

NAVY TRAINING SYSTEM PLAN

FOR THE

GBU-24 SERIES

(PAVEWAY)

LOW LEVEL LASER GUIDED BOMB

HARD TARGET PENETRATOR

N78-NTSP-A-50-0106/D

MARCH 2001

**GBU-24 SERIES LOW LEVEL LASER GUIDED BOMB
HARD TARGET PENETRATOR**

EXECUTIVE SUMMARY

This Navy Training System Plan (NTSP) has been developed to identify the life cycle Manpower, Personnel, and Training (MPT) requirements associated with the Guided Bomb Unit (GBU)-24 Series Low Level Laser Guided Bomb (LLLGB), Hard Target Penetrator (HTP). No previous NTSP exists for the GBU-24 Series LLLGB, HTP.

The GBU-24B/B LLLGB, HTP, and by extension, the GBU-24E/B, are an evolution of the United States Air Force (USAF) developed PAVEWAY I and II Laser-Guided Weapon Systems. The GBU-24E/B is an upgraded follow-on to the previously developed GBU-24B/B LLLGB, HTP which is now in Weapon System Acquisition Process III (Production, Development, and Operational Support). The GBU-24E/B, currently in Phase II (Engineering and Manufacturing Development), will eventually replace the GBU-24B/B. For the purposes of this document, except for specific design or other noted differences, the information provided will apply to both the GBU-24B/B and the GBU-24E/B versions of the weapon.

Operations in the Persian Gulf during Operation Desert Storm demonstrated that the Navy had limited capability to destroy buried or surface-hardened targets such as command and control bunkers, aircraft revetments, and shelters, with weapons employed from tactical aircraft. Based upon this need and the availability of the proven USAF 2,000 pound class GBU-24A/B laser-guided PAVEWAY III, in 1991 the Assistant Secretary of the Navy for Research, Development, and Acquisition authorized the procurement, modification, and qualification of the GBU-24A/B for Navy use. This resulted in the GBU-24B/B HTP weapon system, which was capable of overcoming the deficiencies demonstrated during Desert Storm.

The GBU-24 B/B provides significant capabilities, but a requirement to field an "Enhanced" GBU-24 was established by Chief of Naval Operations (CNO) (N780) in June 1997. After review of the program Plan of Action and Milestones (POA&M), CNO authorized the proposed modification, qualification and procurement of 500 GBU-24E/B weapons.

The GBU-24 Series maintenance concept is based on an overall objective to ensure that sufficient tactical weapons are available to fulfill commitments of operational activities and to restore unserviceable units to serviceable condition with minimal downtime. Maintenance requirements are allocated to the organizational, intermediate, and depot levels of maintenance as defined in the Naval Ordnance Maintenance Management Program (NOMMP), Office of the Chief of Naval Operations Instruction (OPNAVINST) 8000.16 (series). Workload associated with the GBU-24 system does not increase manning levels, and no additional manpower requirements are associated with introducing the system.

The GBU-24 Series training concept is to provide Initial and Follow-on training for maintenance and operator personnel. This training is divided into organizational (O) and

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intermediate (I) level maintenance training based on OPNAVINST 8000.16. Depot (D) level maintenance and any D-level training required is accomplished by the USAF. Operator training is provided to aviators at the Strike Fighter Weapons Schools (SFWS) and the appropriate Fleet Readiness Squadrons (FRS). Platform weapons school organizational level training is provided to F-14 and F/A-18 maintenance personnel at the appropriate Naval Air Maintenance Training Group (NAMTRAGRU) Maintenance Training Unit (MTU) or Detachment and Fleet Replacement Enlisted Skills Training (FREST) activity. Weapons loading training is conducted at the appropriate aircraft loading school. Intermediate level (I-level) maintenance personnel are trained at the appropriate MTU or Detachment.

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LIST OF ACRONYMS

ADG	Adapter Group
AFB	Air Force Base
AFG	Airfoil Group
AIMD	Aircraft Intermediate Maintenance Department
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
ASM	Aviation Maintenance Training Continuum System - Software Module
BCM	Capability of Maintenance
BFD	Battery Firing Device
BIT	Built-In Test
BUPERS	Bureau of Personnel
CAI	Computer Aided Instruction
CBT	Computer-Based Training
CEST	Classroom Explosive Ordnance Disposal System Trainer
CFY	Current Fiscal Year
CINCLANTFLT	Commander In Chief, Atlantic Fleet
CINCPACFLT	Commander In Chief, Pacific Fleet
CMI	Computer Managed Instruction
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMNAVAIRESFOR	Commander, Naval Air Reserve Forces
COMNAVAIRLANT	Commander, Naval Air Force, Atlantic Fleet
COMNAVAIRPAC	Commander, Naval Air Force, Pacific Fleet
COTS	Commercial Off-the-Shelf
CTP	Critical Technical Parameters
CV	Aircraft Carrier
CVN	Aircraft Carrier Nuclear
CWTPI	Conventional Weapon Technical Proficiency Inspection
D-Level	Depot Level
DT&E	Developmental Test and Evaluation
DTM	Data Transfer Module
ECR	Electronic Classrooms
EOD	Explosive Ordnance Disposal

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LIST OF ACRONYMS

EODTEUs	EOD Technical Evaluation Units
ETJ	Electronic Training Jacket
FASO	Fleet Aviation Specialized Training Group
FMS	Foreign Military Sales
FOT&E	Follow-on Operational Test and Evaluation
FREST	Fleet Readiness Enlisted Skills Training
FRS	Fleet Readiness Squadron
FTD	Fleet Training Devices
FY	Fiscal Year
g	g-force
GBU	Guided Bomb Unit
GCU	Guidance Control Unit
GEU	Guidance Electronics Unit
GPS	Global Positioning System
HARDMAN	Hardware/Manpower
HTP	Hard Target Penetrator
I-Level	Intermediate Level
ICW	Interactive Courseware
ILSP	Integrated Logistics Support Plan
IMU	Inertial Measurement Unit
INS	Inertial Navigation System
IOC	Initial Operating Capability
IOT&E	Initial Operational Test and Evaluation
LDT	Load Drill Trainer
LLLGB	Low Level Laser Guided Bomb
LRC	Learning Resource Centers
MALS	Marine Aviation Logistics Squadron
MATMEP	Marine Aviation Training Management Evaluation Program
MTMEP	Maintenance Training Management and Evaluation Program
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MIL-STD	Military-Standard

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LIST OF ACRONYMS

MOS	Military Occupational Specialty
MOTT	Mobile Ordnance Training Team
MPT	Manpower, Personnel, and Training
MTIP	Maintenance Training Improvement Program
MT	Mission Trainer
MTL	Master Task List
MTU	Maintenance Training Unit
NA	Not Applicable
NAB	Naval Amphibious Base
NAMTRAGRU	Naval Air Maintenance Training Group
NAMTRAGRUDET	Naval Air Maintenance Training Group Detachment
NAS	Naval Air Station
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Navy Personnel Command
NAVSCOLEOD	Navy Explosive Ordnance Disposal School
NAVSURFWARCEN	Naval Surface Warfare Center
NAWCWD	Naval Air Warfare Center, Weapons Division
NEC	Navy Enlisted Classification
NOMMP	Naval Ordnance Maintenance Management Program
NS	Naval Station
NSAWC	Naval Strike and Air Warfare Center
NTSP	Navy Training System Plan
NWS	Naval Weapons Station
OATMS	OPNAV Aviation Training Management System
OFP	Operational Flight Program
OFT	Operational Flight Trainer
O-Level	Organizational Level
OPEVAL	Operational Evaluation
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
OPTEVFOR	Operational Test and Evaluation Force
PC	Personal Computer
PEST	Practical Explosive Ordnance Disposal System Trainer

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LIST OF ACRONYMS

PFY	Previous Fiscal Year
PMA	Program Manager, Air
POA&M	Plan of Action and Milestones
PTT	Part Task Trainer
RFOU	Ready For Operational Use
RIO	Radar Intercept Officer
RSC	Raytheon Systems Company
SFTI	Strike Fighter Tactics Instructor
SFTP	Strike Fighter Training Program
SFTS	Strike Fighter Training System
SFWS	Strike Fighter Weapons School
SFWT	Strike Fighter Weapons and Tactics
T/M/S	Type/Model/Series
TBD	To Be Determined
TD	Training Device
TEV	Test and Evaluation
TMCR	Technical Manual Contract Requirements
TD/TTE	Training Devices and Technical Training Equipment
UIC	Unit Identification Code
USAF	United States Air Force
USMC	United States Marine Corps
USN	United States Navy
WSMR	White Sands Missile Range
WSO	Weapons and Sensor Operator
WST	Weapon System Trainer

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PREFACE

This Navy Training System Plan (NTSP) for the GBU-24 Series Low Level Laser Guided Bomb Hard Target Penetrator has been prepared within the guidelines set forth in Office of the Chief of Naval Operations Instruction (OPNAVINST) 1500.76.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. GBU-24 Series Low Level Laser Guided Bomb, Hard Target Penetrator (LLLGB, HTP).

2. Program Element. 0205601N

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 (N780D)

OPO Resource Sponsor CNO (N780D)

Developing AgencyNAVAIRSYSCOM (PMA 201)

Training Agency..... CINCLANTFLT
CINCPACFLT
COMNAVAIRESFOR
CNET
MCCDC

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

Manpower and Personnel Mission Sponsor CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training CNO (N7)

Commander, Reserve Program Manager.....COMNAVAIRESFOR

Marine Corps Combat Development Command
Manpower Management TFS Division

D. SYSTEM DESCRIPTION

1. Operational Uses. The GBU-24 Series LLLGB, HTP is a weapon which has a laser guidance package attached to a penetrator warhead (Paveway III electronics and mechanical assemblies added to the nose and tail of the BLU-109 bomb body). It is carried and launched from F-14B/D and F/A-18C/D/E/F (hereafter referred to as F-14 or F/A-18) aircraft and is designed for use when attacking hardened targets. The weapon will operate from a variety of different launch scenarios (high/low altitude, level/dive/loft deliveries). Terminal impact angles can be optimized for hardened targets with a number of orientations (including vertical or horizontal targets).

2. Foreign Military Sales. Foreign Military Sales (FMS) procurement is anticipated after Operational Evaluation (OPEVAL). The USAF, as the executive service, is responsible for FMS.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. Initial Operational Test and Evaluation (IOT&E) of the GBU-24 system was first conducted in 1987 by the USAF Tactical Air Warfare Center. Based on USAF results, CNO determined that the GBU-24 effectiveness and reliability met Navy requirements. The Navy conducted Follow-on Operational Test and Evaluation (FOT&E) (OT-III), verifying the compatibility and integration of the GBU-24 system as delivered from Naval aircraft. OT-III FOT&E of the GBU-24B/B project was conducted at Naval Air Warfare Center, Weapons Division (NAWCWD), China Lake and White Sands Missile Range (WSMR), from October to December 1993, and at sea aboard USS CAMDEN (AOE 2) and USS CARL VINSON (CVN-70) in October 1993.

2. Developmental Test and Evaluation (DT&E) of the GBU-24E/B will be conducted to ensure compatibility with Navy requirements. The developmental testing planned prior to and during operational testing will include tests structured to gather ground and flight test data for various areas of interest. These tests include Critical Technical Parameters (CTP) and test conditions that were not addressed or demonstrated at lesser levels during weapon development. GBU-24E/B weapon performance, integration and compatibility features will be determined against the requirements of Navy unique operations and environments. Flight test results will be used to validate the full interface and power-only mode of the weapon and carriage and release envelopes for the F/A-18 and F-14. Testing will support eventual fleet clearance for carriage and employment of the weapon system. All test results will be used to support a decision to initiate operational testing.

3. The GBU-24E/B has been enhanced with the addition of the navigational capability provided by a Global Positioning System (GPS). OT-III A will test this new capability and the legacy mode of the GBU-24E/B. OT-III A for GBU-24E/B is currently scheduled to be conducted in 2nd and 3rd quarter FY01 at various sites, including NAWCWD, China Lake and Point Mugu, WSMR, and at sea aboard an aircraft carrier (CV/CVN), under various

environmental conditions. The GBU-24E/B system will be operated and maintained by VX-9 personnel during OT-III A.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The GBU-24 Series LLLGB, HTP does not replace any existing Navy or Marine Corps weapon system.

G. DESCRIPTION OF NEW DEVELOPMENT

1. GBU-24B/B Functional Description. The GBU-24B/B is a laser guided bomb capable of single or multiple carriage on host aircraft. Guidance is provided by laser energy reflected from the target. Target illumination may be provided by the delivery aircraft, another aircraft, or a ground designator. The weapon will operate from a variety of different launch scenarios (high/low altitude, level/dive/loft deliveries). Terminal impact angles can be optimized for hardened targets with a number of orientations (including vertical or horizontal targets). Four delivery options (MODEs) can be selected by setting the MODE switch (on the side of the Guidance Control Unit (GCU)) prior to aircraft takeoff. Once the weapon has been released from the aircraft, the ensuing flight can be divided into three phases: Initialization, Midcourse, and Terminal Guidance.

Initialization. During Initialization phase, there is an approximate two second wait period to permit safe separation distance of the weapon from the aircraft. The control system is then activated. The GCU determines the MODE selection and examines altitude data from the barometer within the GCU. From this available information, an optimum MIDCOURSE flight trajectory is determined.

Midcourse. The midcourse flight selection is based upon the conditions measured during the Initialization phase. The Midcourse flight profile and seeker scan functions are optimized to provide the best possible probability for acquiring the target, while maintaining the maximum energy for penetration. The midcourse phase is maintained until the target is acquired.

Terminal Guidance. After the weapon acquires the target, it enters the Terminal Guidance phase of flight. During this phase the weapon trajectory is optimized to provide the best possible penetration of the target, based upon the target conditions determined by the GCU during the Initialization phase of flight.

The following paragraphs provide a functional description of the GBU-24B/B GCU, Airfoil Group (AFG), Adapter Group (ADG), Fuze System, and penetrator body.

a. Guidance Control Unit, WGU-39/B. The GCU detects the laser energy reflected from the target, processes the signals, and guides the weapon to the target. The GCU consists of a seeker platform assembly, a guidance electronics unit (GEU), and a control actuator assembly. The seeker platform converts the laser energy into line-of-sight error signals and sends them to the GEU. The GEU receives the seeker platform signals and processes them into control commands for the control actuator assembly. There are four CODE SELECT switches

and two MISSION SELECT switches (MODE and WEAPON IDENT) located on the side of the GEU that are set prior to aircraft launch to match mission requirements.

b. GCU Components

(1) Seeker Platform Assembly. The seeker platform is a gimbaled laser seeker. The laser sensor is a four-quadrant detector system that senses the location of a target within the instantaneous field of view. The laser energy reflected from the target is converted into line-of-sight error signals that are amplified, then sent to the GEU.

(2) Guidance Electronics Unit. The GEU receives the seeker platform signals and processes them into control commands for the control actuator assembly. The CPU-186A/B GEU contains four CODE SELECT switches and two MISSION SELECT switches located on the side of the GEU that are set prior to launch to match mission requirements.

