

DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

MARK-105 MOD 4

MAGNETIC MINESWEEPING SYSTEM

N85-NTSP-P-30-9902/D

APRIL 1999

MARK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM

EXECUTIVE SUMMARY

This Navy Training System Plan (NTSP) addresses the continuing development and forthcoming introduction of the MARK-105 MOD 4 Magnetic Minesweeping System into the Navy inventory.

The MARK-105 MOD 4 Magnetic Minesweeping System, hereafter referred to as the MK-105 MOD 4, is an upgrade of the MK-105 MOD 2 Magnetic Minesweeping System that is currently used in the Fleet. The system is a remotely controlled, helicopter towed platform used in Airborne Mine Countermeasures. It is designed to provide a reliable and safe method of detonating influence mines. MK-105 MOD 4 System operations can be conducted from aviation-type ships [Amphibious Assault Ship Landing Helicopter Assault (LHA), Amphibious Assault Ship Landing Helicopter Dock (LHD), Mine Countermeasure Support (MCS), Landing Platform Dock (LPD); Amphibious Transport Dock Ship (LSD), and Aircraft Carrier (CV)], ramps, docks, piers, and prepared beaches.

Engineering Change Proposals 105-81 and 105-82 are incorporated when the MOD 2 system goes through Scheduled Depot Level Maintenance, changing its designation from a MK-105 MOD 2 Magnetic Minesweeping System to a MK-105 MOD 4 Magnetic Minesweeping System.

There will be three levels of maintenance for the MK-105 MOD 4, as outlined in the Naval Aviation Maintenance Program, OPNAVINST 4790.2G. Navy personnel from the aviation ratings with Navy Enlisted Classification 8391 will perform organizational and intermediate level maintenance. The manufacturer will perform depot level maintenance. Manpower requirements will remain unchanged by the introduction of the MK-105 MOD 4.

The Performance Support System maintenance and training concept will be incorporated for the MK-105 MOD 4 transition. Airborne Mine Countermeasures squadrons and Aircraft Intermediate Maintenance Departments will be equipped with stand-alone computer systems housing both Interactive Electronic Technical Manuals (IETM) and Computer-Based Training (CBT). The IETM will include appropriate technical information and supply support data to complete maintenance actions on the MK-105 MOD 4. The CBT courses integrated within the Performance Support System will provide the training required for the MK-105 MOD 4 weapon system.

MARK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM

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MARK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM

LIST OF ACRONYMS

| | |
|-------------------|---|
| AC | Alternating Current |
| AIMD | Aircraft Intermediate Maintenance Department |
| AMCM | Airborne Mine Countermeasures |
| AMIST | Aviation Maintenance In-Service Training |
| AMTCS | Aviation Maintenance Training Continuum System |
| AOB | Average On Board |
| CBT | Computer-Based Training |
| CIN | Course Identification Number |
| CINCLANT | Commander In Chief, U.S. Atlantic Fleet |
| CNET | Chief of Naval Education and Training |
| CNO | Chief of Naval Operations |
| COMHELTACWINGLANT | Commander, Helicopter Tactical Wing, U.S. Atlantic Fleet |
| CSS | Coastal System Station |
| CV | Aircraft Carrier |
| DT | Developmental Test |
| ECP | Engineering Change Proposal |
| EDO | EDO Corporation, Marine and Aircraft Systems (Manufacturer and Technical Development Activity) |
| FMS | Foreign Military Sales |
| FRAMP | Fleet Replacement Aviation Maintenance Personnel |
| FRS | Fleet Readiness Squadron |
| FY | Fiscal Year |
| IETM | Interactive Electronic Technical Manual |
| ILS | Integrated Logistics Support |
| ILSP | Integrated Logistics Support Plan |
| IPB | Illustrated Parts Breakdown |
| LHA | Amphibious Assault Ship Landing Helicopter Assault |

MARK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM

LIST OF ACRONYMS

| | |
|---------------|--|
| LHD | Amphibious Assault Ship Landing Helicopter Dock |
| LPD | Landing Platform Dock |
| LPH | Amphibious Assault Ship |
| LSA | Logistics Support Analysis |
| LSD | Amphibious Transport Dock Ship |
| MCS | Mine Countermeasure Support |
| MIW | Mine Warfare |
| MP | Maintenance Plan |
| MPT | Manpower, Personnel, and Training |
| MSD | Material Support Date |
| MTIP | Maintenance Training Improvement Program |
| NA | Not Applicable |
| NAMP | Naval Aviation Maintenance Program |
| NAMTRAGRU | Naval Air Maintenance Training Group |
| NAMTRAGRU DET | Naval Air Maintenance Training Group Detachment |
| NAS | Naval Air Station |
| NATEC | Naval Air Technical Data and Engineering Service Command |
| NAVICP | Naval Inventory Control Point |
| NEC | Navy Enlisted Classification |
| NTSP | Navy Training System Plan |
| OPO | Office of the Chief of Naval Operations Principal Official |
| OT | Operational Test |
| PEO | Program Executive Officer |
| PMS | Program Manager, Sea |
| PQS | Personnel Qualification Standards |
| PSS | Performance Support System |
| RFOU | Ready For Operational Use |
| RFT | Ready For Training |

MARK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM

LIST OF ACRONYMS

| | |
|------|-----------------------------------|
| RHIB | Rigid Hull Inflatable Boat |
| RMR | Return Material for Repair |
| ROH | Regular Overhaul |
| SDLM | Scheduled Depot Level Maintenance |
| SRA | Shop Replaceable Assembly |
| TBD | To Be Determined |
| TD | Training Device |
| TTE | Technical Training Equipment |
| WRA | Weapon Replaceable Assembly |

MARK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM

PREFACE

This is the first iteration of the Draft Navy Training System Plan (NTSP) for the MK-105 MOD 4 Magnetic Minesweeping System. This NTSP has been developed to comply with guidelines set forth in the Navy Training Requirements Documentation Manual, OPNAV Publication P-751-1-9-97.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

- 1. Nomenclature-Title-Acronym.** MK-105 MOD 4 Magnetic Minesweeping System.
- 2. Program Element.** 73SO, LI 424800.

B. SECURITY CLASSIFICATION

- 1. System Characteristics** Unclassified
- 2. Capabilities** Detailed data on the capabilities and limitations of the MK-105 MOD 4 Magnetic Minesweeping System are classified. Information of this nature may be obtained by contacting the Program Executive Officer (PEO) for Mine Warfare (MIW) PMS210.
- 3. Functions.....** Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

- OPNAV Principal Official (OPO) Program Sponsor..... CNO (N852)
- OPO Resource Sponsor CNO (N859)
- Developing Agency..... PEO (MIW) (PMS210)
- Training Agency CINCLANTFLT
CNET
- Training Support Agency PEO (MIW) (PMS210)
- Manpower and Personnel Mission Sponsor CNO (N12)
NAVPERSCOM (NPC-4, NPC 404)
- Director of Naval Training CNO (N7)

D. SYSTEM DESCRIPTION

- 1. Operational Uses.** The MK-105 MOD 4 Magnetic Minesweeping System, hereafter referred to as the MK-105 MOD 4, is a remotely controlled, helicopter towed, hydrofoil mounted

Airborne Mine Countermeasures (AMCM) System designed to provide a reliable and safe method of detonating magnetic influence mines. System functions are controlled from the helicopter. MK-105 MOD 4 System operations can be conducted from aviation-type ships [Amphibious Assault Ship Landing Helicopter Assault (LHA), Amphibious Assault Ship Landing Helicopter Dock (LHD), Mine Countermeasure Support (MCS), Landing Platform Dock (LPD); Amphibious Transport Dock Ship (LSD), and Aircraft Carrier (CV)], ramps, docks, piers, and prepared beaches.

