

**NAVY TRAINING SYSTEM PLAN**

**FOR**

**GENERAL AERIAL TARGETS**

**N88-NTSP-A-50-9702A/D**

**JANUARY 2002**

## **GENERAL AERIAL TARGETS**

### **EXECUTIVE SUMMARY**

This Navy Training System Plan (NTSP) has been developed to identify the life cycle manpower, personnel, and training requirements associated with General Aerial Targets. General Aerial Targets are in the Operations and Support Phase of the Defense Acquisition System. Aerial Targets serve as a substitute for enemy entities during weapons testing and fleet training exercises. They are used to determine the effectiveness of defensive systems and weapons in countering existing and potential enemy threats.

Targets as a whole are divided into three categories: aerial targets, land (surface) targets, and tow target systems. This NTSP addresses the General Aerial Targets and its applicable Target Auxiliary/Augmentation Systems (TA/AS). General Aerial Targets are full scale and sub-scale remotely piloted vehicle whose characteristics can be changed through the use of TA/AS devices to represent a wide range of threats.

The maintenance concept for targets is based on an overall objective to ensure that the targets are available to fulfill commitments of operational activities, and to provide the means to restore unserviceable targets to serviceable condition with minimum downtime. Maintenance requirements are allocated to three levels of maintenance as defined in the Naval Ordnance Maintenance Management Program, Office of the Chief of Naval Operation Instruction (OPNAVINST 8000.16).

This NTSP describes targets that have been in use for a number of years, and the manpower and training requirements for support. There are no quantitative changes in manpower associated with this NTSP. A Maintenance Training Requirements Review (MTRR) was held 30 Apr through 04 May 01 onboard Naval Station Norfolk, Virginia. Action Items from the meeting that are pending. Navy Enlisted Classification (NEC) request submitted and is awaiting approval or disapproval, Job Qualification Requirement will be established and courses will be deactivated, combined, or replaced in the Navy Integrated Training and Resources Administration System (NITRAS), Catalog of Navy Training Courses (CANTRAC) and OPNAV Aviation Training and Management System (OATMS). A Computer Base Training (CBT) will be developed for all General Aerial Targets.

**GENERAL AERIAL TARGETS**

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## GENERAL AERIAL TARGETS

### LIST OF ACRONYMS

AD	Aviation Machinist's Mate
AE	Aviation Electrician's Mate
AFWTF	Atlantic Fleet Weapons Training Facility
AM	Aviation Structural Mechanic
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
AT	Aviation Electronics Technician
CFA	Cognizant Field Activity
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief Atlantic Fleet
CINCLANTFLT	Commander in Chief Pacific Fleet
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMFLEACT	Commander Fleet Activity
DET	Detachment
EER	Extended Extended Range
ER	Extended Range
ET	Electronics Technician
FY	Fiscal Year
GCS	Ground Control System GCS
IFF	Identification Friend or Foe
ITCS	Integrated Target Control System
JQR	Joint Qualification Requirements
MCAS	Marine Corps Air Station
MCB	Marine Corps Base
MTRR	Maintenance Training Requirements Review
NA	Not Applicable
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Navy Personnel Command

## GENERAL AERIAL TARGETS

### LIST OF ACRONYMS

NAVAIRWARCENWPNDIV	Naval Air Warfare Center Weapons Division
NCTS	Navy Civilian Technical Specialist
NEC	Navy Enlisted Classification
NOMMP	Naval Ordnance Maintenance Management Program
NS	Naval Station
NSWC	Naval Surface Warfare Center
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
PMA	Program Manager, Air
PMRF	Pacific Missile Range Facility
PQS	Personnel Qualification Standards
PR	Parachute Rigger
RCO	Remote Control Operator
RF	Radio Frequency
SNTC	Standard Navy Target Control
TACAN	Tactical Air Navigation
TA/AS	Target Auxiliary/Augmentation Systems
TD	Training Device
TTE	Technical Training Equipment
VC	Fleet Composite Squadron
VX	Air Development Squadron

## **GENERAL AERIAL TARGETS**

### **PREFACE**

This Draft Navy Training System Plan (NTSP) for General Aerial Targets was developed to update the Approved NTSP N88-NTSP-A-50-9702/A, dated December 2000. This NTSP was prepared in accordance with the guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-9-9-97. The following changes listed below are major changes to which is reflected in this document.