(3) Control Actuator Assembly. The control actuator assembly contains the cold gas pneumatic system, barometer, control fin shafts, system battery, and system activation battery (thermal battery firing device). The system activation battery provides the voltage to activate the system thermal battery and gyro assemblies. The pneumatic system is a two-axis servosystem that receives commands from the GEU and positions the control fins to maneuver the weapon.

c. Airfoil Group, BSU-84/B and BSU-84A/B

The AFG consists of a forward adapter assembly, four control fin assemblies, a folding wing assembly, and three arming lanyards. The forward adapter assembly mounts the GCU to the warhead. The control fins attach to the control actuator assembly and maneuver the system in flight. The wing assembly spider and linkage assembly located in the interior of the AFG, when held by the wing release latch, compresses a set of springs and folds the wings into the fairing. Tripping the latch releases the spider. The springs push the spider and linkage assembly, moving the wings to the extended position. The wing release latch is activated when the weapon system is released from the aircraft, and after arming cable extraction.

d. Adapter Group, ADG-770/B. The adapter group consists of a hardback, two suspension lugs, two lug sleeves, aft fairing assembly, and an FZU extender. The hardback attaches to the BLU-109 bomb body and provides for the proper clearance of the weapon when attached to the aircraft. The lug sleeves bolt to the bomb body and the suspension lugs screw into the lug sleeves. The aft fairing assembly provides an aerodynamic interface between the bomb body and wing assembly. The FZU extender sits in the arming well of the BLU-109 bomb body and extends to the bottom of the hardback. The FZU arming cable is routed through the extender, and the FZU is attached to the hardback on top of the extender.

e. Fuze Assembly, FMU-143E/B. The fuze assembly consists of an FMU-143 bomb fuze, a retractile cable assembly, an arming lanyard, a safety pin WARNING flag, a fuze mount retainer, 2 eighteen inch lanyards, and an FZU-32B/B initiator. The FMU-143 bomb fuze assembly is designed to detonate 60 milliseconds after impact. A selected arming delay of 5.5 or 12 seconds is initiated when the bomb is released from the aircraft. The Navy is authorized the

12 seconds delay only because of safe separation concerns and premature detonations. The FZU-32B/B initiator is used to generate and supply power to arm the fuze.

f. Penetrator Warhead, BLU-109A/B. The bomb case is made from modified 4340 alloy steel with a body designed for improved ballistics. The heavy-walled steel case provides the penetration capabilities of 4 to 6 feet of reinforced concrete. A conduit (charging tube) connects the fuze well to the arming well. The fuze well accepts and mounts the FMU-143E/B fuze assembly. The FZU-32B/B initiator is mounted in the arming well on the upper surface of the bomb and is connected to the fuze via a retractile electrical cable through the charging tube conduit. The BLU-109A/B contains PBXN-109 explosive fill and is thermally protected to provide additional insensitive munitions capability over the original Tritonal fill used in the Air Force version.

2. GBU-24E/B Functional Description. The GBU-24E/B is a GPS-aided, all-weather guided bomb capable of single or multiple carriage on host aircraft. The GBU is normally mounted on aircraft with full or partial Military-Standard (MIL-STD)-1760 communications interface, but can alternatively be used on aircraft without any umbilical interface with the GBU. The GBU mission options are selected prior to captive carriage and delivery, and when installed on a full interface aircraft, the mission may be changed prior to weapon launch. In the enhanced mode the GBU is intended to engage stationary targets for which it has been prebriefed with target location information and mission options. It is also capable of engaging moving targets of opportunity when used as a conventional GBU when the all-weather enhanced capabilities are not required. Upon release in the enhanced mode, the GBU flies the selected midcourse and terminal trajectory to the prebriefed target location without requiring continuous laser designation. If a laser designated target is acquired within the field of regard, the GBU will upgrade the target coordinates using the location of the designated target. If released from the host aircraft without power applied, the GBU performs as a conventional laser guided bomb, searching for and engaging a properly coded continuous laser return without using prebriefed target coordinates. After launch, the weapon is in autopilot control until target acquisition. At target acquisition, the weapon is guided to target impact. The following paragraphs provide a functional description of the GBU-24E/B GCU, AFG, ADG, Fuze System, and penetrator body.

a. Guidance Control Unit, WGU-39A/B. The WGU-39A/B GCU provides the same primary laser guidance mode as the WGU-39/B, but the GCU has been modified to incorporate the GPS electronics, GPS antennas, the Inertial Measurement Unit (IMU), and the software updated to add the GPS/Inertial Navigation System (INS) guidance capability and integrate the existing laser processing. The guidance mode will be “accurate” when using GPS only, or “precision” when GPS guidance is augmented with midcourse or terminal lasing of the target. GCU capabilities with the various possible aircraft interfaces are as follows:

(1) Full Interface. When a full-interface is provided to the weapon (GCU), downloading of targeting data, weapon operating mode, GPS Crypto-Keying, GPS Ephemeris/Almanac data and transfer alignment information is provided by the aircraft. The GCU provides weapon status data back to the aircraft via the interface. Modification of targeting data is possible via the aircraft interface anytime prior to release of the weapon. The GBU-24E/B is configured to be compatible with the F/A-18C/D Operational Flight Program (OFP)-

13C JDAM communications interface. The GCU has a Built-in-Test (BIT) capability. When the GBU-24 E/B is loaded on an aircraft with full interface, the aircrew will be able to perform BIT while the aircraft is in flight.

(2) Power-only Interface. When the GCU is provided with a power-only interface (such as the F-14 aircraft will provide), targeting data, GPS Almanac data and weapon operating mode are provided to the weapon via a Data Transfer Module (DTM). This DTM must be programmed (below deck) and plugged into the side of the GCU prior to aircraft take-off. GPS Crypto-Keying of the weapon GCU must be accomplished using a KYK-13 (or equivalent). All operations are accomplished by removing a small panel on the side of the GCU. GPS acquisition, IMU transfer alignment and development of a navigation solution are performed within the GCU after power-up. A signal line from the weapon is provided to indicate weapon “ready / not ready” status to the pilot. The time required to accomplish the acquisition and generation of guidance solutions is considerably longer than with full-interface communications with the aircraft. Re-targeting is not possible without removal and reprogramming of the DTM.

(3) No Interface. With no interface, the weapon GCU will operate in the laser-only mode, as if it were a GBU-24B/B. Four delivery options (MODEs) can be selected by setting the MODE switch (on the side of the GCU) prior to aircraft takeoff. Unlike the full-interface or power-only interfaces, the weapon is unpowered at release, and is activated upon separation via a lanyard attached to the GCU Battery Firing Device (BFD). Once the weapon has been released from the aircraft, the ensuing flight can be divided into three phases: Initialization, Midcourse, and Terminal Guidance.

b. Airfoil Group, BSU-84B/B. The BSU-84B/B consists of the wing assembly, the forward adapter assembly which attaches the GCU to the warhead, and the four canards which are installed into the GCU control section. The cant of the wings within the current wing assembly is being changed slightly to decrease the weapon rate of roll. The wings are folded within the wing assembly and are lanyard deployed upon separation from the aircraft. The wings and canards provide lift and turning capability which permit much longer range employment than earlier Paveway II laser-guided weapons.

c. Adapter Group, ADG-770A/B. The adapter group consists of a hardback, two suspension lugs, lug sleeves, and an aft fairing. The hardback provides proper spacing and mechanical interfacing of the weapon to a variety of Navy and Air Force aircraft bomb racks. The hardback originally used on the GBU-24B/B has been modified to provide a mounting for an electrical connector and a conduit for an electrical cable which connects the GCU to the MIL-STD-1760 aircraft interfacing connector on the aft end of the hardback. The lug sleeves bolt to the bomb body and the suspension lugs screw into the lug sleeves. The suspension lugs project through holes in the hardback. The aft fairing provides an aerodynamic interface between the warhead and wing assembly.

d. Warhead, BLU-109A/B. The GBU-24E/B uses the same BLU-109A/B warhead which has been qualified for use with the GBU-24B/B.

e. Fuze, FMU-143E/B. The GBU-24E/B uses the FMU-143E/B fuze, which has been qualified for use with the GBU-24B/B. The FZU-32B/B provides power for the fuze, following lanyard activation upon separation from the aircraft. The MIL-STD-1760 interface cable has necessitated a change in the arming wire routing to the aft solenoid.

f. Containers. The following is a list of the containers used to package the GBU-24 components:

GBU-24 Series Component	Container
BLU-109A/B Warhead	MHU-212/E Pallet
FMU-143E/B Fuze	PA-60
BSU-84/B, A/B, and B/B AFG	CNU-373/E
WGU-39/B and A/B GCU	CNU-371/E
ADG-770/B and A/B Adapter Group (Spacers)(MK 3 Lugs)	CNU-439A/E (ADG 770/B) or CNU-439 B/E(ADG-770A/B)

4. Physical Description. Physical characteristics of the GBU-24 Series weapons are as follows:

<u>Dimensions</u>	<u>GBU-24 B/B</u>	<u>GBU-24 E/B</u>
Length	169.7 in.	169.7 in.
Weight	2348.3 lb.	2411.5 lb.
Wing Span (closed)	36.0 in.	36.0 in.
Wing Span (open)	80.4 in.	80.4 in.
Suspension	30.0 in.	30.0 in.

5. New Development Introduction. The GBU-24B/B is currently in the fleet and the E/B will be introduced to the fleet as an upgraded follow-on to the GBU-24B/B weapon.

6. Significant Interfaces. The GBU-24E/B provides MIL-STD-1760 interface capability which significantly enhances its capability over the GBU-24B/B.

H. CONCEPTS

1. Operational Concept. GBU-24 Series LLLGB, HTP is designed to be deployed with Navy and Marine Corps tactical aircraft squadrons. GBU-24 is intended for use by F-14 and F/A-18 aircraft. GBU-24 is employed in various tactical applications by aircrews, and used during air-to-ground combat evolutions. The weapon is launched from an aircraft at enemy ground targets, guided by internal GPS guidance.

2. Maintenance Concept. The GBU-24 series maintenance concept is based on an over-all objective to ensure adequate tactical assets are available to fulfill commitments of operational activities and provide the means to restore unserviceable units/components to

serviceable condition with minimal downtime. Maintenance requirements are allocated to three levels of maintenance as defined in the OPNAVINST 8000.16 (series).

a. Organizational. O-level maintenance for air-launched weapons is performed by personnel within the Aviation Ordnanceman (AO) rating. AOs with Navy Enlisted Classification Codes (NEC) 8341 or 8342 (F/A-18), 8335 or 8345 (F-14) and United States Marine Corps (USMC) Aviation Ordnance personnel with Military Occupational Specialty (MOS) 6531 perform organizational-level maintenance for air launched weapons on F/A-18 and F-14 aircraft. O-level maintenance consists of functions normally performed by an operating unit on a daily basis. O-level maintenance for the GBU-24 Series will consist of:

- Aircraft preparation and release and control and interface checks
- Visual inspection of weapon
- Checking weapon mode switch settings
- Weapon handling
- Weapon loading and downloading.

Five AOs will be required to handle and load the GBU-24. Using the GBU-24 loading checklists for inspection and loading, a minimum of five USN AOs with NEC 8341 or 8342 (F/A-18), or 8335 or 8345 (F-14) or five USMC AOs with MOS 6531 (one load crew) per squadron are required during peacetime operations, even though only a portion of their workload will be driven by GBU-24 operations.

Visual inspection will be conducted prior to loading and after downloading. There are no preventive maintenance requirements at the O-level.

b. Intermediate. Intermediate-level maintenance is the responsibility of and is performed by designated maintenance activities that support user organizations. The I-level maintenance mission is to enhance and sustain combat readiness and mission capability by providing quality and timely material support to supported activities. The purpose of I-level maintenance is to ensure airborne weapons maintenance functions are performed at the level that ensures optimum economic use of resources. Tactical units requiring Beyond the Capability of Maintenance (BCM) at the I-level are returned to the Depot level maintenance activity ashore for repair or disposition. GBU-24 maintenance is performed ashore at Naval Air Stations (NAS), Marine Aviation Logistics Squadrons (MALs), and afloat on CV/CVNs by Weapons Department Navy AOs with NEC 6801 and Marines with MOS 6541. I-level maintenance of the GBU-24 consists of the following:

- Weapon component unpacking and packing
- Weapon component inspection
- Weapon assembly and disassembly
- Gyro switch setting
- Weapon inspection
- Identification and isolation of problems
- Sub-assembly removal and replacement
- Minor structural repair and corrosion control

Five AOs will be required to unpack and assembly GBU-24. Using the GBU-24 weapons assembly checklists for unpacking, inspecting, weapon assembly and disassembly, and packing, a minimum of five USN AOs with NEC 6801 per Weapons Department or five USMC AOs with MOS 6541 per MALS are required during peacetime operations, even though only a portion of their workload will be driven by GBU-24 operations.

c. Depot. Depot level maintenance for all GBU-24 components except the BLU-109 bomb body will be provided by Raytheon Systems Company (RSC), Tucson, AZ. Naval Weapons Stations (NWS) will process failed components back to the depot maintenance site. At a future date, depot level maintenance responsibilities will be assumed by the Government at a facility to be determined.

d. Interim Maintenance. The GBU-24 project office, located at NAWCWD, China Lake, California, provides GBU-24E/B technical assistance to organizational and intermediate activities. They provide On-the-Job Training for organizational and intermediate maintenance personnel and operational updates and briefings for flight crews.

3. Manning Concept. The introduction of GBU-24 series into the Navy inventory does not change current manpower requirements at organizational, intermediate, or depot level activities. Aircrew manpower is driven by seat factor and crew ratio. Enlisted manning for fleet squadrons, FRS, and I-level maintenance activities is based on the total assigned workload, not only on specific GBU-24 requirements. Skills required to support the GBU-24 are considered to be within the capability of personnel holding existing NEC/MOS.

4. Training Concept.

a. Training. A systems approach has been applied in the development and preparation of a training program that targets designated operator and maintainer training concurrently with aircraft Type/Model/Series (T/M/S) training conducted at various (in place) training sites. During Hardware/Manpower (HARDMAN) analysis, it was determined that new stand-alone operator or maintenance courses are not required. GBU-24 training is divided into organizational and intermediate-level maintenance, based on OPNAVINST 8000.16 (series). Organizational-level training is provided to operator and maintenance personal. Operator training is provided for F-14 pilots and Radar Intercept Officer (RIO) and F/A-18 pilot and Weapons and Sensor Operator (WSO) personnel. Organizational-level maintenance training is provided to AO personnel in the F-14 and F/A-18 communities with NEC codes 8341 and 8342 (F/A-18), 8335 and 8345 (F-14) and MOS 6531. Intermediate-level training is provided to AO maintenance personnel with NEC 6801 and MOS 6541.

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 the 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. Upon completion of Core and Strand “A”

School, graduates attend the appropriate Initial “C” School for additional specific training. Initial “C” School training is intended for students with a paygrade of E-4 and below. Career “C” School training is provided for E-5 and above personnel to enhance skills and knowledge within their field.

Selected Reserve (SELRES) training is conducted by the Naval Air Reserve at each squadron site per current Commander, Naval Air Reserve Force (COMNAVAIRESFOR) instructions. The training is segmented and tailored for use by SELRES personnel during weekend drill periods and two-week active duty periods. If SELRES personnel and training quotas are available, COMNAVAIRESFOR must coordinate with appropriate quota controls to get training quotas at the FRSs.