2. Foreign Military Sales. There are currently no plans for Foreign Military Sales (FMS) of the MK-105 MOD 4.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Developmental Test (DT) and Operational Test (OT) was not required on the MK-105 MOD 4. The MK-105 MOD 4 was the result of two Engineering Change Proposals (ECPs). A Performance and Suitability Evaluation was successfully completed on the prototype by the manufacturer [EDO Corporation World Wide Web: <http://www.edocorp.com/>] and Coastal System Station (CSS), Panama City, Florida, in June 1995. A Factory / First Article Test will be completed by EDO Corporation and CSS prior to production go-ahead.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The MK-105 MOD 4 will replace the MK-105 MOD 2 Magnetic Minesweeping System currently in use.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The MK-105 MOD 4 is an upgrade of the MK-105 MOD 2 Magnetic Minesweeping System. The system is a remotely controlled, helicopter-towed platform used in AMCM. It is designed to provide a reliable and safe method of detonating influence mines. Figure I-1 depicts the MK-105 MOD 4 Seaborne Equipment Platform. The MK-105 MOD 4 functions are controlled from the helicopter. A Turbo Generator mounted on the Seaborne Platform provides the output power required for mission minesweeping. The turbo generator consists of a gas turbine engine, speed reduction gearbox, and alternating current (AC) generator. The AC Generator output is routed to an alternator rectifier subsystem. Electrical current from the alternator-rectifier subsystem flows through a sweep cable array that trails from the hydrofoil platform with seawater completing the electrical circuit. The electrical current produces a magnetic field in the water that detonates magnetic influence mines. To ensure maximum sweep effectiveness and flexibility, the system is designed to produce either a constant or a pulsed current output that is controlled by the Control Programmer located in the helicopter. When an Acoustic Minesweeping device (MK-104) is attached to the magnetic sweep array, the resultant magnetic and acoustic influence field outputs will actuate magnetic and combination magnetic-acoustic influence mines.

2. Physical Description. Physical dimensions and characteristics of the MK-105 MOD 4 System: (See Figure I-1, Table I-1 and Table I-2).

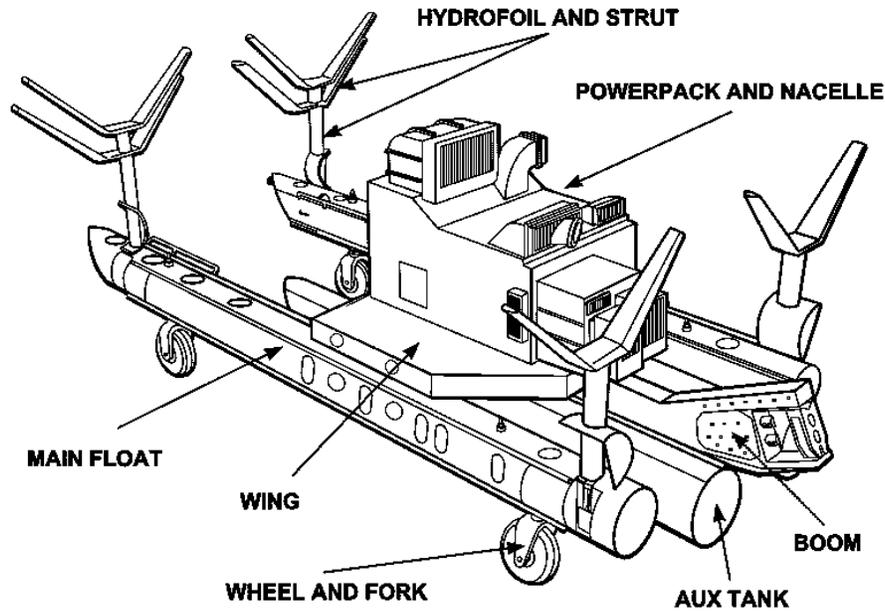


FIGURE I-1. MK-105 MOD 4 SEABORNE EQUIPMENT PLATFORM

| TABLE I-1: MK-105 MOD 4 CHARACTERISTICS | |
|--|---------------------------|
| DESCRIPTION | CHARACTERISTICS |
| Foilborne Length | 26' 10-5/8" |
| Ground Configuration Length | 28' 9-1/4" |
| Foilborne Width | 21' 1-1/4" |
| Ground Configuration Width | 16' 10" |
| Foilborne Height (Less Retrieval Rig) | 15' 2-1/8" |
| Ground Configuration Height (Less Retrieval Rig) | 12' 1-1/2" |
| Net Weight | 8360 pounds |
| Fuel Capacity | 1292 pounds (190 gallons) |
| Usable Fuel | 1115 pounds (164 gallons) |

| TABLE I-1: MK-105 MOD 4 CHARACTERISTICS | |
|--|------------------------|
| DESCRIPTION | CHARACTERISTICS |
| Gross Weight | 9750 pounds |
| Max Operational Speed | 25 knots |
| Max Operational Sea State | 4 |
| Max Power | 350 kilowatts |
| Max Current | 3500 amps |

| TABLE I-2: MAJOR COMPONENT CHARACTERISTICS FOR THE MK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM | | | | |
|---|--|-----------------------|-----------------------|------------------------|
| NOMENCLATURE | HEIGHT (INCHES) | WIDTH (INCHES) | DEPTH (INCHES) | WEIGHT (POUNDS) |
| Main Float Assembly on Wheels | 60 | 30 | 294 | 810 |
| Auxiliary Float Assembly | 29 | 26 | 198 | 280 |
| Wing Assembly | 21 | 134 | 112 | 750 |
| Hydrofoil, Upper | 50 | 89 | 18 | 150 |
| Hydrofoil, Lower, Forward | 34 | 88 | 12 | 104 |
| Hydrofoil, Lower, Aft | 34 | 88 | 14 | 180 |
| Retrieval Rig Installed | 124 | 131 | 38 | 350 |
| Retrieval Rig Stowed | 12 | 131 | 124 | 350 |
| Airborne Control Programmer | 27 | 43 | 18 | 75 |
| Platform Controller | 25 | 18 | 27 | 113 |
| Sweep Boom | 43 | 30 | 129 | 745 |
| Nacelle and Ducts | 73 | 80 | 73 | 428 |
| Aft Bulkhead and Generator Enclosure | 47 | 72 | 17 | 146 |
| Power Pack | 43 | 65 | 97 | 2436 |
| Gas Turbine Engine | 28 | 22 | 57 | 403 |
| AC Generator | 19 | 17 | 31 | 475 |
| Speed Reduction Gearbox | 24 | 29 | 20 | 244 |
| Tow and Electrical Cables | Length 450 Feet Diameter 2.0 inches | | | 700 |

**TABLE I-2: MAJOR COMPONENT CHARACTERISTICS FOR THE
MK-105 MOD 4 MAGNETIC MINESWEEPING SYSTEM**

| NOMENCLATURE | HEIGHT (INCHES) | WIDTH (INCHES) | DEPTH (INCHES) | WEIGHT (POUNDS) |
|--------------------------------|--------------------------------------|--|-------------------|--------------------|
| Cable Assembly, Magnetic Sweep | System weight 2850 pounds | | | |
| S-Cable | Length 450 feet, Diameter 3.7 inches | | | |
| Electrodes | Length 150 feet, Diameter 3.0 inches | | | |
| Pigtails | 2 each | Length 6 feet, Diameter 2.4 inches, Weight 47.5 pounds | | |
| | 1 each | Length 8 feet, Diameter 2.4 inches, Weight 63.0 pounds | | |

3. New Development Introduction. The MK-105 MOD 4 is the result of two modifications to the existing MK 105 MOD 2. ECPs 105-81 and 105-82 are incorporated when the MK-105 MOD 2 goes through Scheduled Depot Level Maintenance (SDLM) changing its designation from the MK-105 MOD 2 Magnetic Minesweeping System to the MK-105 MOD 4 Magnetic Minesweeping System.