The major changes and updates to this NTSP consist of:

Added functional and general descriptions along with all Target Auxiliary/Augmentation Systems (TA/AS) equipment for the BQM-34S, QF4-N/S, AQM-37C/D, MA-31, and MQM-8G Extended Range (ER)/Extended Extended Range (EER) aerial targets. Changed to include all Aerial Targets. Part VII has been updated to reflect current Points of Contacts.

**PART I - TECHNICAL PROGRAM DATA**

**A. NOMENCLATURE-TITLE-PROGRAM**

- 1. **Nomenclature -Title -Acronym.** General Aerial Targets
- 2. **Program Element.** Not Available

**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 (N780C7)
- OPO Resource Sponsor ..... CNO (N789H3)
- Developing Agency..... NAVAIRSYSCOM (PMA208)
- Training Agency ..... CINCLANTFLT  
CINCPACFLT  
CNET
- Training Support Agency ..... NAVAIRSYSCOM (PMA205-3M)
- Manpower and Personnel Mission Sponsor ..... CNO (N1)  
NAVPERSCOM (PERS-4, PERS-404)
- Director of Naval Training..... CNO (N7)

**D. SYSTEM DESCRIPTION**

**1. Operational Uses.** The Aerial Targets referred to in this document consist of recoverable, non-recoverable, piloted or remotely controlled, full scale and sub-scale aerials target whose operational characteristics may be changed through the use of augmentation devices to represent a wide range of threats. Equipped with the appropriate TA/AS, each aerial target can be configured too fully simulate a variety of manned aircraft or anti-ship cruise missile characteristics. These characteristics are required for the test and evaluation of weapon systems,

proficiency training of Navy and Marine Corps aircrews, and training shipboard weapons personnel in the tracking and identification of enemy aircraft and weapons.

**2. Foreign Military Sales.** Not Applicable (NA)

**E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** Most of the Arial Targets included in this document have been in the Navy inventory for a number of years. The only exception is the MA-31, which is a non-developmental acquisition program that is using a Russian designed missile with the warhead replaced by an avionics bay for TA/AS. The MA-31 will augment the MQM-8GER/EER Vandal systems until the new GQM-163A supersonic target becomes operational. Developmental and operational tests have been completed on all targets covered in this document.

**F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.** NA

**G. DESCRIPTION OF NEW DEVELOPMENT**

**1. Functional Description**

**a. BQM-74E.** The BQM-74E target is a recoverable, remote controlled, subsonic, sub-scale aerial target capable of speeds up to mach 0.85 and altitudes from 7 to 40,000 feet. It is propelled by a J400-WR-404 turbojet engine, and can be launched from a zero-length ground launcher or air launched from F-16, TA-4J, and C-130A aircraft. The BQM-74E can be equipped with a variety of TA/AS, including radar, infrared augmentation, threat emitters, scoring, location, and visual augmentation in order to permit programming for a variety of mission profiles. Target recovery is executed by parachute and can be accomplished either on land or at sea.

TA/AS provides target systems with enhanced performance capabilities and affords the target user flexibility in configuring the target with various combinations of command and control, radar identification, miss distance, radar calculation, and realistic threat simulation. TA/AS configuration enables it to be programmed to simulate eight different mission profiles.

