Student Stations will be capable of operating CAI and ICW materials. Training site requirements will determine the quantity of Student Stations in each classroom.

(c) Presentation Device. The Presentation Device for the AEC provides a large screen display for instructional material presentation to students in the classroom.

(d) Video Controller. The Video Controller for the AEC provides the instructor with operational control capabilities.

(e) Network. The AEC contains a LAN for transmission of data between the Instructor Station, Developer Station, Student Stations, and network server. The network will support all user and all AEC functions. The network design will provide for a stand-alone AEC or networked AECs. The stand-alone AEC will function as an individual sub-net, connected to the training site LAN and other AECs. Network designers will determine the optimum network layout at each training facility. Network hardware/software that is common to multiple AECs will be inventoried against the AAEC.

(f) Network Server. The network server will support all users and all AEC activities. The network server may be either a dedicated server or a server shared by multiple AECs. Network designers will determine the optimum server configuration at each training facility. In both configurations, the network server will provide for electronic storage of instructional materials, LMS data, and ASM data. It will support simultaneous student access to stored training materials and data. The network server will also provide storage for individual and course data collected through the LMS and ASM software. The network server operating system will provide user-controlled access to instructional materials. It will be capable of downloading instructional materials to Instructor and Student Stations, and uploading individual, course, and test data from student stations.

(g) Network Printer. A network printer for individual AECs will provide printing services for instructor and student stations. A color printer will provide color printing for the developer workstation.

(2) Aviation Maintenance Training Continuum System Training Device. The ATD provides a standardized Fleet-managed, deployable, documented training system for In-Service Training. It will support Fleet implementation of ICW, CAI, and the ASM application program. It will enhance the quality of training at the squadron level by providing real-time assessment of personnel training and on-demand refresher CBT.

The ATD functional requirements define capabilities, conditions, and constraints of the training device. As a self-paced training device, the user will interact with training materials (ICW) to learn at their own pace. The ATD will provide users with the ability to perform real-time remediation and refresher training of identified individual training deficiencies, the ability to select, view, and navigate through training materials such as CAI software, ICW, and lesson

guides, and the ability to play CBT audio on individual headsets. The ATD will also provide users with the ability to perform self-paced training in both deployed and non-deployed environments.

As a group-based training device, Fleet In-Service Training instructors control the delivery of training to one or more individuals in the same manner as in the formal schoolhouse. In a training management role, the ATD provides users with the capability to manage In-Service Training via the ASM application program. The ATD will support shore-based and shipboard training management activities by providing users with the ability to perform standardized training management tasks in both stand-alone and multi-user environments, identify individual task requirements, validate an individual's knowledge and identify knowledge deficiencies, track an individual's training exposure, collect question response data for the evaluation and improvement of courses and questions, and compile and generate individual/group training reports.

(a) Training Program Administration. Training Program Administration accommodates administrative activities required to sustain the Fleet In-Service Training program. These activities are in direct support of AMTCS objectives. The following paragraphs describe the functional requirements of ATD components with respect to the training states and modes they support.

1) Portable Workstation. The Portable Workstation (PW) will provide a transportable and deployable platform for delivery of CBT materials and the ASM application program. The PW will support required capabilities of all training states. PWs may operate as stand-alone devices, but normally will be integrated into the ATD server network. PWs may be either laptop or workstations. The number of each will be determined via individual analysis of the activity's mission.

2) Aviation Maintenance Training Continuum System Training Device Server. The ATD server will support CBT and ASM operation at shore and shipboard activities. The server will support all training requirements within the activity. Servers will be capable of operating as a stand-alone device and can be networked with other ATDs, LANs, and peripheral devices. Due to space constraints aboard ships and for ease of transportation, the server will be compact. The server will act as a central repository for the ASM data associated with the Fleet environments to which it is deployed.

3) Optical Mark Reader. The Optical Mark Reader will provide the capability to grade paper tests generated by the TEV function of the ASM.

4) Printer. The printer will provide the capability to print paper tests generated by the ASM TEV function. The printer will also be used to print a number of training reports as well as supplemental training materials needed for group-based training.

5) Presentation Device. The Presentation Device will provide desktop projection capability. It will display computer-based information on a large screen to facilitate group-based training. The presentation device will be portable so that it can be used in both deployed and non-deployed environments.

2. Physical Description

a. Computer-Based Training. ICW, CAI, and CMI software is delivered on Compact Disk-Read Only Memory (CD-ROM). Plans are to eventually transition to the Web as bandwidth issues are resolved.

b. Aviation Maintenance Training Continuum System Software Module. ASM application software is installed and delivered on the host hardware (ATD).

c. Aviation Maintenance Training Continuum System Training Device and Computer Resource Requirements. Computer resources will comply with commercial form and fit standards. Computer resource Lowest Replaceable Units (LRU) will be of standard size and replaceable with off-the-shelf vendor products. Proprietary parts, equipment, and designs will be avoided when possible, however, LRU sub-components may contain proprietary parts such as processor chips and integrated circuits. The AEC computer components are the Instructor Station, Student Stations, network server, and network printer. Table G.1 in the ATD Integrated Logistics Support Plan (ILSP), V1.0-506, provides the ATD physical description and the associated software requirements.

d. Automated Electronic Classroom Physical Layout. The AEC layout will provide for an effective learning arrangement, which satisfies fire and safety regulations. The following requirements apply:

- Viewing depth from each student to the Presentation Device will be no less than two times the screen width and no greater than five times the screen width.
- Viewing angle of the Presentation Device from each Student Station will be no wider than 45 degrees from the center point of the screen to either outside edge of the Presentation Device.
- A minimum of 24 net square feet will be allocated for each student workspace.
- A minimum of three feet will be allocated between rows and aisles in the classroom.

3. New Development Introduction. The ATDs will be furnished to the Type Commanders (TYCOM) and distributed to the Type Wings for further distribution to the Fleet activities. The NUWC-DK installation team will provide on-site initial ASM operator and user training to Type Wing Fleet activities ashore and afloat and AIMD Maintenance Training Teams upon receipt and installation of the ASM application program and the FTD equipment. This training will be informal using the ASM and CBT System Utilization Handbooks, instruction manuals, configuration guides, user's manuals, software manuals, and installation guides provided with each system. ICW is being developed to support both initial and follow-on training requirements.

4. Significant Interfaces

a. External Interface Requirements. ICW and CAI functional requirements identify the need for the CBT courseware to be operational in a stand-alone mode with a LMS program or the ASM application program. CBT courseware delivered on CD-ROM must operate on any server/individual workstation computer meeting the minimum standards outlined in the user's manual.

b. Internal Interface Requirements. The ICW authoring tool for designing ICW identifies internal interface requirements. All ICW development should strive to use Object Oriented Programming to allow maximum "interactivity" within a lesson. Additionally, any CBT development effort commencing after FY01 shall be "Web-ready."

c. Aviation Maintenance Training Continuum System Software Module Application

(1) External Interface Requirements. ASM will be capable of performing required functions without external interface to any other system or subsystem. However, external interfaces have been identified for the purpose of sharing common data between systems.

The NALCOMIS interface will provide individual data relative to the number of times individuals have performed a task and the hours expended by personnel in performing specific tasks to ASM. Reference "Application for AMTCS Digital Tools Integration with the Afloat IT-21 Network" December 1999 document. The Standard Training Activity Support System/Navy Integrated Training Resource Administration System (STASS/NITRAS) interface will provide personal data (personnel information and historical training data), class schedules, and rosters as a minimum to ASM. The NTMPS interface will provide a repository to "warehouse" individual and program data. These interfaces are planned to be fully operational and seamless to the users by Version 2.0 of the ASM software.

(2) Internal Interface Requirements. The Conceptual Data Model (provided in Appendix C of the ILSP) depicts a high-level view of the internal interface requirements for the ASM database itself. Detailed identification of these internal requirements is included in the Software Design Document.

d. Aviation Maintenance Training Continuum System Training Device

(1) Automated Electronic Classroom

(a) External Interface Requirements. The AEC will be a self-contained subsystem capable of operation without external interface requirements to any other system or subsystem.

(b) Internal Interface Requirements. The AEC internal interfaces will provide for transfer of data files between the network server, Instructor, and Student Stations. Data files will contain audio, video, graphics, or text-based data.

(2) Aviation Maintenance Training Continuum System Training Device

(a) External Interface Requirements. The ATD will be capable of performing required functions without external interface requirements to any other system or subsystem.

(b) Internal Interface Requirements. The ATD will support manual and automated functions to transfer information between modes of operation. The ATD will support transfer of information via floppy disk, CD-ROM, the Web, or printed reports. DWs will have a network interface capability to perform electronic transfer of information.

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. The Navy and Marine Corps intend to use AMTCS to provide “just-in-time” training; technology, through integrated media and methodology, supporting initial skills training at the “A” School; weapon system-specific (T/M/S) training at the “C” School; Fleet OJT syllabus; and refresher training based on trainee and technician performance and evaluation. This will be accomplished by use of an integrated training system consisting of materials that can be used throughout an individual’s career, delivered on open-architecture hardware capable of interfacing with other personnel, maintenance, and training databases.

a. Computer-Based Courseware. CBT materials will be developed in multiple formats to support validated training requirements. Specific formats include, but are not limited to ICW, CAI, Intelligent Tutors, and simulators. These tools will greatly enhance technical training in the Fleet. Well-designed ICW will provide Fleet technicians with a high quality, formal means of training to support the in-service OJT training syllabi. The Fleet uses ICW training materials as individualized learning tools to reinforce cognitive skills and knowledge in a variety of maintenance subjects and training environments. Used as a reinforcement tool, ICW allows technicians the opportunity to refresh their knowledge of basic systems or to practice cognitive skills associated with the performance of specific tasks. ICW is also effectively used at the “A” and “C” Schools. ICW frees the instructor to concentrate on individuals requiring personal attention. Use of ICW as an “advance organizer” is ideal for courses that require lab periods or when waiting for the lab to become available.

When CAI is used for group-paced instruction, the instructor uses a computer to fully utilize motion, sound, and visual concepts during training. CAI provides the instructor with greater range and enhanced control of classroom media. Many video effects, including 3D modeling with animation, will be used where applicable. As technology progresses, the capabilities of CAI to further enhance the instructor’s ability to display complex concepts will increase likewise. This will enable the instructor to stimulate the technician’s senses more effectively. CAI enhances sensory elements of the instructional environment, while leaving the instructor in control of the instructional tempo. The more visual and aural senses are involved in the learning process, the greater the potential for retention.

b. Aviation Maintenance Training Continuum System Software Module. The primary objective of ASM is to enhance the quality of training at the schoolhouse and in the Fleet by providing the capability for real-time assessment and identification of individual training deficiencies and, then, recommending and providing the appropriate refresher training tools. The ASM application program monitors training progress and effectiveness down to the individual task level across the training continuum and functions as a testing, recording, and feedback system for training product data, information users, and managers. ASM's reporting capabilities exist as necessary to higher echelon commands such as Type Wings, TYCOMs, Office of the Chief of Naval Operations (OPNAV), and Commandant of the Marine Corps (CMC). In the Fleet, ASM is maintained at the shop level, administers an aviation maintenance technician's training progress, and is accessible on all ATDs.

c. Aviation Maintenance Training Continuum System Training Device. Fleet squadrons will be provided with ATDs and servers. The FTD will host the ASM application program and provide weapon-specific systems training to the technicians via the ICW and CAI training materials, which are accessible from various sources including LAN, WAN, or CD-ROM. The server configured with the ASM application will administer the squadron's technical training activities, uploading the training information from the work center PWs. The overall capabilities and functionality of the Fleet devices will be identical in shore and shipboard environments. The AECs will be capable of facilitating group-paced instruction, supported by CAI, ICW, a LMS program, and the ASM application program. The AAECs will be for self-paced study to supplement formal and refresher training. They will operate as a courseware repository, graphics depot, and development facility.

2. Maintenance Concept. Courseware and hardware Configuration Maintenance is implemented through the various processes established in the life cycle support plans. All activities will use the Training Tool Change Management System (TTCMS) software tool identify software and hardware concurrency issues and to facilitate the requisite changes.

a. Computer Based Courseware

(1) Operational and Functional Revisions. Revisions required as a result of changes in the operational and functional characteristics of a weapon system will be identified during the Engineering Change Proposal (ECP) or the Operational Safety Improvement Program (OSIP) reviews. NAVAIR (PMA205) will coordinate funding for courseware revisions concurrent with logistics support elements necessary to conduct weapon system changes.

(2) Desired Revisions. Revisions that are desired, but not the result of ECP/OSIP changes in the operational and functional characteristics of a weapon system, will be made by an Integrated Project Team consisting of subject matter experts from Maintenance Training Activities and AMTCS support personnel. Revisions will be made by the Curriculum Model Manager, and coordinated with other teaching locations and senior commands. Revisions will be incorporated on-site whenever practical. Revisions exceeding on-site capabilities will be forwarded to the designated Training Agent (TA)/Training Support Agency (TSA) for action. Once a revision has been completed, executables and their source files for weapon systems/platform specific CBT will be forwarded to NAMTRAGRU Headquarters. For non-weapon system/platform CBT, source

files will be retained by the developing activity or disposed of in accordance with guidance provided by the development activity's sponsor or claimant. NAMTRAGRU HQ will provide reproduction and distribution services as requested by the TA/TSA for all AMTCS CBT training materials.