(1) Initial Training. Initial training for the GBU-24B/B was conducted in 1994. Initial training for the GBU-24E/B will be provided to Operational Test and Evaluation Force (OPTEVFOR) personnel by Raytheon training personnel prior to the commencement of OPEVAL, and will also be provided to Naval Air Maintenance Training Group (NAMTRAGRU) and Fleet Weapon School Instructors prior to Initial Operating Capability (IOC). One (1) GBU-24E/B course titled “GBU-24E/B, Hard Target Penetrator, Laser Guided Bomb Fleet Familiarization” and sixteen (16) Inert Ground Handling/Loading weapons (Load Drill Trainers (LDT)) will be provided for initial and follow-on training. Delivery of LDTs to various Navy and Marine Corps Weapon Schools, and F/A-18 loading schools will have been completed prior to IOC. The GBU-24E/B Familiarization course will be delivered to the training sites at the same time that initial training is conducted at each site. This course material is to be used to update the current GBU-24 courseware at each training site, at the completion of initial training.

(2) Follow-on Training. Follow-on training for GBU-24E/B developed from the initial training package will be available as part of courses taught at the FRS, Strike Fighter Weapons School (SFWS) Atlantic and Pacific, Naval Strike and Air Warfare Center (NSAWC), and Naval Air Maintenance Training Group (NAMTRAGRU). The addition of GBU-24E/B data into the existing GBU-24 training courses will cause no change in student throughput or chargeable student billets. However, the addition of the GBU-24E/B data into the Precision Guided Weapons Intermediate Maintenance (C-122-3113) course will increase the course length from three to five days.

(a) Operator Training. Pilots, RIOs and WSOs are trained at the appropriate FRS for specific aircraft operation and weapons employment. Pilot, RIO, and WSO skills in tactics and ordnance delivery are further enhanced at the SFWS, NSAWC, and through squadron on-board proficiency training. Pilot and RIO/WSO personnel maintain their proficiency in the F-14 / F/A-18 aircraft through the use of simulators as well as in-aircraft flights. Aircraft Operational Flight Trainers (OFTs), Part Task Trainers (PTTs), Mission Trainers (MTs), and Weapon Systems Trainers (WSTs) provide a cost effective method which allows aircrews to simulate flight conditions to develop team coordination, practice weapon delivery, and simulate emergency procedures in a safe environment. In-aircraft flights allow aircrews to apply procedures practiced in the simulator in the actual flight environment. Actual in-aircraft missions are used to practice air combat maneuvers and weapon delivery procedures. The following table lists the applicable operator training courses. GBU-24E/B source material

will be incorporated, and will cause no change in student throughput or chargeable student billets.

COURSE NUMBER	COURSE TITLE
D/E-2A-0601	F/A-18 Fleet Replacement Pilot Cat 1
D/E-2A-0602	F/A-18 Fleet Replacement Pilot (Attack) Cat 2
D/E-2A-0604	F/A-18 Fleet Replacement Pilot Cat 3A
D/E-2A-0606	F/A-18 Fleet Replacement Pilot Cat 4
None (USMC)	F/A-18D Fleet Replacement Pilot Category 1
None (USMC)	F/A-18D Fleet Replacement Pilot Category 2
None (USMC)	F/A-18D Fleet Replacement Pilot Category 3
None (USMC)	F/A-18D Fleet Replacement Pilot Category 4
None (USMC)	F/A-18D Weapon and Sensor Operator (WSO) Category 1
None (USMC)	F/A-18D Weapon and Sensor Operator (WSO) Category 2
None (USMC)	F/A-18D Weapon and Sensor Operator (WSO) Category 3
None (USMC)	F/A-18D Weapon and Sensor Operator (WSO) Category 4
D-2A-1601	F-14 Pilot Category 1
D-2A-1602	F-14 Pilot Category 2
D-2A-1603	F-14 Pilot Category 3
D-2A-1604	F-14 Pilot Category 4
D-2A-1631	F-14D Fleet Replacement Pilot Cat 1
D-2A-1634	F-14D Fleet Replacement Pilot Cat 2
D-2A-1637	F-14D Fleet Replacement Pilot Cat 3
D-2A-1640	F-14D Fleet Replacement Pilot Cat 4
D-2D-1601	F-14 Naval Flight Officer Category 1
D-2D-1602	F-14 Naval Flight Officer Category 2
D-2D-1603	F-14 Naval Flight Officer Category 3
D-2D-1604	F-14 Naval Flight Officer Category 4
D-2D-1631	F-14D Fleet Replacement NFO Category 1
D-2D-1634	F-14D Fleet Replacement NFO Category 2
D-2D-1637	F-14D Fleet Replacement NFO Category 3
D-2D-1640	F-14D Fleet Replacement NFO Category 4

(b) Organizational-level Maintenance Training.

Organizational-level maintenance personnel are trained at the appropriate MTU for specific aircraft/weapon loading and maintenance. Weapon loading skills are further enhanced at SFWS, and through on-board proficiency training. A new training concept for most aviation maintenance training has been established. This concept entails dividing C1 courses into separate initial and career training courses. Initial “C” School training is intended for students with a paygrade of E-4 and below. Career “C” School training is provided to personnel E-5 and above to enhance their skills and knowledge within their field. GBU-24 E/B will be taught in the following organizational-level maintenance training courses. Source material will be incorporated into these courses with minimal impact, and cause no change in student throughput

or chargeable student billets. The Training Device (TD) that is required for organizational level weapons load training is the LDT.

COURSE NUMBER	COURSE TITLE
C-646-9973	F/A-18 Stores Management System (Initial) Organizational Maintenance
C-646-9974	F/A-18 Stores Management System (Career) Organizational Maintenance
D/E-646-0640	F/A-18 Conventional Weapons Loading
D/E-646-0647	F/A-18 Conventional Release System Test
D-646-1647	F-14 Armament Systems (Initial) Organizational Maintenance
D-646-1641	F-14 Armament Systems (Career) Organizational Maintenance
D-646-1640	F-14D Armament Systems Career O-level Maintenance

(c) Intermediate-level Maintenance Training. Intermediate-level maintenance training is available for USN and USMC AOs through the appropriate MTU or Fleet Readiness Enlisted Skills Training (FREST). Existing courses will be updated to include GBU-24E/B data and will extend the course length of the Precision Guided Weapons Intermediate Maintenance (C-122-3113) course from three to five days. Aviation Specialized Training Group (FASO), Atlantic is organized with a Mobile Ordnance Training Team (MOTT) that provides hands-on training for Atlantic Fleet Navy squadrons and CV and CVN ships and shore activities in conventional weapons handling, safety, and stowage. Pacific Fleet MOTT is provided by Commander, Naval Air Force, Pacific Fleet (COMNAVAIRPAC) N85. Requests for MOTT training should be submitted to COMNAVAIRPAC (N85) for Pacific Fleet activities, and to Commander, Naval Air Force, Atlantic Fleet (COMNAVAIRLANT) N85 for Atlantic Fleet activities. The Training Device (TD) that is required for organizational level weapons load training is the LDT.

**Title..... General Shipboard NAS Weapons Department
Aviation Ordnance Maintenance**

CIN..... D/E-646-7007

Model Manager.... MTU 4030 NAMTRAGRU DET Mayport, Florida

Description	<p>This course provides training in procedures and safety requirements for:</p> <ul style="list-style-type: none"> ◦ Receiving, transferring, and stowing conventional weapons ◦ Assembly and disassembly of bombs and rockets ◦ Loading and unloading flare and rocket launchers ◦ Loading and unloading the linkless ammunition loading system ◦ Canning and decanning of miscellaneous ordnance ◦ Complying with applicable publications <p>This course covers Weapons Department Administration and General Ordnance; and Aircraft Munitions, Assembly and Disassembly. Upon completion of this course, the Aviation Ordnanceman assigned to an Naval Air Station (NAS) Weapons Department or aircraft carrier Weapons Department as conventional weapons handler will have sufficient knowledge and skills to work under minimum supervision in a shipboard or shore environment.</p>
Locations	<ul style="list-style-type: none"> ◦ MTU 4030, NAMTRAGRU DET Mayport ◦ MTU 4032, NAMTRAGRU DET, Norfolk, Virginia ◦ MTU 4033, NAMTRAGRU DET, North Island, California ◦ MTU 4035, NAMTRAGRU DET, Whidbey Island, Washington
Length	39 days
RFT date.....	Currently available
Skill identifier.....	AO 6801
TTE/TD.....	Refer to element IV.A.1 for Technical Training Equipment (TTE). Training Device (TD) is the LDT
Prerequisite.....	C-646-2013, Aviation Ordnanceman Ship's Company Strand Class A1 or equivalent background knowledge of the ordnance field
Title.....	Strike Armament Systems Intermediate Maintenance
CIN.....	D/E-646-7001
Model Manager....	MTU 4033 NAMTRAGRU DET

Description	<p>This course provides training in procedures and safety requirements for aircraft armament equipment to include:</p> <ul style="list-style-type: none"> ◦ Operational checkout ◦ Corrosion control ◦ Troubleshooting ◦ Periodic maintenance ◦ Component removal, repair and replacement ◦ Use of publications, special tools, and test equipment <p>Upon completion of this course, the Aviation Ordnanceman assigned to an Aircraft Intermediate Maintenance Department will have sufficient knowledge and skills to work on aircraft armament equipment under minimum supervision in a shipboard or shore environment.</p>
Locations	<ul style="list-style-type: none"> ◦ MTU 4032, NAMTRAGRU DET Norfolk ◦ MTU 4033, NAMTRAGRU DET North Island
Length	65 days
RFT date.....	Currently available
Skill identifier.....	AO 6802
TTE/TD.....	Refer to element IV.A.1 for TTE. TD is the LDT
Prerequisite.....	C-646-2011, Aviation Ordnanceman Common Core Class A1
Title	Aviation Ordnance Intermediate Maintenance Technician
CIN.....	M-646-7026
Model Manager....	NAMTRAGRU DET Cherry Point, North Carolina

Description This course provides training in procedures and safety requirements for:

- Receiving, transferring, handling and stowing of aircraft gun systems and ammunition
- Assembly, disassembly, inspection, and functional check of aircraft gun systems and ammunition
- Troubleshooting aircraft gun systems and electronic control units
- Safety precautions for aircraft gun systems and ammunition

Upon completion of this course, the Aviation Ordnanceman assigned to a USMC intermediate maintenance activity will have sufficient knowledge and skills to work on aircraft gun systems and ammunition under minimum supervision.

Location..... VMAT-203 FREST, MCAS Cherry Point, North Carolina

Length 79 days

RFT date..... Currently available

Skill identifier..... MOS 6541

TTE/TD..... Refer to element IV.A.1 for TTE. TD is the LDT

Prerequisite..... C-646-2012, Aviation Ordnanceman Airwing Strand Class A1

(d) Explosive Ordnance Disposal Training. Explosive Ordnance Disposal (EOD) training is presently conducted by the Naval Explosive Ordnance Disposal School (NAVSCOLEOD) at Eglin AFB, Fort Walton Beach, Florida. Additional advanced and specialized EOD training is provided by EOD Technical Evaluation Units (EODTEUs) at Naval Amphibious Base (NAB) Little Creek, Virginia and Naval Station (NS) San Diego, California. The following EOD courses will be modified to include GBU-24E/B data:

COURSE NUMBER	COURSE TITLE
A-431-0011	Explosive Ordnance Disposal (EOD) Phase II (Navy)
A-431-0012	Explosive Ordnance Disposal (EOD) Phase II
G-431-0001	(EOD) Pre-deployment Team Training

(e) Student Profiles. The following prerequisite skill and knowledge requirements must be completed prior to attending NEC 6801 and MOS 6541 training.

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AO 6801	C-646-2011, Aviation Ordnance Common Core Class A1 And C-646-2012, Aviation Ordnance Airwing Strand Class A1 Or C-646-2013, Aviation Ordnance Weapons Department Strand Class A1
MOS 6541	C-646-2011, Aviation Ordnance Common Core Class A1 And C-646-2012, Aviation Ordnance Airwing Strand Class A1 Or C-646-2013, Aviation Ordnance Weapons Department Strand Class A1

The following table lists the enlisted manpower and personnel classifications required that support GBU-24.

RATING and NEC or MOS	TITLE
AO 8341	F/A-18 Armament System Organizational Apprentice Maintenance Technician
AO 8342	F/A-18 System Organizational Maintenance Technician
AO 6531	Aircraft Ordnance Technician (F/A-18)
AO 6541	Aviation Ordnance Intermediate Maintenance Technician
AO 6801	Air Launched Weapons Technician
AO 8845	F-14 Armament Systems Initial O-level Maintenance
AO 8345	F-14 Armament Systems Career O-level Maintenance
AO 8335	F-14D Armament Systems Career O-level Maintenance

(f) Training Pipelines. The following training tracks apply and are available in the Office of Chief of Naval Operations (OPNAV) Aviation Training Management System (OATMS). The addition of GBU-24E/B data into the existing GBU-24 training courses will cause no change in student throughput or chargeable student billets. However, the addition of the GBU-24E/B data into the Precision Guided Weapons Intermediate Maintenance (C-122-3113) course will increase the course length from three to five days. There are no new training pipelines required for the operation and maintenance of the GBU-24E/B.

TRACK NUMBER	TRACK TITLE
D/E-646-0641	F/A-18 Systems Organizational Maintenance Technician
D/E-646-7007	General Shipboard/NAS Weapons Department Aviation Ordnance Maintenance
M-646-7026	Aviation Ordnance Technician Intermediate Maintenance

TRACK NUMBER	TRACK TITLE
D/E-646-0653	F/A-18 Armament Systems Organizational Maintenance

b. Training Devices and Technical Training Equipment (TD/TTE). The GBU-24 TD is the (inert) GBU-24B/B LDT and will be used only for load drill training. The LDT is internally ballasted to the approximate weight and balance of the GBU-24B/B. The LDT's may be uploaded and downloaded on F-14 and F/A-18 aircraft, and handled on authorized equipment for training purposes but are not authorized for flight.

Practical and Classroom Explosive Ordnance Disposal System Trainers (PEST/CEST) will be required for the EOD training facilities. The PEST is a full-scale model fabricated from actual hardware, having approximately the same weight and center of gravity as the tactical weapon. The PEST is used for teaching render-safe procedures. CEST is an inert, cut-away model of the GBU-24, displaying locations and types of explosive and hazardous materials, initiators, igniters, and fuze, to facilitate instruction on the weapon. The PEST will be provided, and a GBU-24 series system will be provided to allow the EOD community to design and construct a CEST to meet specific classroom requirements.

I. ON-BOARD (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 O and I-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. 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 the Aviation Maintenance Training Continuum System (AMTCS). Current planning is for AMTCS to begin full implementation for fleet deployment on FY02.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is planned to be an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of 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 mandated "just-in-time" training approach.