The following is a list of TA/AS and functional descriptions of the most commonly used in the BQM-74E.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
AN/DPN-90 (V) Radar Tracking Beacon	A radar transponder used to enhance radar tracking.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>AN/DPN-88</b> Identification Friend or Foe (IFF) Transponder	A radar-enhanced device used to enhance the D-band IFF signal for Air Traffic Control Radar.
<b>AN/DSQ-37A</b> Miss Distance Indicator	A non-cooperative scalar scoring system that uses the Doppler principle to obtain miss distance scoring information
<b>AN/DRQ-4B</b> Miss Distance Indicator	A cooperative scoring device that measures the distance by which a missile misses a target. The AN/DRQ-4B has a scoring range of 2,000 feet.
<b>AN/DSQ-50A</b> Miss Distance Sensor Set	A non-cooperative scoring device capable of providing automatic, near-time data reduction; secure telemetry transmission; and multiple scoring capability.
<b>T-1438/D</b> Locator Beacon Transmitter	A radio frequency transmitter used as a positive identifying and locating device for aerial targets during the recovery phase of an operation.
<b>AN/ARN-118</b> Tactical Air Navigation (TACAN)	A polar-guided navigation system that provides slant range distance and relative bearing. With the set, the flight crew can deviate its course to and from an airborne or ground TACAN beacon. The set provides steering data to the drone control system of the targets.
<b>AN/DKW-3B</b> Integrated Target Control System (ITCS) Transponder	Used in targets to remotely control targets from one of several ITCS ground stations. It receives and decodes communications from the ground station, routes commands to TA/AS and other systems onboard the target, and transmits target status to the ground station.
<b>AN/DKW-4 (V)</b> Target Control Transponder	The airborne portion used with the model 6157 portable radar tracking and control system. It performs the same function as the AN/DKW-3; however, its portability makes it effective at remote locations.
<b>AN/DPT-2B</b> Radar Transmitting Set	Used to provide simulation of threat radar signals in the BQM-74E.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>AN/DPT-2C</b> Radar Transmitting Set	Produces a high power duty cycle limited Radio Frequency (RF) signal, specifically for Rolling Airframe Missile Training.
<b>Steeran Antenna</b>	Provides an extremely high gain and hence narrow beam of energy that is directed at a cooperative beacon mounted on the ship under test.
<b>AN/UPT-2</b> Radar Transmitting Set	An enhanced version of the AN/DPT-2.

**b. BQM-34S.** The BQM-34S aerial target is a recoverable, remote-controlled subsonic target capable of speeds up to 0.9 MACH and altitudes from 10-50,000 feet. It is propelled during flight by a single J69-T41 or J85-GE-100 turbojet engine that produces 1,920 or 2,800 pounds static thrust (respectively) at sea level. The target is designed to be surface launched from a short rail or zero length ground launcher utilizing a single Jet Assisted Take-Off (JATO) bottle or air launched from a DC-130 aircraft. The target is controllable through normal flight and capable of performing maneuvers of up to 5gs.

The following is a list of TA/AS and functional descriptions of the most commonly used in the BQM-34S. Not listed is a variety of Electronic Warfare (EW) threat emitters that may be installed.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>AN/DPN-90 (V)</b> Radar Tracking Beacon	A radar transponder used to enhance radar tracking.
<b>AN/DPN-88</b> IFF Transponder	A radar-enhanced device used to enhance the D-band IFF signal for Air Traffic Control Radar.
<b>AN/DRQ-4B</b> Miss Distance Indicator	A cooperative scoring device that measures the distance by which a missile misses a target. The AN/DRQ-4B has a scoring range of 2,000 feet.
<b>AN/DSQ-50A</b> Miss Distance Sensor Set	A non-cooperative scoring device capable of providing automatic, near-time data reduction; secure telemetry transmission; and multiple scoring capability.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>T-1438/D</b> Locator Beacon Transmitter	A radio frequency transmitter used as a positive identifying and locating device for aerial targets during the recovery phase of an operation.
<b>VDOPS</b> Missile Scoring Radar	Non-cooperative missile scoring radar that provides vector scoring for a wide variety of applications.
<b>AN/DKW-3B</b> ITCS Transponder	Used in targets to remotely control targets from one of several ITCS ground stations. It receives and decodes communications from the ground station, routes commands to TA/AS and other systems onboard the target, and transmits target status to the ground station.
<b>AN/APN-194</b> Radar Altimeter	A high-resolution device which measures altitude from 0 to 5,000 ft. The radar altimeter measures the time (analogous to distance) required for a pulse of electromagnetic energy to travel from the aircraft to the ground and back to the aircraft.