(3) Source File Maintenance. NAMTRAGRU will be responsible for coordinating the review of updated courseware source files and providing necessary life cycle support materials for CBT materials. NAMTRAGRU will store all final and approved courseware source files for weapon system/platform specific CBT materials and provide them, upon request, to activities (contractor or government) performing future courseware revision and maintenance functions. These will be the only official files should CBT courseware configuration questions arise. NAMTRAGRU will be responsible for performing product quality assurance checks for ICW and CAI program compliance prior to the reproduction and distribution of any courseware.

b. Aviation Maintenance Training Continuum System Software Module. NAVAIR (PMA205) is responsible for the life cycle management and support of ASM. Currently, they are utilizing the program's Original Equipment Manufacturer OEM, NUWC Keyport, to perform revisions to the ASM application program. MTL database development and management for aircraft platforms/systems resides within the NAMTRAGRU. PMA205's Assistant Program Managers for Training Systems (APMTS) are responsible for ensuring the data within specific MTLs meet Fleet needs. Non-platform-specific MTLs are currently developed under OPNAV direction and management and life-cycle support activities will be identified as appropriate.

c. Aviation Maintenance Training Continuum System Training Device Maintenance Concept. Details of the ATD maintenance concept are available in the ATD User's Logistics Support Summary (ULSS), NUWC Document Number V1.0-506, for the initial installation and interim support periods. Maintenance for the ATD will consist of two levels: organizational and depot. NAVAIR (PMA205) has been designated as the life cycle support activity for all hardware and courseware materials. NUWC DK, as the (OEM), has been providing the depot level support under PMA205 guidance.

(1) Organizational Level. Organizational level repair will consist of removal and replacement of LRUs (i.e., CPU, monitor, keyboard, printer, etc.). No internal repair of LRUs will be authorized.

Each training facility will be provided with a spares kit containing mission-critical and high-failure items. The facility will use fault isolation techniques to locate the failed unit. Once the failed component is identified, the training facility will contact the designated ATD Customer Support Center to obtain technical assistance, report problems, or request parts replacement. The Customer Support Center will send a replacement and provide direction for the disposition of the failed unit.

In the Fleet, replacement ATDs will be maintained at the Type Wing for squadrons, and at the Aircraft Intermediate Maintenance Department (AIMD). Marine Aviation Logistics Squadrons (MALS) will maintain their own replacement ATDs. Designated Fleet personnel will contact the Customer Support Center for technical assistance to report problems or to order replacement ATDs

(a) Preventive Maintenance. Preventive maintenance will consist of scheduled system backups, periodic defragmentation of disk drives, and general cleaning. Maintenance actions will be identified in the applicable operations manuals.

(b) Corrective Maintenance. Corrective maintenance will consist of removing and replacing failed LRUs and rebuilding corrupted files. Detailed procedures will be documented in the applicable operations manuals.

(2) Intermediate Level. NA

(3) Depot Level. Depot level repair will consist of warranty management and equipment repair. NUWC DK will maintain appropriate repair and maintenance contracts as required to support training facilities and Fleet activities. NUWC DK will maintain an inventory of replacement parts for failed equipment and modules. Upon request, replacement LRUs will be shipped immediately to training facilities or Fleet activities in order to decrease their training downtime and replenish their LRU replacement kits.

3. Manning Concept. No unique or new skills will be required to operate and maintain the ASM, ICW, or CAI application. As a result, the ASM and ICW management will be operated and maintained by personnel in the existing Navy Officer Billet Code, Navy enlisted rating, and Marine Corps MOS structures as outlined in Part II of this NTSP.

Fleet squadron and work center ASM, ICW, and ATD management will be the responsibility of the AMO. Manpower requirements to support the AMTCS program are identified in Part II of this NTSP. Final analysis may identify additional manpower requirements pending ASM Operational Evaluation test results and the development of subsequent implementation and configuration plans for fielding and integrating the ASM application software. The requirement for an Aviation Maintenance Training Program Coordinator is anticipated to support existing and AMTCS requirements.

The workload associated with AMTCS CBTSI “Technology Infusion” initiative falls into the following categories:

- **Officers and Senior Enlisted** - Officer and senior enlisted personnel who supervise and manage the AMTCS unit training requirements.
- **Functional Operators and Managers** - Those personnel who use the ASM as a tool to accomplish training management and support tasks to carry out the unit’s essential training requirements. The job tasks associated with this activity reside with the squadron’s Training Petty Officer.
- **System Administrators** - Those personnel who operate the squadron’s LAN, assist functional operators and managers with network and software-related problems, and perform system administration and database administration duties. Job tasks for System Administrators fall within the Information Systems Technician (formerly Radioman) occupational specialty.

a. Estimated Maintenance Man Hour per Operating Hour/Flight Hour. NA

b. Proposed Utilization. ASM, ICW, and the ATDs will be used to support multiple training environments including, but not limited to, the following: group-paced instruction, self-paced instruction, and individual refresher and remediation.

c. Recommended Qualitative and Quantitative Manpower Requirements. For the Navy, the manpower currently in place to support MTIP will transition to support AMTCS initiatives. Billets at the Wing level have been established to provide each Type Wing with a training team whose responsibilities include the planning, development, and implementation of the MTIP process. Their responsibilities for the MTIP program are outlined in the NAMP. Table I-1 and Part II contain a compilation of the billet requirements at the Type Wing, NAMTRAU, NAMTRAGRUDET, and AIMD that are specifically designated by their title as MTIP support.

For the Marine Corps, Maintenance Training Management and Evaluation Program (MATMEP) Coordinator positions are filled as a collateral duty in each Marine aircraft squadron, MALS, Wing, etc. These MATMEP Coordinator positions are necessary and will continue to be required to support AMTCS initiatives for the Marine Corps. Duties associated with AMTCS are projected to require a dedicated billet to ensure adequate support.

TABLE I-1. CURRENT TRAINING/MATMEP BILLET REQUIREMENTS				
TITLE	GRADE	LANT	PAC	TOTALS
Maintenance Training Officers	O-3 – O-4	0	0	0
Administrators	E-7 – E-9	25	8	33
MTIP Coordinators and Instructors	E-5 – E-6	43	53	96
MATMEP Officers	W-3 – W-4	1	1	2
MATMEP Maintenance Training Model Managers	E-5 – E-9	13	8	21
MATMEP Coordinators	E-5 – E-9	63	90	153

MTIP site support personnel requirements for Type Wings and AIMDs (both ashore and afloat) that are currently used to support the MTIP will be used to support AMTCS initiatives. Although there is no standard MTIP billet structure at these activities, Tables I-2 and I-3, below, display requirements that are representative of the infrastructure that is currently in place at these activities to support the MTIP program. Table I-2 displays the typical Maintenance Training Team and Ashore AIMD requirements and Table I-3 displays the typical AIMD afloat requirements. These typical requirements will be reprogrammed to support the AMTCS initiatives.

TABLE I-2. MAINTENANCE TRAINING TEAM MANNING FOR TYPE WING AND ASHORE AIMD			
TITLE	GRADE	QUANTITY	DESIGNATOR, SERIES, OR NEC
Maintenance Training Officer	O-3 – O-4	1	1520, 1527, Limited Duty Officer
Instructional System Specialist	GS-12	1	1750
Administrator	E-7 – E-9	1	9502
MTIP Coordinators/Instructors	E-5 - E-6	2	9502

Table I-3 and Part II display the existing Marine Corps MATMEP manpower requirements.

TABLE I-3. MAINTENANCE TRAINING TEAM MANNING FOR AIMD AFLOAT			
TITLE	GRADE	QUANTITY	NEC
Administrator	E-7 – E-9	1	9502
MTIP Coordinators/Instructors	E-5 – E-6	2	9502

4. Training Concept

a. Initial Training

(1) Aviation Maintenance Training Continuum System Software Module

(a) Fleet. The NUWC-DK installation team will provide on-site initial ASM operator and user training to Type Wing Fleet activities ashore and afloat and AIMD Maintenance Training Teams upon receipt and installation of the ASM application program and the FTD equipment. This training will be informal using the ASM and CBT System Utilization Handbooks, instruction manuals, configuration guides, user’s manuals, software manuals, and installation guides provided with each system. ICW is being developed to support both initial and follow-on training requirements.

(b) Schoolhouse. Initial training will be provided to program operators and support personnel as outlined in ATD ULSS (NUWC Document Number V1.0-506).

The NUWC-DK installation team will conduct on-site training for instructors, operation, and support personnel. The training will include instruction on system operation and scheduled and corrective maintenance.

(2) Aviation Maintenance Training Continuum System Training Device

(a) Fleet. No formal or OJT initial training will be necessary. Use of the ATD will be easily learned through user manuals and help screens.

(b) Schoolhouse. Initial training will be provided for instructors, operators, and support personnel as outlined in ATD ILSP (NUWC Document Number V1.0-506). The NUWC-DK installation team will conduct on-site training for these personnel. The training will include instruction on system operation and preventive and corrective maintenance.

b. Follow-on Training

(1) Computer-Based Training Courseware

(a) Fleet. CBT courseware for technicians will be accessible on ATDs and is delivered on CD-ROMS. User Handbooks and help files will be provided by CBT developers.

(b) Schoolhouse. CBT courseware will be hosted on LAN Servers and will be accessible on Instructor Stations and Student Stations. Instructor training in the methodologies of using the new Training Devices will be provided via In-Service Training at the training activity. Training for staff personnel in development, revision, and maintenance of courseware will be provided by the on-site Field Training Specialist and regional development centers.

(2) Aviation Maintenance Training Continuum System Software Module

(a) Fleet. Follow-on ASM training will be accomplished via OJT using the accompanying AMTCS and CBT System Utilization Handbooks, instruction manuals, configuration guides, user's manuals, software manuals, and installation guides.

(b) Schoolhouse. Follow-on training will be the responsibility of the AMTCS ATD System Administrator. System Administrator training is the responsibility of NAMTRAGRU Training Continuum Department.

(3) Aviation Maintenance Training Continuum System Training Device

(a) Fleet. Follow-on ATD training will be accomplished via OJT using the accompanying AMTCS and CBT System Utilization Handbooks, instruction manuals, configuration guides, user's manuals, software manuals, and installation guides.

(b) Schoolhouse. Follow-on training will be the responsibility of the AMTCS ATD System Administrator. System Administrator training is the responsibility of NAMTRAGRU.

c. Student Profiles. NA

d. Training Pipelines. NA

I. ONBOARD (IN-SERVICE) TRAINING. In-Service Training is a major contributor to the Navy's overall training effort. Lectures and practical training are integral parts of a successful program and must be coordinated to satisfy each individual activity's particular requirements. Remedial training requirements are identified through ASM diagnostic testing and are an integral component of the unit's In-Service Training.

Formal In-Service Training is conducted through lectures supplemented with required reading. This type of In-Service Training focuses on the individual. Designated Officers, Petty Officers, Staff Noncommissioned Officers, and Navy Technical and Engineering Service Command (NATEC) personnel will prepare formal lectures when so directed by the AMO. Instructors are usually detailed from the maintenance department and are responsible for presentations and reports of student progress.

Informal training is conducted via OJT. OJT is the practical training of personnel in the performance of maintenance tasks, by demonstration and simulation, under the supervision of designated, qualified personnel. Experienced personnel are used in instructing, demonstrating, and imparting their skills to the less experienced. Only the job and tools are required to perform OJT. The striker or trainee learns by seeing the job done and gains experience by participating in the work. A report of completed practical training is made to Division Officers at regular intervals and final attainment of satisfactory skill levels is recorded in appropriate records. The records indicate required training in special areas, document OJT completed, and certify qualifications for the individual's advancement in rate.

The Reserve Job Qualification Requirement Program creates and implements standardized OJT syllabi that satisfy the training requirements for OJT-awardable NECs for aviation selected reservists.

1. Proficiency or Other Training Organic to the New Development. Onboard proficiency training will use the ASM Software User Manual and the CBT System Utilization Handbooks, which will be available at each site. Multimedia training packages in the form of ICW or video are being considered.

a. Aviation Maintenance Training Continuum System. As outlined previously and in-depth, the CBTSI "Technology Infusion" initiative is designed to support the Fleet and schoolhouse training requirements as outlined in the NAMP and any additional requirements identified through the Front-End Analysis in the Instructional Systems Development process. By providing state-of-the-art tools, AMTCS will support refresher training for maintenance personnel

who have been working outside their rating for an extended period, Fleet OJT syllabus, and administrative support for the In-Service Training process.

b. Aviation Training Improvement Program. The Aviation Training Improvement Program is a training management system, which, through diagnostic testing procedures, identifies training deficiencies for Naval Air Reserve Force personnel. The program is compatible with MTIP and is supported by the Reserve Training Support System.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. MATMEP is a Marine Corps-peculiar program that offers standardized, documentable, level-progressive, technical skills training management and evaluation for enlisted aviation MOSs. MATMEP is intended to be a dynamic and progressive program that increases maintenance productivity by increased training efficiency and effectiveness. MATMEP identifies the tasks, skills, and knowledge requirements of each MOS.

J. LOGISTICS SUPPORT. Life cycle support requirements will be documented in the appropriate Logistics Support Plans (LSP) or ULSS. These comprehensive documents will address life cycle maintenance issues for both hardware and software: Training Tool Change Management System (TTCMS), AMTCS CBT products (ICW, CAI, etc.), COTS/GOTS Software, ASM application software, FTD, and Advanced/Introductory AEC trainers.

1. Manufacturer and Contract Numbers. NAVAIR has designated NUWC-DK as the OEM for ATD hardware procurement. As such, they will provide the logistics support for all hardware.

Currently, there are three active contracts in place to provide the CBT courseware (ICW and CAI) for F-14, SH-60, S-3, EA-6B, E-6, H-53, H-1, H-46, F/A-18, and selected support equipment. Additional contracts for CBT courseware for other aircraft will be awarded as the CBTS program progresses.