4. Significant Interfaces. There will be no significant interfaces with or impacts on other systems, subsystems, or equipment while replacing the MK-105 MOD 2 with the MK-105 MOD 4.

5. New Features, Configurations, or Material. The MK-105 MOD 4 improved features include two additional floats for improved seaworthiness and stability, increased fuel capacity for longer missions, and a larger engine and AC generator to increase the effectiveness of the sweep cable magnetic field against magnetic mines.

H. CONCEPTS

1. Operational Concept. The MK-105 MOD 4 is launched or recovered from various surface ships, (LHA, LPH, LPD, MCS, CV, etc) ramps, docks, and improved beaches utilizing ground and Rigid Hull Inflatable Boat (RHIB) support personnel. The MK-105 MOD 4 is towed and remotely operated from an AMCM configured MH-53E helicopter manned by two pilots and four crewmembers. Tow of the MK-105 MOD 4 can be transferred between two AMCM configured helicopters to increase time on station. System tow can also be transferred from the helicopter to suitably equipped ships to enhance retrieval flexibility.

2. Maintenance Concept. The maintenance concept for the MK-105 MOD 4 is based on the three levels of maintenance per the Naval Aviation Maintenance Program, OPNAVINST 4790.2G.

a. Organizational. Organizational maintenance actions are normally performed by an operating unit on a day-to-day basis in support of its own operations. These actions are generally classified as inspections, servicing, handling, and on-equipment corrective maintenance.

Personnel from the aviation maintenance ratings with Navy Enlisted Classification (NEC) code 8391 perform organizational level maintenance.

| WORK CENTER | RATING | NEC |
|--------------------|---------------|------------|
| 16A | AD, AMH, AMS | 8391 |
| 16B | AE, AT | 8391 |

(1) Preventive Maintenance. Preventive Maintenance includes scheduled maintenance consisting of pre-operational and post-operational inspections, operational readiness testing, and corrosion control. Corrosion control is the major preventive maintenance effort.

(2) Corrective Maintenance. Corrective Maintenance is limited to minor flight line repairs including replacement of faulty consumables, troubleshooting, and removal and installation of Weapons Replaceable Assemblies (WRAs). Faulty WRAs will be sent to the Aircraft Intermediate Maintenance Department (AIMD) for repair.

b. Intermediate. AE and AT personnel with NEC 8391 from Work Center 74C maintain the MK-105 MOD 4. Intermediate level corrective maintenance consists of isolating and verifying faulty WRAs and replacing faulty Shop Replaceable Assemblies (SRAs). Isolation and verification of faulty WRAs is performed using the Controller Programmer Test Set, 17-15ALM-156-1 and the Controller Test Set, 17-15ALM-157-1 currently onboard in support of the MK-105 MOD 2 Magnetic Minesweeping System. Defective SRAs will be troubleshoot using normal shop practices. SRAs beyond the capability of AIMD will be sent to the Depot for maintenance.

| WORK CENTER | RATING | NEC |
|--------------------|---------------|------------|
| 74C | AE, AT | 8391 |

c. Depot. Current planning is for government and designated civilian contractor facilities to perform depot level maintenance. Systems and components will be returned to the depot level under the Return Material for Repair (RMR) program.

d. Interim Maintenance. The contractor will not provide interim maintenance. Currently, fleet maintenance personnel are trained on the MK-105 MOD 2 by Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET). The contractor will provide initial MK-105 MOD 4 training to fleet personnel. Upon completion of this training, existing maintenance personnel will be able to perform all required maintenance on the MK-105 MOD 4.

e. Life-Cycle Maintenance Plan. Regular Overhaul (ROH) for the MK-105 MOD 4 will be provided by a 48-month SDLM cycle conducted at the depot maintenance facility.

3. Manning Concept. The MK-105 MOD 4 will replace the MK-105 MOD 2 Magnetic Minesweeping System; therefore no changes are required to existing billet structures or to available skill levels. Organizational and intermediate level maintenance functions are normally performed by personnel in the Aviation Machinist's Mate (AD), Aviation Electrician's Mate (AE), Aviation Structural Mechanic (Structures and Hydraulics) (AMS/AMH), and Aviation Electronics Technician (AT) ratings. Tactical Ground Support functions are performed by personnel in various ratings.

4. Training Concept. The Performance Support System (PSS) (Figure I-2) maintenance and training concept will be incorporated for the MK-105 MOD 4 transition. AMCM squadrons and AIMDs are equipped with stand-alone computer systems housing both Interactive Electronic Technical Manuals (IETMs) and Computer-Based Training (CBT). Each AMCM squadron is outfitted with four PSS systems, and each AIMD with three. The MK-105 MOD 4 transition software will be installed into these existing systems upon site activation. The IETMs will include appropriate technical information and supply support data to complete maintenance actions. The CBT courses integrated within the PSS will provide the training required for the MK-105 MOD 4. The training program will consist of ten courses. Seven courses pertain to MK-105 MOD 4 organizational level maintenance and three courses pertain to MK-105 MOD 4 intermediate level maintenance. These courses are rating and work center specific. Each course contains CBT lessons targeting specific actions required to operate, launch, and maintain the MK-105 MOD 4.

Instructional material for the organizational and intermediate level CBT is currently under development. Materials include the CBT lessons, instructor guides, and student guides. These materials, in conjunction with a delivered operational MK-105 MOD 4 and required support equipment, will be used to provide fleet training.



Figure I-2. Performance Support System

a. Initial Training. Current plans call for initial training for both organizational and intermediate level maintenance to be conducted through contractor support. Upon site activation, contractor support personnel will provide six weeks of training utilizing the CBT courses within the PSS and hands-on training utilizing an operational MK-105 MOD 4 and associated support equipment.

Title **MK-105 MOD 4 Initial (Introduction) Organizational Level Maintenance Course**

Description First degree organization level maintenance training on the MK-105 MOD 4 Magnetic Minesweeping System for instructors and cadre maintenance personnel.

Location AMCM Activity

Length 2 days (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AD, AE, AMH, AMS, and AT with NEC 8391

Title **MK-105 MOD 4 Structures and Hydraulic Systems Organizational Level Maintenance Course**

Description Provides instructor and cadre maintenance personnel with the skills, knowledge, and techniques required to perform organization level structures and hydraulic systems operation and maintenance on the MK-105 MOD 4 Magnetic Minesweeping System.

Location AMCM Activity

Length 4 days (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AMS or AMH with NEC 8391
MK-105 MOD 4 Initial Organizational Level Maintenance Course

Title **MK-105 MOD 4 Electrical Systems Organizational Level Maintenance Course**

Description Provides instructor and cadre maintenance personnel with the skills, knowledge, and techniques required to perform organization level electrical systems operation and maintenance on the MK-105 MOD 4 Magnetic Minesweeping System.

