DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

CABLE HARNESS REPAIR OR

MANUFACTURING EQUIVALENCE PROGRAM

N88-NTSP-A-50-8512B/D

JANUARY 2000

CABLE HARNESS REPAIR OR MANUFACTURING EQUIVALENCE PROGRAM

EXECUTIVE SUMMARY

This Navy Training System Plan identifies manpower, personnel, and training requirements associated with the Cable Harness Repair Or Manufacturing Equivalence (CHROME) Program. As a result of a 1986 Government Accounting Office Investigation citing wiring problems as the leading consumer of aircraft unscheduled maintenance man-hours, intermediate level Cable and Connector Repair Shop (Work Center 69C) was established. The investigation concluded that the absence of a repair and manufacturing capability for aircraft wiring and cables contributed significantly to Non-Mission Capable and Partial Mission Capable rates. In September 1996, Chief of Naval Operations (N881) identified the CHROME equipment as an APN-7 approved requirement. All CHROME equipment is a Commercial Off-The-Shelf acquisition. The CHROME Program separates equipment into three groups. Group 0 consists of the A/U24T-1 (V) Wire Test Set, A/E32M-38 Wiring Systems Repair Tool Set, A/E 32M-37 Wiring Systems Repair Tool Set (shore sites only), and A/E32M-58 Wiring Systems Repair Tool Set (Marine Corps only). Group I consists of two pneumatic wire crimpers, a pneumatic wire stripper, labeling machine, instant connector kit, air compressor for the Marine Corps, and a six volume set of connector encyclopedias. Group II includes a wire braiding machine and wire processor.

Group 0 equipment entered acquisition Phase III (Production, Deployment, and Operational Support) in August 1995 with a Material Support Date of September 1997. Group I equipment passed Support Equipment Decision (SED) III in June 1997, and was delivered to fleet activities in July 1997. Group II equipment is expected to reach SED III in September 2000, with an estimated Initial Operating Capability of March 2001. Through the use of Groups 0 and I equipment, authorized Intermediate Maintenance Activities (IMA) will test wiring assemblies for pin-to-pin continuity, insulation breakdown, and overall wiring system performance. After fault isolation, the IMA will repair wiring harness assemblies and return them to a Ready For Issue (RFI) status. If repair is uneconomical or unfeasible, the IMA will manufacture a new assembly.

Intermediate level maintenance is performed by Navy Aviation Electrician's Mate (AE) and Aviation Electronics Technician (AT) personnel, and Marine Corps personnel with Military Occupational Specialty (MOS) 6423, Aviation Electronic Micro-Miniature/Instrument and Cable Repair Technicians. Due to the simplicity of CHROME, no additional maintenance manpower is required. CHROME follow-on training is provided by Maintenance Training Unit (MTU) 1037 Naval Air Maintenance Group Detachment (NAMTRAGRU DET) Naval Air Station (NAS) Jacksonville, Florida, and MTU 1067, NAMTRAGRU DET NAS North Island, California.

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LIST OF ACRONYMS

ACC	Aircraft Controlling Custodian
AE	Aviation Electrician's Mate
AEID	Aircraft Electrical Interface Device
AIMD	Aircraft Intermediate Maintenance Department
ALSP	Acquisition Logistics Support Plan
AMTCS	Aviation Maintenance Training Continuum System
AOB	Average Onboard
AT	Aviation Electronics Technician
CBT	Computer-Based Training
CHROME	Cable Harness Repair Or Manufacturing Equivalence
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, United States Atlantic Fleet
CINCPACFLT	Commander in Chief, United States Pacific Fleet
CMC	Commandant of the Marine Corps
CNATRA	Chief of Naval Air Training
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMNAVAIRESFOR	Commander, Naval Air Reserve Force
COMNAVRESFOR	Commander, Naval Reserve Force
DT	Developmental Test
FY	Fiscal Year
GPETE	General Purpose Electronic Test Equipment
GPTE	General Purpose Test Equipment
IMA	Intermediate Maintenance Activity
IOC	Initial Operating Capability
IPB	Illustrated Parts Breakdown
MAG	Marine Air Group
MALS	Marine Aviation Logistics Squadron
MATMEP	Marine Training Management and Evaluation Program
MOS	Military Occupational Specialty
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program

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LIST OF ACRONYMS

MTU	Maintenance Training Unit
NA	Not Applicable
NAMP	Naval Aviation Maintenance Program
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAS	Naval Air Station
NATEC	Naval Air Technical Data and Engineering Service Command
NAVAIRSYSCOM	Naval Air Systems Command
NAVICP	Naval Aviation Inventory Control Point
NAWC	Naval Air Warfare Center
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWCADLKE	Naval Air Warfare Center Aircraft Division Lakehurst
NSD	Navy Support Date
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instructions
OPO	OPNAV Principal Official
OT	Operational Test
PMA	Program Manager, Air
PSICP	Program Support Inventory Control Point
RAIMD	Reserve Aircraft Intermediate Maintenance Department
RFT	Ready For Training
SED	Support Equipment Decision
SM&R	Source, Maintenance, and Recoverability
SPETE	Special Purpose Electronic Test Equipment
SPTE	Special Purpose Test Equipment
ST	Special Tools
SU	Switching Unit
TBD	To Be Determined
TCU	Test Control Unit
TD	Training Device
TECHEVAL	Technical Evaluation
TFS	Total Force Structure

CABLE HARNESS REPAIR OR MANUFACTURING EQUIVALENCE PROGRAM

LIST OF ACRONYMS

TTE	Technical Training Equipment
TYCOM	Type Commander
ULSS	Users Logistic Support Summary
UUT	Unit Under Test
WTS	Wire Test Set

CABLE HARNESS REPAIR OR MANUFACTURING EQUIVALENCE PROGRAM

PREFACE

This Draft Navy Training System Plan (NTSP) for the Cable Harness Repair Or Manufacturing Equivalence (CHROME) Program has been prepared to update the Connector and Wiring Harness Repair and Manufacturing Program Navy Training Plan, A-50-8512A, dated July 1989. This NTSP complies with guidelines set forth in the Navy Training Requirements Documentation Manual and reflects the latest information available. Specifically, this includes the addition of new equipment, revisions in intermediate maintenance training, and updates to the milestone chart and points of contact list.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Cable Harness Repair Or Manufacturing Equivalence (CHROME)

2. Program Element. 84771X

B. SECURITY CLASSIFICATION

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

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N881)

OPO Resource Sponsor ..... CNO (N889H)

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

Developing Agency..... NAVAIRSYSCOM (PMA260)

Training Agency ..... CINCLANTFLT
CINCPACFLT
CNET
COMNAVRESFOR

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

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-40, PERS-404)

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

Marine Corps Combat Development Command
Manpower Management ..... TFS Division

D. SYSTEM DESCRIPTION

1. Operational Uses. The purpose of the CHROME Program is to establish an intermediate level of repair or manufacture of aircraft electrical cables and wiring assemblies. All CHROME equipment is obtained through Commercial Off-The-Shelf acquisitions. The CHROME Program separates equipment into three groups as follows.

Group 0:

- A/U24T-1 (V) Wire Test Set (WTS)
- A/E32M-38 Wiring Systems Repair Tool Set
- A/E 32M-37 Wiring Systems Repair Tool Set (shore sites only)
- A/E32M-58 Wiring Systems Repair Tool Set (Marine Corps only)

Group I

- Pneumatic wire stripper
- Pneumatic wire crimpers - two types
- Labeling machine
- Instant connector kit
- Air compressor (Marine Corps only)
- Six volume set of encyclopedias of connectors

Group II

- Wire braiding machines - two types
- Wire processor

2. Foreign Military Sales. Not Applicable (NA)

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Developmental Test (DT) was successfully completed in August 1988 for Group 0 equipment at the Naval Air Warfare Center, Aircraft Division (NAWCAD) Indianapolis. Operational Test (OT) and Technical Evaluation (TECHEVAL) was not conducted for Group 0 equipment.