Technology investments enable 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 the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List (MTL) data bank. These tools are procured and fielded with appropriate Commercial Off-the-Shelf (COTS) hardware and software, i.e. Fleet Training Devices (FTD) - Laptops, Personal Computers (PCs), Electronic Classrooms (ECR), Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), 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 (MTMEP) programs.

c. Strike Fighter Training Program. NSAWC N7 (Topgun), SFWS Atlantic, and SFWS Pacific are developing post-FRS training at the squadron level for Navy Strike Fighter aircraft (F/A-18). This post-FRS training continuum is known as the Strike Fighter Training Program (SFTP) and is composed of three equally critical elements: the Strike Fighter Weapons and Tactics (SFWT) curricula, the Strike Fighter Tactics Instructor (SFTI), and the SFTS. The SFWT curricula will be taught by each squadron's SFTI, who will be supported by the SFTS, a multimedia CBT system that will host CMI, CAI, CBT and ICW. Aircrew weapons proficiency training will continue to be accomplished using existing methods: Academic, Simulator (e.g., Weapons Tactics Trainer/Weapons System Trainer), Captive Air Training Missile (CATM) and/or embedded aircraft simulation, and live missile shots supported by the Non-Combat Expenditure Allowance. However, capability ratings will be based upon performance rather than completion, i.e., it will not be based simply upon completing the training events, but upon how well they are completed. Training events will be measured using defined metrics, and collectively these events will be evaluated to determine actual combat readiness, quantitatively (objectively) rather than qualitatively (subjectively).

2. Personnel Qualification Standards. Not Applicable (NA)

3. Other Onboard In-Service Training Packages. Squadron loading teams will maintain their proficiency by participating in frequent upload and download training exercises.

a. Conventional Weapons Technical Proficiency Inspection. The Conventional Weapon Technical Proficiency Inspection (CWTPI) is a graded inspection administered by SFWS for the F/A-18 aircraft. The CWTPI covers all areas of conventional

weapon load and release and control system checks. The inspection evaluates the squadron's ability to wire-check, upload and download conventional ordnance, use applicable publications, and place ordnance on its designated target. The squadron inspection is conducted annually, six months prior to deployment, or at the request of the squadron's Commanding Officer. A written examination is required by all personnel, including squadron aviators, directly involved in the inspection. A 72-hour time limit is granted for the completion of the entire evolution. The final grade is an average score derived from the written exams, ordnance loads, wire checks, and the aviator's proficiency to deliver weapons on target. Pre-inspection training is provided by the appropriate SFWS followed by the CWTPI. The CWTPI determines the need for further conventional weapons load training of squadron AO and Aviation Electronics Technician personnel at the appropriate school.

b. Marine Corps Onboard Training. The Marine Corps onboard training is based on the current series of Marine Corps Order (MCO) P4790.12, Individual Training Standards System and Marine Aviation Training Management 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 addressed with remedial training.

USMC activities are scheduled yearly for Marine Corps Combat Readiness Evaluation by Headquarters, Marine Corps. Marine Corps activities participate in war exercises and are evaluated. Training is an ongoing Marine Corps evolution that culminates with the Combat Readiness Evaluation. The evaluation determines the need for further conventional weapons load training of squadron personnel.

c. United States Navy Explosive Safety Policies, Requirements, and Procedures. The United States Navy Explosive Safety Policies, Requirements, and Procedures (Department of the Navy Explosives Safety Policy) OPNAVINST 8020.14 (series), promulgates the Explosives Handling Personnel Qualification and Certification program. The Qualification and Certification program is designed to ensure that all Navy, Marine Corps, and civilians required to handle explosives or explosive devices are fully trained and qualified to perform all functions and tasks safely.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
F42630-96-C-0002	Raytheon Systems Company (RSC)	P.O. Box 11337 Tucson, AZ 85743-1337

2. Program Documentation. The Naval Air Systems Command published and distributed Integrated Logistics Support Plan (ILSP) Number WP-354 dated Mar 95.

3. Technical Data Plan. Navy technical manual requirements have been developed per the Technical Manual Contract Requirements (TMCR) 79-92 document as listed below.

Table I-8. Technical Manuals

TITLE	MANUAL NUMBER	DATE	USER LEVEL
F/A-18C/D Airborne Weapons Stores Loading Manual	A1-F18AE-LWS-000	Interim Change Sept 98	Organizational
F/A-18C/D Airborne Weapons Stores Loading Checklist (GBU-24)	A1-F18AE-LWS-660	Change 1 July 99	Organizational
F/A-18E/F Airborne Weapons Stores Loading Manual	A1-F18EA-LWS-000	1 August 1999	Organizational
F/A-18E/F Airborne Weapons Stores Loading Checklist (GBU-24)	A1-F18EA-LWS-660	TBD	Organizational
Support Equipment Configuration Manual	NAVAIR 11-140-25	Interim Change Mar 97	Organizational/ Intermediate
Intermediate Maintenance Weapons Support Facilities GBU-24 series	NAVAIR 11-5A-36	Change 1 Nov 99	Intermediate
Airborne Weapons Assembly Manual for GBU	NAVAIR 11-140-10	Apr 2000	Intermediate
Airborne Weapons Assembly Checklist for Paveway III, GBU	NAVAIR 140-10-2	Change 1 Mar 2000	Intermediate
Ships Weapons Installation Manual	NAVAIR 11-120-83	Feb 97	Intermediate
F-14 Airborne Weapons/Stores Loading Manual	NA 01-F14AAA-75	Change 2 Feb 2000	Organizational
F-14 Airborne Weapons/Stores Loading Checklist(GBU-24)	NA 01-F14AAA-75-34	March 2000	Organizational

4. Test Sets, Tools, and Test Equipment

The GBU-24 has a limited requirement for special tools, which are listed in table I-9.

5. Depot Level Maintenance. All D-level maintenance on GBU-24 series weapons, with the exception of the BLU-109 bomb body, is currently provided by RCS, Tucson, AZ. At a future date, D-level maintenance will be provided at a Government facility to be determined.

6. Repair Parts. Repair parts lists are located in NA 11-140-10 and NA 11-5A-36 manuals.

7. Human Systems Integration. NA

Table I-9. GBU-24 Series Special Tools

Nomenclature	Part Number/NSN	Usage
1-inch drive, 8-inch extension (Note 1)	5861	GBU-24 buildup
Actuator, Wing	2713536-1	Folding of wing assemblies
Adapter, ratchet, (Note 1)	L673A, A-A-2173 GGG-W-641	GBU-24 buildup
Adapter, wrench, 3 Finger Socket (Note 1)	824449-3	Install/remove retainer bolt, GBU-24B/B
Pocket Level and Plumb, Torpedo (Note 1)	5210-00-516-3356	Align GCU gyro, GBU-24B/B
Retainer Wrench (Fuze) (Note 1)	923AS219-2	Install/remove fuze mounting retainer
Retainer Wrench (Initiator) (Note 1)	923AS328	Install/remove initiator retaining ring
Straight Shaft Tool	Local Manufacture	Remove adapter spacer / retainer flange, GBU-24E/B
Wrench, Torque, 000-1000 foot-lbs. TQ (Note 1)	1003A AA-24115120-00-555-1521	GBU-24 buildup
Wrench, Torque, 000-300 inch-lbs.	TE 25A A-A-2411	GBU-24 buildup
Wrench, Torque, 000-150 inch-lbs.	TE 12A	GBU-24 buildup
Wrench, Torque, 000-600 inch-lbs.	TE 50A	GBU-24 buildup

NOTES: 1. Item part of GBU Tool Set, 787AS709.

K. SCHEDULES

1. Schedule of Events

a. Installation/Delivery Schedule. TBD

b. Ready for Operational Use Schedule. To ensure all activities are Ready for Operational Use (RFOU) with GBU-24E/B, all training activities will receive initial training prior to IOC and provide training to fleet activities deploying with the GBU-24E/B.

c. Time Required to Install at Operational Sites. NA

d. Foreign Military Sales and Other Source Delivery Schedule. FMS procurement is anticipated after OPEVAL. The USAF is the executive service for the GBU-24 and is responsible for FMS activities.

e. Training Device and Technical Training Equipment Delivery Schedule. LDTs have been positioned at all training sites. PEST and CEST TBD

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

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT TITLE	DOCUMENT NUMBER	PDA CODE	STATUS
F/A-18 Weapon System NTSP	A-50-7703G/A	PMA265	Approved Nov 97
F-14 Weapon System NTSP	N88-NTSP-A-50-8511B/A	PMA-241	Approved Mar 00
Integrated Logistic Support Plan (ILSP)	WP-354	AIR-3.1.1	Approved Mar 95

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the GBU-24 LLLGB, HTP 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.B. Personnel Requirements

11.B.3. Foreign, Other Service, and Non-Military Personnel Annual Training Input Requirement

NOTE 1: This section of the GBU-24 Series LLLGB, HTP NTSP reflects maintenance billet and personnel requirements for the GBU-24. It is a compilation of four organizational and one intermediate level NECs (AO 8341 and 8342 (F/A-18), 8335 AND 8345 (F-14) and AO 6801, respectively) and one organizational and one intermediate level MOS (6531 and 6541, respectively) with associated billets. The addition of the GBU-24 to the organizational and intermediate level workloads is only a small percentage of the required workload for those NECs and MOS. The NECs and MOS are not dedicated to the GBU-24 and, therefore, the overall training throughput for the NEC and MOS will remain the same, i.e., account for the total NEC/MOS community, and not just activities receiving GBU-24.

NOTE 2: All billets identified in this section are programmed through other NTSPs, e.g., F-14 / F/A-18 NTSP, applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Documents. The activities and associated billets are listed to assist the weapons training community in identifying and managing training requirements throughout the development, production and deployment of the GBU-24E/B.

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE (GBU-24B/B)¹

SOURCE: NAVAIRSYSCOM PMA201/PMA205

DATE: 2/01

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL	NAVY						
NAVWPNTSTRON CL	39787	1	0	0	0	0	0
NAVWPNTSTRON PM	39788	1	0	0	0	0	0
NAVSTKAIRTESTRON	39783	1	0	0	0	0	0
VX-9	55646	1	0	0	0	0	0
VF-101	09067	0	0	0	0	0	0
VF-2	09113	0	0	0	0	0	0
VF-11	09560	0	0	0	0	0	0
VF-14	09084	0	0	0	0	0	0
VF-31	09473	0	0	0	0	0	0
VF-32	09053	0	0	0	0	0	0
VF-41	09774	0	0	0	0	0	0
VF-102	09717	0	0	0	0	0	0
VF-103	09718	0	0	0	0	0	0
VF-143	09281	0	0	0	0	0	0
VF-154	09678	0	0	0	0	0	0
VF-211	09086	0	0	0	0	0	0
VF-213	09934	0	0	0	0	0	0
VFA-106	09679	1	0	0	0	0	0
VFA-122	09355	0	0	0	0	0	0
VFA-125	09485	1	0	0	0	0	0
VFA-15	09015	1	0	0	0	0	0
VFA-34	09070	1	0	0	0	0	0
VFA-37	09478	1	0	0	0	0	0
VFA-81	09221	1	0	0	0	0	0
VFA-82	09122	1	0	0	0	0	0
VFA-83	09223	1	0	0	0	0	0
VFA-86	09943	1	0	0	0	0	0
VFA-87	63922	1	0	0	0	0	0
VFA-105	65183	1	0	0	0	0	0
VFA-131	63934	1	0	0	0	0	0
VFA-136	55141	1	0	0	0	0	0
VFA-127	08956	1	0	0	0	0	0
VFA-22	09561	1	0	0	0	0	0
VFA-25	09637	1	0	0	0	0	0
VFA-94	09295	1	0	0	0	0	0
VFA-97	63923	1	0	0	0	0	0
VFA-113	09092	1	0	0	0	0	0
VFA-115	09604	1	0	0	0	0	0
VFA-137	55142	1	0	0	0	0	0
VFA-146	09063	1	0	0	0	0	0
VFA-147	63925	1	0	0	0	0	0
VFA-151	09558	1	0	0	0	0	0
VFA-27	65185	1	0	0	0	0	0
VFA-154	09678	1	0	0	0	0	0
VFA-192	55179	1	0	0	0	0	0

¹ All billet requirements shown are programmed in either the F-14 / F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE (GBU-24B/B)

SOURCE: NAVAIRSYSCOM PMA201/PMA205

DATE: 2/01

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL (continued)	NAVY						
VFA-195	09706	1	0	0	0	0	0
VFA-203	09030	1	0	0	0	0	0
VFA-204	09032	1	0	0	0	0	0
NSAWC N7	69190	1	0	0	0	0	0
SFWS Atlantic	47084	1	0	0	0	0	0
SFWS Pacific	35185	1	0	0	0	0	0
VFC-12	52994	1	0	0	0	0	0
VFC-13	52995	1	0	0	0	0	0
TOTAL:		39	0	0	0	0	0
OPERATIONAL	USMC						
VMFA-115	09234	1	0	0	0	0	0
VMFA-122	09407	1	0	0	0	0	0
VMFA-251	09241	1	0	0	0	0	0
VMFA-312	09253	1	0	0	0	0	0
VMFA (AW)-224	01224	1	0	0	0	0	0
VMFA (AW)-332	09501	1	0	0	0	0	0
VMFA (AW)-533	09193	1	0	0	0	0	0
VMFA-212	09434	1	0	0	0	0	0
VMFA-232	09242	1	0	0	0	0	0
VMFA-235	09237	1	0	0	0	0	0
VMFA-314	09230	1	0	0	0	0	0
VMFA-323	09235	1	0	0	0	0	0
VMFA (AW)-121	09257	1	0	0	0	0	0
VMFA (AW)-225	09232	1	0	0	0	0	0
VMFA-112	08954	1	0	0	0	0	0
VMFA-134	09365	1	0	0	0	0	0
VMFA-142	67243	1	0	0	0	0	0
VMFA-321	67235	1	0	0	0	0	0
MAWTS-1	55167	1	0	0	0	0	0
VMFAT-101	09965	1	0	0	0	0	0
TOTAL:		20	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE (GBU-24B/B)

SOURCE: NAVAIRSYSCOM PMA201/PMA205

DATE: 2/01

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
FLEET SUPPORT NAVY							
CV-63 USS Kitty Hawk	03363	1	0	0	0	0	0
CV-64 USS Constellation	03364	1	0	0	0	0	0
CVN-65 USS Enterprise	03365	1	0	0	0	0	0
CV-67 USS Kennedy	03367	1	0	0	0	0	0
CVN-68 USS Nimitz	03368	1	0	0	0	0	0
CVN-69 USS Eisenhower	03369	1	0	0	0	0	0
CVN-70 USS Vinson	20993	1	0	0	0	0	0
CVN-71 USS Roosevelt	21247	1	0	0	0	0	0
CVN-72 USS Lincoln	21297	1	0	0	0	0	0
CVN-73 USS Washington	21412	1	0	0	0	0	0
CVN-74 USS Stennis	21847	1	0	0	0	0	0
CVN-75 USS Truman	21853	1	0	0	0	0	0
NAS Fallon	60495	1	0	0	0	0	0
NAS Lemoore	63042	1	0	0	0	0	0
NAS Oceana	60191	1	0	0	0	0	0
NAWMU-1	52821	1	0	0	0	0	0
NAWCAD Patuxent River	00421	1	0	0	0	0	0
NAWCWD Point Mugu	63126	1	0	0	0	0	0
NAWS Point Mugu	0429A	1	0	0	0	0	0
NAWS China Lake	68937	1	0	0	0	0	0
TOTAL:		20	0	0	0	0	0
FLEET SUPPORT USMC							
MAD China Lake	67852	1	0	0	0	0	0
MAD Patuxent River	67356	1	0	0	0	0	0
MALS-11 Miramar	09111	1	0	0	0	0	0
MALS-12 Iwakuni	09377	1	0	0	0	0	0
MALS-13 Yuma	09041	1	0	0	0	0	0
MALS-31 Beaufort	09384	1	0	0	0	0	0
MALS-41 Fort Worth	67239	1	0	0	0	0	0
MALS-42 Marietta	67236	1	0	0	0	0	0
MALS-46 Miramar	67244	1	0	0	0	0	0
MASD Andrews	04801	1	0	0	0	0	0
TOTAL:		10	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE (GBU-24E/B)¹