TABLE I-4. COMPUTER-BASED TRAINING COURSEWARE CONTRACTS		
CONTRACT NUMBER	CONTRACTOR	ADDRESS
N00600-97-D-0161	Advanced Engineering and Research Associates (AERA), Inc.	1919 South Eads Street Suite 400 Arlington, VA 22202
N00600-97-D-1594	Lockheed Martin Tactical Systems Company	1210 Massillon Road Akron, OH 44315

TABLE I-4. COMPUTER-BASED TRAINING COURSEWARE CONTRACTS		
CONTRACT NUMBER	CONTRACTOR	ADDRESS
N00600-97-D-1595	Logistics Services International (LSI), Inc.	6200 Lake Gray Boulevard Jacksonville, FL 32244

2. Program Documentation. Several program documents have been developed by NUWC-DK for various aspects of the AMTCS. These include:

- ILSP for the ATD, Version A, V1.0-506, dated October 1998
- Configuration Management Plan for the ATD, V2.0-515, dated December 1999
- User’s Logistics Support Summary (ULSS) for the AMTCS, V2.0-516, dated December 1999
- OEM Technical Management Plan for the ATD, V1.0-501, dated January 1997
- Test and Validation Plan for the ATD, V2.0-504, dated August 1997

3. Technical Data. To be responsive to the dynamics of weapon and training system changes, management of Technical Data for Life Cycle Support is a critical task for the program manager. Requirements for Life Cycle Maintenance data include Course Conduct Information Package, Training Conduct Support Document, Instructional Performance Requirements Document, Instructional Media Requirements Document, Instructional Media Design Package, and other source information used in the development of instructional materials including the MTLs. The management of this information includes the archiving (warehousing) of the technical data in readily accessible repositories.

4. Test Sets, Tools, and Test Equipment

a. Life Cycle Management Tools. The TTCMS was designed to facilitate the submission and tracking of changes recommended to AMTCS computer-based training products (ICW, CAI, etc.), COTS/GOTS Software, ASM application software, ATD and Advanced/Introductory AEC trainers. The NAVAIR sponsored LRFS, located at the <https://www.nalda.navy.mil> web page, will be integrated with TTCMS and other applicable databases to support the identification of the total life cycle support requirement.

b. Instructional System Development Tools. The application of proven ISD principles in the design and development of all training tools require a thorough Front-End Analysis (FEA) and media selection process. This is imperative whether a training course is a new development or is under a conversion revision process. The acquisition and use of automated analysis tools (COTS/GOTS) to facilitate the ISD/FEA process, i.e., Training System Requirement Analysis (TSRA) Program or Media Selection tool will greatly enhance the effort.

c. Software Support Activities. The following organizations are listed as the responsible Software Support Activities (SSA) for the corresponding application tools and technical data management:

- **NAMTRAGRU** – All CBT courseware materials ICW, CAI, MTLs (Technical/Soft Skills), ASM ICW Tool, ISD Media Selection Tool
- **NUWC-DK** – ASM, TTCMS, LMS, Operating/Network Systems for ATDs

5. Replacement Aviation Maintenance Training Continuum System Training Device. Each primary site (i.e., Type Wing, NAMTRAGRU, AIMD, MALS) will be supplied with replacement ATD spares to decrease down-time associated with hardware failure. Failed equipment and modules will be shipped to NUWC-DK or its designated repair facility for repair or replacement. Replacement or replenishment of the replacement ATDs will be shipped back to the site by NUWC-DK. Site replacement ATDs will be continually replenished from OEM spares to maintain Operational Availability (A_0).

The system consists entirely of COTS and Commercial And Non Developmental Item (CANDI) hardware; therefore, a redesign remedy for defects is impractical. The continuous upgrade of hardware in the field is expected to provide a retrofit remedy for defects. System components will be procured as replacements to ensure Operational Availability is maintained.

It is estimated that a new generation of technology may appear as frequently as every 12 to 18 months. Semi-annually, NUWC-DK will perform a market search to determine if any currently used COTS or CANDI components are scheduled to be modified or discontinued. If an item is to be discontinued or modified from a market line, NUWC-DK will generate an analysis report that identifies the optimal solution(s) and make a recommendation to the Program Manager on the best course of action.

Potential ATD upgrades and enhancements will be tested by NUWC-DK to determine compatibility with existing ATDs and to fully evaluate the impact of the potential upgrade. Once the Training Device Configuration Control Board has approved an upgrade or enhancement, a Physical and Functional Configuration Audit will be conducted at NAMTRAGRU Headquarters on the First Articles prior to distribution to user activities.

NAVAIR PMA205 has life cycle support responsibility for all resources associated with maintenance, modification, sustainment, and technology refreshment requirements of the AMTCS suite of e-tools including hardware and software.

The TTCMS has been developed to facilitate the submission and tracking of changes recommended to AMTCS computer-based training products (ICW, CAI), COTS/GOTS software, ASM, ATDs and AECs.

6. Human Systems Integration. Modern equipment design practices are used wherever possible in new equipment manufacture to ensure the best possible product for the warfighter. The Human Systems Integration (HSI) Plan establishes the basis for effective integration of

human factors engineering; personnel; habitability; manpower; training; environment, safety, and health; and survivability considerations into the AMTCS acquisition, as outlined in Department of Defense Interim Guidance of 30 October 2002, titled Defense Acquisition.

The Department of Defense Interim Guidance ensures that for all programs regardless of Acquisition Category (ACAT), the Program Manager (PM) shall initiate a comprehensive strategy for HSI early in the acquisition process to minimize ownership costs and ensure that the system is built to accommodate the human performance characteristics of the user population that will operate, maintain, and support the system. The PM shall work with the human factors engineering; personnel; habitability; manpower; training; environment, safety, and health; and survivability communities to translate the HSI thresholds and objectives in the Operational Requirements Document into quantifiable and measurable system requirements. The PM shall include these requirements in specifications, the Test and Evaluation Master Plan, and other program documentation, as appropriate, and use them to address HSI in the statement of work and contract. The PM shall identify any HSI-related schedule or cost issues that could adversely impact program execution.

Besides simply expanding Fleet access to training materials, the capability of modern technology to deliver sophisticated system simulations presents new challenges to the training community. Providing access also exposes the system to risk. Possible threats include, but are not limited to, system damage from untrained or unauthorized users, system security compromised by poor password management practices, intrusion by hackers, denial-of-service attacks by worm and virus code, and collection of useful information by adversaries and foreign competitors. Knowledge and skill will be needed to efficiently and safely utilize authorized IT resources to provide “24x7,” on-demand access by the Fleet user community.

Guidelines for achieving Information Superiority are also outlined in the Department of Defense Interim Guidance of 30 October 2002. In order to safeguard the integrity, security, and reliability of Navy Marine Corps Intranet and other DoD network infrastructure while providing Fleet training capability, it is reasonable to expect that some training will necessarily be required for the local AMTCS Administrator. Effective management of a rapidly growing inventory of increasingly sophisticated training data (such as “knowledge management” intelligent tutoring programs) will require both a thorough knowledge of AMTCS system operation and familiarity with resident courseware.

For AMTCS to succeed, and to avoid wasting precious acquisition dollars, the principles of Human Systems Integration (HSI) must be integrated into product design to ensure that AMTCS systems operation is manageable by the personnel assigned to run it. If Fleet activity AMTCS system administration is to be an assigned “collateral duty” billet or to have no formal training (no NEC assigned), then it is vitally important to the success of the program that both training courseware and administrative software be as “user friendly” as possible, while still meeting all performance criteria required by both the individual and the organization.

K. SCHEDULES

1. Installation and Delivery Schedules. The CBT platform priorities and milestones for implementation were established by the Chief of Naval Operations (CNO) (N789H) based on inputs received from the TYCOMS, and are shown in Figure I-3, below. ASM will be delivered in conjunction with the CBT development priority schedule; refer to the ASM Implementation Plan (Draft).

2. Ready For Operational Use Schedule. Software will be installed at NUWC-DK Keyport, the integration activity. The system will be ready for operational use upon receipt and installation at each site. Organizational AMTCS status data will be updated in future revisions to this NTSP as information is provided.

3. Time Required to Install at Operational Sites. The time required to install software and hardware will vary from site to site. All required software will be installed prior to shipment to the operational sites. Each site will install and configure the hardware in the appropriate work centers, at which time the system will be ready for operational use.

4. Foreign Military Sales and Other Source Delivery Schedule. For information regarding the FMS program, contact PMA205.

5. Training Device and Technical Training Equipment Delivery Schedule. Platform projected start and completion dates are listed in Figure I-3 below.

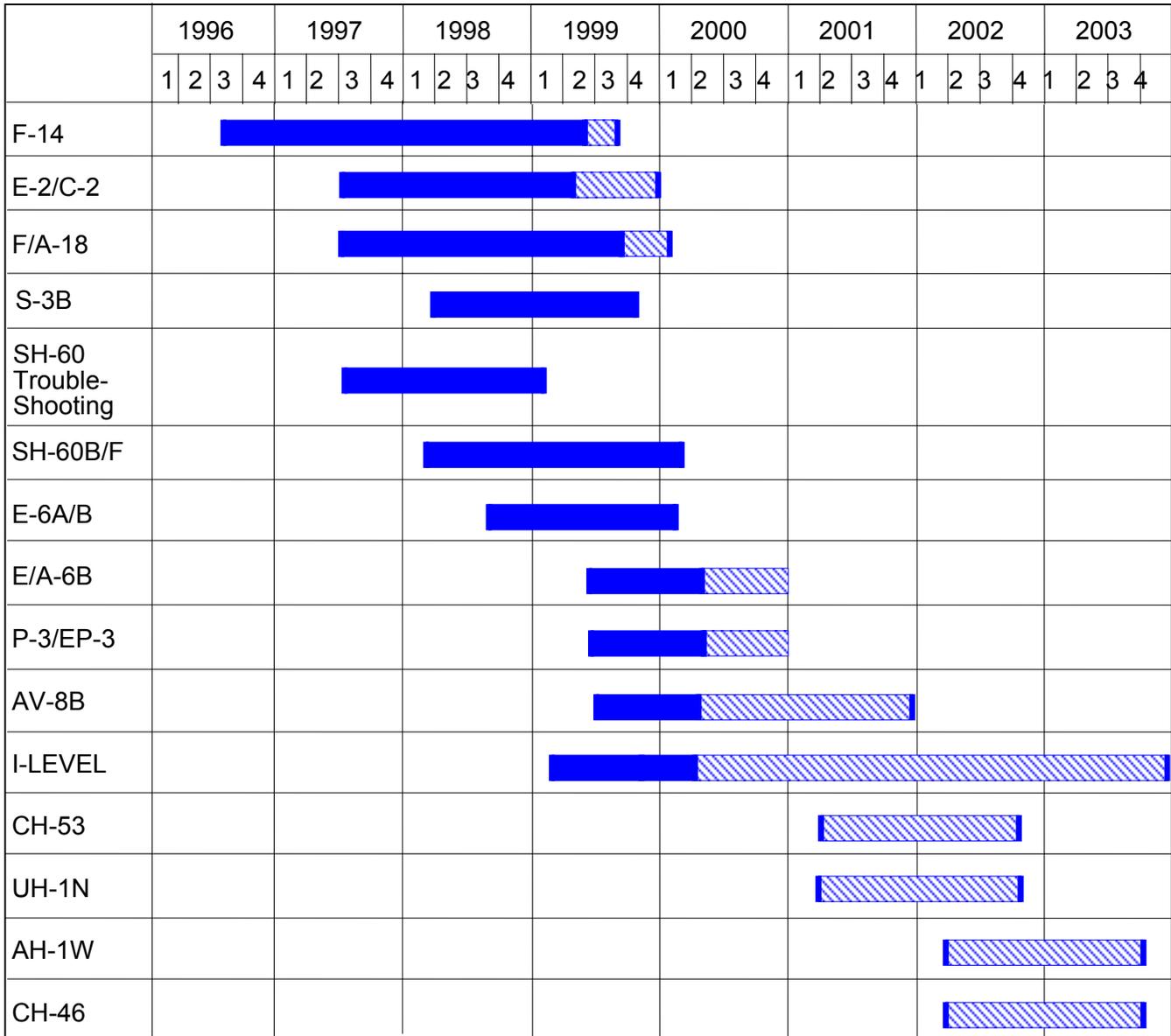


FIGURE I-3. CBTSI BY PLATFORM BY FISCAL YEAR



Additional Aviation Maintenance Training Continuum System Training Device delivery schedule:

ACTIVITY	PFYs	FY02	FY03	FY04	FY05	FY06
ATDs for Operational Activities:						
NAS Oceana (F-14)	0	126	15	0	0	0
NAS Oceana (VF-101)	0	0	21	0	0	0
NAS Oceana (VFA-106)	0	0	16	0	0	0
NAS Norfolk (VAW-120 and VAW-78)	0	0	19	0	0	0
NAS Point Mugu (VAW-117)	0	0	9	0	0	0
MCAS Beaufort (VMFA-533)	0	0	14	0	0	0
NAS Norfolk (E-2/C-2)	0	0	96	0	0	0
NAS New Orleans (4th MAW)	0	0	1	0	0	0
NAS Oceana (F/A-18 Strike Wing Lant)	0	0	1	0	0	0
NAS Jacksonville (COMWINGLANT)	0	0	1	0	0	0
TOTAL:	0	126	193	0	0	0
ATDs FOR Fleet Support Activities						
NAMTRAU Oceana	23	0	13	0	0	0
NAMTRAU Norfolk	9	8	9	0	0	0
NAMTRAU Lemoore	25	1	1	0	0	0
NAMTRAGRU DET Tinker AFB	8	1	0	0	0	0
NAMTRAGRU DET Mayport	8	4	1	0	0	0
NAMTRAU North Island	28	6	10	0	0	0
NAMTU North Island DET Miramar	3	0	1	0	0	0
NAMTRAU Jacksonville	27	4	3	0	0	0
NAMTRAGRU DET Cherry Point	17	3	1	0	0	0
NAMTRAGRU DET Point Mugu	7	1	1	0	0	0
NAMTRAU Whidbey Island	19	1	5	0	0	0
NAMTRAGRU DET Milton	0	4	0	0	0	0
NAMTU Camp Pendleton	3	5	1	0	0	0
TOTAL:	177	38	46	0	0	0

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

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Configuration Management Plan for the ATD	NUWC-DK Document Number V2.0-515	PMA2053D	Approved Dec 99
Integrated Logistics Support Plan (ILSP) for the Management of the ATD	NUWC-DK Document Number V1.0-506	PMA2053D	Approved Jun 97
Computer Based Training Systems Initiative (CBTSI)	Training Device Requirements Document	PMA2053D	Approved 29 Feb 96
Training Device System Specification for the Aviation Maintenance Training Continuum System (AMTCS)	NUWC DK 200	PMA2053D	Approved Sep 00
Test and Validation Plan for the Aviation Maintenance Training Continuum System Training Device	NUWC DK Document V2.0-504	PMA2053D	Approved Aug 97
User's Logistics Support Summary (ULSS) for the Aviation Maintenance Training Continuum System (AMTCS)	NUWC DK Document V2.0-516	PMA2053D	Approved Dec 99
Training Tool Change Management System (TTCMS) Procedures	NAMTRAGRUNOTE 1500	NAMTRAGRU HQ	Approved Jan 01
Logistics Requirements and Funding Summary (LRFS) vs 4	nalda.navy.mil	NAVAIR	Approved Dec 96
OEM Technical Management Plan for the AMTCS Training Device	NUWC-DK Document Number V1.0-501	PMA2053D	Preliminary Jan 97

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
AMIST Implementation Strategy	NA	PMA205	Approved Oct 95
Concept of Operations for AMTCS Integrated Training Data Environment	NA	OPNAV N789H	Draft May 99
Application for AMTCS Digital Tools Integration with the Afloat It-21 Network	NA	PMA205	In Progress Dec 99
Maintenance Training Improvement Program	COMNAVAIROPAC- INST 1543.1B	PMA205	Approved Oct 95
Maintenance Training Improvement Program	COMNAVAILANT- INST 1510.22B	PMA205	Approved Sep 94
ASM Implementation Plan	NA	PMA2053D	Draft Sept 02

PART II - BILLET AND PERSONNEL REQUIREMENTS

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

II.A. Billet Requirements

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A.4. Chargeable Student Billet Requirements

II.B. Personnel Requirements

II.B.1. Annual Training Input Requirements

Note 1: Element II.A.1.b contains aviation commands, while those billets listed in Element II.A.1.c are currently collateral duty billets.