Location AMCM Activity

Length 4 days (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AE and AT with NEC 8391
MK-105 MOD 4 Initial Organizational Level Maintenance Course

Title **MK-105 MOD 4 Power Plant Systems Organizational Level Maintenance Course**

Description Provides instructor and cadre maintenance personnel with the skills, knowledge, and techniques required to perform organizational level power plant systems operation and maintenance on the MK-105 MOD 4 Magnetic Minesweeping System.

Location AMCM Activity

Length 4 days (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AD with NEC 8391
MK-105 MOD 4 Initial Organizational Level Maintenance Course

Title **MK-105 MOD 4 Launch and Recovery Course**

Description Provides instructor and cadre maintenance personnel with the skills, knowledge, and techniques required to perform launch and recovery of the MK-105 MOD 4 Magnetic Minesweeping System.

Location AMCM Activity

Length 2 days (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AD, AE, AMH, AMS, and AT with NEC 8391 MK-105 MOD 4 Initial Organizational Level Maintenance Course

Title **MK-105 MOD 4 Sled Captain Course**

Description Provides instructor and cadre maintenance personnel with the skills, knowledge, and techniques required to perform sled captain duties and responsibilities on the MK-105 MOD 4 Magnetic Minesweeping System.

Location AMCM Activity

Length 3 days (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AD, AE, AMH, AMS, and AT with NEC 8391 MK-105 MOD 4 Initial Organizational Level Maintenance Course

Title **MK-105 MOD 4 Aircraft Rig / Derig Course**

Description Provides personnel with the skills, knowledge, and techniques required to properly install and uninstall the MK-105 MOD 4 Magnetic Minesweeping System related mission equipment for the MH-53E aircraft.

Location AMCM Activity

Length 1 day (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AD, AE, AMH, AMS, and AT with NEC 8391

Title **MK-105 MOD 4 Hydraulic Components Intermediate Level Maintenance Course**

Description Provides personnel with the skills, knowledge, and techniques required to perform intermediate level test and maintenance procedures on hydraulic components for the MK-105 MOD 4 Magnetic Minesweeping System.

Location Applicable AIMD Activity

Length 2 days (estimated)

RFT date FY00

TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.

Prerequisites AMH with NEC 8391

Title **MK-105 MOD 4 Electrical Components Intermediate Level Maintenance Course**

Description Provides personnel with the skills, knowledge, and techniques required to perform intermediate level test and maintenance procedures on electrical components for the MK-105 MOD 4 Magnetic Minesweeping System.

Location Applicable AIMD Activity
 Length 4 days (estimated)
 RFT date FY00
 TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.
 Prerequisites AE or AT with NEC 8391

Title MK-105 MOD 4 Engine and Fuel Electrical Components Intermediate Level Maintenance Course

Description Provides personnel with the skills, knowledge, and techniques required to perform intermediate level test and maintenance procedures on engine and fuel electrical components for the MK-105 MOD 4 Magnetic Minesweeping System.

Location Applicable AIMD Activity
 Length 4 days (estimated)
 RFT date FY00
 TTE/TD Note: Due to no dedicated MK-105 MOD 4 training devices, course length is directly dependent on the availability of MK-105 MOD 4 operational assets to be used for hands-on training in conjunction with CBT.
 Prerequisites AE or AT with NEC 8391

b. Follow-on Training. Follow-on training for organizational and intermediate levels of maintenance will be accomplished by using an operational MK-105 MOD 4, along with the PSS, which combines IETMs and CBT. The courses listed in initial training are provided within the PSS. Training Petty Officers and/or subject matter experts within each applicable work center will administer the follow-on training. Short training lesson segments will also be integrated within the IETMs. This will complement the overall training effort by providing targeted refresher or “Just-In-Time” training to personnel on critical maintenance procedures. The PSS will be located within applicable work centers and provide personnel with direct access to both maintenance instructions and training whenever required. The PSS is also a portable computer system that can be packed up in furnished isopods and transported during squadron deployments.

c. Student Profiles

| SKILL IDENTIFIER | PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS |
|-------------------------|---|
| AD 8391 | <ul style="list-style-type: none"> ° C-601-2011, Aviation Machinist's Mate Common Core Class A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1 |
| AE 8391 | <ul style="list-style-type: none"> ° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1 |
| AMH, AMS 8391 | <ul style="list-style-type: none"> ° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Organizational Intermediate Level Maintenance Strand Class A1 |
| AT 8391 | <ul style="list-style-type: none"> ° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O Level Class A1 |

d. Training Pipelines. No new training pipelines or tracks are required.

I. ON-BOARD (IN-SERVICE) TRAINING. MK-105 MOD 4 CBT will be incorporated into the PSS at each applicable AMCM squadron and AIMD. Existing MK-105 MOD 2 Personnel Qualification Standards (PQS) and Maintenance Training Improvement Program (MTIP) requirements will be reviewed and modified to reflect the MK-105 MOD 4 system by Commander, Helicopter Tactical Wing, U.S. Atlantic Fleet (COMHELTACWINGLANT), Naval Air Station (NAS) Oceana Air Det Norfolk, Virginia.

1. Proficiency or Other Training Organic to the New Development. Proficiency training for the MK-105 MOD 4 will be provided through managed on-the-job training at each applicable command. On-board training will be consistent with qualitative assessment by MTIP.

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 In-Service Training (AMIST) in FY00.

b. Aviation Maintenance In-Service Training. Aviation Maintenance In-Service Training (AMIST) is intended to support the Fleet training requirements now satisfied by MTIP, and in that sense is the planned replacement. However, it is structured very differently, and will function as an integral part of the new Aviation Maintenance Training Continuum System (AMTCS) that will replace the existing aviation maintenance training structure. AMIST will provide standardized instruction to bridge the training gaps between initial and career training. With implementation of AMIST, technicians will be provided the training required to maintain a level of proficiency necessary to effectively perform the required tasks to reflect career progression. AMIST will begin when funding becomes available in FY00.

c. Aviation Maintenance Training Continuum System. AMTCS will redesign the aviation training process (training continuum), and introduce CBT throughout the Navy technical training process. The application and adoption of recent advances in computer hardware and software technology will enable CBT, with its basic elements of Computer Managed Instruction, Computer Aided Instruction, and Interactive Courseware, to be integrated into the training continuum and provide essential support for standardizing technical training.

2. Personnel Qualification Standards. Existing MK-105 MOD 2 Personnel Qualification Standards (PQS) requirements will be reviewed and modified to reflect the MK-105 MOD 4 system by COMHELTACWINGLANT.

3. Other On-Board or Inservice Training Packages. None.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

| CONTRACT NUMBER | MANUFACTURER | ADDRESS |
|------------------|--|--|
| N00024-96-C-6332 | EDO Corporation, Marine and Aircraft Systems (CAGE/FSCM Code 82340) | 1500 New Horizons Boulevard, North Amityville, NY 11701-1130 http://www.edocorp.com/ |

2. Program Documentation. Technical Systems Integration, Inc. is tasked with providing the required Integrated Logistics Support Plan (ILSP) and Maintenance Plan (MP) for the MK-105 MOD 4. The draft ILSP was submitted in September 1998 with the final due in April

1999. A completed draft MP will be submitted in June 1999 with the final due in July 1999. An Operational Logistic Support Summary (OLSS) will not be developed.