SOURCE: NAVAIRSYSCOM PMA201/PMA205

DATE: 2/01

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL	NAVY						
NAVWPNTSTRON CL	39787	0	0	0	0	0	0
NAVWPNTSTRON PM	39788	0	0	0	0	0	0
NAVSTKAIRSTRON	39783	0	0	0	0	0	0
VX-9	55646	0	0	0	0	0	0
VF-101	09067	0	0	0	0	0	0
VF-2	09113	0	0	0	0	0	0
VF-11	09560	0	0	0	0	0	0
VF-14	09084	0	0	0	0	0	0
VF-31	09473	0	0	0	0	0	0
VF-32	09053	0	0	0	0	0	0
VF-41	09774	0	0	0	0	0	0
VF-102	09717	0	0	0	0	0	0
VF-103	09718	0	0	0	0	0	0
VF-143	09281	0	0	0	0	0	0
VF-154	09678	0	0	0	0	0	0
VF-211	09086	0	0	0	0	0	0
VF-213	09934	0	0	0	0	0	0
VFA-106	09679	0	0	0	0	0	0
VFA-122	09355	0	0	0	0	0	0
VFA-125	09485	0	0	0	0	0	0
VFA-15	09015	0	0	0	0	0	0
VFA-34	09070	0	0	0	0	0	0
VFA-37	09478	0	0	0	0	0	0
VFA-81	09221	0	0	0	0	0	0
VFA-82	09122	0	0	0	0	0	0
VFA-83	09223	0	0	0	0	0	0
VFA-86	09943	0	0	0	0	0	0
VFA-87	63922	0	0	0	0	0	0
VFA-105	65183	0	0	0	0	0	0
VFA-131	63934	0	0	0	0	0	0
VFA-136	55141	0	0	0	0	0	0
VFA-127	08956	0	0	0	0	0	0
VFA-22	09561	0	0	0	0	0	0
VFA-25	09637	0	0	0	0	0	0
VFA-94	09295	0	0	0	0	0	0
VFA-97	63923	0	0	0	0	0	0
VFA-113	09092	0	0	0	0	0	0
VFA-115	09604	0	0	0	0	0	0
VFA-137	55142	0	0	0	0	0	0
VFA-146	09063	0	0	0	0	0	0
VFA-147	63925	0	0	0	0	0	0
VFA-151	09558	0	0	0	0	0	0
VFA-27	65185	0	0	0	0	0	0
VFA-154	09678	0	0	0	0	0	0
VFA-192	55179	0	0	0	0	0	0
VFA-195	09706	0	0	0	0	0	0

¹ All billet requirements shown are programmed in either the F-14 / F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE (GBU-24E/B)

SOURCE: NAVAIRSYSCOM PMA201/PMA205

DATE: 2/01

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL (continued)	NAVY						
VFA-203	09030	0	0	0	0	0	0
VFA-204	09032	0	0	0	0	0	0
NSAWC N7	69190	0	0	0	0	0	0
SFWS Atlantic	47084	0	0	0	0	0	0
SFWS Pacific	35185	0	0	0	0	0	0
VFC-12	52994	0	0	0	0	0	0
VFC-13	52995	0	0	0	0	0	0
TOTAL:		0	0	0	0	0	0
OPERATIONAL	USMC						
VMFA-115	09234	0	0	0	0	0	0
VMFA-122	09407	0	0	0	0	0	0
VMFA-251	09241	0	0	0	0	0	0
VMFA-312	09253	0	0	0	0	0	0
VMFA (AW)-224	01224	0	0	0	0	0	0
VMFA (AW)-332	09501	0	0	0	0	0	0
VMFA (AW)-533	09193	0	0	0	0	0	0
VMFA-212	09434	0	0	0	0	0	0
VMFA-232	09242	0	0	0	0	0	0
VMFA-235	09237	0	0	0	0	0	0
VMFA-314	09230	0	0	0	0	0	0
VMFA-323	09235	0	0	0	0	0	0
VMFA (AW)-121	09257	0	0	0	0	0	0
VMFA (AW)-225	09232	0	0	0	0	0	0
VMFA-112	08954	0	0	0	0	0	0
VMFA-134	09365	0	0	0	0	0	0
VMFA-142	67243	0	0	0	0	0	0
VMFA-321	67235	0	0	0	0	0	0
MAWTS-1	55167	0	0	0	0	0	0
VMFAT-101	09965	0	0	0	0	0	0
TOTAL:		0	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE (GBU-24E/B)

SOURCE: NAVAIRSYSCOM PMA201/PMA205

DATE: 2/01

ACTIVITY	UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
FLEET SUPPORT	NAVY						
CV-63 USS Kitty Hawk	03363	0	0	0	0	0	0
CV-64 USS Constellation	03364	0	0	0	0	0	0
CVN-65 USS Enterprise	03365	0	0	0	0	0	0
CV-67 USS Kennedy	03367	0	0	0	0	0	0
CVN-68 USS Nimitz	03368	0	0	0	0	0	0
CVN-69 USS Eisenhower	03369	0	0	0	0	0	0
CVN-70 USS Vinson	20993	0	0	0	0	0	0
CVN-71 USS Roosevelt	21247	0	0	0	0	0	0
CVN-72 USS Lincoln	21297	0	0	0	0	0	0
CVN-73 USS Washington	21412	0	0	0	0	0	0
CVN-74 USS Stennis	21847	0	0	0	0	0	0
CVN-75 USS Truman	21853	0	0	0	0	0	0
NAS Fallon	60495	0	0	0	0	0	0
NAS Lemoore	63042	0	0	0	0	0	0
NAS Oceana	60191	0	0	0	0	0	0
NAWMU-1	52821	0	0	0	0	0	0
NAWCAD Patuxent River	00421	0	0	0	0	0	0
NAWCWD Point Mugu	63126	0	0	0	0	0	0
NAWS Point Mugu	0429A	0	0	0	0	0	0
NAWS China Lake	68937	0	0	0	0	0	0
TOTAL:		0	0	0	0	0	0
FLEET SUPPORT	USMC						
MAD China Lake	67852	0	0	0	0	0	0
MAD Patuxent River	67356	0	0	0	0	0	0
MALS-11 Miramar	09111	0	0	0	0	0	0
MALS-12 Iwakuni	09377	0	0	0	0	0	0
MALS-13 Yuma	09041	0	0	0	0	0	0
MALS-31 Beaufort	09384	0	0	0	0	0	0
MALS-41 Fort Worth	67239	0	0	0	0	0	0
MALS-42 Marietta	67236	0	0	0	0	0	0
MALS-46 Miramar	67244	0	0	0	0	0	0
MASD Andrews	04801	0	0	0	0	0	0
TOTAL:		0	0	0	0	0	0

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES²

ACTIVITY	UIC	PHASING INCR	BILLETTS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
OPERATIONAL	NAVY					
NAVWPNTTESTRON CL	39787					
ACDU			0	5	AO	8341/8342
NAVWPNTTESTRON PM	39788					
ACDU			0	5	AO	8341/8342
NAVSTKAIRSTESTRON	39783					
ACDU			0	5	AO	8341/8342
VX-9	55646					
ACDU			0	5	AO	8341/8342
VF-101	09067					
ACDU			0	5	AO	8335/8345
VF-2	09113					
ACDU			0	5	AO	8335/8345
VF-11	09560					
ACDU			0	5	AO	8335/8345
VF-14	09084					
ACDU			0	5	AO	8335/8345
VF-31	09473					
ACDU			0	5	AO	8335/8345
VF-32	09053					
ACDU			0	5	AO	8335/8345
VF-41	09774					
ACDU			0	5	AO	8335/8345
VF-102	09717					
ACDU			0	5	AO	8335/8345
VF-103	09718					
ACDU			0	5	AO	8335/8345
VF-143	09281					
ACDU			0	5	AO	8335/8345
VF-154	09678					
ACDU			0	5	AO	8335/8345
VF-211	09086					
ACDU			0	5	AO	8335/8345
VF-213	09934					
ACDU			0	5	AO	8335/8345
VFA-106	09679					
ACDU			0	5	AO	8341/8342
VFA-122	09355					
ACDU			0	5	AO	8341/8342
VFA-125	09485					
ACDU			0	5	AO	8341/8342
VFA-15	09015					
ACDU			0	5	AO	8341/8342
VFA-34	09070					
ACDU			0	5	AO	8341/8342
VFA-37	09478					
ACDU			0	5	AO	8341/8342
VFA-81	09221					
ACDU			0	5	AO	8341/8342
VFA-82	09122					
ACDU			0	5	AO	8341/8342

² All billet requirements shown are programmed in either the F-14/F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

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

ACTIVITY	UIC	PHASING INCR	BILLETTS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
OPERATIONAL (continued)	NAVY					
VFA-83	09223		0	5	AO	8341/8342
VFA-86	ACDU 09943		0	5	AO	8341/8342
VFA-87	ACDU 63922		0	5	AO	8341/8342
VFA-105	ACDU 65183		0	5	AO	8341/8342
VFA-131	ACDU 63934		0	5	AO	8341/8342
VFA-136	ACDU 55141		0	5	AO	8341/8342
VFA-127	ACDU 08956		0	5	AO	8341/8342
VFA-22	ACDU 09561		0	5	AO	8341/8342
VFA-25	ACDU 09637		0	5	AO	8341/8342
VFA-94	ACDU 09295		0	5	AO	8341/8342
VFA-97	ACDU 63923		0	5	AO	8341/8342
VFA-113	ACDU 09092		0	5	AO	8341/8342
VFA-115	ACDU 09604		0	5	AO	8341/8342
VFA-137	ACDU 55142		0	5	AO	8341/8342
VFA-146	ACDU 09063		0	5	AO	8341/8342
VFA-147	ACDU 63925		0	5	AO	8341/8342
VFA-151	ACDU 09558		0	5	AO	8341/8342
VFA-27	ACDU 65185		0	5	AO	8341/8342
VFA-192	ACDU 55179		0	5	AO	8341/8342
VFA-195	ACDU 09706		0	5	AO	8341/8342
VFA-203	ACDU 09030		0	5	AO	8341/8342
VFA-204	TAR 09032		0	5	AO	8341/8342
NSAWC N7	TAR 69190		0	5	AO	8341/8342
SFWS Atlantic	ACDU 47084		0	5	AO	8341/8342
SFWS Pacific	ACDU 35185		0	5	AO	8341/8342
VFC-12	ACDU 52994		0	5	AO	8341/8342
VFC-13	TAR 52995		0	5	AO	8341/8342
	TAR		0	5	AO	8341/8342

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

ACTIVITY	UIC	PHASING INCR	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
OPERATIONAL	USMC					
VMFA-115	09234		0	5		6531
AD						
VMFA-122	09407		0	5		6531
AD						
VMFA-251	09241		0	5		6531
AD						
VMFA-312	09253		0	5		6531
AD						
VMFA (AW)-224	01224		0	5		6531
AD						
VMFA (AW)-332	09501		0	5		6531
AD						
VMFA (AW)-533	09193		0	5		6531
AD						
VMFA-212	09434		0	5		6531
AD						
VMFA-232	09242		0	5		6531
AD						
VMFA-235	09237		0	5		6531
AD						
VMFA-314	09230		0	5		6531
AD						
VMFA-323	09235		0	5		6531
AD						
VMFA (AW)-121	09257		0	5		6531
AD						
VMFA (AW)-225	09232		0	5		6531
AD						
VMFA (AW)-242	09668		0	5		6531
AD						
VMFA-112	08954		0	5		6531
AR						
VMFA-134	09365		0	5		6531
AR						
VMFA-142	67243		0	5		6531
AR						
VMFA-321	67235		0	5		6531
AR						
MAWTS-1	55167		0	5		6531
AD						
VMFAT-101	09965		0	5		6531
AD						
FLEET SUPPORT	NAVY					
NAS Fallon	60495		0	5	AO	6801
ACDU						
NAS Lemoore	63042		0	5	AO	6801
ACDU						
NAS Oceana	60191		0	5	AO	6801
ACDU						
CV-63 USS Kitty Hawk	03363		0	5	AO	6801
ACDU						

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

ACTIVITY	UIC	PHASING INCR.	BILLETTS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
FLEET SUPPORT (continued)	NAVY					
CV-64 USS Constellation	03364					
ACDU			0	5	AO	6801
CVN-65 USS Enterprise	03365					
ACDU			0	5	AO	6801
CVN-67 USS Kennedy	03367					
ACDU			0	5	AO	6801
SELRES			0	5	AO	6801
ACTIVITY TOTAL:			0	10		
CVN-68 USS Nimitz	03368					
ACDU			0	5	AO	6801
CVN-69 USS Eisenhower	03369					
ACDU			0	5	AO	6801
CVN-70 USS Carl Vinson	20993					
ACDU			0	5	AO	6801
CVN-71 USS Roosevelt	21247					
ACDU			0	5	AO	6801
CVN-72 USS Lincoln	21297					
ACDU			0	5	AO	6801
CVN-73 USS Washington	21412					
ACDU			0	5	AO	6801
CVN-74 USS Stennis	21847					
ACDU			0	5	AO	6801
CVN-63 USS Truman	21853					
ACDU			0	5	AO	6801
NAWMU-1	52821					
ACDU			0	5	AO	6801
NAWCAD Patuxent River	00421					
ACDU			0	5	AO	6801
NAWCWD Point Mugu	63126					
ACDU			0	5	AO	6801
NAWS Point Mugu	0429A					
ACDU			0	5	AO	6801
NAWS China Lake	68937					
ACDU			0	5	AO	6801
FLEET SUPPORT	USMC					
MAD China Lake	67852					
AD			0	5		6541
MAD Patuxent River	67356					
AD			0	5		6541
MALS-11 Miramar	09111					
AD			0	5		6541
MALS-12 Iwakuni	09377					
AD			0	5		6541
MALS-13 Yuma	09041					
AD			0	5		6541
MALS-31 Beaufort	09384					
AD			0	5		6541

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

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
FLEET SUPPORT (continued)	USMC					
MALS-41 Fort Worth	67239					
	AR		0	5		6541
	AD		0	5		6541
ACTIVITY TOTAL:			0	10		
MALS-42 Marietta	67236					
	AR		0	5		6541
	AD		0	5		6541
ACTIVITY TOTAL:			0	10		
MALS-46 Miramar	67244					
	AR		0	5		6541
MASD Andrews	04801					
	AD		0	5		6541

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES³

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
OPERATIONAL ACTIVITY - ACDU													
AO	8341/8342	0	170	0	0	0	0	0	0	0	0	0	0
AO	8335/8345	0	0	0	0	0	65	0	0	0	0	0	0
OPERATIONAL ACTIVITY - TAR													
AO	8341/8342	0	20	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AD													
	6531	0	90	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AR													
	6531	0	15	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - ACDU													
AO	6801	0	100	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
AO	6801	0	5	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AD													
	6541	0	45	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AR													
	6541	0	15	0	0	0	0	0	0	0	0	0	0
SUMMARY TOTAL:													
OPERATIONAL ACTIVITY - ACDU													
		0	170	0	0	0	65	0	0	0	0	0	0
OPERATIONAL ACTIVITY - TAR													
		0	20	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AD													
		0	90	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AR													
		0	15	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - ACDU													
		0	100	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
		0	5	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AD													
		0	45	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AR													
		0	15	0	0	0	0	0	0	0	0	0	0

³All billet requirements shown are programmed in either the F-14 / F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES³

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
GRAND TOTAL:													
	ACDU	0	270	0	0	0	65	0	0	0	0	0	0
	TAR	0	20	0	0	0	0	0	0	0	0	0	0
	SELRES	0	5	0	0	0	0	0	0	0	0	0	0
	AD	0	135	0	0	0	0	0	0	0	0	0	0
	AR	0	30	0	0	0	0	0	0	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS¹

INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC: MTU-4030 NAMTRAGRUDET NS Mayport 66069													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CY01		FY02		FY03		FY04		FY05	
		OFF	ENL										
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4
SELRES													
AO	6801/9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	5	0	5	0	5	0	5	0	5	0	5

TRAINING ACTIVITY, LOCATION, UIC: MTU-4032 NAMTRAU NAS Norfolk 66046													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CY01		FY02		FY03		FY04		FY05	
		OFF	ENL										
ACDU													
AO	6801/9502	0	7	0	7	0	7	0	7	0	7	0	7
SELRES													
AO	6801/9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	9	0	9	0	9	0	9	0	9	0	9

TRAINING ACTIVITY, LOCATION, UIC: MTU-4033 NAMTRAU NAS North Island 66065													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CY01		FY02		FY03		FY04		FY05	
		OFF	ENL										
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU-4034 VMAT-203 FREST MCAS Cherry Point 66047													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CY00		FY02		FY03		FY04		FY05	
		OFF	ENL										
USMC													
MOS	6541	0	21	0	21	0	21	0	21	0	21	0	21

TRAINING ACTIVITY, LOCATION, UIC: MTU-4035 NAMTRAU NAS Whidbey Island 66058													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CY01		FY02		FY03		FY04		FY05	
		OFF	ENL										
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

⁴Instructor billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support GBU-24.