OT was successfully conducted by NAWCAD at Patuxent River, Maryland, in May 1994 for Group I equipment. DT and TECHEVAL was not conducted for Group I equipment.

Group II equipment is scheduled for TECHEVAL in July 2000 at NAWCAD Lakehurst (NAWCADLKE), New Jersey. DT and OT are not scheduled for Group II equipment.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. No weapon system, equipment, or program is being replaced. The CHROME Program was established to increase the repair and manufacture capability of faulty cables and wiring harness assemblies for support equipment and aircraft. Previously, most aircraft cables were Source Maintenance and Recoverability (SM&R) coded as consumable or depot only repairable items,

and when determined to be faulty, were discarded by Navy and Marine Corps organizational level maintenance activities. The absence of an intermediate level maintenance repair and manufacturing capability for aircraft wiring and cable assemblies contributed significantly to unacceptable Non Mission Capable and Partial Mission Capable rates.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description

a. Group 0. The A/U24T-1 (V) WTS performs continuity and insulation testing, and aids in manufacture of wire harness assemblies. The WTS is portable, computer controlled, and consists of two major components, the Test Control Unit (TCU) TTU-543/U24T-1 (V), and from one to four Switching Units (SU) SWU-79U24T-1 (V). The WTS interfaces with the Unit Under Test (UUT) through adapters and buffer cables to perform test and diagnostic routines. Utilizing one SU, the test set provides 500 test points on the UUT. Utilizing four SUs, the test set provides 2,000 test points to measure continuity, resistance, and insulation breakdown between two UUT test points. The Wiring Systems Repair Tool Set contains common tools, special tools, and accessories used for wiring harness repair or manufacture.

b. Group I

(1) Pneumatic Wire Stripper. The Pneumatic Wire Stripper is a hand-held device that uses compressed air to strip the insulation from the wire.

(2) Pneumatic Wire Crimper (Type I). The Pneumatic Wire Crimper (Type I) is a hand-held device that uses compressed air to crimp contacts to small gauge wires.

(3) Pneumatic Wire Crimper (Type II). The Pneumatic Wire Crimper (Type II) is a hand-held device that uses compressed air to crimp contacts to large gauge wires.

(4) Labeling Machine. The Labeling Machine is a device capable of printing a variety of labels used to mark cables, wires, terminal blocks, and other electronic components.

(5) Instant Connector Kit. The Instant Connector Kit is a kit used to fabricate connectors from polyethylene. This kit eliminates the procurement lead-time of connectors when a technician has an immediate need to manufacture an adapter cable for the WTS.

(6) Encyclopedia of Connectors. The Encyclopedia of Connectors is a six volume set of books containing detailed connector configuration, ordering information, lists of manufacturers, commercial and military part numbers, contacts, tools, drawings, dimensional data, and military specifications related to plating, testing, and wire.

c. Group II

(1) Braiding Machine. The Braiding Machine is an electro-mechanical device that braids cable assemblies with an external metal or cloth material to provide Electro-Magnetic Interference (EMI) shielding, additional chafe protection, and durability.

(2) Wire Processor. The Wire Processor is used for measuring, trimming, stripping, and preparing electrical wire for assembly into aircraft wiring harness assemblies.

2. Physical Description. CHROME Group 0 through Group II equipment is assigned to Work Center 69C. The physical description of each unit is as follows:

EQUIPMENT	L x W x H (INCHES)	WEIGHT (POUNDS)
GROUP 0:		
WTS A/U24T-1(V) TCU, TTU-543/U24T-1(V)	18 x 20 x 11	50
SU, SWU-79/U24T-1(V)	21x 19 x 12	47
Basic, A/E32M-38 Wiring System Repair Tool Set	33 x 46 x 60	204
Shore Supplemental A/E32M-38 Wiring System Repair Tool Set	33 x 46 x 60	204
Marine Corps, A/E32M-38 Wiring System Repair Tool Set	33 x 46 x 60	204
GROUP I:		
Pneumatic Wire Stripper	7 x 2 x 3	2
Pneumatic Wire Crimper (Type I)	8 x 2 x 2	3
Pneumatic Wire Crimper (Type II)	10 x 3 x 3	5
Labeling Machine	18 x 8 x 5	7
Instant Connector Kit	14 x 10 x 4	10
Portable Air Compressor	36 x 18 x 30	150
GROUP II:		
Wire Braiding Machine	40 x 40 x 72	700
Wire Processor	17 x 15 x 12	70

3. New Development Introduction. NA

4. Significant Interfaces. NA

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. CHROME equipment is designed to be operated by qualified intermediate level maintenance personnel through use of the WTS, General Purpose Test Equipment (GPTE), and Common Support Equipment (CSE). Navy Aviation Electrician's Mates (AEs) and Aviation Electronics Technicians (ATs), and Marine Corps personnel with Military Occupational Specialty (MOS) 6423 will test wiring assemblies for pin-to-pin continuity, insulation breakdown, and overall wiring system performance. After fault isolation, the local Intermediate Maintenance Activity (IMA) will repair the wiring harness assemblies and return them to a Ready For Issue (RFI) status. If repair of an assembly is determined to be uneconomical or unfeasible, the technician will manufacture a new assembly using common and special tools and equipment. Special tool kits and equipment are identified in Part IV.A.2. of this NTSP.

2. Maintenance Concept. General direction and guidance regarding the maintenance concept for the CHROME Program is provided by the Naval Aviation Maintenance Program (NAMP), OPNAVINST 4790.2G. The NAMP prescribes the concept of three levels of maintenance: organizational, intermediate, and depot. Maintenance level assignment is determined by which level has the resources to effectively and economically accomplish the maintenance action, and organizational structure for collection of data to manage the NAMP.

a. Organizational. NA

b. Intermediate

(1) Preventive Maintenance

(a) Group 0. There are no special preventive maintenance tasks required for the WTS or Wiring Systems Repair Tool Sets, therefore, a Maintenance Requirement Card deck was not developed.

(b) Group I. Preventive maintenance is conducted during the pre-operational inspection and per commercially provided operational instructions.

(c) Group II. Procedures encompassing all types of Wire Braiders and Wire Processors include:

- Daily Inspection (Wire Braider and Wire Processor)
- Track Surface Lubrication (Wire Braider)
- Track Surface Cleaning (Wire Braider)
- Feed Wheel and Wire Cutting-Splicing Blade Inspection (Wire Processor)

(2) Corrective Maintenance

(a) Group 0. Corrective maintenance includes removal and replacement of defective sub-assemblies detected during automated WTS self-test operation. After performing corrective maintenance, operators can run a self-test to verify the integrity of the WTS.

(b) Group I. There is no formal corrective maintenance for these items. The equipment is consumable and should be repaired or replaced by the IMAs, per the NAMP.

(c) Group II. Per SM&R codes, intermediate level maintenance personnel will perform repairs of the end item and sub-assemblies, as required. Corrective maintenance will consist of the following:

- Fault Locating
- Removal and Replacement of Faulty Sub-Assemblies

c. Depot. NA

d. Interim Maintenance. Technical assistance is provided by Naval Air Technical Data and Engineering Service Command (NATEC) representatives and project engineers at NAWCADLKE. The Navy Support Dates (NSDs) for CHROME equipment are as follows:

Group 0..... September 1, 1998
Group I ..... September 30, 1997
Group II ..... March 1, 2003

e. Life Cycle Maintenance Plan. NA

3. Manning Concept. The maintenance workload and functional operational requirements drive the Navy manning concept for the CHROME Program. There is no requirement for the Navy to create a new Navy Enlisted Classification (NEC) for personnel assigned to Work Center 69C who complete Aircraft Electrical Interface Devices (AEID) intermediate level training, and no changes in the current manning levels are required.

4. Training Concept. Follow-on training for CHROME is provided by Maintenance Training Unit (MTU) 1037, Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET), Naval Air Station (NAS) Jacksonville, Florida, and MTU 1067, NAMTRAGRU DET, NAS North Island, California.