Note 2: H-46: The Navy is phasing out the CH-46 Helicopter and transitioning to the MH-60S Multi-Mission Helicopter during the timeframe covered by this NTSP. No specific date has been established for the termination of Navy H-46 training. The first Navy MH-60S squadrons have become operationally ready in FY02 with completion of the Navy transition to the MH-60S currently scheduled for FY06. HC-3 will not decommission, but will become the West Coast MH-60 training squadron. An East Coast MH-60 training squadron will stand up in Norfolk. Information will be updated in future revisions to this NTSP.

Note 3: SH-60B/F: H-60 LAMPS squadrons will transition the new ASW version of the MH-60 Multi-Mission Helicopter, the MH-60R. Helicopter squadron reorganization will be updated in future revisions to this NTSP.

Note 4: F-14: Naval Strike Aircraft Test Squadron, Naval Weapons Test Squadron, and COMSTRKFITWINGPAC DET EI Centro, California (formerly Medium Attack Weapons Detachment) are composite squadrons or activities that employ more than one type of aircraft. Pilots and NFOs attached to these units are qualified for several aircraft types; therefore, only F-14 specific maintenance billets are included for these activities.



PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

SOURCE OF SCHEDULE: Navy Training Management and Planning System

DATE: Sep 2000

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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
OPERATIONAL ACTIVITIES - USN							
COMAEWWINGLANT	09052	1	0	0	0	0	0
COMFITWINGLANT	09216	1	0	0	0	0	0
COMHELTACWINGLANT	44890	1	0	0	0	0	0
COMHSLWINGLANT	55212	1	0	0	0	0	0
COMHSWINGLANT	52956	1	0	0	0	0	0
COMPATRECONFORLANT	39555	1	0	0	0	0	0
COMPATRECONWING 11	09461	1	0	0	0	0	0
COMPATRECONWING 5	53823	1	0	0	0	0	0
COMSEACONWINGLANT	52955	1	0	0	0	0	0
COMSTRKFITWINGLANT	09103	1	0	0	0	0	0
HC-2	09212	1	0	0	0	0	0
HC-4	52959	1	0	0	0	0	0
HC-4 (Shore Component)	55248	1	0	0	0	0	0
HC-6 (Sea Component)	0381A	1	0	0	0	0	0
HC-6 (Shore Component)	31242	1	0	0	0	0	0
HC-8 (Sea Component)	55219	1	0	0	0	0	0
HC-8 (Shore Component)	55218	1	0	0	0	0	0
HM-14	53827	1	0	0	0	0	0
HM-15	55201	1	0	0	0	0	0
HS-11	09954	1	0	0	0	0	0
HS-15	09205	1	0	0	0	0	0
HS-3	09163	1	0	0	0	0	0
HS-5	09488	1	0	0	0	0	0
HS-7	09988	1	0	0	0	0	0
HSL SH-60B Fleet DETS (10 Each - East)	00000	40	0	0	0	0	0
HSL-40 FRS	53912	1	0	0	0	0	0
HSL-42	53913	1	0	0	0	0	0
HSL-44	53975	1	0	0	0	0	0
HSL-46	53916	1	0	0	0	0	0
HSL-48	53918	1	0	0	0	0	0
Navy Rotary Wing Test Squadron	39784	1	0	0	0	0	0
VAW-120	09527	1	0	0	0	0	0
VAW-121	09467	1	0	0	0	0	0
VAW-123	09477	1	0	0	0	0	0
VAW-124	09526	1	0	0	0	0	0
VAW-125	09922	1	0	0	0	0	0
VAW-126	09963	1	0	0	0	0	0
VC-6 (Shore Component)	46550	1	0	0	0	0	0
VC-8	09948	1	0	0	0	0	0
VF-101 DET	47788	1	0	0	0	0	0
VF-101	09067	1	0	0	0	0	0
VF-103	09718	1	0	0	0	0	0



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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
VF-11	09560	1	0	0	0	0	0
VF-143	09281	1	0	0	0	0	0
VF-154	09678	1	0	0	0	0	0
VF-2	09113	1	0	0	0	0	0
VF-211	09086	1	0	0	0	0	0
VF-213	09934	1	0	0	0	0	0
VF-31	09473	1	0	0	0	0	0
VF-32	09053	1	0	0	0	0	0
VFA-105	65183	1	0	0	0	0	0
VFA-106 FRS	09679	1	0	0	0	0	0
VFA-106 (Neutral Duty)	49119	1	0	0	0	0	0
VFA-11	09560	0	1	0	0	0	0
VFA-131	63934	1	0	0	0	0	0
VFA-136	55141	1	0	0	0	0	0
VFA-15	09015	1	0	0	0	0	0
VFA-174 (FRS)	09088	0	0	0	1	0	0
VFA-34	09070	1	0	0	0	0	0
VFA-37	09478	1	0	0	0	0	0
VFA-41	09774	0	1	0	0	0	0
VFA-81	09221	1	0	0	0	0	0
VFA-82	09122	1	0	0	0	0	0
VFA-83	09223	1	0	0	0	0	0
VFA-86	09943	1	0	0	0	0	0
VFA-87	63922	1	0	0	0	0	0
VFA-97	63923	0	0	0	1	0	0
VP-10	09639	1	0	0	0	0	0
VP-16	09229	1	0	0	0	0	0
VP-26	09610	1	0	0	0	0	0
VP-30	09047	1	0	0	0	0	0
VP-45	09665	1	0	0	0	0	0
VP-5	09630	1	0	0	0	0	0
VP-8	09661	1	0	0	0	0	0
VPU-1	53869	1	0	0	0	0	0
VQ-2 DET (Sea Duty)	53873	1	0	0	0	0	0
VRC-40	09303	1	0	0	0	0	0
VS-22	09287	1	0	0	0	0	0
VS-24	09629	1	0	0	0	0	0
VS-30	09226	1	0	0	0	0	0
VS-31	09572	1	0	0	0	0	0
VS-32	09353	1	0	0	0	0	0
VX-1	55600	1	0	0	0	0	0
COMAEWWINGPAC	55634	1	0	0	0	0	0
COMFAIRWESTPAC	09356	1	0	0	0	0	0
COMHELTACWINGPAC	55635	1	0	0	0	0	0
COMHSLWINGPAC	55630	1	0	0	0	0	0
COMHSWINGPAC	55636	1	0	0	0	0	0
COMNAVTESTWINGPAC	39786	1	0	0	0	0	0
COMPATRECONFOPAC	09517	1	0	0	0	0	0
COMPATRECONWING 10	55165	1	0	0	0	0	0



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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
COMSEACONWINGPAC	55633	1	0	0	0	0	0
COMSTRATCOMMWING ONE	55575	1	0	0	0	0	0
COMSTRKFITWINGPAC DET EI Centro	55257	1	0	0	0	0	0
COMSTRKFITWINGPAC DET Fallon	55153	1	0	0	0	0	0
COMSTRKFITWINGPAC	09520	1	0	0	0	0	0
COMVAQWINGPAC	55627	1	0	0	0	0	0
HC-11	53920	1	0	0	0	0	0
HC-3 FRS	09822	1	0	0	0	0	0
HC-5 IMMSD	44310	1	0	0	0	0	0
HC-5	09823	1	0	0	0	0	0
HS-10 FRS	09299	1	0	0	0	0	0
HS-14	09209	1	0	0	0	0	0
HS-2	09372	1	0	0	0	0	0
HS-4	09164	1	0	0	0	0	0
HS-6	09950	1	0	0	0	0	0
HS-8	09951	1	0	0	0	0	0
HSL-37	52873	1	0	0	0	0	0
HSL-41 FRS	55138	1	0	0	0	0	0
HSL-43	53914	1	0	0	0	0	0
HSL-45	53915	1	0	0	0	0	0
HSL-47	53917	1	0	0	0	0	0
HSL-49	53919	1	0	0	0	0	0
HSL-51	55584	1	0	0	0	0	0
VAQ-128	55676	1	0	0	0	0	0
VAQ-129 FRS	09995	1	0	0	0	0	0
VAQ-130	09289	1	0	0	0	0	0
VAQ-131	09364	1	0	0	0	0	0
VAQ-132	09615	1	0	0	0	0	0
VAQ-133	09969	1	0	0	0	0	0
VAQ-134	09970	1	0	0	0	0	0
VAQ-135	09971	1	0	0	0	0	0
VAQ-136	09973	1	0	0	0	0	0
VAQ-137	09996	1	0	0	0	0	0
VAQ-138	09199	1	0	0	0	0	0
VAQ-139	09200	1	0	0	0	0	0
VAQ-140	53806	1	0	0	0	0	0
VAQ-141	53807	1	0	0	0	0	0
VAQ-142	55140	1	0	0	0	0	0
VAQ-143	55199	0	0	1	0	0	0
VAW-112	09458	1	0	0	0	0	0
VAW-113	09459	1	0	0	0	0	0
VAW-115	09463	1	0	0	0	0	0
VAW-116	09465	1	0	0	0	0	0
VAW-117	09985	1	0	0	0	0	0
VFA-102	09717	1	0	0	0	0	0
VFA-102	09717	0	1	0	0	0	0
VFA-113	09092	1	0	0	0	0	0
VFA-115	09604	1	0	0	0	0	0
VFA-122 FRS	09355	1	0	0	0	0	0



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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
VFA-125 FRS	09485	1	0	0	0	0	0
VFA-137	55142	1	0	0	0	0	0
VFA-14	09084	0	1	0	0	0	0
VFA-14	09084	1	0	0	0	0	0
VFA-146	09063	1	0	0	0	0	0
VFA-147	63925	1	0	0	0	0	0
VFA-151	09558	1	0	0	0	0	0
VFA-192	09076	1	0	0	0	0	0
VFA-195	09706	1	0	0	0	0	0
VFA-22	09561	1	0	0	0	0	0
VFA-25	09637	1	0	0	0	0	0
VFA-27	65185	1	0	0	0	0	0
VFA-41	09774	1	0	0	0	0	0
VFA-94	09295	1	0	0	0	0	0
VFA-97	63923	1	0	0	0	0	0
VP-1	09618	1	0	0	0	0	0
VP-4	09623	1	0	0	0	0	0
VP-40	09674	1	0	0	0	0	0
VP-46	09632	1	0	0	0	0	0
VP-47	09600	1	0	0	0	0	0
VP-9	09644	1	0	0	0	0	0
VPU-2	09244	1	0	0	0	0	0
VQ-1 DET Misawa	09081	1	0	0	0	0	0
VQ-1	09930	1	0	0	0	0	0
VQ-3 DET Offutt	55677	1	0	0	0	0	0
VQ-3 DET Travis	47294	1	0	0	0	0	0
VQ-3	09923	1	0	0	0	0	0
VQ-4 DET Pax River	49403	1	0	0	0	0	0
VQ-4	09962	1	0	0	0	0	0
VQ-7	47372	1	0	0	0	0	0
VRC-30 DET 5 Atsugi	39491	1	0	0	0	0	0
VRC-30	09607	1	0	0	0	0	0
VS-21	09739	1	0	0	0	0	0
VS-29	09204	1	0	0	0	0	0
VS-33	09263	1	0	0	0	0	0
VS-35	09345	1	0	0	0	0	0
VS-38	09192	1	0	0	0	0	0
VS-41 FRS	09298	1	0	0	0	0	0
VX-9 DET Point Mugu	09830	1	0	0	0	0	0
VX-9	55646	1	0	0	0	0	0
TOTAL:		212	4	1	2	0	0
FLEET SUPPORT ACTIVITIES - USN							
AIMD MCAS Beaufort (SEAOPDET)	46961	1	0	0	0	0	0
AIMD NAF Mayport	45459	1	0	0	0	0	0
AIMD NAS Brunswick	44314	1	0	0	0	0	0
AIMD NAS Corpus Christi	30244	1	0	0	0	0	0
AIMD NAS Jacksonville	44319	1	0	0	0	0	0
AIMD NAS Jacksonville (SEAOPDET)	46965	1	0	0	0	0	0