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS²

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CY01		FY02		FY03		FY04		FY05	
		OFF	ENL										
MTU 4030 NAMTRAGRUDET, NS Mayport, 66069	USN	0	0.8	0	0.8	0	0.8	0	0.8	0	0.8	0	0.8
MTU 4032 NAMTRAU, NAS Norfolk, 66046	USN	0	4.9	0	5.1	0	5.1	0	5.1	0	5.1	0	5.1
MTU 4033 NAMTRAU, NAS North Island, 66065	USN	0	3.8	0	3.8	0	3.8	0	3.8	0	3.8	0	3.8
MTU 4034 VMAT-203 FREST, MCAS Cherry Point, 66047	USMC	0	55.6	0	55.6	0	55.6	0	55.6	0	55.6	0	55.6
MTU 4035 NAMTRAU, NAS Whidbey Island, 66058	USN	0	0.1	0	0.8	0	0.8	0	0.8	0	0.8	0	0.8
SUMMARY TOTAL:													
	USN	0	9.6	0	10.5	0	10.5	0	10.5	0	10.5	0	10.5
	USMC	0	55.6	0	55.6	0	55.6	0	55.6	0	55.6	0	55.6
GRAND TOTAL:		0	65.2	0	66.1	0	66.1	0	66.1	0	66.1	0	66.1

⁵ Chargeable student billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support GBU-24.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS⁶

a. OFFICER - USN: NA

b. ENLISTED - USN:

RATING	PNEC/SNEC	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
			±/-	CUM	±/-	CUM	±/-	CUM	±/-	CUM	±/-	CUM
Operational Billets ACDU and TAR												
AO	8341/8342	190	0	190	0	190	0	190	0	190	0	190
AO	8335/8345	0	0	0	65	65	0	65	0	65	0	65
Fleet Support Billets ACDU and TAR												
AO	6801	100	0	100	0	100	0	100	0	100	0	100
Instructor and Support (Staff) Billets ACDU and TAR												
AO	6801/9502	10	0	10	0	10	0	10	0	10	0	10
Chargeable Student Billets ACDU and TAR												
		25	0	25	0	25	0	25	0	25	0	25
TOTAL USN ENLISTED BILLETS:												
Operational		190	0	190	65	255	0	255	0	255	0	255
Fleet Support		100	0	100	0	100	0	100	0	100	0	100
Staff		10	0	10	0	10	0	10	0	10	0	10
Student		24	0	25	0	25	0	25	0	25	0	25
SELRES		5	0	5	0	5	0	5	0	5	0	5

c. OFFICER – USMC: NA

d. ENLISTED – USMC

RATING	PMOS/SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
			±/-	CUM	±/-	CUM	±/-	CUM	±/-	CUM	±/-	CUM
Operational AD and AR												
	6531	105	0	105	0	105	0	105	0	105	0	105
Fleet Support Billets AD and AR												
	6541	50	0	50	0	50	0	50	0	50	0	50
Instructor and Support (Staff) Billets AD and AR												
	6541	21	0	21	0	21	0	21	0	21	0	21
Chargeable Student Billets AD and AR												
		56	0	56	0	56	0	56	0	56	0	56

⁶ Billet base identified is only a portion of the total applicable NEC/MOS billet base, which is allocated for all air-launched weapons and ordnance maintenance. Billets are programmed through applicable Aircraft NTSP, CV/CVN Class Total Ship NTSPs and Shore Activity Manning Documents.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS⁶

c. OFFICER - USMC: NA

d. ENLISTED - USMC:

RATING	PMOS/SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
			±/-	CUM	±/-	CUM	±/-	CUM	±/-	CUM	±/-	CUM
TOTAL USMC ENLISTED BILLETS:												
Operational		105	0	115	0	115	0	115	0	115	0	115
Fleet Support		50	0	50	0	50	0	50	0	50	0	50
Staff		21	0	21	0	21	0	21	0	21	0	21
Student		56	0	56	0	56	0	56	0	56	0	56
SMCR		0	0	0	0	0	0	0	0	0	0	0

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS³

CIN, COURSE TITLE: D-646-7001, Strike Armament Equipment Intermediate Maintenance
COURSE LENGTH: 9.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OF	ENL	OFF	ENL
F												
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	60	0	60	0	60	0	60	0	60
	USN	SELRES	0	0	0	1	0	0	0	0	0	0
		TOTAL	0	60	0	61	0	60	0	60	0	60

CIN, COURSE TITLE: E-646-7001, Strike Armament Equipment Intermediate Maintenance
COURSE LENGTH: 9.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OF	ENL	OFF	ENL
F												
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
	USN	SELRES	0	1	0	1	0	1	0	10	0	1
		TOTAL	0	73	0	73	0	73	0	73	0	73

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
COURSE LENGTH: 6.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OF	ENL	OFF	ENL
F												
MTU-4030 NAMTRAGRUDET, NS Mayport												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	60	0	60	0	60	0	60	0	60
	USN	SELRES	0	0	0	1	0	0	0	0	0	0
		TOTAL	0	60	0	61	0	60	0	60	0	60

³TIR shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support GBU-24E/B.

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS (Continued)⁶

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
COURSE LENGTH: 6.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OF F	ENL	OFF	ENL
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
	USN	SELRES	0	1	0	1	0	1	0	1	0	1
		TOTAL	0	73	0	73	0	73	0	73	0	73
MTU-4035 NAMTRAU, NAS Whidbey Island ⁷												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance
COURSE LENGTH: 11 Weeks **SEA TOUR LENGTH:** NA
ATTRITION FACTOR: Marine: 0 % **BACKOUT FACTOR:** 0.21

TRAINING ACTIVITY	SOURCE	USMC-AR SMCR	CY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OF F	ENL	OFF	ENL
MTU-4034 VMAT-203 FREST, MCAS Cherry Point												
	USMC	USMC-AR	0	240	0	240	0	240	0	240	0	240

ACTIVITY TOTAL:

MTU-4030 NAMTRAGRU DET			0	72	0	72	0	72	0	72	0	72
MTU-4032 NAMTRAU			0	60	0	61	0	60	0	60	0	60
MTU-4033 NAMTRAU			0	73	0	73	0	73	0	73	0	73
MTU-4034 VMAT-203 FREST			0	240	0	240	0	240	0	240	0	240
MTU-4035 NAMTRAU			0	72	0	72	0	72	0	72	0	72

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the GBU-24 LLLGB, HTP and, therefore, are not included in Part III of this NTSP:

III.A.1 Initial Training Requirements (GBU-24B/B)

NOTE: Initial training was completed in FY 94 for the GBU-24 B/B. Initial training for the GBU-24 E/B is required.

II.A.2 Follow-on Training

II.A.2.a Planned Courses

II.A.2.b Unique Courses

III.A.3 Existing Training Phased Out

III.B. Total Ship Training Course Summary

III.C. Inactive Duty Training Travel and Annual Training Summary

III.A. TRAINING COURSE REQUIREMENTS

III.A.1. Initial Training Requirements

COURSE TITLE: GBU-24 E/B, Hard Target Penetrator, Laser Guided Bomb Fleet Familiarization
COURSE DEVELOPER: Raytheon
INSTRUCTOR: Raytheon
COURSE LENGTH: 2 days

LOCATION, UIC	BEGIN DATE	DATE COMPLETED	ACTIVITY DESTINATION
NAVWPNTSTRON China Lake, 39787	30 days prior to first evaluation	DT-IIB Oct 00 OT-III A Oct 00	VX-9 Aircrew, 55646

COURSE TITLE: GBU-24 E/B, Hard Target Penetrator, Laser Guided Bomb Fleet Familiarization
COURSE DEVELOPER: Raytheon
INSTRUCTOR: Raytheon
COURSE LENGTH: 2 days

LOCATION, UIC	BEGIN DATE	DATE COMPLETED	ACTIVITY DESTINATION
NAMTRAGRU DET 4033, North Island, 66065	6 months prior to start of follow-on training	Oct 00	MTU-4030, 66069 MTU-4032, 66046 MTU-4033, 66065 MTU-4034, 66058 VMAT-203 FREST, 45483 MTU-4035, 66058 NATTC AO "A" School, 63082 NAVSCOLEOD, 46207

COURSE TITLE: GBU-24 E/B, Aircrew Familiarization
COURSE DEVELOPER: NSAWC N7/NAWCWD
INSTRUCTOR: NSAWC N7
COURSE LENGTH: 2 days

LOCATION, UIC	BEGIN DATE	DATE COMPLETED	ACTIVITY DESTINATION
NSAWC Fallon, 33185	30 days prior to first evaluation	Scheduled for FY 01	SFWSP, 33185 SFWSL, 47084 MAWTS, 55167 VFA-122, 09355 VFA-125, 09485 VFA-106, 09679 VMFAT-101, 09965 VF-101, 09067

NOTE: As updated information on initial training becomes available it will be incorporated into this NTSP.

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: D-646-7001, Strike Armament Systems Intermediate Maintenance
TRAINING ACTIVITY: MTU 4032 NAMTRAGRU DET
LOCATION, UIC: NAS Norfolk, 66046

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	60		60		60		60		60	ATIR
	54		54		54		54		54	Output
	6.9		6.9		6.9		6.9		6.9	AOB
	6.9		6.9		6.9		6.9		6.9	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		0		0	ATIR
	0		1		0		0		0	Output
	0		0.1		0		0		0	AOB
	0		0.0		0		0		0	Chargeable

CIN, COURSE TITLE: E-646-7001, Strike Armament Systems Intermediate Maintenance
TRAINING ACTIVITY: MTU 4033 NAMTRADRU DET
LOCATION, UIC: NAS North Island, 66065

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	72		72		72		72		72	ATIR
	65		65		65		65		65	Output
	12.2		12.2		12.2		12.2		12.2	AOB
	12.2		12.2		12.2		12.2		12.2	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
TRAINING ACTIVITY: MTU 4030 NAMTRAGRU DET
LOCATION, UIC: NS Mayport, 66069

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	72		72		72		72		72	ATIR
	6.5		6.5		6.5		6.5		6.5	Output
	12.2		12.2		12.2		12.2		12.2	AOB
	12.2		12.2		12.2		12.2		12.2	Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU 4032 NAMTRAGRU DET
 LOCATION, UIC: NAS Norfolk, 66046

SOURCE: NAVY STUDENT CATEGORY: ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	60		60		60		60		60	ATIR
	54		54		54		54		54	Output
	6.9		6.9		6.9		6.9		6.9	AOB
	6.9		6.9		6.9		6.9		6.9	Chargeable

SOURCE: NAVY STUDENT CATEGORY: SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		0		0	ATIR
	0		1		0		0		0	Output
	0		0.1		0		0		0	AOB
	0		0.0		0		0		0	Chargeable

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
 TRAINING ACTIVITY: MTU 4033 NAMTRADRU DET
 LOCATION, UIC: NAS North Island, 66065

SOURCE: NAVY STUDENT CATEGORY: ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	72		72		72		72		72	ATIR
	6.5		6.5		6.5		6.5		6.5	Output
	12.2		12.2		12.2		12.2		12.2	AOB
	12.2		12.2		12.2		12.2		12.2	Chargeable

SOURCE: NAVY STUDENT CATEGORY: SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

TRAINING ACTIVITY: MTU 4035 NAMTRAGRU DET
 LOCATION, UIC: NAS Whidbey Island, 66058

SOURCE: NAVY STUDENT CATEGORY: ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	72		72		72		72		72	ATIR
	6.5		6.5		6.5		6.5		6.5	Output
	12.2		12.2		12.2		12.2		12.2	AOB
	12.2		12.2		12.2		12.2		12.2	Chargeable

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Technician, IMA
TRAINING ACTIVITY: VMAT 203 FREST
LOCATION, UIC: MCAS Cherry Point, 45483

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

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	240		240		240		240		240	ATIR
	240		240		240		240		240	Output
	49.5		49.5		49.5		49.5		49.5	AOB
	49.5		49.5		49.5		49.5		49.5	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the GBU-24 LLLGB, HTP and therefore, are not included in Part IV of this NTSP.

IV.B.1. Training Services

IV.C. Facility Requirements

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

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

IV.C.3. Facility Project Summary by Program

NOTE: No new or modified training facilities are required for the GBU-24.