c. **AQM-37C.** The AQM-37C is an air launched, pre-programmed, non-recoverable supersonic target, powered by a liquid bi-propellant rocket motor. The target was initially developed in 1962, and has been continually updated for improved performance. The current version flies at altitudes ranging from 1,000 feet above the surface to 100,000 feet at speeds up to Mach 4.0. The AQM-37, with special software has flown simulated ballistic missile profiles at altitude of up to 300,000 feet. The target includes a digital autopilot, a telemetry system for flight evaluation and a command/control system allowing lateral maneuvers for course correction as well as dives and pull-ups to simulate missile threats. The target is used for weapons training and weapons development, test, and evaluation.

The following is a list of TA/AS and functional descriptions of the most commonly used in the AQM-37C.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>AN/DRQ-4B</b> Miss Distance Indicator	A cooperative scoring device that measures the distance by which a missile misses a target. The AN/DRQ-4B has a scoring range of 2,000 feet.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>R-2540 (V) DRW</b> Command Destruct Receiver	A solid state FM VHF receiver/decoder designed to respond to coded audio IRIG tones to initiate flight termination in order to meet missile range safety requirements on programs with stringent environmental and reliability requirements.
<b>AN/DSQ-37A</b> Miss Distance Indicator	A non-cooperative scalar scoring system that uses the Doppler principle to obtain miss distance scoring information
<b>AN/DPN-88</b> IFF	A radar-enhanced device used to enhance the D-band IFF signal for Air Traffic Control Radar

**d. MA-31.** The MA-31 is a non-recoverable supersonic missile capable of speeds up to Mach 3.5 at high altitudes and Mach 2.4 at low (sea skimming) altitudes. The MA-31 is derived from the Russian X-31 anti-radiation air-to-surface missile and modified for target use. The MA-31 uses a solid rocket booster to accelerate the target to ramjet speeds, at which point the liquid fueled ramjet is used for sustained flight. The target is launched from a QF-4 and is currently planned to be integrated onto the F-16 in the near future.

The following is a list of TA/AS and functional descriptions of the most commonly used in the M-31.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>AN/DPN-90 (V)</b> Radar Tracking Beacon	A radar transponder used to enhance radar tracking.
<b>AN/DSQ-50A</b> Miss Distance Sensor Set	A non-cooperative scoring device capable of providing automatic, near-time data reduction; secure telemetry transmission; and multiple scoring capability.
<b>R-2540 (V) DRW</b> Command Destruct Receiver	A solid state FM VHF receiver/decoder designed to respond to coded audio IRIG tones to initiate flight termination in order to meet missile range safety requirements on programs with stringent environmental and reliability requirements.

**e. MQM-8G Extended Range and MQM-8G Extended Extended Range.** The MQM-8G Extended Range (ER) and MQM-8G Extended Extended Range (EER) Vandal Targets are two of a family of Vandal Targets developed from the obsolete TALOS RIM-8G/J

fleet missile. The MQM-8G (ER/EER) Vandal Targets are the only versions of the vehicle still in use. They are remote-controlled, non-recoverable vehicles, launched from a land-based modified TALOS launcher by a solid propellant booster and propelled through flight by a ramjet engine.

The following is a list of TA/AS and functional descriptions of the most commonly used in the MQM-8G (ER/EER).