Selected Reserve personnel may earn intermediate level maintenance qualifications by attending formal training at NAMTRAGRU DETs providing quotas, funding, for students are available to attend the training. Specific guidelines are contained in NAVPERS 18068F Volume II, Chapter IV, Navy Enlisted Classifications.

The established training concept for most aviation maintenance training divides "A" School courses into two or more segments called Core and Strand. The "C" School courses are also divided into separate Initial and Career training courses. "A" School Core courses include general knowledge and skills training for the particular rating, while "A" School Strand courses focus on more specialized training requirements for that rating and a specific aircraft or equipment, based on the student's fleet activity destination. Strand training immediately follows Core training and is part of the "A" School.

a. Initial Training. Dual and Associates developed the Aircraft Electrical Interface Devices Intermediate Level Maintenance course and provided one session of initial training at MTU 1003, NAMTRAGRU DET NAS Oceana, Virginia, during March and April 1989. Two sessions of Group II initial training are planned in January 2001. When information on the location and length of the two initial training sessions for Group II becomes available it will be included in updates to this NTSP.

Title	**Aircraft Electrical Interface Devices Intermediate Level Maintenance Initial Training**
Description	This course provided MTU instructors and cadre maintenance personnel with the knowledge and skills necessary to teach intermediate level cable harness and wiring repair and manufacturing.
Location	MTU 1003, NAMTRAGRU DET NAS Oceana
Length	12 days
RFT date	Completed

b. Follow-on Training. All CHROME equipment has been included in the October 1998 revision of the AEID course. Group I equipment includes common tools and does not require in-depth technical training. Therefore, it does not significantly impact the follow-on course. Group 0 and II equipment requires in-depth technical training to enhance skills and techniques required to braid and manufacture cable harnesses, and repair wire braiding and wire processing machinery.

Title	**Aircraft Electrical Interface Devices Intermediate Level Maintenance**
CIN	C-602-3023 (Part of track M-102-6423, USMC only)
Model Manager ...	MTU 1037, NAMTRAGRU DET NAS Jacksonville

Description	This course provides ATs and AEs with sufficient skills and knowledge of aircraft electrical interface devices to perform, under close supervision, repair and remanufacture of aircraft cables, and wiring assemblies in an IMA working environment.
Locations..... .	MTU 1037, NAMTRAGRU DET NAS Jacksonville MTU 1067, NAMTRAGRU DET NAS North Island
Length	19 days
RFT date	Currently available
Skill identifier…..	NEC is NA; MOS 6423
TTE/TD	TD is NA; refer to element IV.A.1 for TTE.
Prerequisites	AE: C-602-3039, Aviation Electrician's Mate O Level Strand Class A1 or equivalent AT: C-100-2017, Avionics Technician I Level Class A1 or equivalent

c. Student Profiles

SKILL IDENTIFIER	**PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS**
AE	C-100-2020, Avionics Common Core Class A1 C-602-2039, Aviation Electrician's Mate O Level Strand Class A1
AT	C-100-2020, Avionics Common Core Class A1 C-100-2017, Avionics Technician I Level Class A1
MOS 6423	C-100-2020, Avionics Common Core Class A1 C-602-2039, Aviation Electrician's Mate O Level Strand Class A1 M-102-6423, USMC Miniature/Instrument/Cable Repair Technician

d. Training Pipelines. As a result of the Work Center 640, 650, and 690 Maintenance Training Requirements Review (MTRR) held at NAS Norfolk, 16 - 20 June 1997, Chief of Naval Operations (CNO) (N889) authorized the Marine Corps to re-establish the training pipeline for M-102-6423. The following is a list of courses within this re-established pipeline:

MOS 6423, AVIATION ELECTRONIC MICRO-MINIATURE / INSTRUMENT AND CABLE REPAIR		
CIN	**TITLE**	**LENGTH**
A-100-0072	Miniature Electronics Repair	26 days
C-602-3023	Aircraft Electrical Interface Devices Intermediate Level Maintenance	19 days
C-602-3019	Sealed Instrument Repair	54 days

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. The Maintenance Training Improvement Program (MTIP) is used to establish an effective and efficient training system responsive to fleet training requirements. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at the organizational and intermediate levels of maintenance. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions managed through automated data processing. The Deputy Chief of Staff for Training assisted in development of MTIP by providing those question banks (software) already developed by the Navy. MTIP was implemented per OPNAVINST 4790.2 series. MTIP allows increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Refresher training is concentrated where needed to improve identified skill and knowledge shortfalls. (MTIP will be replaced by Aviation Maintenance Training Continuum System (AMTCS). Currently planning is for AMTCS to begin initial implementation in third quarter Fiscal Year (FY) 00.

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

b. Aviation Maintenance Training Continuum System. AMTCS provides the Sailor/Marine career path training from their initial service entry to the end of their military career. AMTCS is an integrated system which satisfies the training/administrative requirements of both the individual and the organization; the benefits are manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. By capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

AMTCS provides a cost effective training continuum as an integrated system, which satisfies the training and administrative requirements of both the individual technician Sailor or Marine and the organization. Technology investments enabled the development of several state-of-the-art

training and administrative tools: Computer-Based Training (CBT) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module (ASM) which provides testing {Test and Evaluation (TEV)}, recording {Electronic Training Jacket (ETJ)}, and a Feedback system. The core functionality of these AMTCS tools are based and designed around actual maintenance related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List (MTL) data bank. These tools are procured and fielded with appropriate COTS hardware and software i.e. Fleet Training Devices (FTD) - Laptops, PCs; Electronic Class Rooms (ECR); Learning Resource Centers (LRC) and operating software, network software and hardware.

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

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System and Maintenance Training Management and Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training. (MATMEP is planned to be replaced by AMTCS.)

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. The following is a list of CHROME equipment, manufacturers, and contract numbers:

CONTRACT NUMBER	**MANUFACTURER**	**ADDRESS**
GROUP 0:		
N00163-93-C-0100 WTS AU24T-1(V)	CSTS Inc.	1719 Elsbrook Lane Anaheim, CA

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00163-92-C-0185 - Wiring System Repair Tool Set	Daniel's Manufacturing Corporation	526 Thorpe Road Orlando, FL
GROUP I:		
N68335-97-M-3647 - Pneumatic Crimp Tool (Small Wire)	Daniel's Manufacturing Corporation	6400 Shafer Court Suite 350 Rosemont, IL 60018
N68335-97-M-3647 - Pneumatic Crimp Tool (Large Wire)	Daniel's Manufacturing Corporation	6400 Shafer Court Suite 350 Rosemont, IL 60018
N68335-97-M-3653 - Labeling System Kit	R.S. Hughes Company	4643 South 32nd Street Phoenix, AZ 85040
N68335-97-M-3650 - Pneumatic Wire Stripper	R.S. Hughes Company	4643 South 32nd Street Phoenix, AZ 85040
N68335-97-M-3579 - Instant Connector Repair Kit	Wiring Analyzers, Inc.	P.O. Box 1416 Edmonds, WA 98020
N68335-97-M-3652 - Encyclopedia of Connectors	Edwards Publishing Company, Inc.	14129 Chadron Avenue P.O. Box 1668 Hawthorne, CA 90251

Note: Group II contract award is anticipated for January 2000.

2. Program Documentation. A Users Logistics Support Summary (ULSS) for the Group 0 WTS was developed by Naval Air Warfare Center (NAWC) Indianapolis, and approved 20 February 1996 by Program Manager, Air (PMA) 260. A ULSS and an Acquisition Logistics Support Plan (ALSP) for Group I was developed and approved by NAWCADLKE, 19 May 1994 and 11 March 1997, respectively. There is an ALSP developed for Group II, but it is on hold due to date slippage.

3. Technical Data Plan. An advanced technical manual was developed for the Group 0 WTS and was delivered with equipment. Due to the simplicity of Group I equipment, formal Naval Air Systems Command technical manual numbers will not be assigned to any Group I equipment, and a Technical Manual Contract Requirement is not required. Manufacturers provided a user's guide with each piece of equipment delivered. The Contractor will provide off-the-shelf commercial manuals for Group II equipment.