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

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
 LOCATION, UIC: NS Mayport, 66069
 CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	MHU-212/E Pallet		1	NA	GFE	On board
002	PA-60 Container		1	NA	GFE	On board
003	CNU-373/E Container		1	NA	GFE	On board
004	CNU-371/E Container		1	NA	GFE	On board
005	CNU-439A/E Container		1	NA	GFE	On board
006	GBU Tool Set 787AS709		1	NA	GFE	On board

TRAINING ACTIVITY: MTU-4032 NAMTRAGRUDET
 LOCATION, UIC: NAS Norfolk, 66046
 CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	MHU-212/E Pallet		1	NA	GFE	On board
002	PA-60 Container		1	NA	GFE	On board
003	CNU-373/E Container		1	NA	GFE	On board
004	CNU-371/E Container		1	NA	GFE	On board
005	CNU-439A/E Container		1	NA	GFE	On board
006	GBU Tool Set 787AS709		1	NA	GFE	On board

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

TRAINING ACTIVITY: MTU-4033 NAMTRAGRUDET
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	MHU-212/E Pallet		1	NA	GFE	On board
002	PA-60 Container		1	NA	GFE	On board
003	CNU-373/E Container		1	NA	GFE	On board
004	CNU-371/E Container		1	NA	GFE	On board
005	CNU-439A/E Container		1	NA	GFE	On board
006	GBU Tool Set 787AS709		1	NA	GFE	On board

TRAINING ACTIVITY: MTU-4035 NAMTRAGRUDET
LOCATION, UIC: NAS Whidbey Island, 66058
CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	MHU-212/E Pallet		1	NA	GFE	On board
002	PA-60 Container		1	NA	GFE	On board
003	CNU-373/E Container		1	NA	GFE	On board
004	CNU-371/E Container		1	NA	GFE	On board
005	CNU-439A/E Container		1	NA	GFE	On board
006	GBU Tool Set 787AS709		1	NA	GFE	On board

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

TRAINING ACTIVITY: MTU-4034 VMAT-203 FREST
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	MHU-212/E Pallet		1	NA	GFE	On board
002	PA-60 Container		1	NA	GFE	On board
003	CNU-373/E Container		1	NA	GFE	On board
004	CNU-371/E Container		1	NA	GFE	On board
005	CNU-439A/E Container		1	NA	GFE	On board
006	GBU Tool Set 787AS709		1	NA	GFE	On board

TRAINING ACTIVITY: NAVSCOLEOD/NAVSCOLEOD DET
LOCATION, UIC: Eglin AFB, 46207
CIN, COURSE TITLE: A-431-0011 EOD Phase II Navy
A-431-0012 EOD Phase II Navy

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	MHU-212/E Pallet		1	NA	GFE	On board
002	PA-60 Container		1	NA	GFE	On board
003	CNU-373/E Container		1	NA	GFE	On board
004	CNU-371/E Container		1	NA	GFE	On board
005	CNU-439A/E Container		1	NA	GFE	On board
006	GBU Tool Set 787AS709		1	NA	GFE	On board

IV.A.2. TRAINING DEVICES

DEVICE: GBU-24 B/B Load Drill Trainer (LDT)						
DESCRIPTION OF DEVICE: LDT is a replica of the GBU-24, not currently flight-certified, ballasted to replicate the actual size, weight, and center of gravity of the tactical weapon.						
MANUFACTURER:						
CONTRACT NUMBER:						
TEE STATUS: NA						
TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
SFWS Atlantic NAS Oceana, 40784 LDT	1			On board	F-14 / F/A-18 Conventional Weapons Loading	
SFWS Pacific NAS Lemoore, 35185 LDT	1			On board	F/A-18 Conventional Weapons Loading	
MTU-4030 NAMTRAGRUDET NS Mayport, 66069 LDT	1			On board	C-646-3113 C-646-3118 C-646-4108 C-646-4109	
MTU-4032 NAMTRAGRUDET NAS Norfolk, 66046 LDT	1			On board	C-646-3113 C-646-3118	
MTU-4033 NAMTRAGRUDET NAS North Island, 66065 LDT	1			On board	C-646-3113 C-646-3118	
MTU-4034 VFMAT-203 FREST MCAS Cherry Point, 66047 LDT	1			On board	C-646-3105	
MTU-4035 NAMTRAGRUDET NAS Whidbey Island, 66058 LDT	1			On board	C-646-3113 C-646-3118	
MCAS Beaufort, 09384 LDT	1			On board	F/A-18 Conventional Weapons Loading	
MCAS Iwakuni, 09377 LDT	1			On board	F/A-18 Conventional Weapons Loading	
MOTT NAS Norfolk, 09810 LDT	1			On board	F-14 / F/A-18 Conventional Weapons Loading/ Buildup	
MTU NAS Oceana, 66046 LDT	1			On board	C-646-1640 C-646-1641 C-646-1647	

IV.A.2. TRAINING DEVICES

Fwd Deployed CV/CVN (Japan)				Buildup/Load Training
LDT	1		On board	
CV/CVN LantFleet (Deployed)				Buildup/Load Training
LDT	1		On board	
CV/CVN LantFleet (Ready Alert)				Buildup/Load Training
LDT	1		On board	
CV/CVN PacFleet (Deployed)				Buildup/Load Training
LDT	1		On board	
CV/CVN PacFleet (Ready Alert)				Buildup/Load Training
LDT	1		On board	
TOTAL:	15			

DEVICE:	Practical/Classroom Ordnance Disposal System Trainer (PEST), (CEST)					
DESCRIPTION OF DEVICE:	The GBU-24 PEST is a full scale model of the GBU-24, having approximately the same weight and center of gravity as the tactical weapon. The PEST is used in the field for hands-on training and practice of rendering safe procedures. The CEST is a cutaway model for classroom training. The PEST has easily replaceable parts that are built into the weapon where EOD procedures indicate destructive type work for EOD training. Electrical parts not required for EOD procedures are identical in external configuration, weight, and center of gravity but are not functional.					
MANUFACTURER:						
CONTRACT NUMBER:						
TEE STATUS:	NA					
TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
NAVSCOLEOD/NAVSCOLEOD DET Eglin AFB, 46207	PEST 1 CEST 1			On board TBD	A-431-0011 A-431-0012	
TOTAL:	2					

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: VF-101 LOCATION, UIC: NAS Oceana, 09067 CIN, COURSE TITLE: D-2A-1631, F-14B/D Fleet Replacement Pilot Cat 1 D-2A-1634, F-14B/D Fleet Replacement Pilot Cat 2 D-2A-1637, F-14B/D Fleet Replacement Pilot Cat 3 D-2A-1640, F-14B/D Fleet Replacement Pilot Cat 4				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: VFA-106 LOCATION, UIC: NAS Oceana, 09679 CIN, COURSE TITLE: E-2A-1631, F/A-18 Fleet Replacement Pilot Cat 1 E-2A-1634, F/A-18 Fleet Replacement Pilot Cat 2A E-2A-1637, F/A-18 Fleet Replacement Pilot Cat 3A E-2A-1640, F/A-18 Fleet Replacement Pilot Cat 4				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: VFA-122 LOCATION, UIC: NAS Lemoore, 09355 CIN, COURSE TITLE:				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: VFA-125 LOCATION, UIC: NAS Lemoore, 09485 CIN, COURSE TITLE: E-2A-1631, F/A-18 Fleet Replacement Pilot Cat 1 E-2A-1634, F/A-18 Fleet Replacement Pilot Cat 2A E-2A-1637, F/A-18 Fleet Replacement Pilot Cat 3A E-2A-1640, F/A-18 Fleet Replacement Pilot Cat 4				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: VMFAT-101 LOCATION, UIC: MCAS Miramar, 45526 CIN, COURSE TITLE: M13P4B3, F/A-18 Fleet Replacement Pilot Basic Training M13P3V3, F/A-18 Fleet Replacement Pilot Refresher M13P3W3, F/A-18 Fleet Replacement Pilot Modified Refresher M13P4B3, F/A-18 Fleet Replacement Pilot Basic Training M13P4C3, F/A-18 WSO Basic and Transition M13P3R3, F/A-18 WSO Refresher M13P3R3, F/A-18 WSO Modified Refresher				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY:	NSAWC N7 (Topgun)			
LOCATION, UIC:	NAS Fallon, 69190			
CIN, COURSE TITLE:	Strike Fighter Training Program (SFTP) Strike Fighter Tactics Instructor Strike Fighter Weapons and Tactics (SFWT) Curricula			
<u>TYPE OF MATERIAL OR AID</u>		<u>QUANT</u>	<u>DATE</u>	<u>STATUS</u>
GBU-24E/B Source Data		1 Set	TBD	TBD
TRAINING ACTIVITY:	F/A-18 Squadrons (Navy)			
LOCATION, UIC:	See below			
CIN, COURSE TITLE:	GBU-24E/B Aircrew Training			
<u>TYPE OF MATERIAL OR AID</u>		<u>QUANT</u>	<u>DATE</u>	<u>STATUS</u>
GBU-24 E/B Source Data				
VFA-22, NAS Lemoore, 09561		1 Set	TBD	TBD
VFA-25, NAS Lemoore, 09637		1 Set	TBD	TBD
VFA-94, NAS Lemoore, 09295		1 Set	TBD	TBD
VFA-97, NAS Lemoore, 63923		1 Set	TBD	TBD
VFA-113, NAS Lemoore, 09092		1 Set	TBD	TBD
VFA-115, NAS Lemoore, 09604		1 Set	TBD	TBD
VFA-137, NAS Lemoore, 09551		1 Set	TBD	TBD
VFA-146, NAS Lemoore, 09063		1 Set	TBD	TBD
VFA-147, NAS Lemoore, 63925		1 Set	TBD	TBD
VFA-151, NAS Lemoore, 09558		1 Set	TBD	TBD
VFA-27, NAS Yokosuka, 65185		1 Set	TBD	TBD
VFA-154, NAS Yokosuka, 09678		1 Set	TBD	TBD
VFA-192, NAS Yokosuka, 55179		1 Set	TBD	TBD
VFA-195, NAS Yokosuka, 09706		1 Set	TBD	TBD
VFA-127, NAS Fallon, 08956		1 Set	TBD	TBD
VFC-13(TAR), NAS Fallon, 52995		1 Set	TBD	TBD
VFA-15, NAS, Oceana, 09015		1 Set	TBD	TBD
VFA-34, NAS, Oceana, 09070		1 Set	TBD	TBD
VFA-37, NAS, Oceana, 09478		1 Set	TBD	TBD
VFA-81, NAS, Oceana, 09221		1 Set	TBD	TBD
VFA-82, NAS, Oceana, 09122		1 Set	TBD	TBD
VFA-83, NAS, Oceana, 09223		1 Set	TBD	TBD
VFA-86, NAS, Oceana, 09943		1 Set	TBD	TBD
VFA-87, NAS, Oceana, 63922		1 Set	TBD	TBD
VFA-105, NAS, Oceana, 65183		1 Set	TBD	TBD
VFA-131, NAS, Oceana, 63934		1 Set	TBD	TBD
VFA-136, NAS, Oceana, 55141		1 Set	TBD	TBD
VFC-12(TAR) , NAS, 52994		1 Set	TBD	TBD
VFA-203 (TAR) , NAS Atlanta, 09030		1 Set	TBD	TBD
VFA-204(TAR) , NAS JRB New Orleans, 09032,		1 Set	TBD	TBD
VX-1, NAS Patuxent River, 55600		1 Set	TBD	TBD
VX-9, NAWCWD China Lake, 55646		1 Set	TBD	TBD
VX-9 Det, NAWCWD Point Mugu, 09830		1 Set	TBD	TBD

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: F/A-18 Squadrons (Marine)
LOCATION, UIC: See below
CIN, COURSE TITLE: GBU-24E/B Aircrew Training

<u>TYPE OF MATERIAL OR AID</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
GBU-24 E/B Source Data			
VMFA-115, MCAS Beaufort, 09234	1 Set	TBD	TBD
VMFA-122, MCAS Beaufort, 09407	1 Set	TBD	TBD
VMFA-251, MCAS Beaufort, 09241	1 Set	TBD	TBD
VMFA-312, MCAS Beaufort, 09253	1 Set	TBD	TBD
VMFA (AW)-224, MCAS Beaufort, 01224	1 Set	TBD	TBD
VMFA (AW)-332, MCAS Beaufort, 09501	1 Set	TBD	TBD
VMFA (AW)-533, MCAS Beaufort, 09193	1 Set	TBD	TBD
VMFA-212, MCAS Miramar, 09434	1 Set	TBD	TBD
VMFA-232, MCAS Miramar, 09242	1 Set	TBD	TBD
VMFA-235, MCAS Miramar, 09237	1 Set	TBD	TBD
VMFA-314, MCAS Miramar, 09230	1 Set	TBD	TBD
VMFA-323, MCAS Miramar, 09235	1 Set	TBD	TBD
VMFA (AW)-121, MCAS Miramar, 09257	1 Set	TBD	TBD
VMFA (AW)-225, MCAS Miramar, 09232	1 Set	TBD	TBD
VMFA-112, (AR), JRB Ft. Worth, 08954	1 Set	TBD	TBD
VMFA-134, (AR), MCAS Miramar, 09365	1 Set	TBD	TBD
VMFA-142, (AR), NAS Jacksonville, 67243	1 Set	TBD	TBD
VMFA-321, (AR), Andrews AFB, 67235	1 Set	TBD	TBD

TRAINING ACTIVITY: F-14 Squadrons
LOCATION, UIC: See below
CIN, COURSE TITLE: GBU-24E/B Aircrew Training

<u>TYPE OF MATERIAL OR AID</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
GBU-24 E/B Source Data			
VF-2, NAS Oceana, 09113	1 Set	TBD	TBD
VF-11, NAS Oceana, 09560	1 Set	TBD	TBD
VF-14, NAS Oceana, 09084	1 Set	TBD	TBD
VF-31, NAS Oceana, 09473	1 Set	TBD	TBD
VF-32, NAS Oceana, 09053	1 Set	TBD	TBD
VF-41, NAS Oceana, 09774	1 Set	TBD	TBD
VF-102, NAS Oceana, 09717	1 Set	TBD	TBD
VF-103, NAS Oceana, 09718	1 Set	TBD	TBD
VF-143, NAS Oceana, 09281	1 Set	TBD	TBD
VF-154, NAS Oceana, 09678	1 Set	TBD	TBD
VF-211, NAS Oceana, 09086	1 Set	TBD	TBD
VF-213, NAS Oceana, 09934	1 Set	TBD	TBD

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: NATTC AO "A" School LOCATION, UIC: NAS Pensacola, 63082 CIN, COURSE TITLE: C-646-2011, Aviation Ordnance Common Core Class A1 C-646-2012, Aviation Ordnance Airwing Strand Class A1				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: SFWS Pacific LOCATION, UIC: NAS Lemoore, 35185 CIN, COURSE TITLE: Load Training				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: SFWS Atlantic LOCATION, UIC: NAS Oceana, 40784 CIN, COURSE TITLE: Load Training				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET LOCATION, UIC: NAS Mayport 66069 CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: MTU-4032 NAMTRAGRUDET LOCATION, UIC: NAS Norfolk, 66046 CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD
TRAINING ACTIVITY: MTU-4033 NAMTRAGRUDET LOCATION, UIC: NAS North Island, 66065 CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance				
<u>TYPE OF MATERIAL OR AID</u> GBU-24E/B Source Data		<u>QUANT REQD</u> 1 Set	<u>DATE REQD</u> TBD	<u>STATUS</u> TBD