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>AN/DPN-90 (V)1</b> Radar Tracking Beacon	A radar transponder used to enhance radar tracking.
<b>AN/DRQ-4B</b> Miss Distance Indicator	A cooperative scoring device that measures the distance by which a missile misses a target. The AN/DRQ-4B has a scoring range of 2,000 feet.
<b>AN/DSQ-50A</b> Miss Distance Sensor Set	A non-cooperative scoring device capable of providing automatic, near-time data reduction; secure telemetry transmission; and multiple scoring capability.
<b>AN/DPT-1</b> Radar Transmitting Set	An RF emitter used to simulate threat signals; ASCM homing radar with selection of three interchangeable magnetrons H, I, or J bands can be provided.
<b>R-2540 (V) DRW</b> Command Destruct Receiver	A solid state FM VHF receiver/decoder designed to respond to coded audio IRIG tones to initiate flight termination in order to meet missile range safety requirements on programs with stringent environmental and reliability requirements.
<b>AN/APN-194</b> Radar Altimeter	A high-resolution device which measures altitude from 0 to 5,000 ft. The radar altimeter measures the time (analogous to distance) required for a pulse of electromagnetic energy to travel from the aircraft to the ground and back to the aircraft.

**f. The QF-4N, QF-4S and QF-4S+.** The QF-4N, QF-4S and QF-4S+ are full scale, supersonic, recoverable, high altitude, remote-controlled aerial target versions of Navy F-4 Phantom aircraft capable of speeds up to Mach 2.2 and altitudes up to 57,000 ft. The QF-4N/S/S+ have full command control capability through normal flight maneuvers utilizing the Integrated Target Control System. The aircraft have an external stores capability for external fuel tanks and special equipment pods and are used to launch the MA-31 and AQM-37 aerial targets. They are powered by two J-79 engines with afterburners and retain their manned operating capability.

The following is a list of TA/AS and functional descriptions of the most commonly used in the QF-4.

<b>TARGET AUXILIARY/ AUGMENTATION SYSTEMS</b>	<b>FUNCTIONAL DESCRIPTION</b>
<b>AN/DPN-90 (V)</b> Radar Tracking Beacon	A radar transponder used to enhance radar tracking.
<b>AN/DRQ-4B</b> Miss Distance Indicator	A cooperative scoring device that measures the distance by which a missile misses a target. The AN/DRQ-4B has a scoring range of 2,000 feet.
<b>AN/DSQ-50A</b> Miss Distance Sensor Set	A non-cooperative scoring device capable of providing automatic, near-time data reduction; secure telemetry transmission; and multiple scoring capability.
<b>R-2540 (V) DRW</b> Command Destruct Receiver	A solid state FM VHF receiver/decoder designed to respond to coded audio IRIG tones to initiate flight termination in order to meet missile range safety requirements on programs with stringent environmental and reliability requirements.
<b>AN/APN-194</b> Radar Altimeter	A high-resolution device which measures altitude from 0 to 5,000 ft. The radar altimeter measures the time (analogous to distance) required for a pulse of electromagnetic energy to travel from the aircraft to the ground and back to the aircraft.

## 2. Physical Description

### (a) BQM-74/E

Length	155.47 inches
Height	28.13 inches
Diameter	13.96 inches
Wing Span	69.4 inches
Normal Weight	270.96 pounds

### (b) BQM-34S

Length	23 feet
Height	6.5 feet
Wing Span	13 feet
Max Gross Weight	2,500 pounds

### (c) AQM-37C

Length	163.75 inches
Height	26.04 inches
Wing Span	39.72 inches
Normal Weight	620 pounds

### (d) MQM-8G

Length	36.2 feet
Diameter	7.3 feet
Normal Weight	8,225 pounds

### (e) MA-31

Length	185 inches
Diameter	14.2 inches
Wing Span	30.7 inches
Normal Weight	1323 pounds

### (f) QF4-N/S/S+

Length	58 feet 3 in
Height	16 feet 6in
Wing Span	38 feet 5 in
Normal Weight	43,000 pounds

## 3. New Development Introduction. NA

**4. Significant Interfaces.** All targets except the QF-4 series and the MA-31 are compatible with the zero length ground launcher. All targets but the QF-4 and MQM-8 ER/EER can be equipped with an air launch kit to facilitate airborne launch. The other major interface is with the various ground control systems that include the VEGA model 6157, Multiple Aircraft GPS Integrated Command and Control (MAGICC), and Portable Radar Tracking Control System (PRTCS), portable Ground Control System (GCS) and the ITCS fixed site GCS. A new GCS is being deployed in Fiscal Year (FY) 02, called the Standard Navy Target Control (SNTC) and all remotely controlled targets will interface with the GCS. The SNTC will replace all other portable GCSs and all, but the ITCS fixed sites at Atlantic Fleet Weapons Training Facility (AFWTF) and Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), Point Mugu, California.