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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
AIMD NAS Keflavic, Iceland	44335	1	0	0	0	0	0
AIMD NAS Key West	44320	1	0	0	0	0	0
AIMD NAS Norfolk	44325	1	0	0	0	0	0
AIMD NAS Oceana	44327	1	0	0	0	0	0
AIMD NAS Oceana (SEAOPDET)	46963	1	0	0	0	0	0
AIMD NAS Sigonella DET Rota Spain	44374	1	0	0	0	0	0
AIMD NAS Sigonella, Italy	44330	1	0	0	0	0	0
AIMD NS Norfolk (SEAOPDET)	46966	1	0	0	0	0	0
AIMD NS Roosevelt Roads, Puerto Rico	44373	1	0	0	0	0	0
CV-67 USS John F. Kennedy AIMD	03367	1	0	0	0	0	0
CVN-65 USS Enterprise AIMD	03365	1	0	0	0	0	0
CVN-68 USS Nimitz AIMD	03368	1	0	0	0	0	0
CVN-69 USS Dwight D. Eisenhower AIMD	03369	1	0	0	0	0	0
CVN-71 USS Theodore Roosevelt AIMD	21247	1	0	0	0	0	0
CVN-73 USS George Washington AIMD	21412	1	0	0	0	0	0
CVN-75 USS Harry S. Truman AIMD	21853	1	0	0	0	0	0
LHA-2 USS Saipan AIMD	20632	1	0	0	0	0	0
LHA-4 USS Nassau AIMD	20725	1	0	0	0	0	0
LHD-1 USS Wasp AIMD	21560	1	0	0	0	0	0
LHD-3 USS Kearsarge AIMD	21700	1	0	0	0	0	0
LHD-5 USS Bataan AIMD	21879	1	0	0	0	0	0
MCS-12 USS Inchon AIMD	20009	1	0	0	0	0	0
AIMD MCB Kaneohe Bay	44312	1	0	0	0	0	0
AIMD NAF Atsugi DET Iwakuni	49340	1	0	0	0	0	0
AIMD NAF Atsugi, Japan	44323	1	0	0	0	0	0
AIMD NAF Diego Garcia	44337	1	0	0	0	0	0
AIMD NAF Misawa, Japan	44331	1	0	0	0	0	0
AIMD NAS Fallon	44317	1	0	0	0	0	0
AIMD NAS Lemoore	44321	1	0	0	0	0	0
AIMD NAS Lemoore (SEAOPDET)	46964	1	0	0	0	0	0
AIMD NAS North Island	44326	1	0	0	0	0	0
AIMD NAS North Island (SEAOPDET)	46968	1	0	0	0	0	0
AIMD NAS Point Mugu	44328	1	0	0	0	0	0
AIMD NAS Point Mugu (SEAOPDET)	46967	1	0	0	0	0	0
AIMD NAS Whidbey Island	44329	1	0	0	0	0	0
AIMD NAS Whidbey Island (SEAOPDET)	46967	1	0	0	0	0	0
AIMD NAS Whidbey Island (VAN OPDET)	31179	1	0	0	0	0	0
Commander, Fleet Activities, NAF Okinawa,	62254	1	0	0	0	0	0
CV 63 USS Kitty Hawk AIMD	03364	1	0	0	0	0	0
CV 64 USS Constellation AIMD	03364	1	0	0	0	0	0
CVN 68 USS Nimitz AIMD	03368	1	0	0	0	0	0
CVN 70 USS Carl Vinson AIMD	20993	1	0	0	0	0	0
CVN 72 USS Abraham Lincoln AIMD	21297	1	0	0	0	0	0
CVN 74 USS John C. Stennis AIMD	21847	1	0	0	0	0	0
CVN 76 USS Ronald Reagan AIMD	22178	0	1	0	0	0	0
Fleet Maritime Patrol MMF Charlie, Misawa	68704	1	0	0	0	0	0
HMT-303	55176	1	0	0	0	0	0
LHA 1 USS Tarawa AIMD	20550	1	0	0	0	0	0
LHA 3 USS Belleau Wood AIMD	20633	1	0	0	0	0	0



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

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
LHA 5 USS Peleliu AIMD	20748	1	0	0	0	0	0
LHD 2 USS Essex AIMD	21533	1	0	0	0	0	0
LHD 4 USS Boxer AIMD	21808	1	0	0	0	0	0
LHD 6 USS Bonhomme Richard	22202	1	0	0	0	0	0
Naval Airborne Weapons Maint Unit 1, Guam	52821	1	0	0	0	0	0
Naval Weapons Test Squadron	39787	1	0	0	0	0	0
Naval Weapons Test Squadron	39788	1	0	0	0	0	0
OMD, NAS Fallon	60495	1	0	0	0	0	0
OMD, NAS Lemoore	63042	1	0	0	0	0	0
OMD, NAS Whidbey Island	00620	1	0	0	0	0	0
Pacific Missile Range Facility, Barking Sands	0534A	1	0	0	0	0	0
SW Regional Cal Center, NAS North Island3284A	1	0	0	0	0	0	0
VMFAT 101 NAVDET Miramar	52817	1	0	0	0	0	0
TOTAL:		67	1	0	0	0	0



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES USN					
COMAEWWINGLANT, 09052					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMFITWINGLANT, 09216					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMHELTACWINGLANT, 44890					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMHSLWINGLANT, 55212					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMHSWINGLANT, 52956					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMPATRECONFORLANT, 39555					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
COMPATRECONWING 11, 09461					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
COMPATRECONWING 5, 53823					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
COMSEACONWINGLANT, 52955					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMSTRKFITWINGLANT, 09103					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
HC 2, 09212					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HC 4, 52959					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HC 4 Shore Component, 55248					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HC 6 Sea Component, 0381A					
ACDU	0	7	APO2		
ACTIVITY TOTAL:	0	7			
HC 6 Shore Component, 31242					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HC 8 Sea Component, 55219					
ACDU	0	7	APO2		
ACTIVITY TOTAL:	0	7			
HC 8 Shore Component, 55218					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HM 14, 53827					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
HM 15, 55201					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
HS 11, NAS Jacksonville, FL, 09954					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HS 15, 09205					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HS 3, 09163					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HS 5, 09488					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HS 7, 09988					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HSL SH-60B Fleet DETS (10 Each - East), 00000					
ACDU	0	40	APO2		
ACTIVITY TOTAL:	0	40			
HSL 40 FRS, 53912					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HSL 42, 53913					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HSL 44, 53975					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HSL 46, 53916					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HSL 48, 53918					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
Navy Rotary Wing Test Squadron, 39784					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 120, 09527					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 121, 09467					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 123, 09477					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 124, 09526					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 125, 09922					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VAW 126, 09963					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VC 6, Shore Component, 46550					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VC 8, 09948					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 101 DET Key West, 47788					
ACDU	0	1	APOC		
ACTIVITY TOTAL:	0	1			
VF 101, 09067					
ACDU	0	3	APO1		
ACTIVITY TOTAL:	0	3			
VF 103, 09718					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 11, 09560					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 143, 09281					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 154, 09678					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 2, 09113					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VF 211, 09086					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 213, 09934					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 31, 09473					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VF 32, 09053					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 105, 65183					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 106 FRS, 09679					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
VFA 106 Neutral Duty Component, 49119					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 11, 09560, FY02 Increment					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 131, 63934					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VFA 136, 55141					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 15, 09015					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 174 FRS, 09088, FY04 Increment					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
VFA 34, 09070					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 37, 09478					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 41, 09774, FY02 Increment					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 81, 09221					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 82, 09122					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 83, 09223					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 86, 09943					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VFA 87, 63922					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 97, 63923, FY04 Increment					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VP 10, 09639					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VP 16, 09229					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VP 26, 09610					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VP 30, 09047					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
VP 45, 09665					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VP 5, 09630					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VP 8, 09661					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VPU 1, 53869					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VQ 2 DET Rota (Sea Duty), 53873					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VRC 40, 09303					
ACDU	0	1	APO1		
	0	5	APO2		
ACTIVITY TOTAL:	0	6			
VS 22, 09287					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VS 24, 09629					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VS 30, 09226					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VS 31, 09572					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VS 32, 09353					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VX 1, 55600					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
COMAEWWINGPAC, 55634					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMFAIRWESTPAC, 09356					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMHELTACWINGPAC, 55635					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMHSLWINGPAC, 55630					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMHSWINGPAC, 55636					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMNAVTESTWINGPAC, 39786					
ACDU	0	1	APOC		
ACTIVITY TOTAL:	0	1			
COMPATRECONFORPAC, 09517					
ACDU	0	2	APOC		
	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	4			
COMPATRECONWING 10, 55165					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
COMSEACONWINGPAC, 55633					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMSTRATCOMMWING ONE, 55575					
ACDU	0	1	APOC		
	0	3	APO1		
ACTIVITY TOTAL:	0	4			
COMSTRKFITWINGPAC DET EI Centro, 55257					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
COMSTRKFITWINGPAC DET Fallon, 55153					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
COMSTRKFITWINGPAC, 09520					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
COMVAQWINGPAC, 55627					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
HC 11, 53920					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
HC 3 FRS, 09822					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
HC 5 IMMSD, 44310					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HC 5, 09823					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
HS 10 FRS, 09299					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
HS 14, 09209					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HS 2, 09372					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HS 4, 09164					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HS 6, 09950					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HS 8, 09951					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HSL 37, 52873					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HSL 41 FRS, 55138					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HSL 43, 53914					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HSL 45, 53915					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HSL 47, 53917					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HSL 49, 53919					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
HSL 51, 55584					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 128, 55676					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 129 FRS, 09995					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
VAQ 130, 09289					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 131, 09364					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VAQ 132, 09615					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 133, 09969					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 134, 09970					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 135, 09971					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 136, 09973					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 137, 09996					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 138, 09199					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 139, 09200					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 140, 53806					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 141, 53807					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VAQ 142, 55140					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAQ 143, 55199, FY03 Increment					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VAW 112, 09458					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 113, 09459					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 115, 09463					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 116, 09465					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VAW 117, 09985					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VFA 102, 09717					
ACDU	0	1	APO2		
VFA 102, 09717, FY02 Increment					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	2			
VFA 113, 09092					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VFA 115, 09604					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 122 FRS, 09355					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
VFA 125 FRS, 09485					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
VFA 137, 55142					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 14, 09084					
ACDU	0	1	APO2		
VFA 14, 09084, FY02 Increment					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	2			
VFA 146, 09063					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 147, 63925					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 151, 09558					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VFA 192, 09076					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 195, 09706					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 22, 09561					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 25, 09637					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 27, 65185					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 41, 09774					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 94, 09295					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VFA 97, 63923					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VP 1, 09618					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VP 4, 09623					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VP 40, 09674					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VP 46, 09632					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VP 47, 09600					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VP 9, 09644					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VPU 2, 09244					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VQ 1 DET Misawa, 09081					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VQ 1, 09930					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VQ 3 DET Offutt, 55677					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VQ 3 DET Travis, 47294					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VQ 3, 09923					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VQ 4 DET Pax River, 49403					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VQ 4, 09962					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VQ 7, 47372					
ACDU	0	1	APOC		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
VRC 30 DET 5 Atsugi, 39491					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
VRC 30, 09607					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
VS 21, 09739					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VS 29, 09204					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VS 33, 09263					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VS 35, 09345					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VS 38, 09192					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VS 41 FRS, 09298					
ACDU	0	1	APO1		
	0	1	APO2		
ACTIVITY TOTAL:	0	2			
VX 9 DET Point Mugu, 09830					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
VX 9, 55646					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES USN					
AIMD MCAS Beaufort (SEAOPDET), 46961					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAF Mayport, 45459					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Brunswick, 44314					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Corpus Christi, 30244					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
AIMD NAS Jacksonville, 44319					
ACDU	0	3	APO1		
ACTIVITY TOTAL:	0	3			
AIMD NAS Jacksonville (SEAOPDET), 46965					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Keflavic, 44335					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Key West, 44320					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Norfolk, 44325					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
AIMD NAS Oceana, 44327					
ACDU	0	3	APO1		
ACTIVITY TOTAL:	0	3			
AIMD NAS Oceana (SEAOPDET), 46963					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Sigonella DET Rota, 44374					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Sigonella, 44330					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NS Norfolk (SEAOPDET), 46966					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
AIMD NS Roosevelt Roads, 44373					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CV 67 USS John F. Kennedy AIMD, 03367					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CVN 65 USS Enterprise AIMD, 03365					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CVN 68 USS Nimitz AIMD, 03368					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CVN 69 USS Dwight D. Eisenhower AIMD, 03369					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CVN 71 USS Theodore Roosevelt AIMD, 21247					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CVN 73 USS George Washington AIMD, 21412					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CVN 75 USS Harry S. Truman AIMD, 21853					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHA 2 USS Saipan AIMD, 20632					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
LHA 4 USS Nassau AIMD, 20725					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHD 1 USS Wasp AIMD, 21560					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHD 3 USS Kearsarge AIMD, 21700					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHD 5 USS Bataan AIMD, 21879					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
MCS 12 USS Inchon AIMD, 20009					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD MCB Kaneohe Bay, 44312					
ACDU	0	3	APO1		
ACTIVITY TOTAL:	0	3			
AIMD NAF Atsugi DET Iwakuni, 49340					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
AIMD NAF Atsugi, 44323					
ACDU	0	3	APO1		
ACTIVITY TOTAL:	0	3			
AIMD NAF Diego Garcia, 44337					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAF Misawa, 44331					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
AIMD NAS Fallon, 44317					
ACDU	0	2	APO1		
ACTIVITY TOTAL:	0	2			
AIMD NAS Lemoore, 44321					
ACDU	0	5	APO1		
ACTIVITY TOTAL:	0	5			
AIMD NAS Lemoore (SEAOPDET), 46964					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS North Island, 44326					
ACDU	0	3	APO1		
ACTIVITY TOTAL:	0	3			
AIMD NAS North Island (SEAOPDET), 46968					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Point Mugu, 44328					
ACDU	0	5	APO1		
ACTIVITY TOTAL:	0	5			
AIMD NAS Point Mugu (SEAOPDET), 46967					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
AIMD NAS Whidbey Island, 44329					
ACDU	0	3	APO1		
ACTIVITY TOTAL:	0	3			
AIMD NAS Whidbey Island (SEAOPDET), 46967					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
AIMD NAS Whidbey Island (VAN OPDET), 31179					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
Commander, Fleet Activities, NAF Okinawa, 62254					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
CV 63 USS Kitty Hawk AIMD, 03364					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
CV 64 USS Constellation AIMD, 03364					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
CVN 68 USS Nimitz AIMD, 03368					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
CVN 70 USS Carl Vinson AIMD, 20993					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
CVN 72 USS Abraham Lincoln AIMD, 21297					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
CVN 74 USS John C. Stennis AIMD, 21847					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
CVN 76 USS Ronald Reagan AIMD, 22178, FY02 Increment					
ACDU	0	1	APOC		
	0	1	APO1		
ACTIVITY TOTAL:	0	2			
Fleet Maritime Patrol MMF Charlie, 68704					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
HMT 303 MCAS Camp Pendleton, 55176					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHA 1 USS Tarawa AIMD, 20550					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHA 3 USS Belleau Wood AIMD, 20633					
ACDU	0	1	APO2		
ACTIVITY TOTAL:	0	1			
LHA 5 USS Peleliu AIMD, 20748					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHD 2 USS Essex AIMD, 21533					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHD 4 USS Boxer AIMD, 21808					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
LHD 6 USS Bonhomme Richard, 22202					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
Naval Airborne Weapons Maintenance Unit 1, 52821					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
Naval Weapons Test Squadron, 39787					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
Naval Weapons Test Squadron, 39788					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
OMD, NAS Fallon, 60495					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
OMD, NAS Lemoore, 63042					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
OMD, NAS Whidbey Island, 00620					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
Pacific Missile Range Facility, 0534A					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
SW Regional Cal Center, 3284A					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
VMFAT 101 NAVDET Miramar, 52817					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USN OPERATIONAL ACTIVITIES ACDU													
APOC			22		0		0		0		0		0
APO1			116		0		2		0		0		0
APO2			137		1		1		0		0		0
USN FLEET SUPPORT ACTIVITIES ACDU													
APOC			7		0		0		0		0		0
APO1			91		0		0		0		0		0
APO2			1		0		0		0		0		0
SUMMARY TOTALS:													
USN OPERATIONAL ACTIVITIES ACDU													
			275		1		3		0		0		0
USN FLEET SUPPORT ACTIVITIES ACDU													
			99		0		0		0		0		0
GRAND TOTALS:													
USN ACDU													
			374		1		3		0		0		0