3. Technical Data Plan. Appropriate technical information and supply support data to complete necessary organizational and intermediate level maintenance actions on the MK-105 MOD 4 will be developed as IETMs and be included in the PSS. The PSS is a computer system that includes appropriate maintenance actions IETMs and CBT required to maintain a specific weapons system to the level specified. The MK-105 MOD 4 PSS is being prepared to support both organizational and intermediate levels of maintenance. The PSS will be located within applicable work centers and provide personnel with direct access to maintenance instructions and quality training. The final PSS will incorporate changes as a result of a verification with Fleet representatives. Reference element IV.B.3 within this NTSP for applicable IETMs.

4. Test Sets, Tools, and Test Equipment. The following MK-105 MOD 2 Test Sets will be modified for use on the MK-105 MOD 4:

- Controller Test Set AN/ALM-157 (P/N 80670-1)
- Control Programmer Test Set AN/ALM-156 (P/N 80671-1)
- Generator Set Test Set AN/ALM-158 (P/N 80672-1)
- Platform Electronics Test Set AN/ALM-159 (P/N 80673-1)

5. Repair Parts. Repair Parts are listed in the MK-105 MOD 4 MP currently being developed by EDO Corporation with an expected delivery date of June 1999. Material Support Date (MSD) is projected for September 2002. Navy support date is To Be Determined (TBD).

6. Human Systems Integration. Not applicable (NA)

K. SCHEDULES

1. Schedule of Events

a. Installation and Delivery Schedules. No installation required. A specific delivery schedule to the fleet has yet to be determined. The activities to receive the MK-105 MOD 4 are as follows:

- HM-14
- HM-15
- CSS, Panama City, Florida

b. Ready For Operational Use Schedule. Upon delivery and after an acceptance inspection, the MK-105 MOD 4 is ready for Operational Use.

c. Time Required to Install at Operational Sites. NA

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

e. Training Device and Delivery Schedule. No dedicated training equipment or devices are planned at this time. The operational MK-105 MOD 4, along with the PSS, will serve as the training equipment. The PSS will be prepared to include IETMs and CBT to support organizational and intermediate levels of maintenance. Short training lesson segments will also be integrated within the IETMs.

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 |
|-----------------------------------|--------------------------------|-----------------|-----------------------|
| Integrated Logistics Support Plan | EDO Report Number 15476 | PMS210 | Draft Sep 98 |
| Logistics Support Analysis (301) | EDO Report Number 15477 | PMS210 | Draft Jan 99 |
| Logistics Support Analysis (401) | EDO Report Number 15478 | PMS210 | Draft expected May 99 |
| MK-105 MOD 4 Maintenance Plan | EDO Report Number 15473 | PMS210 | Draft expected Jun 99 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the Mark-105 Mod 4 Magnetic Minesweeping System and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

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

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

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

II.B. Personnel Requirements

II.B.1. Annual Training Input Requirements

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

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

SOURCE: PMS210

DATE: 3/18/99

| ACTIVITY, UIC | PFYs | CFY99 | FY00 | FY01 | FY02 | FY03 |
|--|-------------|--------------|-------------|-------------|-------------|-------------|
| OPERATIONAL ACTIVITIES - NAVY | | | | | | |
| HM 14 | 53827 | 0 | 0 | 1 | 0 | 0 |
| HM 15 | 55201 | 0 | 0 | 1 | 0 | 0 |
| TOTAL: | | 0 | 0 | 2 | 0 | 0 |
| FLEET SUPPORT ACTIVITIES - NAVY | | | | | | |
| MCS 12 | 20009 | 0 | 0 | 1 | 0 | 0 |
| NAS Oceana Air Det Norfolk | 44325 | 0 | 0 | 1 | 0 | 0 |
| NAS Corpus Christi | 30244 | 0 | 0 | 1 | 0 | 0 |
| TOTAL: | | 0 | 0 | 3 | 0 | 0 |

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

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC / SNEC | |
|----------------------------------|---------|-----|------------------|-------------|------|
| | OFF | ENL | | PMOS / SMOS | |
| OPERATIONAL ACTIVITIES - NAVY | | | | | |
| HM 14 | 53827 | | | | |
| ACDU | 0 | 1 | AD1 | 8391 | |
| | 0 | 1 | AD2 | 8391 | |
| | 0 | 1 | AE1 | 8391 | |
| | 0 | 1 | AE2 | 8391 | |
| | 0 | 1 | AMH1 | 8391 | |
| | 0 | 2 | AMH2 | 8391 | |
| | 0 | 2 | AMS1 | 8391 | |
| | 0 | 2 | AMS2 | 8391 | |
| | 0 | 2 | AT1 | 8391 | |
| | 0 | 5 | AT2 | 8391 | |
| | 0 | 2 | AT2 | 8391 | 9526 |
| TAR | 0 | 1 | AE1 | 8391 | |
| | 0 | 2 | AE2 | 8391 | |
| | 0 | 2 | AMH1 | 8391 | |
| | 0 | 2 | AT1 | 8391 | |
| | 0 | 2 | AT2 | 8391 | |
| SELRES | 0 | 1 | AMS2 | 8391 | |
| ACTIVITY TOTAL: | 0 | 30 | | | |
| HM 15 | 55201 | | | | |
| ACDU | 0 | 1 | AD1 | 8391 | |
| | 0 | 1 | AD2 | 8391 | |
| | 0 | 1 | AE1 | 8391 | |
| | 0 | 1 | AE2 | 8391 | |
| | 0 | 1 | AMH1 | 8391 | |
| | 0 | 2 | AMH2 | 8391 | |
| | 0 | 2 | AMS1 | 8391 | |
| | 0 | 2 | AMS2 | 8391 | |
| | 0 | 2 | AT1 | 8391 | |
| | 0 | 5 | AT2 | 8391 | |
| | 0 | 2 | AT2 | 8391 | 9526 |
| TAR | 0 | 1 | AE1 | 8391 | |
| | 0 | 2 | AE2 | 8391 | |
| | 0 | 2 | AMH1 | 8391 | |
| | 0 | 2 | AT1 | 8391 | |
| | 0 | 2 | AT2 | 8391 | |
| SELRES | 0 | 1 | AMS2 | 8391 | |
| ACTIVITY TOTAL: | 0 | 30 | | | |

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

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC / SNEC | |
|--|---------|-----|------------------|-------------|------|
| | OFF | ENL | | PMOS / SMOS | |
| FLEET SUPPORT ACTIVITIES – NAVY | | | | | |
| MCS 12 20009 | | | | | |
| ACDU | 0 | 1 | AT2 | 8391 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |
| NAS OCEANA AIR DET NORFOLK 44325 | | | | | |
| ACDU | 0 | 2 | AE2 | 8391 | |
| | 0 | 4 | AT2 | 8391 | |
| | 0 | 1 | AT2 | 8391 | 9527 |
| ACTIVITY TOTAL: | 0 | 7 | | | |
| NAS CORPUS CHRISTI 30244 See note | | | | | |
| ACDU | 0 | 1 | AT1 | 8391 | |
| | 0 | 2 | AE2 | 8391 | |
| ACTIVITY TOTAL: | 0 | 3 | | | |

Note: Current manpower information does not show a requirement for NEC 8391 by NAS Corpus Christi. Historically, NAS Corpus Christi utilized TAD personnel from HM-15, losing those personnel when HM-15 deployed. As a result of recent manpower reviews, COMNAVAIRLANT (N422C) and CINCLANT have approved authorization of three NEC 8391 personnel (one AT1 and two AE2) for NAS Corpus Christi. NAS Corpus Christi is currently in receipt of the Shore Manpower Requirements Determination Report dated 21 January 1999 that reflects this authorization. When this manpower is listed on official Activity Manpower Documents, it will be included in future updates to this NTSP.