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: MTU-4035 NAMTRAGRUDET LOCATION, UIC: NAS Whidbey Island, 66058 CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance			
<u>TYPE OF MATERIAL OR AID</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
GBU-24E/B Source Data	1 Set	TBD	TBD
TRAINING ACTIVITY: MTU-4034 NAMTRAGRUDET LOCATION, UIC: MCAS Cherry Point, 66047 CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician			
<u>TYPE OF MATERIAL OR AID</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
GBU-24E/B Source Data	1 Set	TBD	TBD
TRAINING ACTIVITY: NAVSCOLEOD/NAVSCOLEOD DET LOCATION, UIC: Eglin AFB, 46207 CIN, COURSE TITLE: A-431-0011, EOD Phase II (Navy) A-431-0012, EOD Phase II			
<u>TYPE OF MATERIAL OR AID</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
GBU-24E/B Source Data	1 Set	TBD	TBD
TRAINING ACTIVITY: EODTEU ONE LOCATION, UIC: NS San Diego 66065 CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training			
<u>TYPE OF MATERIAL OR AID</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
GBU-24E/B Source Data	1 Set	TBD	TBD
TRAINING ACTIVITY: EODTEU TWO LOCATION, UIC: NAB Little Creek CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training			
<u>TYPE OF MATERIAL OR AID</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
GBU-24E/B Source Data	1 Set	TBD	TBD

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:	VF-101			
LOCATION, UIC:	NAS Oceana, 09067			
CIN, COURSE TITLE:	D-2A-1631, Replacement Pilot Cat 1 D-2A-1634 Fleet Replacement Pilot Cat 2 D-2A-1637, Replacement Pilot Cat 3 D-2A-1640, Replacement Pilot Cat 4			
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Navy Model NATOPS Manual NAVAIR 01-F14AAD-1A	Hard Copy	6		On board
NATOPS Pocket Checklist, NAVAIR 01-F14AAD-1B	Hard Copy	6		On board
Tactical Manual, F-14 Aircraft, Volume I NAVAIR 01-F14AAD-1T	Hard Copy	6		On board
Tactical Manual, F-14 Aircraft, Volume li NAVAIR 01-F14AAD-1TA	Hard Copy	6		On board
TRAINING ACTIVITY:	VFA-125			
LOCATION, UIC:	NAS Lemoore, 09485			
CIN, COURSE TITLE:	E-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1 E-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A E-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A E-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4			
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Flight Manual Navy Model F/A-18C/D, AT-F18AC-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist, At-F18AC-NFM-500	Hard Copy	6		On board
Tactical Manual, AI -F18AE-TAC-000	Hard Copy	6		On board
Tactical Manual Pocket Guide, AI -F18AC-TAC-300	Hard Copy	6		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: VFA-122
 LOCATION, UIC: NAS Lemoore, 09355
 CIN, COURSE TITLE:

<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
TBD	TBD	TBD		TBD

TRAINING ACTIVITY: SFWS Atlantic
 LOCATION, UIC: NAS Oceana, 60191
 CIN, COURSE TITLE: SFARP
 SFWE

<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Flight Manual Navy Model F/A-18C/D, A1-F18AC-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist, At-F18AC-NFM-500	Hard Copy	6		On board
Tactical Manual, AI -F18AE-TAC-000	Hard Copy	6		On board
Tactical Manual Pocket Guide, AI -F18AC-TAC-300	Hard Copy	6		On board
NATOPS Navy Model NATOPS Manual NAVAIR 01-F14AAD-1A	Hard Copy	6		On board
NATOPS Pocket Checklist, NAVAIR 01-F14AAD-1B	Hard Copy	6		On board
Tactical Manual, F-14 Aircraft, Volume I NAVAIR 01-F14AAD-1T	Hard Copy	6		On board
Tactical Manual, F-14 Aircraft, Volume li NAVAIR 01-F14AAD-1TA	Hard Copy	6		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: SFWS Pacific LOCATION, UIC: NAS Lemoore, 35185 CIN, COURSE TITLE: SFARP SFWE				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Flight Manual Navy Model F/A-18C/D, A1-F18AC-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist, At-F18AC-NFM-500	Hard Copy	6		On board
Tactical Manual, AI -F18AE-TAC-000	Hard Copy	6		On board
Tactical Manual Pocket Guide, AI -F18AC-TAC-300	Hard Copy	6		On board
TRAINING ACTIVITY: VMFAT-101 LOCATION, UIC: MCAS Miramar, 45526 CIN, COURSE TITLE: M13P4B3, F/A-18 Fleet Replacement Pilot Basic and Transition M13P3V3, F/A-18 Fleet Replacement Pilot Refresher M13P3W3, F/A-18 Fleet Replacement Pilot Modified Refresher M13P4C3, F/A-18 WSO Basic and Transition M13P3R3, F/A-18 WSO Refresher M13P3S3, F/A-18 WSO Modified Refresher				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Flight Manual Navy Model F/A-18C/D, A1-F18AC-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist, At-F18AC-NFM-500	Hard Copy	6		On board
Tactical Manual, AI -F18AE-TAC-000	Hard Copy	6		On board
Tactical Manual Pocket Guide, AI -F18AC-TAC-300	Hard Copy	6		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:		AO "A1" School			
LOCATION, UIC:		NATTC, NAS Pensacola, 30459			
CIN, COURSE TITLE:		C-646-2011, Aviation Ordnance Common Core Class A1			
		C-646-2012, Aviation Ordnance Airwing Strand Class A1			
		C-646-2013, Aviation Ordnance Weapons Department Strand Class A1			
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>	
Airborne Weapons/Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board	
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board	
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board	
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board	
Airborne Weapons/Stores Loading Manual NA 01-F14AAA-75	Hard Copy	8		On board	
F-14 Checklist - GBU-24 NA 01-F14AAA-75-34	Hard Copy	8		On board	
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board	
Airborne Weapons Assembly Manual, Checklist NA 11-140-10-2	Hard Copy	8		On board	

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:		SFWS Atlantic		
LOCATION, UIC:		NAS Oceana 60191		
CIN, COURSE TITLE:		D-646-0640, Conventional Weapons Loading		
		D-646-0647, Conventional Release System Test		
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons/Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons/Stores Loading Manual NA 01-F14AAA-75	Hard Copy	8		On board
F-14 Checklist - GBU-24 NA 01-F14AAA-75-34	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Manual, Checklist NA 11-140-10-2	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: SFWS Pacific				
LOCATION, UIC: NAS Lemoore, 35185				
CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Loading				
E-646-0647, F/A-18 Conventional Release System Test				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons/Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Manual, Checklist NA 11-140-10-2	Hard Copy	8		On board
TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET				
LOCATION, UIC: NS Mayport, 66069				
CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board
Ship Weapons Installation Manual NA 11-120-83	Hard Copy	8		On board
Armament Weapons Support Equipment Configuration Manual NA 11-140-25	Hard Copy	8		On board
Approved Handling Equipment for Weapons and Explosives NA 19-100-1.2 (OP-2173)	Hard Copy	8		On board
Airborne Weapons Handling Equipment NA 19-100-2 (Shipboard)	Hard Copy	8		On board
Intermediate Maintenance with IPB, Armament Weapons Support Equipment NA 19-100-3	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4032 NAMTRAGRUDET				
LOCATION, UIC: NAS Norfolk, 66046				
CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board
Ship Weapons Installation Manual NA 11-120-83	Hard Copy	8		On board
Armament Weapons Support Equipment Configuration Manual NA 11-140-25	Hard Copy	8		On board
Approved Handling Equipment for Weapons and Explosives NA 19-100-1.2 (OP-2173)	Hard Copy	8		On board
Airborne Weapons Handling Equipment NA 19-100-2 (Shipboard)	Hard Copy	8		On board
Intermediate Maintenance with IPB, Armament Weapons Support Equipment NA 19-100-3	Hard Copy	8		On board
TRAINING ACTIVITY: MTU-4033 NAMTRAGRUDET				
LOCATION, UIC: NAS North Island, 66065				
CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board
Ship Weapons Installation Manual NA 11-120-83	Hard Copy	8		On board
Armament Weapons Support Equipment Configuration Manual NA 11-140-25	Hard Copy	8		On board
Approved Handling Equipment for Weapons and Explosives NA 19-100-1.2 (OP-2173)	Hard Copy	8		On board
Airborne Weapons Handling Equipment NA 19-100-2 (Shipboard)	Hard Copy	8		On board
Intermediate Maintenance with IPB, Armament Weapons Support Equipment NA 19-100-3	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4035 NAMTRAGRUDET				
LOCATION, UIC: NAS Whidbey Island, 66058				
CIN, COURSE TITLE: C-122-3113, Precision Guided Weapons Intermediate Maintenance				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board
Ship Weapons Installation Manual NA 11-120-83	Hard Copy	8		On board
Armament Weapons Support Equipment Configuration Manual NA 11-140-25	Hard Copy	8		On board
Approved Handling Equipment for Weapons and Explosives NA 19-100-1.2 (OP-2173)	Hard Copy	8		On board
Airborne Weapons Handling Equipment NA 19-100-2 (Shipboard)	Hard Copy	8		On board
Intermediate Maintenance with IPB, Armament Weapons Support Equipment NA 19-100-3	Hard Copy	8		On board
TRAINING ACTIVITY: MTU-4034 VMAT-203 FREST				
LOCATION, UIC: MCAS Cherry Point, 66047				
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board
Ship Weapons Installation Manual NA 11-120-83	Hard Copy	8		On board
Armament Weapons Support Equipment Configuration Manual NA 11-140-25	Hard Copy	8		On board
Approved Handling Equipment for Weapons and Explosives NA 19-100-1.2 (OP-2173)	Hard Copy	8		On board
Airborne Weapons Handling Equipment NA 19-100-2 (Shipboard)	Hard Copy	8		On board
Intermediate Maintenance with IPB, Armament Weapons Support Equipment NA 19-100-3	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:		NAVSCOLEOD/NAVSCOLEOD DET			
LOCATION, UIC:		Eglin AFB, 46207			
CIN, COURSE TITLE:		A-431-0011, EOD Phase II (Navy) A-431-0012, EOD Phase II			
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>	
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	150		On board	
Airborne Weapons Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board	
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board	
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board	
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board	
Airborne Weapons/Stores Loading Manual NA 01-F14AAA-75	Hard Copy	8		On board	
F-14 Checklist - GBU-24 NA 01-F14AAA-75-34	Hard Copy	8		On board	
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board	
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board	

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: EODTEU ONE				
LOCATION, UIC: NS San Diego				
CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	150		On board
Airborne Weapons Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons/Stores Loading Manual NA 01-F14AAA-75	Hard Copy	8		On board
F-14 Checklist - GBU-24 NA 01-F14AAA-75-34	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:	EODTEU TWO			
LOCATION, UIC:	NAB Little Creek			
CIN, COURSE TITLE:	G-431-0001, EOD Pre-deployment Team Training			
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	150		On board
Airborne Weapons Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons/Stores Loading Manual NA 01-F14AAA-75	Hard Copy	8		On board
F-14 Checklist - GBU-24 NA 01-F14AAA-75-34	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Checklist NA 11-140-10-2	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MCAS Beaufort				
LOCATION, UIC: Beaufort, S.C.				
CIN, COURSE TITLE: F/A-18 Conventional Weapons Loading				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons/Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Manual, Checklist NA 11-140-10-2	Hard Copy	8		On board
TRAINING ACTIVITY: MCAS Iwakuni				
LOCATION, UIC: Iwakuni, Japan				
CIN, COURSE TITLE: F/A-18 Conventional Weapons Loading				
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons/Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Manual, Checklist NA 11-140-10-2	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:	MCAS Miramar			
LOCATION, UIC:	San Diego, CA			
CIN, COURSE TITLE:	F/A-18 Conventional Weapons Loading			
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons/Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Manual, Checklist NA 11-140-10-2	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY:		MOTT NAS Norfolk		
LOCATION, UIC:		NAS Oceana, 60191		
CIN, COURSE TITLE:		F-14 / F/A-18 Conventional Weapons Loading GBU-24 Buildup Training		
<u>TYPE OF MATERIAL OR AID</u>	<u>MEDIUM</u>	<u>QUANT REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Airborne Weapons Stores Loading Manual F/A-18E/F Aircraft A1-F18EA-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18E/F Aircraft A1-F18EA-LWS-660	Hard Copy	8		On board
Airborne Weapons/Stores Loading Manual F/A-18C/D Aircraft A1-F18AE-LWS-000	Hard Copy	8		On board
Checklist - GBU-24 F/A-18C/D Aircraft A1-F18AE-LWS-660	Hard Copy	8		On board
Airborne Weapons/Stores Loading Manual NA 01-F14AAA-75	Hard Copy	8		On board
F-14 Checklist - GBU-24 NA 01-F14AAA-75-34	Hard Copy	8		On board
Airborne Weapons Assembly Manual GBU-24 NA 11-140-10	Hard Copy	8		On board
Airborne Weapons Assembly Manual, Checklist NA 11-140-10-2	Hard Copy	8		On board

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Began analysis of MPT requirements		Completed
DCNO/DMSO/CMS SPONSOR	Programmed manpower and training resource requirements		Completed
PDA	Fleet Introduction		Completed
TSA	Began Initial Training		Completed
TA	Began Follow-on Training		Completed
TSA	Delivered Technical Training Equipment		Completed
TSA	Delivered Curricula Materials		Completed
PDA	Developed Draft NTSP	Sep 2000	Completed
PDA	Begin initial production of GBU-24E/B	Oct 2000	Completed
PDA	Conducted OT and DT Training for GBU-24E/B	Oct 2000	Completed
PDA	Begin full rate production of GBU-24E/B	Dec 2000	Completed
PMA205	Submit Draft NTSP to OPNAV	Feb 2001	Pending
PDA	Promulgate Draft NTSP for Review	Mar 2001	Pending
DCNO/DMSO (MP&T)	Conduct NTSP Conference	Apr 2001	If Required
PMA205	Submit Proposed NTSP to OPNAV	May 2001	Pending
PDA	Promulgate updated ILSP	Jun 2001	Pending
DCNO (MP&T)	Approve and Promulgate NTSP	Jun 2001	Pending
PDA	Achieve Fleet Initial Operational Capability for GBU-24E/B	Jun 2001	Pending

PART VI - DECISION ITEMS/ACTION REQUIRED

**DECISION ITEM OR
ACTION REQUIRED**

COMMAND ACTION

DUE DATE

STATUS

No Decisions Items or Actions Pending

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT Robert Taylor Head, Strike/ASUW Section CNO, N780D taylor.robert@hq.navy.mil	COMM: (703) 695-1634 DSN: 664-1634 FAX: (703) 695-8823
MAJ William Sellards Weapons Requirements Officer CNO, N780D5 sellards.william@hq.navy.mil	COMM: (703) 614-2760 DSN: 224-2760 FAX: (703) 693-9553
CAPT Mike Bachmann Head Aviation Maintenance Program Branch CNO, N781 bachmann.micheal@hq.navy.mil	COMM: (703) 604-7750 DSN: 664-7750 FAX: (703) 604-6972
CAPT Terry Merritt Head, Aviation Technical Training Branch CNO, N789H merritt.terry@hq.navy.mil	COMM: (703) 604-7730 DSN: 664-7730 FAX: (703) 604-6969
AZCS Gary Greenlee NTSP Manager CNO, N789H1 Greenlee.gray@hq.navy.mil	COMM: (703) 604-7743 DSN: 664-7743 FAX: (703) 604-6939
CDR Kevin Neary Aviation Manpower CNO, N122C1 n122c1@persnet.navy.mil	COMM: (703) 695-3247 DSN: 225-3247 FAX: (703) 614-5308
Mr. Robert Zweibel Training Technology Policy CNO, N795K zweibel.robert@hq.navy.mil	COMM: (703) 614-1344 DSN: 224-1344 FAX: (703) 695-5698
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