II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

SOURCE OF SCHEDULE: Navy Training Management and Planning System

DATE: Sep 2000

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
OPERATIONAL ACTIVITIES USN							
VF 11	09560	1	0	0	0	0	0
TOTAL:		1	0	0	0	0	0
FLEET SUPPORT ACTIVITIES USN							
MCS 12 USS Inchon AIMD	20009	1	0	0	0	0	0
TOTAL:		1	0	0	0	0	0



II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES USN					
VF 11, 09560, FY02 Increment					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES USN					
MCS 12 USS Inchon AIMD, 20009, FY02 Increment					
ACDU	0	1	APO1		
ACTIVITY TOTAL:	0	1			



II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USN OPERATIONAL ACTIVITIES		ACDU											
APO1			1	0		0		0		0		0	
USN FLEET SUPPORT ACTIVITIES		ACDU											
APO1			1	0		0		0		0		0	
SUMMARY TOTALS:													
USN OPERATIONAL ACTIVITIES		ACDU											
			1	0		0		0		0		0	
USN FLEET SUPPORT ACTIVITIES		ACDU											
			1	0		0		0		0		0	
GRAND TOTALS:													
USN	ACDU		2	0		0		0		0		0	



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: Joint Strike Fighter, Location TBD, 00000

SUPPORT BILLETS

USN													
ADC	9502	0	0	0	0	0	0	0	1	0	1	0	1
AE1	9502	0	0	0	0	0	0	0	1	0	1	0	1
AM1	9502	0	0	0	0	0	0	0	1	0	1	0	1
ATCS	9502	0	0	0	0	0	0	0	1	0	1	0	1
ITC	2735	0	0	0	0	0	0	0	1	0	1	0	1
USN													
GS1	0334	0	0	0	0	0	0	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	0	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	0	0	1	0	1	0	1
TOTAL:		0	0	0	0	0	0	0	8	0	8	0	8

TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT Camp Pendleton, 66063

SUPPORT BILLETS

USN													
GS1	0334	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	1	0	1	0	1	0	1
USMC													
SGT	6324	0	1	0	2	0	2	0	2	0	2	0	2
SSGT	4068	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6114	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	3	0	4	0	7	0	7	0	7	0	7



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT Cherry Point, 66047

SUPPORT BILLETS

USN													
GS1	0334	0	0	0	1	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	0	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	0	0	1	0	1	0	1
USMC													
GYSGT	6316	1	0	1	0	1	0	1	0	1	1	0	1
SGT	6315	0	0	0	1	0	1	0	1	0	1	0	1
SSGT	4068	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	4071	0	0	0	0	0	1	0	1	0	1	0	1
SSGT	6015	0	0	0	1	0	1	0	1	0	1	0	1
SSGT	6016	0	0	0	1	0	1	0	1	0	1	0	1
SSGT	6316	0	0	0	0	0	0	0	1	0	1	0	1
TOTAL:		0	2	0	6	0	7	0	10	0	10	0	10

TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT New River, 66059

SUPPORT BILLETS

USN													
GS1	0334	0	0	0	0	0	0	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	0	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	0	0	1	0	1	0	1
USMC													
GYSGT	6112	0	1	0	1	0	1	0	1	0	1	0	1
SGT	6115	0	0	0	0	0	1	0	1	0	1	0	1
SGT	6322	0	0	0	0	0	1	0	1	0	1	0	1
SGT	6323	0	0	0	0	0	0	0	1	0	1	0	1
SSGT	4068	0	0	0	1	0	1	0	1	0	1	0	1
SSGT	4071	0	0	0	0	0	1	0	1	0	1	0	1
SSGT	6113	0	0	0	0	0	1	0	1	0	1	0	1
TOTAL:		0	1	0	2	0	6	0	10	0	10	0	10



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRU DET Milton, 31714

SUPPORT BILLETS

USN													
AD1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATC	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	3	0	3	0	3	0	3	0	3	0	3

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRU DET Mayport, 66069

SUPPORT BILLETS

USN													
AOC	9502	0	1	0	1	0	1	0	1	0	1	0	1
AT1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ITC	2735	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	3	0	3	0	3	0	3	0	3	0	3

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRU DET Point Mugu, 66064

SUPPORT BILLETS

USN													
AD1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATC	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1
USN													
GS1	0334	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
TOTAL:		0	3	0	3	0	5	0	5	0	5	0	5



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRU DET Tinker, 47373

SUPPORT BILLETS

USN													
AD1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATCS	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1
USN													
GS1	0344	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	4	0	4	0	4	0	4
TOTAL:		0	3	0	3	0	8	0	8	0	8	0	8

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU HQ, Pensacola, 63115

SUPPORT BILLETS

USN													
AD1	0000	0	1	0	1	0	1	0	1	0	1	0	1
AE1	0000	0	1	0	1	0	1	0	1	0	1	0	1
ATCS	0000	0	1	0	1	0	1	0	1	0	1	0	1
LI1	0000	0	1	0	1	0	1	0	1	0	1	0	1
LI2	0000	0	1	0	1	0	1	0	1	0	1	0	1
O 3		1	0	1	0	1	0	1	0	1	0	1	0
USN													
GS1	0000	0	1	0	1	0	1	0	1	0	1	0	1
GS1	0334	0	5	0	5	0	5	0	6	0	6	0	6
GS1	1084	0	1	0	1	0	1	0	1	0	1	0	1
GS1	1750	0	2	0	2	0	2	0	2	0	2	0	2
USMC													
SSGT	0000	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		1	15	1	15	1	15	1	16	1	16	1	16



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU Jacksonville, 66051

SUPPORT BILLETS

USN

AD1	9502	0	1	0	1	0	1	0	1	0	1	0	1
AEC	9502	0	1	0	1	0	1	0	1	0	1	0	1
AM1	9502	0	1	0	1	0	1	0	1	0	1	0	1
AS1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATCS	9502	0	1	0	1	0	1	0	1	0	1	0	1
AT2	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1
IT2	2750	0	1	0	1	0	1	0	1	0	1	0	1

USN

GS1	0334	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1750	0	1	0	1	0	1	0	1	0	1	0	1

TOTAL: 0 9 0 9 0 11 0 11 0 11 0 11 0 11

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU Lemoore, 66060

SUPPORT BILLETS

USN

AD1	9502	0	1	0	1	0	1	0	1	0	1	0	1
AEC	9502	0	1	0	1	0	1	0	1	0	1	0	1
AMEC	9502	0	1	0	1	0	1	0	1	0	1	0	1
AO1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATCS	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1

USN

GS1	0334	0	0	0	0	0	1	0	1	0	1	0	11
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	1	0	1	0	1	0	1

TOTAL: 0 6 0 6 0 9 0 9 0 9 0 9 0 9



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

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

SUPPORT BILLETS

USN

ABE1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ADC	9502	0	1	0	1	0	1	0	1	0	1	0	1
AE2	9502	0	1	0	1	0	1	0	1	0	1	0	1
AM1	9502	0	1	0	1	0	1	0	1	0	1	0	1
AO1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ASC	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATCS	9502	0	1	0	1	0	1	0	1	0	1	0	1
ITC	2735	0	1	0	1	0	1	0	1	0	1	0	1
IT2	2750	0	1	0	1	0	1	0	1	0	1	0	1

USN

GS1	0334	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	1	0	1	0	1	0	1

TOTAL: 0 9 0 9 0 12 0 12 0 12 0 12

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU Oceana, 66045

SUPPORT BILLETS

USN

AD1	8345	0	1	0	1	0	1	0	1	0	1	0	1
AE2	9502	0	1	0	1	0	1	0	1	0	1	0	1
AM1	8342	0	1	0	1	0	1	0	1	0	1	0	1
AM2	8345	0	1	0	1	0	1	0	1	0	1	0	1
AO1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATCS	9502	0	1	0	1	0	1	0	1	0	1	0	1
AT1	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1
IT2	2750	0	1	0	1	0	1	0	1	0	1	0	1

USN

GS1	0334	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	1	0	1	0	1	0	1

TOTAL: 0 9 0 9 0 12 0 12 0 12 0 12



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU Whidbey Island, 66058

SUPPORT BILLETS

USN													
AD1	9502	0	1	0	1	0	1	0	1	0	1	0	1
AE2	9502	0	1	0	1	0	1	0	1	0	1	0	1
AM1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATCS	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATC	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1
USN													
GS1	0334	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	1	0	1	0	1	0	1
TOTAL:		0	6	0	6	0	9	0	9	0	9	0	9

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU North Island DET Miramar, 42148

SUPPORT BILLETS

USN													
ATC	9502	0	1	0	1	0	1	0	1	0	1	0	1
IT1	2735	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	2	0	2	0	2	0	2	0	2	0	2



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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU Norfolk, 66046

SUPPORT BILLETS

USN													
ABH1	9502	0	1	0	1	0	1	0	1	0	1	0	1
AD1	9502	0	1	0	1	0	1	0	1	0	1	0	1
AE2	9502	0	1	0	1	0	1	0	1	0	1	0	1
AME1	9502	0	1	0	1	0	1	0	1	0	1	0	1
ATC	9502	0	1	0	1	0	1	0	1	0	1	0	1
ITC	2735	0	1	0	1	0	1	0	1	0	1	0	1
IT2	2750	0	1	0	1	0	1	0	1	0	1	0	1
USN													
GS1	0334	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1084	0	0	0	0	0	1	0	1	0	1	0	1
GS1	1750	0	0	0	0	0	1	0	1	0	1	0	1
TOTAL:		0	7	0	7	0	10	0	10	0	10	0	10



II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG RATING	PNEC/SNEC		PFYs BASE	CFY03		FY04		FY05		FY06		FY07	
	PMOS	SMOS		+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
a. OFFICER - USN													
Staff Billets ACDU and TAR													
O-3			1	0	1	0	1	0	1	0	1	0	1
TOTAL USN OFFICER BILLETS:													
Staff			1	0	1	0	1	0	1	0	1	0	1
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
APOC			22	0	22	0	22	0	22	0	22	0	22
APO1			115	0	115	2	117	0	117	0	117	0	117
APO2			137	1	138	1	139	0	139	0	139	0	139
Fleet Support Billets ACDU and TAR													
APOC			7	0	7	0	7	0	7	0	7	0	7
APO1			90	0	90	0	90	0	90	0	90	0	90
APO2			1	0	1	0	1	0	1	0	1	0	1
Staff Billets ACDU and TAR													
ABE1	9502		1	0	1	0	1	0	1	0	1	0	1
ABH1	9502		1	0	1	0	1	0	1	0	1	0	1
ADC	9502		1	0	1	0	1	1	2	0	2	0	2
AD1	0000		1	0	1	0	1	0	1	0	1	0	1
AD1	8345		1	0	1	0	1	0	1	0	1	0	1
AD1	9502		7	0	7	0	7	0	7	0	7	0	7
AEC	9502		2	0	2	0	2	0	2	0	2	0	2
AE1	0000		1	0	1	0	1	0	1	0	1	0	1
AE1	9502		0	0	0	0	0	0	0	1	1	0	1
AE2	9502		4	0	4	0	4	0	4	0	4	0	4
AM1	8342		1	0	1	0	1	0	1	0	1	0	1
AM1	9502		3	0	3	0	3	1	4	0	4	0	4
AM2	8345		1	0	1	0	1	0	1	0	1	0	1
AMEC	9502		1	0	1	0	1	0	1	0	1	0	1
AME1	9502		1	0	1	0	1	0	1	0	1	0	1
AOC	9502		1	0	1	0	1	0	1	0	1	0	1
AO1	9502		3	0	3	0	3	0	3	0	3	0	3
ASC	9502		1	0	1	0	1	0	1	0	1	0	1
AS1	9502		1	0	1	0	1	0	1	0	1	0	1
ATCS	0000		1	0	1	0	1	0	1	0	1	0	1
ATCS	9502		6	0	6	0	6	1	7	0	7	0	7
ATC	9502		5	0	5	0	5	0	5	0	5	0	5
AT1	9502		2	0	2	0	2	0	2	0	2	0	2
AT2	9502		1	0	1	0	1	0	1	0	1	0	1
GS1	0000		1	0	1	0	1	0	1	0	1	0	1
GS1	1084		1	0	1	12	13	3	16	0	16	0	16