The BQM-74E and the BQM-34S can be recovered using either a surface vessel or a helicopter. Surface vessels do not require special consideration. H-3, H-46, and H-60 helicopters are typically used for target recovery. It is essential that those activities involved with this type of operation have a training syllabus in place to ensure aircrewmembers are properly trained. This training will include a target “shape” that resembles these targets dimensionally, in weight, and aerodynamically to properly train and certify aircrewmembers.

#### **5. New Features, Configurations, or Material**

**a. BQM-74E.** LACE I and LACE II.

**b. BQM-34S.** NA

**c. AQM-37C/D.** The AN/DPN-90(V) Radar Tracking Beacon, the AN/DSQ-50A Miss Distance Sensor, and the SBVS Missile Scoring System will be incorporated via ECP or Local Engineering Change in the near future. When this information becomes available it will be included in updates to this NTSP.

**d. MQM-8G Vandal.** NA

**e. MA-31.** This target is an interim acquisition to argument the MQM-8G targets until the new supersonic target becomes operational.

**f. QF-4N, S, & S+.** NA

## **H. CONCEPTS**

**1. Operational Concept.** Targets are employed in air-to-air and surface-to-air combat training and test & evaluation missions. Trained Military, Civil Service, and Contractor personnel accomplish aerial target surface launches and the flight crews accomplishes air launches. Once deployed, preprogrammed flight information or the Remote Control Operators (RCO) control the targets’ flight from a GCS. The QF-4 is also capable of manned flight as well.

**2. Maintenance Concept.** Aerial Targets are classified as expendable assets. The BQM-74E, BQM-34S, and the QF-4N/S are the only targets that are recovered and reused. AQM-37C/D, MQM-8G ER/EER, and the MA-31 are not recoverable. All targets employ three levels of maintenance organizational, intermediate, and depot. Targets are maintained, in accordance with the Naval Ordnance Maintenance Management Program (NOMMP), Office of the Chief of Naval Operations Instruction (OPNAVINST) 8000.16; Naval Aviation Maintenance Program (NAMP), OPNAVINST 4790.2H; and approved Naval Air Systems Command (NAVAIRSYSCOM) maintenance instruction manuals, developed for each system. Each target's maintenance concept is discussed separately.

**a. BQM-74E**

**(1) Organizational.** Target systems, and applicable TA/AS equipment are maintained at the organizational maintenance level by technicians in the following ratings: Aviation Electrician's Mate (AE); Aviation Machinist's Mate (AD), Aviation Structural Mechanic (AM), Aviation Ordnanceman (AO), Aviation Electronics Technician (AT), Electronics Technician (ET), Parachute Rigger (PR), and equivalent civil service, or contractor personnel. Organizational level maintenance actions for the BQM-74 consist of:

- Acceptance and transfer inspection and initial build-up
- Pre-launch and post-launch inspections
- Mission programming
- Component installation and removal
- Testing and troubleshooting including stray and no voltage checks
- Component repair and replacement
- Decontamination procedures
- J400-WR404 Engine repair
- Target arming and dearming
- Technical Directive compliance
- Discrepancy reporting
- Record keeping and reporting
- GCS maintenance

**(2) Intermediate.** Intermediate level maintenance is performed by technicians in the AT ratings on TA/AS equipment. Intermediate level maintenance responsibilities for the BQM-74E TA/AS consist of the following.