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

| DESIG RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|--------------------------------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAVY OPERATIONAL ACTIVITIES - ACDU | | | | | | | | | | | | | |
| AD1 | 8391 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AD2 | 8391 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AE1 | 8391 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AE2 | 8391 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMH1 | 8391 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMH2 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMS1 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMS2 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AT1 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AT2 | 8391 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AT2 | 8391 9526 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY OPERATIONAL ACTIVITIES - TAR | | | | | | | | | | | | | |
| AE1 | 8391 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AE2 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMH1 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AT1 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AT2 | 8391 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY OPERATIONAL ACTIVITIES - SELRES | | | | | | | | | | | | | |
| AMS2 | 8391 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY FLEET SUPPORT ACTIVITIES - ACDU | | | | | | | | | | | | | |
| AE2 | 8391 | | 4 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AT1 | 8391 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AT2 | 8391 | | 5 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AT2 | 8391 9527 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| SUMMARY TOTALS: | | | | | | | | | | | | | |
| NAVY OPERATIONAL ACTIVITIES - ACDU | | | | | | | | | | | | | |
| | | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY OPERATIONAL ACTIVITIES - TAR | | | | | | | | | | | | | |
| | | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY OPERATIONAL ACTIVITIES - SELRES | | | | | | | | | | | | | |
| | | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY FLEET SUPPORT ACTIVITIES - ACDU | | | | | | | | | | | | | |
| | | | 11 | | 0 | | 0 | | 0 | | 0 | | 0 |

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

| DESIG RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|-----------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |

GRAND TOTALS

| | | | | | | | | | | | | | |
|---------------|--|--|----|--|---|--|---|--|---|--|---|--|---|
| NAVY - ACDU | | | 51 | | 0 | | 0 | | 0 | | 0 | | 0 |
| NAVY - TAR | | | 18 | | 0 | | 0 | | 0 | | 0 | | 0 |
| NAVY - SELRES | | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

| ACTIVITY, LOCATION, UIC | USN/ USMC | PFYs | | FY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|----------------------------|--------------|----------------------------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| HM-14 | | NAS Oceana Air Det Norfolk | | 53827 | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUMMARY TOTAL | | | | | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HM-15 | | NAS Corpus Christi | | 55201 | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUMMARY TOTAL | | | | | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AIMD | | NAS Oceana Air Det Norfolk | | 44325 | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUMMARY TOTAL | | | | | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCS-12 | | USS Inchon | | 20009 | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUMMARY TOTAL | | | | | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AIMD | | NAS Corpus Christi | | 30244 | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUMMARY TOTAL | | | | | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | | | | | | | | | | | | | |
| | NAVY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Note: All MK105 Mod 4 instruction will be non-chargeable billets.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ PMOS / SMOS RATING PNEC / SNEC | BILLET BASE | CFY99 +/- CUM | FY00 +/- CUM | FY01 +/- CUM | FY02 +/- CUM | FY03 +/- CUM |
|--|----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| a. OFFICER – NAVY | NA | | | | | |
| b. ENLISTED - NAVY | | | | | | |
| Operational Billets ACDU and TAR | | | | | | |
| AD1 8391 | 2 | 0 2 | 0 2 | 0 2 | 0 2 | 0 2 |
| AD2 8391 | 2 | 0 2 | 0 2 | 0 2 | 0 2 | 0 2 |
| AE1 8391 | 4 | 0 4 | 0 4 | 0 4 | 0 4 | 0 4 |
| AE2 8391 | 6 | 0 6 | 0 6 | 0 6 | 0 6 | 0 6 |
| AMH1 8391 | 6 | 0 6 | 0 6 | 0 6 | 0 6 | 0 6 |
| AMH2 8391 | 4 | 0 4 | 0 4 | 0 4 | 0 4 | 0 4 |
| AMS1 8391 | 4 | 0 4 | 0 4 | 0 4 | 0 4 | 0 4 |
| AMS2 8391 | 4 | 0 4 | 0 4 | 0 4 | 0 4 | 0 4 |
| AT1 8391 | 8 | 0 8 | 0 8 | 0 8 | 0 8 | 0 8 |
| AT2 8391 | 14 | 0 14 | 0 14 | 0 14 | 0 14 | 0 14 |
| AT2 8391 9526 | 4 | 0 4 | 0 4 | 0 4 | 0 4 | 0 4 |
| Fleet Support Billets ACDU and TAR | | | | | | |
| AE2 8391 | 4 | 0 4 | 0 4 | 0 4 | 0 4 | 0 4 |
| AT1 8391 | 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 |
| AT2 8391 | 5 | 0 5 | 0 5 | 0 5 | 0 5 | 0 5 |
| AT2 8391 9527 | 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 |
| SELRES Billets | | | | | | |
| AMS2 8391 | 2 | 0 2 | 0 2 | 0 2 | 0 2 | 0 2 |
| TOTAL NAVY ENLISTED BILLETS | | | | | | |
| Operational | 58 | 0 58 | 0 58 | 0 58 | 0 58 | 0 58 |
| Fleet Support | 11 | 0 11 | 0 11 | 0 11 | 0 11 | 0 11 |
| SELRES | 2 | 0 2 | 0 2 | 0 2 | 0 2 | 0 2 |
| c. OFFICER – USMC | Not Applicable | | | | | |
| d. ENLISTED – USMC | Not Applicable | | | | | |

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the MK-105 MOD 4 and therefore, are not included in Part III of this NTSP.

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 III - TRAINING REQUIREMENTS

There are no formal dedicated training devices available at this time for any of the courses listed. All training will be accomplished with operational assets. Course length is directly dependent on the activity's MK-105 MOD 4 operational assets that will be made available for such training.

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MK-105 MOD 4 Initial Organizational Level Maintenance Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 2 Days
ACTIVITY DESTINATIONS: HM-14

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-14 | 53827 | Jun 00 | 0 | 30 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: HM-15

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-15 | 55201 | Jun 00 | 0 | 30 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

COURSE TITLE: MK-105 MOD 4 Structures and Hydraulic Systems Organizational Level Maintenance Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: HM-14

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-14 | 53827 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: HM-15

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-15 | 55201 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MK-105 MOD 4 Electrical Systems Organizational Level Maintenance Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: HM-14

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-14 | 53827 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: HM-15

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-15 | 55201 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

COURSE TITLE: MK-105 MOD 4 Power Plant Systems Organizational Level Maintenance Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: HM-14

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-14 | 53827 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: HM-15

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-15 | 55201 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MK-105 MOD 4 Launch and Recovery Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 2 Days
ACTIVITY DESTINATIONS: HM-14

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-14 | 53827 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: HM-15

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-15 | 55201 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

COURSE TITLE: MK-105 MOD 4 Sled Captain Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 3 Days
ACTIVITY DESTINATIONS: HM-14

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| HM-14 | 53827 | Jun 00 | 0 | 6 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: HM-15

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| HM-15 | 55201 | Jun 00 | 0 | 6 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MK-105 MOD 4 Aircraft Rig / Derig Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 1 Day
ACTIVITY DESTINATIONS: HM-14

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-14 | 53827 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: HM-15