4. Test Sets, Tools, and Test Equipment. Special tools and test equipment requirements have been determined by NAWCADLKE. Test sets, tools, and test equipment for the intermediate level course are identified in element IV.A.1. of this NTSP.

5. Repair Parts

a. Group 0. The Naval Aviation Inventory Control Point (NAVICP) Mechanicsburg, Pennsylvania, will serve as the Program Support Inventory Control Point (PSICP) and provide complete post-Material Support Date (MSD) supply support for the WTS. MSD was achieved in September 1997.

b. Group I. The Group I CHROME equipment is consumable; therefore, there will be minimal supply support required. These consumables are identified in the ULSS. Detailed supplier information is provided to allow the user to order through open purchase. Provisioning was not required. MSD and Initial Operating Capability (IOC) were both achieved in July 1997.

c. Group II. NAVICP will serve as the PSICP. Spare parts will be provided based on the most practical level of repair. This level will be determined by NAWCADLKE. Full provisioning will be determined by the NAVICP based on documentation provided by NAWCADLKE. MSD is scheduled for March 2002.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. The delivery schedule for CHROME Group 0, I, and II Equipment is as follows:

ACTIVITY	GROUP 0	GROUP I	GROUP II
AIMD Atsugi	3/95	***	TBD
AIMD Barbers Point	3/95		
AIMD Brunswick	12/94		
AIMD China Lake	3/95	9/97	
AIMD Corpus Christi	3/95	9/97	
AIMD Diego Garcia	3/95		
AIMD Fallon	3/95		
AIMD Jacksonville	12/94	9/97	TBD
AIMD Keflavik	1/95		
AIMD Lemoore	3/95	***	

ACTIVITY	GROUP 0	GROUP I	GROUP II
AIMD Mayport	1/95		
AIMD Misawa	3/95		
AIMD Norfolk	12/94	9/97	
AIMD North Island	3/95	9/97	TBD
AIMD Oceana	10/94	9/97	TBD
AIMD Rota	12/94		
AIMD Sigonella	12/94	9/97	TBD
AIMD Whidbey Island	3/95	9/97	TBD
CV 62 USS Independence	3/95	9/97	
CV 63 USS Kitty Hawk	3/95	9/97	
CV 64 USS Constellation	3/95	9/97	
CV 67 USS John F. Kennedy	1/95	9/97	
CVN 65 USS Enterprise	12/94	9/97	
CVN 68 USS Nimitz	3/95	9/97	
CVN 69 USS Dwight D. Eisenhower	10/94		
CVN 70 USS Carl Vinson	3/95	9/97	
CVN 71 USS Theodore Roosevelt	10/94	9/97	
CVN 72 USS Abraham Lincoln	3/95	9/97	
CVN 73 USS George Washington	12/94	9/97	
RAIMD Atlanta	10/94	9/97	TBD
RAIMD Fort Worth	10/94	9/97	
RAIMD New Orleans	10/94		
RAIMD Willow Grove	12/94	9/97	
NAWCAD Patuxent River	12/94	9/97	TBD
NAWCAD Lakehurst	10/94	9/97	TBD
MTU 1067 North Island	10/94	9/97	TBD
MTU 1037 Jacksonville	10/94	9/97	TBD
MALS-11 Miramar	3/95	9/97	TBD

ACTIVITY	GROUP 0	GROUP I	GROUP II
MALS-12 Iwakuni	3/95	9/97	TBD
MALS-13 Yuma	3/95	9/97	TBD
MALS-14 Cherry Point	12/94	9/97	TBD
MALS-16 Miramar	3/95	9/97	TBD
MALS-26 New River	12/94	9/97	TBD
MALS-29 New River	12/94	9/97	TBD
MALS-31 Beaufort	12/94	9/97	TBD
MALS-36 Futenma	3/95	9/97	TBD
MALS-39 Camp Pendleton	3/95	9/97	TBD
MALS-41 Dallas	12/94	***	TBD
MALS-49 Stewart	10/94		
MALS-42 Atlanta	12/94	***	TBD
NAWCAD China Lake		9/97	
CNATRA Corpus Christi	3/95	9/97	
AIMD Pensacola	***	9/97	TBD

*** Indicates activities which did not initially receive CHROME Groups 0 and I equipment and will require them for full capability. During the FY99 APN-7 conference Aircraft Controlling Custodian (ACC) and Type Commanders (TYCOMs) approved the acquisition of additional Group 0 and I equipment for those activities receiving CHROME Group II equipment. Empty fields in the table indicate no plans for the activities to receive that category equipment. The APN-7 conference also changed the CHROME program to ashore units only; however, at ACC/TYCOM discretion, CHROME equipment may remain onboard those sea activities already in receipt. Any changes to the above schedule will be included in future updates to this NTSP.

2. Ready For Operational Use Schedule. All CHROME Program equipment items are Ready for Operational Use upon receipt.

3. Time Required to Install at Operational Sites. None of the CHROME Program equipment items require special or non-standard installation for Navy Aircraft Intermediate Maintenance Departments (AIMDs), however Marine mobile facilities configuration ST01 is being reconfigured as WR01 to accommodate CHROME equipment at Marine Corps IMAs. Upgraded facilities will be available to meet the developed delivery schedule.

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

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

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

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
ULSS Cable Harness Repair or Manufacturing Equivalent Equipment Group I	NAWCADLKE U76097-004	NAWCADLKE	Approved May 94
ULSS A/U24T-1(V) Wire Test Set	NA	PMA260	Approved Feb 96
ALSP Cable Harness Repair or Manufacturing Equivalent Equipment Group I	176097-004	NAWCADLKE	Approved Mar 97
ALSP Cable Harness Repair or Manufacturing Equivalent Equipment Group II	76097009	PMA260	Approved Sep 97

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

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

SOURCE: Total Force Manpower Management System **DATE:** 09/98

The following is a Group 0 Activation Schedule

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITY - EAST	USN					
AIMD Brunswick, 60087	1	0	0	0	0	0
AIMD Jacksonville, 44319	1	0	0	0	0	0
AIMD Keflavik, 63032	1	0	0	0	0	0
AIMD Mayport, 60201	1	0	0	0	0	0
AIMD Norfolk, 44325	1	0	0	0	0	0
AIMD Oceana, 60191	1	0	0	0	0	0
AIMD Rota, 44374	1	0	0	0	0	0
AIMD Sigonella, 44330	1	0	0	0	0	0
CV 67 USS John F. Kennedy, 03367	1	0	0	0	0	0
CVN 65 USS Enterprise, 03365	1	0	0	0	0	0
CVN 69 USS Dwight D. Eisenhower, 03369	1	0	0	0	0	0
CVN 71 USS Theodore Roosevelt, 21247	1	0	0	0	0	0
CVN 73 USS George Washington, 21412	1	0	0	0	0	0
RAIMD Atlanta, 44486	1	0	0	0	0	0
RAIMD New Orleans, 44490	1	0	0	0	0	0
RAIMD Willow Grove, 44493	1	0	0	0	0	0
NAWCAD Patuxent River, 00421	1	0	0	0	0	0
NAWCAD Indianapolis, 00136	1	0	0	0	0	0
MTU 1037 Jacksonville 66051	1	0	0	0	0	0
TOTAL:	19	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST	USN					
AIMD Atsugi, 44323	1	0	0	0	0	0
AIMD Barbers Point, 44321	1	0	0	0	0	0
AIMD Diego Garcia, 44337	1	0	0	0	0	0
AIMD Fallon, 44317	1	0	0	0	0	0
AIMD Lemoore, 44321	1	0	0	0	0	0
AIMD Misawa, 44331	1	0	0	0	0	0
AIMD North Island, 44326	1	0	0	0	0	0
AIMD Whidbey Island, 44329	1	0	0	0	0	0
CV 63 USS Kitty Hawk, 03363	1	0	0	0	0	0
CV 64 USS Constellation, 03364	1	0	0	0	0	0
CVN 68 USS Nimitz, 03368	1	0	0	0	0	0
CVN 70 USS Carl Vinson, 20993	1	0	0	0	0	0
CVN 72 USS Abraham Lincoln, 21297	1	0	0	0	0	0
RAIMD Fort Worth, 44487	1	0	0	0	0	0
NAWCAD China Lake, 39787	1	0	0	0	0	0
MTU 1067 North Island, 66065	1	0	0	0	0	0
CNATRA Corpus Christi, 00216	1	0	0	0	0	0
TOTAL:	18	0	0	0	0	0