II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG RATING	PNEC/SNEC		PFYs BASE	CFY03		FY04		FY05		FY06		FY07	
	PMOS	SMOS		+/	CUM	+/	CUM	+/	CUM	+/	CUM	+/	CUM
GS1	1750		3	0	3	6	9	3	12	0	12	0	12
GS1	0334		5	1	6	8	14	3	17	0	17	0	17
GS1	0344		0	0	0	1	1	0	1	0	1	0	1
ITC	2735		3	0	3	0	3	1	4	0	4	0	4
IT1	2735		8	0	8	0	8	0	8	0	8	0	8
IT2	2750		4	0	4	0	4	0	4	0	4	0	4
LI1	0000		1	0	1	0	1	0	1	0	1	0	1
LI2	0000		1	0	1	0	1	0	1	0	1	0	1

TOTAL USN ENLISTED BILLETS:

Operational	274	1	275	3	278	0	278	0	278	0	278	0	278
Fleet Support	98	0	98	0	98	0	98	0	98	0	98	0	98
Staff	74	1	75	27	102	14	116	0	116	0	116	0	116

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC

Staff BilleTS USMC and AR

GYSGT	6112		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6316		1	0	1	0	1	0	1	0	1	0	1
SGT	6115		0	0	0	1	1	0	1	0	1	0	1
SGT	6315		0	1	1	0	1	0	1	0	1	0	1
SGT	6322		0	0	0	1	1	0	1	0	1	0	1
SGT	6323		0	0	0	0	0	1	1	0	1	0	1
SGT	6324		1	1	2	0	2	0	2	0	2	0	2
SSGT	4068		2	1	3	0	3	0	3	0	3	0	3
SSGT	4071		0	0	0	2	2	0	2	0	2	0	2
SSGT	6015		0	1	1	0	1	0	1	0	1	0	1
SSGT	6016		0	1	1	0	1	0	1	0	1	0	1
SSGT	6113		0	0	0	1	1	0	1	0	1	0	1
SSGT	6114		1	0	1	0	1	0	1	0	1	0	1
SSGT	6316		0	0	0	0	0	1	1	0	1	0	1
SSGT	0000		1	0	1	0	1	0	1	0	1	0	1

TOTAL USMC ENLISTED BILLETS:

Staff	7	5	12	5	17	2	19	0	19	0	19	0	19
-------	---	---	----	---	----	---	----	---	----	---	----	---	----



PART III - TRAINING REQUIREMENTS

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

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.a. Existing Courses

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out



PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

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

IV.A. Training Hardware

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

IV.A.2. Training Devices

IV.B. Initial Training

IV.B.1. Training Services

IV.C. Facility Requirements

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

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

IV.C.3. Facility Project Summary by Program



IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU Whidbey Island
LOCATION, UIC: NAS Whidbey Island, 66058

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	7	Oct 02	Pending
Advanced Electronic Classroom	2	Oct 02	Pending
Advanced Electronic Classroom	3	Oct 02	Pending
Advanced Electronic Classroom	3	Oct 02	Pending
Building Servers	11	Oct 98	Onboard
Building Servers	3	Oct 02	Pending
Building Servers	3	Oct 02	Pending
Building Servers	3	Oct 02	Pending
Building Servers	3	Oct 02	Pending
Desktop Computer	1 (E-2C)	Oct 02	Pending
Desktop Computer	1	Oct 02	Pending
Introductory Electronic Classroom	3	Oct 02	Pending
Introductory Electronic Classroom	8	Oct 02	Pending
Introductory Electronic Classroom	3	Oct 02	Pending
Laptop Computer	8 (E-2C)	Oct 02	Pending
Laptop Computer	96	Oct 02	Pending
Laptop Computer	13	Oct 02	Pending
Learning Resource Center	1	Oct 02	Pending
Learning Resource Center	1	Oct 98	Onboard
Learning Resource Center	1	Oct 02	Pending
Learning Resource Center	1	Oct 02	Pending
Learning Resource Center	1	Oct 02	Pending
Learning Resource Center	1	Oct 01	Pending
Learning Resource Center	1	Oct 02	Pending
Learning Resource Center	1	Oct 02	Pending
Learning Resource Center	1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU Oceana
LOCATION, UIC: NAS Oceana, 66045

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	1	Oct 98	Onboard
Advanced Electronic Classroom	8	Oct 00	Pending
Advanced Electronic Classroom	6	Oct 02	Pending
Advanced Electronic Classroom	3	Oct 01	Pending
Advanced Electronic Classroom	1	Oct 98	Onboard
Advanced Electronic Classroom	1	Oct 00	Pending
Advanced Electronic Classroom	3	Oct 01	Pending
Advanced Electronic Classroom	5	Oct 01	Pending
Advanced Electronic Classroom	11	Oct 98	Onboard
Advanced Electronic Classroom	5	Oct 02	Pending
Building Servers	4	Oct 01	Pending
Building Servers	4	Oct 02	Pending
Building Servers	12	Oct 98	Onboard
Building Servers	3	Oct 01	Pending



IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Building Servers	4	Oct 00	Onboard
Building Servers	4	Oct 01	Pending
Building Servers	1	Oct 02	Pending
Desktop Computer	11	Oct 02	Pending
Desktop Computer	6 (E-2C)	Oct 02	Pending
Desktop Computer	28 (F-14)	Oct 02	Pending
Introductory Electronic Classroom	2	Oct 03	Pending
Introductory Electronic Classroom	7	Oct 02	Pending
Introductory Electronic Classroom	3	Oct 01	Pending
Introductory Electronic Classroom	8	Oct 01	Pending
Introductory Electronic Classroom	1	Oct 00	Pending
Introductory Electronic Classroom	3	Oct 01	Pending
Laptop Computer	24	Oct 02	Pending
Laptop Computer	113	Oct 01	Pending
Learning Resource Center	1	Oct 98	Onboard
Learning Resource Center	1	Oct 00	Onboard
Learning Resource Center	1	Oct 01	Pending
Learning Resource Center	1	Oct 01	Pending
Learning Resource Center	1	Oct 01	Pending
Network Server	1	Oct 02	Pending
Network Server	2 (F-14)	Oct 02	Pending
Network Server	1 (E-2C)	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAGRU DET Tinker
LOCATION, UIC: Tinker AFB, 47372

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	3	Oct 02	Pending
Building Servers	3	Oct 02	Pending
Introductory Electronic Classroom	4	Oct 02	Pending
Learning Resource Center	1	Oct 01	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAGRU DET Cecil Field
LOCATION, UIC: NAS Cecil Field, 66050

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	10	Oct 98	NOTE

Note: NAMTRAGRU DET Cecil Field assets were transferred to NAMTRAU Oceana.



IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU Norfolk
LOCATION, UIC: NAS Norfolk, 66046

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	1	Oct 98	Onboard
Advanced Electronic Classroom	1	Oct 00	Onboard
Advanced Electronic Classroom	3	Oct 01	Pending
Building Servers	3	Oct 01	Pending
Desktop Computer	13	Oct 01	Pending
Desktop Computer	32	Oct 02	Pending
Introductory Electronic Classroom	3	Oct 01	Pending
Laptop Computer	113	Oct 01	Pending
Laptop Computer	131	Oct 02	Pending
Learning Resource Center	1	Oct 01	Pending
Network Server	1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU Mayport
LOCATION, UIC: NAS Mayport, 66069

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	3	Oct 02	Pending
Introductory Electronic Classroom	3	Oct 01	Pending
Learning Resource Center	1	Oct 01	Pending
Building Servers	3	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU North Island
LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	5	Oct 01	Pending
Advanced Electronic Classroom	5	Oct 02	Pending
Building Servers	4	Oct 01	Pending
Building Servers	4	Oct 02	Pending
Introductory Electronic Classroom	8	Oct 01	Pending
Introductory Electronic Classroom	2	Oct 02	Pending
Learning Resource Center	1	Oct 01	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU Lemoore
LOCATION, UIC: NAS Lemoore, 66060

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	11	Oct 98	Onboard
Building Servers	12	Oct 98	Onboard
Learning Resource Center	1	Oct 98	Onboard



IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU Jacksonville
LOCATION, UIC: NAS Jacksonville, 66051

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	3	Oct 01	Pending
Advanced Electronic Classroom	6	Oct 02	Pending
Building Servers	4	Oct 01	Pending
Building Servers	1	Oct 02	Pending
Introductory Electronic Classroom	3	Oct 01	Pending
Introductory Electronic Classroom	7	Oct 02	Pending
Laptop Computer	1	Oct 02	Pending
Learning Resource Center	1	Oct 01	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRA MARUNIT Cherry Point
LOCATION, UIC: MCAS Cherry Point, 66047

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	2	Oct 02	Pending
Building Servers	3	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAGRU DET Point Mugu
LOCATION, UIC: NAS Point Mugu, 00000

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Advanced Electronic Classroom	3	Oct 02	Pending
Building Servers	3	Oct 02	Pending
Desktop Computer	1	Oct 02	Pending
Introductory Electronic Classroom	3	Oct 02	Pending
Laptop Computer	8	Oct 02	Pending
Learning Resource Center	1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRA MARUNIT Camp Pendleton
LOCATION, UIC: MCAS Camp Pendleton, 66063

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Learning Resource Center	1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAGRU DET McCutcheon Field
LOCATION, UIC: McCutcheon Field, 66062

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Learning Resource Center	1	Oct 02	Pending



IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAGRU DET Miramar
LOCATION, UIC: MCAS Miramar, 66064

TYPES OF MATERIAL OR AID

Learning Resource Center

	QTY DATE	
REQD	REQD	STATUS
1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRA MARUNIT New Bern
LOCATION, UIC: MCAS New Bern, 66047

TYPES OF MATERIAL OR AID

Learning Resource Center

	QTY DATE	
REQD	REQD	STATUS
1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRA MARUNIT New River
LOCATION, UIC: MCAS New River, 66048

TYPES OF MATERIAL OR AID

Learning Resource Center

	QTY DATE	
REQD	REQD	STATUS
1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: 4th MAW
LOCATION, UIC: NAS New Orleans, 00000

TYPES OF MATERIAL OR AID

Laptop Computer

	QTY DATE	
REQD	REQD	STATUS
1	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: VMFA 533
LOCATION, UIC: MCAS Beaufort, 00000

TYPES OF MATERIAL OR AID

Laptop Computer
Desktop Computer

	QTY DATE	
REQD	REQD	STATUS
13	Oct 02	Pending
1	Oct 02	Pending



IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRA MARUNIT New Bern
LOCATION, UIC : MCAS New Bern, 66047

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 98	Onboard
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 01	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 01	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 98	Onboard



IV.B.3. TECHNICAL MANUALS

0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 98	Onboard
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 01	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 01	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 98	Onboard
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 98	Onboard



IV.B.3. TECHNICAL MANUALS

0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	5	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 01	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 01	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 98	Onboard
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU Norfolk
LOCATION, UIC : NAS Norfolk, 66046

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 01	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	50	Oct 01	Pending



IV.B.3. TECHNICAL MANUALS

0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	50	Oct 98	Onboard
0001 AMTCS System Utilization Handbook	CD-ROM	50	Oct 00	Onboard
0001 AMTCS System Utilization Handbook	CD-ROM	50	Oct 98	Onboard
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 00	Onboard
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	10	Oct 98	Onboard
0002 AMTCS Instruction Manual	CD-ROM	10	Oct 01	Pending
0002 AMTCS Instruction Manual	CD-ROM	10	Oct 98	Onboard
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 00	Onboard
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 00	Onboard
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 01	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 01	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 01	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 98	Onboard
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending



IV.B.3. TECHNICAL MANUALS

0003 AMTCS Configuration Guides	CD-ROM	5	Oct 00	Onboard
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 00	Onboard
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 98	Onboard
0004 AMTCS User's Manual	CD-ROM	25	Oct 00	Onboard
0004 AMTCS User's Manual	CD-ROM	25	Oct 98	Onboard
0004 AMTCS User's Manual	CD-ROM	25	Oct 01	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 00	Onboard
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 01	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 98	Onboard
0005 AMTCS Software Manual	CD-ROM	10	Oct 01	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 98	Onboard
0005 AMTCS Software Manual	CD-ROM	5	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	5	Oct 00	Onboard
0005 AMTCS Software Manual	CD-ROM	10	Oct 98	Onboard
0005 AMTCS Software Manual	CD-ROM	5	Oct 00	Onboard



IV.B.3. TECHNICAL MANUALS

0005 AMTCS Software Manual	CD-ROM	5	Oct 01	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 98	Onboard
0006 AMTCS Installation Guide	CD-ROM	5	Oct 01	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 00	Onboard
0006 AMTCS Installation Guide	CD-ROM	5	Oct 01	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 00	Onboard
0006 AMTCS Installation Guide	CD-ROM	5	Oct 98	Onboard

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRA MARUNIT Camp Pendleton
LOCATION, UIC : MCAS Camp Pendleton, 66063

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending



IV.B.3. TECHNICAL MANUALS

0002 AMTCS Instruction Manual	CD-ROM	5	Oct 22	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending



IV.B.3. TECHNICAL MANUALS

0006 CD-ROM 5 Oct 02 Pending
AMTCS Installation Guide

0006 CD-ROM 5 Oct 02 Pending
AMTCS Installation Guide

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAU North Island
LOCATION, UIC : NAS North Island, 66065

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
0001 AMTCS System Utilization Handbook	CD-ROM	50	Oct 01	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	50	Oct 98	Onboard
0002 AMTCS Instruction Manual	CD-ROM	10	Oct 98	Onboard
0002 AMTCS Instruction Manual	CD-ROM	10	Oct 01	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 01	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 98	Onboard
0004 AMTCS User's Manual	CD-ROM	25	Oct 98	Onboard
0004 AMTCS User's Manual	CD-ROM	25	Oct 01	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending