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|------------|----------|-----|----|-----|------------|
| | | OFF | ENL | | | |
| HM-15 | 55201 | Jun 00 | 0 | 10 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

COURSE TITLE: MK-105 MOD 4 Hydraulic Components Intermediate Level Maintenance Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 2 Days
ACTIVITY DESTINATIONS: AIMD, USS Inchon

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|--------------------|------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD USS Inchon | 20009 | Jun 00 | 0 | 4 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: AIMD, Corpus Christi, Texas

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|-----------------------------------|------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD NAS Corpus Christi, Texas | 30244 | Jun 00 | 0 | 4 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: AIMD, NAS Oceana Air Det Norfolk, Virginia

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|--|------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD NAS Oceana Air Det Norfolk, Virginia | 44325 | Jun 00 | 0 | 4 | 0 | INPUT |
| | | | 0 | 0 | 0 | AOB |
| | | | 0 | 0 | 0 | CHARGEABLE |

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MK-105 MOD 4 Electrical Components Intermediate Level Maintenance Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: AIMD, USS Inchon

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|--------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD | 20009 Jun 00 | 0 | 4 | 0 | 0 | INPUT |
| USS Inchon | | 0 | 0 | 0 | 0 | AOB |
| | | 0 | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: AIMD, Corpus Christi, Texas

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------------------|--------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD | 30244 Jun 00 | 0 | 4 | 0 | 0 | INPUT |
| NAS Corpus Christi, Texas | | 0 | 0 | 0 | 0 | AOB |
| | | 0 | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: AIMD, Oceana Air Det Norfolk, Virginia

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|--------------------------------------|--------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD | 44325 Jun 00 | 0 | 4 | 0 | 0 | INPUT |
| NAS Oceana Air Det Norfolk, Virginia | | 0 | 0 | 0 | 0 | AOB |
| | | 0 | 0 | 0 | 0 | CHARGEABLE |

COURSE TITLE: MK-105 MOD 4 Engine and Fuel Electrical Components Intermediate Level Maintenance Course
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: AIMD, USS Inchon

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------|--------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD | 20009 Jun 00 | 0 | 4 | 0 | 0 | INPUT |
| USS Inchon | | 0 | 0 | 0 | 0 | AOB |
| | | 0 | 0 | 0 | 0 | CHARGEABLE |

ACTIVITY DESTINATIONS: AIMD, Corpus Christi, Texas

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | CIV | |
|---------------------------|--------------|----------|-----|---|-----|------------|
| | | OFF | ENL | | | |
| AIMD | 30244 Jun 00 | 0 | 4 | 0 | 0 | INPUT |
| NAS Corpus Christi, Texas | | 0 | 0 | 0 | 0 | AOB |
| | | 0 | 0 | 0 | 0 | CHARGEABLE |

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MK-105 MOD 4 Engine and Fuel Electrical Components Intermediate Level Maintenance
Course (continued)
COURSE DEVELOPER: D. P. Associates, Inc.
COURSE INSTRUCTOR: D. P. Associates, Inc.
COURSE LENGTH: 4 Days
ACTIVITY DESTINATIONS: AIMD, Oceana Air Det Norfolk, Virginia

| LOCATION, UIC | BEGIN DATE | STUDENTS | | | |
|--------------------------------------|---------------|----------|-----|-----|------------|
| | | OFF | ENL | CIV | |
| AIMD 44325 | Jun 00 | 0 | 4 | 0 | INPUT |
| NAS Oceana Air Det Norfolk, Virginia | | 0 | 0 | 0 | AOB |
| | | 0 | 0 | 0 | CHARGEABLE |

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the MK-105 MOD 4 and therefore, are not include 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 Courseware Requirements

IV.B.2. Curricula Materials and Training Aids

IV.C. Facility Requirements

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

IV.C.3. Facility Project Summary by Program

Note: The PSS, which houses the Computer-Base Training (CBT) lessons, will serve as the only technical training equipment required at this time. Utilizing operational assets and the PSS will provide all necessary training and preclude the need for other training equipment/aids.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

| COURSE/TYPE OF TRAINING | SCHOOL LOCATION, UIC | NO. OF PERSONNEL | MAN WEEKS REQUIRED | DATE BEGIN |
|---|---------------------------------|-----------------------------|-------------------------------|-----------------------|
| MK-105 MOD 4 Initial Organizational Level Maintenance Course | HM-14 53827 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Initial Organizational Level Maintenance Course | HM-15 55201 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Structures and Hydraulic Systems Organizational Level Maintenance Course | HM-14 53827 | 2 | 1.6 | Jun 00 |
| MK-105 MOD 4 Structures and Hydraulic Systems Organizational Level Maintenance Course | HM-15 55201 | 2 | 1.6 | Jun 00 |
| MK-105 MOD 4 Electrical Systems Organizational Level Maintenance Course | HM-14 53827 | 2 | 1.6 | Jun 00 |
| MK-105 MOD 4 Electrical Systems Organizational Level Maintenance Course | HM-15 55201 | 2 | 1.6 | Jun 00 |
| MK-105 MOD 4 Power Plant Systems Organizational Level Maintenance Course | HM-14 53827 | 2 | 1.6 | Jun 00 |
| MK-105 MOD 4 Power Plant Systems Organizational Level Maintenance Course | HM-15 55201 | 2 | 1.6 | Jun 00 |
| MK-105 MOD 4 Launch and Recovery Course | HM-14 53827 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Launch and Recovery Course | HM-15 55201 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Sled Captain Course | HM-14 53827 | 2 | 1.2 | Jun 00 |
| MK-105 MOD 4 Sled Captain Course | HM-15 55201 | 2 | 1.2 | Jun 00 |
| MK-105 MOD 4 Aircraft Rig / Derig | HM-14 53827 | 2 | 0.4 | Jun 00 |
| MK-105 MOD 4 Aircraft Rig / Derig | HM-15 55201 | 2 | 0.4 | Jun 00 |

IV.B.1. TRAINING SERVICES

| COURSE/TYPE OF TRAINING | SCHOOL LOCATION, UIC | NO. OF PERSONNEL | MAN WEEKS REQUIRED | DATE BEGIN |
|---|--|-----------------------------|-------------------------------|-----------------------|
| MK-105 MOD 4 Hydraulic Components Intermediate Level Maintenance Course | AIMD USS Inchon 20009 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Hydraulic Components Intermediate Level Maintenance Course | AIMD NAS Corpus Christi 30244 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Hydraulic Components Intermediate Level Maintenance Course | AIMD NAS Oceana Air Det Norfolk 44325 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Electrical Components Intermediate Level Maintenance Course | AIMD USS Inchon 20009 | 2 | 1.2 | Jun 00 |
| MK-105 MOD 4 Electrical Components Intermediate Level Maintenance Course | AIMD NAS Corpus Christi 30244 | 2 | 1.2 | Jun 00 |
| MK-105 MOD 4 Electrical Components Intermediate Level Maintenance Course | AIMD NAS Oceana Air Det Norfolk 44325 | 2 | 1.2 | Jun 00 |
| MK-105 MOD 4 Engine and Fuel Electrical Components Intermediate Level | AIMD USS Inchon 20009 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Engine and Fuel Electrical Components Intermediate Level | AIMD NAS Corpus Christi 30244 | 2 | 0.8 | Jun 00 |
| MK-105 MOD 4 Engine and Fuel Electrical Components Intermediate Level | AIMD NAS Oceana Air Det Norfolk 44325 | 2 | 0.8 | Jun 00 |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: TBD, MK-105 MOD 4 Initial Organizational Level Maintenance Course
TRAINING ACTIVITY: HM-14 HM-15
LOCATION, UIC: NAS Oceana Air Det Norfolk 53827 NAS Corpus Christi 55201