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

SOURCE: Total Force Manpower Management System **DATE:** 09/98

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITY - EAST	USMC					
MALS-14 Cherry Point, 09114	1	0	0	0	0	0
MALS-26 New River, 09167	1	0	0	0	0	0
MALS-29 New River, 52841	1	0	0	0	0	0
MALS-31 Beaufort, 09131	1	0	0	0	0	0
MALS-49 Stewart, 09808	1	0	0	0	0	0
NAS Jacksonville, 44319	1	0	0	0	0	0
TOTAL:	6	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST	USMC					
MALS-11 Miramar, 09111	1	0	0	0	0	0
MALS-12 Iwakuni, 09112	1	0	0	0	0	0
MALS-13 Yuma, 55585	1	0	0	0	0	0
MALS-16 Miramar, 55583	1	0	0	0	0	0
MALS-36 Futenma, 09136	1	0	0	0	0	0
MALS-39 Camp Pendleton, 09808	1	0	0	0	0	0
MALS-41 Dallas, 83447	1	0	0	0	0	0
MAG-41 Fort Worth, 09714	1	0	0	0	0	0
TOTAL:	8	0	0	0	0	0

Note: Installation of CHROME equipment for the USS John C. Stennis (CVN-74), USS Harry S. Truman (CVN-75), and USS Ronald Reagan is to be determined.

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

SOURCE: Total Force Manpower Management System **DATE:** 09/98

The following is a Group I Activation Schedule

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITY - EAST	USN					
AIMD Jacksonville, 44319	1	0	0	0	0	0
AIMD Oceana, 60191	1	0	0	1	0	0
AIMD Sigonella, 44330	1	0	0	0	0	0
CV 67 USS John F. Kennedy, 03367	1	0	1	0	0	0
CVN 65 USS Enterprise, 03365	1	0	0	0	0	0
CVN 69 USS Dwight D. Eisenhower, 03369	1	0	0	0	0	0
CVN 71 USS Theodore Roosevelt, 21247	1	0	0	0	0	0
CVN 73 USS George Washington, 21412	1	0	0	0	0	0
RAIMD Atlanta, 44486	1	0	0	0	0	0
RAIMD Willow Grove, 44493	1	0	0	0	0	0
NAWCAD Patuxent River, 00421	1	0	0	0	0	0
NAWCAD Indianapolis, 00136	1	0	0	0	0	0
MTU 1037 Jacksonville 66051	1	0	0	0	0	0
TOTAL:	13	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST	USN					
AIMD Lemoore, 44321	1	0	0	0	0	0
AIMD North Island, 44326	1	0	0	0	0	0
AIMD Whidbey Island, 44329	1	0	0	0	0	0
CV 63 USS Kitty Hawk, 03363	1	0	0	0	0	0
CV 64 USS Constellation, 03364	1	0	0	0	0	0
CVN 68 USS Nimitz, 03368	1	0	0	0	0	0
CVN 70 USS Carl Vinson, 20993	1	0	0	0	0	0
CVN 72 USS Abraham Lincoln, 21297	1	0	0	0	0	0
RAIMD Fort Worth, 44487	1	0	0	0	0	0
NAWCAD China Lake, 39787	1	0	0	0	0	0
MTU 1067 North Island, 66065	1	0	0	0	0	0
CNATRA Corpus Christi, 00216	1	0	0	0	0	0
TOTAL:	12	0	0	0	0	0
FLEET SUPPORT ACTIVITY - EAST	USMC					
MALS-14 Cherry Point, 09114	1	0	0	0	0	0
MALS-26 New River, 09167	1	0	0	0	0	0
MALS-29 New River, 52841	1	0	0	0	0	0
MALS-31 Beaufort, 09131	1	0	0	0	0	0
TOTAL:	4	0	0	0	0	0

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

SOURCE: Total Force Manpower Management System **DATE:** 09/98

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITY - WEST	USMC					
MALS-11 Miramar, 09111	1	0	0	0	0	0
MALS-12 Iwakuni, 09112	1	0	0	0	0	0
MALS-13 Yuma, 55585	1	0	0	0	0	0
MALS-16 Miramar, 55583	1	0	0	0	0	0
MALS-36 Futenma, 09136	1	0	0	0	0	0
MALS-39 Camp Pendleton, 09808	1	0	0	0	0	0
TOTAL:	6	0	0	0	0	0

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

SOURCE: Total Force Manpower Management System **DATE:** 09/98

The following is a Group II Activation Schedule

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITY - EAST	USN					
AIMD Jacksonville, 44319	1	0	0	0	0	0
AIMD Oceana, 60191	1	0	0	0	0	0
AIMD Sigonella, 44330	1	0	0	0	0	0
RAIMD Atlanta, 44486	1	0	0	0	0	0
MTU 1037 Jacksonville 66051	1	0	0	0	0	0
TOTAL:	5	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST	USN					
AIMD Lemoore, 44321	1	0	0	0	0	0
AIMD North Island, 44326	1	0	0	0	0	0
AIMD Whidbey Island, 44329	1	0	0	0	0	0
RAIMD Fort Worth, 44487	1	0	0	0	0	0
MTU 1067 North Island, 66065	1	0	0	0	0	0
TOTAL:	5	0	0	0	0	0
FLEET SUPPORT ACTIVITY - EAST	USMC					
MALS-26 New River, 09167	1	0	0	0	0	0
MALS-31 Beaufort, 09131	1	0	0	0	0	0
MALS-49 Stewart, 09808	1	0	0	0	0	0
TOTAL:	3	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST	USMC					
MALS-11 Miramar, 09111	1	0	0	0	0	0
MALS-12 Iwakuni, 09112	1	0	0	0	0	0
MALS-13 Yuma, 55585	1	0	0	0	0	0
MALS-36 Futenma, 09136	1	0	0	0	0	0
MALS-41 Dallas, 83447	1	0	0	0	0	0
TOTAL:	5	0	0	0	0	0