IV.B.3. TECHNICAL MANUALS

0005 AMTCS Software Manual	CD-ROM	5	Oct 02	Pending
0005 AMTCS Software Manual	CD-ROM	10	Oct 98	Onboard
0005 AMTCS Software Manual	CD-ROM	10	Oct 01	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 98	Onboard
0006 AMTCS Installation Guide	CD-ROM	5	Oct 01	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending

CIN, COURSE TITLE: AMTCS OJT
TRAINING ACTIVITY: NAMTRAGRU DET Tinker
LOCATION, UIC : Tinker AFB, 47372

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 01	Pending
0001 AMTCS System Utilization Handbook	CD-ROM	25	Oct 02	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 01	Pending
0002 AMTCS Instruction Manual	CD-ROM	5	Oct 02	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 01	Pending
0003 AMTCS Configuration Guides	CD-ROM	5	Oct 02	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 01	Pending
0004 AMTCS User's Manual	CD-ROM	25	Oct 02	Pending



IV.B.3. TECHNICAL MANUALS

0005 AMTCS Software Manual	CD-ROM	10	Oct 01	Pending
0005 AMTCS Software Manual	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 02	Pending
0006 AMTCS Installation Guide	CD-ROM	5	Oct 01	Pending



PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Developed Improved Training Management System (AMTCS)	FY95	Complete
DA	Developed Preliminary ILSP for AMTCS Training Devices	Dec 96	Complete
DA	Awarded Initial Contracts	FY97	Complete
DA	Distributed Initial NTSP	Feb 98	Complete
OPO	Began Fleet Deployment of AMTCS	FY00	On-going
PDA	Conduct Analysis of Manpower Requirements	Dec 00	Complete
DA	Offload MTIP Data to AMTCS	Apr 01	On-going
DA	Developed Draft NTSP	Jan 02	Complete
DA	Developed Proposed NTSP for OPNAV Approval	Jan 03	Complete



PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED

COMMAND ACTION

DUE DATE

STATUS

There are no pending actions or decisions for the AMTCS Technology Infusion Initiative.



PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

TELEPHONE NUMBERS

CAPT John Chase

Deputy Aviation Maintenance Programs
CNO, N781B
John.chase@navy.mil

COMM: (703) 604-7747
DSN: 664-7747
FAX: (703) 604-6972

CDR Wanda Janus

Head, C4ISR and Combat Systems, Carrier Program Office
CNO, N785D1
janus.wanda@hq.navy.mil

COMM: (703) 602-7720
DSN: 227-7720
FAX: (703) 602-8523

MAJ Larry Fowler, USMC

Resource / Program Sponsor
CNO, N789H2
fowler.larry@hq.navy.mil

COMM: (703) 604-7731
DSN: 664-7731
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 Jim Arend

Aviation Manpower
CNO, N122C1C
n122c1c@bupers.navy.mil

COMM: (703) 695-3223
DSN: 225-3223
FAX: (703) 614-5308

CAPT Terry Merritt

Professional Development Division Director
CNO, N00T3
merritt.terry@hq.navy.mil

COMM: (703) 604-7730
DSN: 664-7730
FAX: (703) 604-6939

Mr. Robert Zweibel

Human Performance and Acquisition Assessment Division
CNO, N00T46
zweibel.robert@navy.mil

COMM: (703) 602-5151
DSN: 332-5151
FAX: (703) 602-5175

CDR Robyn Barnes

NAMTRAGRU Liaison to NAVAIR
NAVAIR, PMA205L
barnesrd@navair.navy.mil

COMM: (301) 757-8121
DSN: 757-8121
FAX: (301) 757-6941

Ms. Cindy Conger

AMTCS Training Program Manager
NAVAIR, PMA2053A1
congercm@navair.navy.mil

COMM: (301) 757-8118
DSN: 757-8118
FAX: (301) 757-6941

AZCM Kevin Green

AMTCS Training Systems Manager
NAVAIR, PMA205B1
greenkl@navair.navy.mil

COMM: (301) 757-8120
DSN: 757-8120
FAX: (301) 757-6941

CDR Mike Hohl

Aviation NTSP Point of Contact
COMLANTFLT, N731
hohljm@clf.navy.mil

COMM: (757) 836-0085
DSN: 836-0085
FAX: (757) 836-6794



PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

TELEPHONE NUMBERS

CAPT Pat Salsman

Branch Head, Training Requirements and Assessments
COMLANTFLT, N72
salsmancp@clf.navy.mil

COMM: (757) 836-6495
DSN: 863-6495
FAX: (757) 836-6737

Mr. Bob Long

Deputy Director for Training
COMPACFLT, N70
longrh@cpf.navy.mil

COMM: (808) 471-8513
DSN: 471-8513
FAX: (808) 471-8596

YN1 Dashawn Simmons

Selected Reservist Quota Control
COMNAVAIRESFOR, N333
simmonsdcnrf@navy.mil

COMM: (504) 678-1850
DSN: 678-1850
FAX: (504) 678-5064

CAPT Patricia Huiatt

Deputy Assistant, Chief of Naval Personnel for Distribution
NAVPERSCOM, PERS-4B
p4b@persnet.navy.mil

COMM: (901) 874-3529
DSN: 882-3529
FAX: (901) 874-2606

CDR Dave Nelson

Branch Head, Aviation Enlisted Assignments
NAVPERSCOM, PERS-404
p404@persnet.navy.mil

COMM: (901) 874-3691
DSN: 882-3691
FAX: (901) 874-2642

Mr. Jerry McLemore

AMTCS Project Officer
NAMTRAGRU HQ, 012
jerry.w.mclemore@cnet.navy.mil

COMM: (850) 452-9708 ext. 106
DSN: 922-9708 ext. 106
FAX: (850) 452-8756

MSGT Ralph Stark, USMC

USMC AMTCS Coordinator
MCCDC, C473
starkrr@tecom.usmc.mil

COMM: (703) 784-3709
DSN: 278-3709
FAX: (703) 784-3729

MSGT Jerry Moore, USMC

USMC AMTCS Coordinator
MCCDC, C473
moorej1@tecom.usmc.mil

COMM: (703) 784-3710
DSN: 278-3710
FAX: (703) 784-3729

MGYSGT Joseph Townley, USMC

USMC AMTCS Coordinator
MCCDC, C473
townleyjb@tecom.usmc.mil

COMM: (703) 784-3707
DSN: 278-3707
FAX: (703) 784-3729

CDR Rose Wynne

Aviation Department Head
NAVMAC, 30
rosemary.wynne@navmac.navy.mil

COMM: (901) 874-6218
DSN: 882-6218
FAX: (901) 874-6471

SKCS Tina Jacobs

Assistant NTSP Coordinator
NAVMAC, 32
parthina.jacobs@navmac.navy.mil

COMM: (901) 874-6483
DSN: 882-6483
FAX: (901) 874-6471



PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

TELEPHONE NUMBERS

Mr. Brett Hollowell

NETC/NPDC NTSP Coordinator
NETC, N7C124
brett.hollowell@cnet.navy.mil

COMM: (850) 444-2269 ext 3225
DSN: 564-2269 ext 3225
FAX: (757) 445-8082

CDR Erich Blunt

Aviation Technical Training
NETC, ETE32
cdr-erich.blunt@cnet.navy.mil

COMM: (850) 452-4915
DSN: 922-4915
FAX: (850) 452-4901

GMC James S. Allen

PQS Development
NETPDTC, Group 34
gmc-james.allen@cnet.navy.mil

COMM: (850) 452-1001 ext. 2217
DSN: 922-1001 ext. 2217
FAX: (850) 452-1764

LT Jeff Pronesti

COMNAVAIRPAC Training Officer
COMNAVAIRPAC, N422F
pronesti.jeff@cnap.navy.mil

COMM: (619) 545-1574
DSN: 735-1574
FAX: (619) 545-1463

AFCM John Roberts

COMNAVAIRPAC Assistant Training Officer
COMNAVAIRPAC, N422F1
roberts.john@cnap.navy.mil

COMM: (619) 545-5654
DSN: 735-5654
FAX: (619) 545-1463

ATC Steven Dickenson

COMNAVAIRPAC Assistant Training Officer
COMNAVAIRPAC, N422F2
dickens.steven@cnap.navy.mil

COMM: (619) 767-7372
DSN: 577-7372
FAX: (619) 545-1463

Mr. Chon Quevedo

COMNAVAIRPAC Training Administrator
COMNAVAIRPAC, N422F0
quevedo.chon.a@cnap.navy.mil

COMM: (619) 545-5517
DSN: 735-5517
FAX: (619) 545-1483

Mr. Ronald Allen

COMNAVAIRLANT Maintenance Training Officer
COMNAVAIRLANT, N422F
allenrd@cna.navy.mil

COMM: (757) 444-3018 ext. 349
DSN: 564-3018 ext. 349
FAX: (757) 445-1231

AFCM Peter Stuart

AMTCS Project Team Member
COMNAVAIRLANT, N422F1
stuartpj@cna.navy.mil

COMM: (757) 444-3018
DSN: 564-3018 ext. 355
FAX: (757) 445-1231

Mr. Rich Naylor

Navy Aviation Maintenance Training
COMNAVAIRLANT, NC422F5
naylorrf@cna.navy.mil

COMM: (757) 444-3018
DSN: 564-3018 ext. 350
FAX: (757) 445-1231

Mr. John Crawford

Keyport Program Manager
NUWC DK, CA(G)
crawford@kpt.nuwc.navy.mil

COMM: (360) 315-7418
DSN: 322-7418
FAX: (360) 396-2329



PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

TELEPHONE NUMBERS

Mr. Eric Seeley
Systems Engineer
NUWC DK, 412
seeleye@kpt.nuwc.navy.mil

COMM: (360) 315-7688
DSN: 322-7688
FAX: (360) 396-1453

Mr. Phil Szczyglowski
Manpower and Training Analysis Division Head
NAVAIR, AIR 3.4.1
szczylowspr@navair.navy.mil

COMM: (301) 757-8280
DSN: 757-8280
FAX: (301) 342-7737

Mr. Bob Kresge
NTSP Manager
NAVAIR, AIR 3.4.1
kresgerj@navair.navy.mil

COMM: (301) 757-1844
DSN: 757-1844
FAX: (301) 342-7737

ATCS Jeff Hall
NTSP Coordinator
NAVAIR, AIR 3.4.1
halljd3@navair.navy.mil

COMM: (301) 757-3109
DSN: 757-3109
FAX: (301) 342-7737

ATC Jeff Rocheteau
NTSP Analyst
NAVAIR, AIR 3.4.1
rocheteaurj@navair.navy.mil

COMM: (301) 757-8292
DSN: 757-8292
FAX: (301) 342-7737

AZC Ira Haraughty
NTSP Analyst
NAVAIR, AIR 3.4.1
haraughtyif@navair.navy.mil

COMM: (301) 757-8281
DSN: 757-8281
FAX: (301) 342-7737

SUMMARY OF COMMENTS

ON THE

AMTCS CBTSI

“TECHNOLOGY INFUSION INITIATIVE”

DRAFT NAVY TRAINING SYSTEM PLAN

OF JUNE 2001

N88-NTSP-A-50-9907/D

Prepared by: AZC Ira F. Haraughty, AIR-3.4.1
Contact at: (301) 757-8281
Date submitted: 24 October 2002



**COMMENTS / RECOMMENDATIONS ON THE
AMTCS CBTSI “TECHNOLOGY INFUSION INITIATIVE”
DRAFT NAVY TRAINING SYSTEM PLAN**

TABLE OF CONTENTS

ACTIVITIES PROVIDING COMMENTS:

Chief of Naval Operations (N789H1).....	1
Naval Air Systems Command (PMA205).....	2
Commander, Naval Air Force U.S., Pacific Fleet (N422F0).....	3
Commander, Naval Air Force U.S., Atlantic Fleet (N422F1).....	4



**COMMENTS / RECOMMENDATIONS ON THE
AMTCS CBTSI “TECHNOLOGY INFUSION INITIATIVE”
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: Chief of Naval Operations, N789H1

COMMENT: General

Numerous format and grammatical errors.

INCORPORATED: Yes

REMARKS: None



**COMMENTS / RECOMMENDATIONS ON THE
AMTCS CBTSI “TECHNOLOGY INFUSION INITIATIVE”
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: Naval Air Systems Command (PMA205)

COMMENT: Throughout

Remove Fleet Training Device (FTD) and replace with AMTCS Training Device.

INCORPORATED: YES

REMARKS: None

COMMENT: General

Add NOMP and include all aviation platforms to executive summary.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-2, paragraph D.1, third sub-paragraph

Modify sentence by removing “remediation” and replacing it with “real-time just-in-time training.”

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-3, paragraph D.1, second sub-paragraph

Add the direct and indirect support for those missions.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-3, paragraph D.1, third sub-paragraph

Add technology training such as NDI, Aeronautical Welding, Micro Miniature Repair, and Weapons.

INCORPORATED: YES

REMARKS: None



**COMMENTS / RECOMMENDATIONS ON THE
AMTCS CBTSI “TECHNOLOGY INFUSION INITIATIVE”
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: Commander, Naval Air Force U.S. Pacific Fleet (N422F0)

COMMENT: Part II

Incorporate COMNAVAIRPAC manpower estimates in Part II.

INCORPORATED: Yes

REMARKS: None

COMMENT: Page II-1, Note 2

Should read MH-46 is phasing out CH-46 aircraft.

INCORPORATED: Yes

REMARKS: None



**COMMENTS / RECOMMENDATIONS ON THE
AMTCS CBTSI “TECHNOLOGY INFUSION INITIATIVE”
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: Commander, Naval Air Force U.S. Atlantic Fleet (N422F1)

COMMENT: Part II

Incorporate COMNAVAIRLANT manpower estimates in Part II.

INCORPORATED: Yes

REMARKS: None