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|--------|----------|-----------|---------|
| TBD MK-105 MOD 4 General Information and Servicing Instructions | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Peculiar Support Equipment Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

CIN, COURSE TITLE: TBD, MK-105 MOD 4 Structures and Hydraulic Systems Organizational Level Maintenance Course
TRAINING ACTIVITY: HM-14 HM-15
LOCATION, UIC: NAS Oceana Air Det Norfolk 53827 NAS Corpus Christi 55201

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|--------|----------|-----------|---------|
| TBD MK-105 MOD 4 Hydraulic Systems Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Structures Systems Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |
| TBD Special/Preservation/Conditional, Minesweeping Gear, Magnetic, MK 105 MOD 4 | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 General Information and Servicing Instructions | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Peculiar Support Equipment Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: TBD, MK-105 MOD 4 Electrical Systems Organizational Level Maintenance Course
TRAINING ACTIVITY: HM-14 HM-15
LOCATION, UIC: NAS Oceana Air Det Norfolk 53827 NAS Corpus Christi 55201

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|---------------|-----------------|------------------|---------------|
| TBD MK-105 MOD 4 Electrical and Electronic Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |
| TBD Special/Preservation/Conditional, Minesweeping Gear, Magnetic, MK 105 MOD 4 | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 General Information and Servicing Instructions | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Peculiar Support Equipment Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

CIN, COURSE TITLE: TBD, MK-105 MOD 4 Power Plant Systems Organizational Level Maintenance Course
TRAINING ACTIVITY: HM-14 HM-15
LOCATION, UIC: NAS Oceana Air Det Norfolk 53827 NAS Corpus Christi 55201

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|---------------|-----------------|------------------|---------------|
| TBD MK-105 MOD 4 Power Plant Systems Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |
| TBD Special/Preservation/Conditional, Minesweeping Gear, Magnetic, MK 105 MOD 4 | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 General Information and Servicing Instructions | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Peculiar Support Equipment Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: TBD, MK-105 Launch and Recovery Course
TRAINING ACTIVITY: HM-14 HM-15
LOCATION, UIC: NAS Oceana Air Det Norfolk 53827 NAS Corpus Christi 55201

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|--------|----------|-----------|---------|
| TBD MK-105 MOD 4 General Information and Servicing Instructions | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Peculiar Support Equipment Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

CIN, COURSE TITLE: TBD, MK-105 Sled Captain Course
TRAINING ACTIVITY: HM-14 HM-15
LOCATION, UIC: NAS Oceana Air Det Norfolk 53827 NAS Corpus Christi 55201

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|--------|----------|-----------|---------|
| TBD MK-105 MOD 4 General Information and Servicing Instructions | CD ROM | 2 | Jun 00 | Pending |
| TBD Turnaround Checklist, Minesweeping Gear, Magnetic, MK 105 MOD 4 | CD ROM | 2 | Jun 00 | Pending |
| TBD Daily, Minesweeping Gear, Magnetic, MK 105 MOD 4 | CD ROM | 2 | Jun 00 | Pending |
| TBD Special/Preservation/Conditional, Minesweeping Gear, Magnetic, MK 105 MOD 4 | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Peculiar Support Equipment Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: TBD, MK-105 Aircraft Rig / Derig Course
TRAINING ACTIVITY: HM-14 HM-15
LOCATION, UIC: NAS Oceana Air Det Norfolk 53827 NAS Corpus Christi 55201

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|--------|----------|-----------|---------|
| TBD MK-105 MOD 4 General Information and Servicing Instructions | CD ROM | 2 | Jun 00 | Pending |
| TBD MK-105 MOD 4 Peculiar Support Equipment Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

CIN, COURSE TITLE: TBD, MK-105 Hydraulic Components Intermediate Level Maintenance Course
TRAINING ACTIVITY: AIMD Norfolk AIMD Corpus Christi
LOCATION, UIC: NAS Oceana Air Det Norfolk 44325 NAS Corpus Christi 30244

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|--------|----------|-----------|---------|
| TBD MK-105 MOD 4 Hydraulic Systems Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

CIN, COURSE TITLE: TBD, MK-105 Electrical Components Intermediate Level Maintenance Course
TRAINING ACTIVITY: AIMD Norfolk AIMD Corpus Christi
LOCATION, UIC: NAS Oceana Air Det Norfolk 44325 NAS Corpus Christi 30244

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|--------|----------|-----------|---------|
| TBD MK-105 MOD 4 Electrical and Electronic Systems Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: TBD, MK-105 Engine and Fuel Electrical Components Intermediate Level Maintenance Course
TRAINING ACTIVITY: AIMD Norfolk AIMD Corpus Christi
LOCATION, UIC: NAS Oceana Air Det Norfolk 44325 NAS Corpus Christi 30244

| TECHNICAL MANUAL NUMBER, TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|---------------|---------------------|----------------------|---------------|
| TBD MK-105 MOD 4 Electrical and Electronic Systems Maintenance Instructions, O & I Level /w IPB | CD ROM | 2 | Jun 00 | Pending |

PART V - MPT MILESTONES

| COG CODE | MPT MILESTONES | DATE | STATUS |
|-----------------|---|-------------|---------------|
| DA | Promulgated Draft NTP for review/comment | 5/98 | Completed |
| DA | Submitted Draft ILS Master Plan | 9/98 | Completed |
| DA | Promulgated ILS Master Plan | 2/99 | Completed |
| DA | Submitted Preliminary Draft NTSP | 4/99 | Completed |
| DA | Deliver curricula materials | 6/00 | Pending |
| DA | Deliver PSS software | 6/00 | Pending |
| DA | MK-105 MOD 4 Fleet Introduction | 6/00 | Pending |
| DA | Provide provisioning technical documentation | 6/00 | Pending |
| TSA | Conduct initial training (HM-14) | 6/00 | Pending |
| TSA | Conduct initial training (HM-15) | 6/00 | Pending |
| TSA | Conduct initial training (USS Inchon) | 6/00 | Pending |
| TSA | Conduct initial training (AIMD, Corpus Christi) | 6/00 | Pending |
| TSA | Conduct initial training (AIMD, Norfolk) | 6/00 | Pending |
| DA | MSD | FY02 | 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

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PART VII - POINTS OF CONTACT

| NAME / FUNCTION / ACTIVITY, CODE / INTERNET | TELEPHONE NUMBERS |
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| CDR Fredrick Lineberg Branch Head, Aviation Ratings NAVPERSCOM, NPC 404 404@persnet.navy.mil | COMM: (901) 874-3691 DSN: 882-3691 FAX: (901) 874-2642 |
| CDR Bill Peterson AMCM Maintenance Officer CHTWL, N42/N6 petersonw@chtwl.spear.navy.mil | COMM: (757) 444-1842 DSN: 564-1842 FAX: (757) 445-4460 |
| LCDR Ian McIntyre OIC Det 1 HM-15 | COMM: (512) 961-2042/5020 DSN: 861-2042 FAX: (512) 961-2115 |
| LCDR Thomas Breske AMCM Maintenance Officer HM-15 | COMM: (512) 961-4337 DSN: 861-4337 FAX: (512) 961-5160 |
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NAME / FUNCTION / ACTIVITY, CODE / INTERNET

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