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
OPERATIONAL ACTIVITIES EAST NAVY - Not Applicable				
FLEET SUPPORT ACTIVITIES EAST NAVY				
AIMD NAS Brunswick, 44314				
ACDU	0	3	AE/AT	
ACTIVITY TOTAL:	0	3		
AIMD NAS Jacksonville, 44319				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD NAS Keflavik, 63032				
ACDU	0	2	AE/AT	
ACTIVITY TOTAL	0	2		
AIMD NS Mayport, 60201				
ACDU	0	3	AE/AT	
ACTIVITY TOTAL	0	3		
AIMD NAS Norfolk, 44325				
ACDU	0	8	AE/AT	
ACTIVITY TOTAL	0	8		
AIMD NAS Oceana, 44327				
ACDU	0	8	AE/AT	
ACTIVITY TOTAL	0	8		
AIMD NAS Rota, 44374				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD NAF Sigonella, 44330				
ACDU	0	3	AE/AT	
ACTIVITY TOTAL	0	3		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
AIMD USS John F. Kennedy, 03367				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS Enterprise, 03365				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS Nimitz, 03368				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS Dwight D. Eisenhower, 03369				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS Theodore Roosevelt, 21247				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS George Washington, 21412				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
RAIMD NAS Atlanta, 44486				
TAR	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
RAIMD NAS New Orleans, 44490				
TAR	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
RAIMD NAS Willow Grove, 44493				
TAR	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD NAWCAD Patuxent River, 00421				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
NAWCAD Indianapolis, 00136				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
OPERATIONAL ACTIVITIES WEST NAVY - Not Applicable				
FLEET SUPPORT ACTIVITIES WEST NAVY				
AIMD NAS Atsugi, 44323				
ACDU	0	3	AE/AT	
ACTIVITY TOTAL	0	3		
AIMD NAS Barbers Point, 44321				
ACDU	0	3	AE/AT	
ACTIVITY TOTAL	0	3		
AIMD NAF Diego Garcia, 44337				
ACDU	0	3	AE/AT	
ACTIVITY TOTAL	0	3		
AIMD NAS Fallon, 68971				
ACDU	0	2	AE/AT	
ACTIVITY TOTAL	0	2		
AIMD NAS Lemoore, 44321				
ACDU	0	8	AE/AT	
ACTIVITY TOTAL	0	8		
AIMD NAS Misawa, 44331				
ACDU	0	8	AE/AT	
ACTIVITY TOTAL	0	8		
AIMD NAS North Island, 44326				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD NAS Whidbey Island, 44329				
ACDU	0	8	AE/AT	
ACTIVITY TOTAL	0	8		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
AIMD USS Kitty Hawk, 03363				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS Constellation, 03364				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS Carl Vinson, 20993				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
AIMD USS Abraham Lincoln, 21297				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
NAWCAD China Lake, 39787				
ACDU	0	5	AE/AT	
ACTIVITY TOTAL	0	5		
CNATRA Corpus Christi, 00216				
ACDU	0	8	AE/AT	
ACTIVITY TOTAL	0	8		
OPERATIONAL ACTIVITIES EAST USMC				
VMFAAW 224 Beaufort, 09439				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMFAAW 332 Beaufort, 09501				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMFAAW 533 Beaufort, 09193				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMA 223 Cherry Point, 09438				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMA 231 Cherry Point, 52948				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMA 542 Cherry Point, 52847				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMAQ 1 Cherry Point, 41345				
USMC	0	2		6423
ACTIVITY TOTAL	0	2		
VMAQ 2 Cherry Point, 42362				
USMC	0	2		6423
ACTIVITY TOTAL	0	2		
VMAQ 3 Cherry Point, 42363				
USMC	0	2		6423
ACTIVITY TOTAL	0	2		
VMAQ 4 Cherry Point, 67837				
USMC	0	2		6423
ACTIVITY TOTAL	0	2		
VMGRT 253 Cherry Point, 55251				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMAT 203 Cherry Point, 45483				
USMC	0	3		6423
ACTIVITY TOTAL	0	3		
VMU 2 Camp Lejeune, 30286				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
HMT 302 New River, 55203				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
HMT 204 New River, 52842				
USMC	0	2		6423
ACTIVITY TOTAL	0	2		
VMA 131 Willow Grove, 09357				
AR	0	2		
ACTIVITY TOTAL	0	2		
HMX 1 Quantico, 55615				
USMC	0	2		6423
ACTIVITY TOTAL	0	2		
OPERATIONAL ACTIVITIES WEST USMC				
VMFAT 101 Miramar, 09965				
USMC	0	3		6423
ACTIVITY TOTAL	0	3		
VMFAAW 121 Miramar, 09257				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMFAAW 225 Miramar, 09232				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMFAAW 242 Miramar, 09668				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMA 211 Yuma, 09412				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMA 214 Yuma, 09436				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMA 311 Yuma, 09416				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMA 513 Yuma, 09231				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMU 1 29 Palms, 01480				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
HMT 303 Camp Pendleton, 55176				
USMC	0	3		6423
ACTIVITY TOTAL	0	3		
HMT 301 Kaneohe, 52843				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		
VMFA 124 Fort Worth, 52998				
AR	0	2		6423
ACTIVITY TOTAL	0	2		
FLEET SUPPORT ACTIVITIES EAST USMC				
MALS-14 Cherry Point, 09378				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-26 New River, 09506				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-29 New River, 52844				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-31 Beaufort, 09384				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MALS-42 Marietta, 03007				
AR	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-49 Stewart NY, 55555				
USMC	0	7		6423
ACTIVITY TOTAL	0	7		
MATSG Pensacola, 62610				
USMC	0	2		6423
ACTIVITY TOTAL	0	2		
NAS Oceana, 60191				
USN	0	1		6423
ACTIVITY TOTAL	0	1		
FLEET SUPPORT ACTIVITIES WEST USMC				
MALS-11 Miramar, 09233				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-12 Iwakuni, 09377				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-13 Yuma, 09401				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-16 Miramar, 09243				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-36 Futenma, 63026				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		
MALS-39 Camp Pendleton, 09808				
USMC	0	6		6423
ACTIVITY TOTAL	0	6		

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MALS-41 Fort Worth, 09714				
USMC	0	2		6423
AR	0	4		
ACTIVITY TOTAL	0	6		
MALS-46 Miramar, 09116				
AR	0	6		6423
ACTIVITY TOTAL	0	6		
MALSE Kaneohe, 02300				
USMC	0	5		6423
ACTIVITY TOTAL	0	5		
MAG-41 Fort Worth, 09714				
USMC	0	8		6423
ACTIVITY TOTAL	0	8		
MAG-42 Marietta, 09727				
USMC	0	7		6423
ACTIVITY TOTAL	0	7		
VAQ-129 Whidbey Island, 09995				
USMC	0	1		6423
ACTIVITY TOTAL	0	1		

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

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
FLEET SUPPORT ACTIVITY - ACDU													
AE/AT		0	158	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - TAR													
AE/AT		0	15	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY	USMC												
	6423	0	39	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY	USMC												
	6423 AR	0	4	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - USMC													
	6423	0	93	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AR													
	6423	0	16	0	0	0	0	0	0	0	0	0	0

SUMMARY TOTAL

FLEET SUPPORT ACTIVITY - ACDU													
AE/AT		0	158	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - TAR													
AE/AT		0	15	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY	USMC												
	6423	0	39	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY	AR												
	6423	0	4	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - USMC													
	6423	0	93	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AR													
	6423	0	16	0	0	0	0	0	0	0	0	0	0

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

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
GRAND TOTAL													
	ACDU	0	158	0	0	0	0	0	0	0	0	0	0
	TAR	0	15	0	0	0	0	0	0	0	0	0	0
	USMC	0	132	0	0	0	0	0	0	0	0	0	0
	AR	0	20	0	0	0	0	0	0	0	0	0	0

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

SOURCE: Total Force Manpower Management System **DATE:** 09/98

The following is a Group 0 Deactivation Schedule

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
OPERATIONAL ACTIVITY		NAVY - Not Applicable					
FLEET SUPPORT ACTIVITY - EAST		NAVY					
AIMD Jacksonville	44319	1	0	0	0	0	0
NAS Jacksonville	44319	1	0	0	0	0	0
TOTAL:		1	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST		NAVY					
CV 64 USS Constellation	03364	0	0	0	1	0	0
TOTAL:		0	0	0	1	0	0

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

ACTIVITY, UIC, PHASING INCREMENT		BILLETS OFF	ENL	DESIG RATING	PNEC/SNEC PMOS/SMOS
FLEET SUPPORT ACTIVITIES - EAST		NAVY			
AIMD Jacksonville	44319				
ACDU		0	8	AE/AT	
ACTIVITY TOTAL:		0	8	AE/AT	
NAS Jacksonville	44319	0	1	AE/AT	
ACDU					
USMC		0	1		6423
ACTIVITY TOTAL:		0	2		
FLEET SUPPORT ACTIVITIES - WEST					
CV 64 USS Constellation, 03364, FY02					
ACDU		0	5	AE/AT	
ACTIVITY TOTAL:		0	5		

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

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
FLEET SUPPORT ACTIVITY - EAST	NAVY			ACDU									
AE/AT		0	9	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST				NAVY	ACDU								
AE/AT		0	0	0	0	0	0	0	5	0	0	0	0
FLEET SUPPORT ACTIVITY - EAST	USMC			ACDU									
	6423	0	1	0	0	0	0	0	0	0	0	0	0
SUMMARY TOTAL													
FLEET SUPPORT ACTIVITY - EAST	NAVY			ACDU									
		0	9	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - WEST				NAVY	ACDU								
		0	0	0	0	0	0	0	5	0	0	0	0
FLEET SUPPORT ACTIVITY - EAST	USMC			ACDU									
		0	1	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL													
	NAVY-ACDU												
		0	9	0	0	0	0	0	5	0	0	0	0
	USMC-ACDU												
		0	1	0	0	0	0	0	0	0	0	0	0

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

INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC: MTU 1067, NAMTRAGRU DET NAS North Island, 66065

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
ACDU													
	0000/9502	0	2	0	2	0	2	0	2	0	2	0	2

TRAINING ACTIVITY, LOCATION, UIC: MTU 1037, NAMTRAGRU DET NAS Jacksonville, 66051

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
ACDU													
	0000/9502	0	2	0	2	0	2	0	2	0	2	0	2

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
MTU 1067 NAMTRAGRU DET NAS North Island, 66065													
	NAVY	0	1.6	0	1.6	0	1.6	0	1.5	0	1.5	0	1.5
	USMC	0	1.1	0	1.1	0	1.1	0	1.1	0	1.1	0	1.1
MTU 1037 NAMTRAGRU DET NAS Jacksonville, 66051													
	NAVY	0	1.7	0	1.7	0	1.7	0	1.7	0	1.7	0	1.7
	USMC	0	0.8	0	0.8	0	0.8	0	0.8	0	0.8	0	0.8
SUMMARY TOTAL													
	NAVY	0	3.3	0	3.3	0	3.3	0	3.2	0	3.2	0	3.2
	USMC	0	1.9	0	1.9	0	1.9	0	1.9	0	1.9	0	1.9
GRAND TOTAL													
		0	5.2	0	5.2	0	5.2	0	5.1	0	5.1	0	5.1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESG RTNG PNEC/SNEC	BILLET BASE	CFY00 +/-	CFY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM
a. OFFICER - USN	Not Applicable										
b. ENLISTED - USN											
Fleet Support Billets ACDU and TAR	161	0	161	0	161	0	156	0	156	0	156
Instructor and Support (Staff) Billets ACDU and TAR	4	0	4	0	4	0	4	0	4	0	4
Chargeable Student Billets ACDU and TAR	3	0	3	0	3	0	3	0	3	0	3
b. ENLISTED - USMC											
Fleet Support Billets USMC and AR	108	0	108	0	108	0	108	0	108	0	108
Operational Billets USMC and AR	43	0	43	0	43	0	43	0	43	0	43
Instructor and Support (Staff) Billets USMC and AR	0	0	0	0	0	0	0	0	0	0	0
Chargeable Student Billets USMC and AR	2	0	2	0	2	0	2	0	2	0	2
TOTAL USN ENLISTED BILLETS											
Fleet Support	161	0	161	0	161	0	156	0	156	0	156
Staff	4	0	4	0	4	0	4	0	4	0	4
Student	3	0	3	0	3	0	3	0	3	0	3
TOTAL USMC ENLISTED BILLETS											
Fleet Support	108	0	108	0	108	0	108	0	109	0	108
Staff	0	0	0	0	0	0	0	0	0	0	0
Student	2	0	2	0	2	0	2	0	2	0	2

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-602-3023, Electrical Interface Devices Intermediate Level Maintenance
COURSE LENGTH: 2.0 Weeks **SEA TOUR LENGTH:** Navy: 36 Months
ATTRITION FACTOR: Navy 10 % USMC 0 % **BACKOUT FACTOR:** 0

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1037 NAMTRAGRU DET NAS Jacksonville 66051												
	NAVY	ACDU	0	32	0	32	0	31	0	31	0	31
	NAVY	TAR	0	2	0	2	0	2	0	2	0	2
	USMC	USMC	0	10	0	10	0	10	0	10	0	10
	USMC	AR	0	0	0	0	0	0	0	0	0	0
		TOTAL:	0	44	0	44	0	44	0	44	0	44

CIN, COURSE TITLE: C-602-3023, Electrical Interface Devices Intermediate Level Maintenance
COURSE LENGTH: 2.0 Weeks **SEA TOUR LENGTH:** Navy: 36 Months
ATTRITION FACTOR: Navy 10 % USMC 0 % **BACKOUT FACTOR:** 0

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1067 NAMTRAGRU DET NAS North Island 66065												
	NAVY	ACDU	0	28	0	28	0	28	0	28	0	28
	NAVY	TAR	0	1	0	1	0	1	0	1	0	1
	USMC	USMC	0	9	0	9	0	9	0	9	0	9
	USMC	AR	0	0	0	0	0	0	0	0	0	0
		TOTAL:	0	38	0	38	0	38	0	38	0	38

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the Cable Harness Repair or Manufacturing Equivalence Program, therefore, are not included in Part III of this NTSP:

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A. TRAINING COURSE AND TRAINING INPUT REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

Initial training for CHROME Group 0 WTS has been completed.

Training for the CHROME Group I equipment is accomplished primarily by On-the-Job-Training. The simplicity of the equipment precludes creation of a stand-alone course for the equipment. There will be no contractor training provided. NAWC Lakehurst will provide any initial cadre training for Group I equipment at a designated government facility.

To ensure qualified personnel are readily available at CHROME Group II equipment Initial Operating Capability (IOC), the Contractor will provide an initial training presentation consisting of CHROME Group II equipment Operator and Maintenance demonstrations to experienced NATEC, NAMTRAGRU DET, and selected Fleet personnel. Group II initial training will be provided by the Contractor in two sessions in January 2001.

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU 1037
LOCATION, UIC: NAMTRAGRU DET NAS Jacksonville, 66051

CIN, COURSE TITLE: C-602-3023, Electrical Interface Devices Intermediate Level Maintenance Devices

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

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	35	0	35	0	35	0	35	0	35	Input
0	31	0	31	0	31	0	31	0	31	Output
0.0	1.7	0.0	1.7	0.0	1.7	0.0	1.7	0.0	1.7	AOB
0.0	1.7	0.0	1.7	0.0	1.7	0.0	1.7	0.0	1.7	Chargeable

CIN, COURSE TITLE: C-602-3023, Electrical Interface Devices Intermediate Level Maintenance Devices

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

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	16	0	16	0	16	0	16	0	16	Input
0	16	0	16	0	16	0	16	0	16	Output
0	0.8	0	0.8	0	0.8	0	0.8	0	0.8	AOB
0	0.8	0	0.8	0	0.8	0	0.8	0	0.8	Chargeable

TRAINING ACTIVITY: MTU 1067
LOCATION, UIC: NAMTRAGRU DET NAS North Island, 66065
CIN, COURSE TITLE: C-602-3023, Electrical Interface Devices Intermediate Level Maintenance Devices

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

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	32	0	32	0	32	0	31	0	31	Input
0	29	0	29	0	29	0	28	0	28	Output
0.0	1.6	0.0	1.6	0.0	1.6	0.0	1.5	0.0	1.5	AOB
0.0	1.6	0.0	1.6	0.0	1.6	0.0	1.5	0.0	1.5	Chargeable

CIN, COURSE TITLE: C-602-3023, Electrical Interface Devices Intermediate Level Maintenance Devices

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

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	22	0	22	0	22	0	22	0	22	Input
0	22	0	22	0	22	0	22	0	22	Output
0	1.1	0	1.1	0	1.1	0	1.1	0	1.1	AOB
0	1.1	0	1.1	0	1.1	0	1.1	0	1.1	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the Cable Harness Repair Or Manufacturing Equivalence (CHROME) Program and, therefore, are not included in part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

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

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

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

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

TRAINING ACTIVITY: MTU 1067
LOCATION, UIC: NAMTRAGRU DET NAS North Island, 66065

CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	STATUS
ST					
001	Silver Solder		4		Onboard
002	Soldering Kit		4		Onboard
003	Repair Tool Kit		1		Onboard
004	Wire Harness Construction Board		4		Onboard
005	Intermediate Level Master Tool Set		4		Onboard
006	General Purpose Tool Kit		4		Onboard
007	Pneumatic Wire Crimper (Type I)		1		Onboard
008	Pneumatic Wire Crimper (Type II)		1		Onboard
009	Pneumatic Wire Stripper		1		Onboard
010	Labeling Machine		1		Onboard
011	Instant Connector Kit		1		Onboard
GPETE					
001	Digital Multimeter		3		Onboard
002	Time-Domain Reflectometer		1		Onboard
SPETE					
001	Cable/Circuit Scanner		1		Onboard
002	Wire Marking System		1		Onboard
003	Wire Test Set		2		Onboard
004	Adapter Kits		1		Onboard

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

TRAINING ACTIVITY: MTU 1037
LOCATION, UIC: NAMTRAGRU DET NAS Jacksonville, 66051

CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	STATUS
ST					
001	Silver Solder Kit		4		Onboard
002	Soldering Kit		4		Onboard
003	Repair Tool Kit		4		Onboard
004	Wire Harness Construction Board		4		Onboard
005	Intermediate Level Master Tool Set		4		Onboard
006	General Purpose Tool Kit		4		Onboard
007	Pneumatic Wire Crimper (Type I)		1		Onboard
008	Pneumatic Wire Crimper (Type II)		1		Onboard
009	Pneumatic Wire Stripper		1		Onboard
010	Labeling Machine		1		Onboard
011	Instant Connector Kit		1		Onboard
GPETE					
001	Digital Multimeter		3		Onboard
002	Time-Domain Reflectometer		1		Onboard
SPETE					
001	Cable/Circuit Scanner		1		Onboard
002	Wire Marking System		1		Onboard
003	Wire Test Set		2		Onboard
004	Adapter Kits		1		Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: MTU 1067
LOCATION, UIC: NAMTRAGRU DET NAS North Island, 66065
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Student Guides	36		Onboard
Instructor Guides	2		Onboard
Overhead Projector	1		Onboard
Projector Screen	1		Onboard
Video Reproducer	1		Onboard
Color TV Monitor	1		Onboard

TRAINING ACTIVITY: MTU 1037
LOCATION, UIC: NAMTRAGRU DET NAS Jacksonville, 66051
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Student Guides	36		Onboard
Instructor Guides	2		Onboard
Overhead Projector	1		Onboard
Projector Screen	1		Onboard
Video Reproducer	1		Onboard
Color TV Monitor	1		Onboard

IV.B.3 TECHNICAL MANUALS

TRAINING ACTIVITY: MTU 1067
LOCATION, UIC: NAMTRAGRU DET NAS North Island, 66065
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-HDBK-263	Hard copy	2		Onboard
Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-STD-1686	Hard copy	2		Onboard
Technical Manual Standard Maintenance Practices, Electronic Assembly Repair NA 01-1A-23	Hard copy	8		Onboard
Installation Practices, Aircraft Electrical and Electronic Wiring NA 01-1A-505 series	Hard copy	8		Onboard
Operation and Maintenance Instruction with IPB (Organizational and Intermediate) Electronic Equipment Maintenance Group 0A8794-USM/NA 17-1-199	Hard copy	8		Onboard
The Encyclopedia of Connectors Edward's Publishing Company 14115 Chadron Avenue, P.O. Box 1668 Hawthorn, CA 90250-1668	Hard copy	7		Onboard
Technical Manual # 17-15-516	Hard copy	1		Onboard
Technical Manual # 17-35AMTL-01	Hard copy	1		Onboard
Maintenance Plan # AWSE-MAPL-019	Hard copy	1		Onboard

IV.B.3 TECHNICAL MANUALS

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Maintenance Plan # AWSE-MAPL-019	Hard copy	1		Onboard
Maintenance Plan # AWSE-MAPL-020	Hard copy	1		Onboard
317AS200 Level III Drawing Package	Hard copy	1		Onboard
317AS300 Level III Drawing Package	Hard copy	1		Onboard

TRAINING ACTIVITY: MTU 1037
LOCATION, UIC: NAMTRAGRU DET NAS Jacksonville, 66051
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-HDBK-263	Hard copy	2		Onboard
Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-STD-1686	Hard copy	2		Onboard
Technical Manual Standard Maintenance Practices, Electronic Assembly Repair NA 01-1A-23	Hard copy	8		Onboard
Installation Practices, Aircraft Electrical and Electronic Wiring NA 01-1A-105	Hard copy	8		Onboard
Operation and Maintenance Instruction with IPB (Organizational and Intermediate) Electronic Equipment Maintenance Group 0A8794-USM/NA 17-1-199	Hard copy	8		Onboard
Microminiature Repair Station NA 17-1-124	Hard copy	2		Onboard
The Encyclopedia of Connectors Edward's Publishing Company 14115 Chadron Avenue, P.O. Box 1668	Hard copy	7		Onboard

IV.B.3 TECHNICAL MANUALS

Hawthorn, CA 90250-1668

IV.B.3 TECHNICAL MANUALS

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
2600 Analyzer, Instruction Manual, National Microsystems, Inc. 18358	Hard copy	1		Onboard
Technical Manual # 17-15-516	Hard copy	1		Onboard
Technical Manual # 17-35AMTL-01	Hard copy	1		Onboard
Maintenance Plan # AWSE-MAPL-019	Hard copy	1		Onboard
Maintenance Plan # AWSE-MAPL-019	Hard copy	1		Onboard
Maintenance Plan # AWSE-MAPL-020	Hard copy	1		Onboard
317AS200 Level III Drawing Package	Hard copy	1		Onboard
317AS300 Level III Drawing Package	Hard copy	1		Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Conducted analysis of MPT requirements	Oct 86	Completed
TSA	Conducted Initial Training for CHROME 0 WTS	Oct 95	Completed
DA	Approved ULSS for Group 0 WTS	Feb 96	Completed
DA	Approved ALSP for Group I equipment	Mar 97	Completed
NAWCADLKE	Achieved SED for Group I	Jun 97	Completed
NAWCADLKE	Achieved SED I/II for Group II	Jul 97	Completed
NAVICP	Achieved MSD for CHROME Group I	Jul 97	Completed
NAWCADLKE	Achieved IOC for Group I	Jul 97	Completed
TSA	Developed curricula materials for the revised course C-602-3023A for Group 0 equipment	FY97	Completed
NAVICP	Achieved NSD for Group I	Sep 97	Completed
NAVICP	Achieved MSD for Group 0 WTS	Sep 97	Completed
TSA	Developed curricula materials for the revised course C-602-3023A for Group I and II equipment	FY98	Completed
NAVICP	Achieved NSD for Group 0	Sep 98	Completed
TA	Began Follow-on Training	Oct 98	Completed
TSA	Developed Draft NTSP (Update)	Dec 99	Completed
NAWCADLKE	Award contract for Group II	Jan 00	Pending
NAWCADLKE	Begin Technical Evaluation for Group II	Jul 00	Pending
NAWCADLKE	Achieve SED III for Group II	Sep 00	Pending
TSA	Begin Initial Training for CHROME II	Jan 01	Pending
NAWCADLKE	Establish IOC for Group II	Mar 01	Pending
NAVICP	Achieve MSD for Group II	Mar 02	Pending
NAVICP	Achieve NSD for Group II	Mar 03	Pending

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
None			

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT James Woolway Head, Plans, Policy, and Fleet Maintenance Support CNO, N881B woolway.james@hq.navy.mil	**COMM:** (703) 604-7747 **DSN:** 664-7747 **FAX:** (703) 604-6972
CAPT Thomas Vandenburg Head, Aviation Technical Training Branch CNO, N889H vandenburg.thomas@hq.navy.mil	**COMM:** (703) 604-7730 **DSN:** 664-7730 **FAX:** (703) 604-6969
AZC Scott Dean NTSP Manager CNO, N889H7 dean.scott@hq.navy.mil	**COMM:** (703) 604-7714 **DSN:** 664-7714 **FAX:** (703) 604-6939
Mr. Robert Zweibel Training Technology Policy CNO, N75K zweilbel.robert@hq.navy.mil	**COMM:** (703) 614-1344 **DSN:** 224-1344 **FAX:** (703) 695-5698
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