- Bench alignment or adjusting and check and test
- Discrepancy reporting
- Record keeping and reporting

**(3) Depot.** Depot maintenance is not applicable to the BQM-74E.

## **b. BQM-34S**

**(1) Organizational.** The target system and applicable TA/AS equipment is maintained at this level of maintenance performed by civil service and contractor technicians. Organizational level maintenance actions consist of:

- Acceptance and transfer inspection and initial build-up
- Pre-launch and post-launch inspections
- Mission programming
- Component installation and removal
- Testing and troubleshooting including stray and no voltage checks
- Component repair and replacement
- Target arming and de-arming
- Decontamination procedures
- Technical Directive compliance
- Discrepancy reporting
- Record keeping and reporting
- GCS maintenance

**(2) Intermediate.** Intermediate level maintenance is performed by technicians on TA/AS equipment. Intermediate level maintenance tasks in support of the BQM-34S consist of:

- TA/AS bench alignment or adjusting and check and test
- Complete engine repair for the J69 and J85
- Discrepancy reporting
- Record keeping and reporting

**(3) Depot.** Depot maintenance is not applicable to the BQM-34S.

## **c. AQM-37C**

**(1) Organizational.** The target systems and applicable TA/AS equipment is maintained at this maintenance level performed by civil service and contractor technicians. Organizational level maintenance actions consist of:

- Acceptance inspection and initial build-up
- Pre-launch launch inspections
- TA/AS installation
- Testing and troubleshooting including stray and no voltage checks
- Target mission programming
- Target arming and de-arming
- Technical Directive compliance
- Discrepancy reporting

- Record keeping and reporting
- GCS maintenance

**(2) Intermediate.** Intermediate level maintenance is performed by technicians on TA/AS equipment only. There is no intermediate maintenance performed on the target systems. Intermediate level maintenance tasks in support of the AQM-37C consist of:

- TA/AS bench alignment or adjusting and check and test
- Discrepancy reporting
- Record keeping and reporting

**(3) Depot.** Depot maintenance is not applicable to the AQM-37C.

#### **d. MQM-8G (ER/EER)**

**(1) Organizational.** The target systems and applicable TA/AS equipment is maintained at this level performed by civil service and contractor technicians. Organizational level maintenance actions consist of:

- Acceptance inspection and initial build-up
- Pre-launch launch inspections
- TA/AS installation
- Testing and troubleshooting including stray and no voltage checks
- Target mission programming
- Target arming and de-arming
- Technical Directive compliance
- Discrepancy reporting
- Record keeping and reporting
- GCS maintenance

**(2) Intermediate.** Intermediate level maintenance is performed by technicians on TA/AS equipment only. There is no intermediate maintenance performed on the target. Intermediate level maintenance tasks in support of the MQM-8G (ER/EER) consist of:

- TA/AS bench alignment or adjusting and check and test
- Discrepancy reporting
- Record keeping and reporting

**(3) Depot.** Depot level maintenance responsibilities include those actions required to maintain or restore the inherent design service levels of performance, reliability, and material condition. They span complete rebuild through reclamation, refurbishment, overhaul, repair, replacement, adjustment, servicing, and replacement of consumables. They also include inspection, calibration, and testing.

**e. MA-31**

**(1) Organizational.** The target systems and applicable TA/AS equipment is maintained at this level by civil service and contractor technicians. Organizational level maintenance actions consist of:

- Acceptance inspection and initial build-up
- Pre-launch launch inspections
- TA/AS installation
- Testing and troubleshooting including stray and no voltage checks
- Target mission programming
- Target arming and de-arming
- Technical Directive compliance
- Discrepancy reporting
- Record keeping and reporting
- GCS maintenance

**(2) Intermediate.** Intermediate level maintenance is performed by technicians on TA/AS equipment only. There is no intermediate maintenance performed on the target. Intermediate level maintenance tasks in support of the MA-31 consist of:

- TA/AS bench alignment or adjusting and check and test
- Discrepancy reporting
- Record keeping and reporting

**(3) Depot.** Depot maintenance is not applicable to the MA-31.

**f. QF-4N/S**

**(1) Organizational.** The QF-4 aircraft/target systems and applicable TA/AS equipment is maintained at this level performed by civil service and contractor technicians. Organizational level maintenance actions consist of:

- Acceptance and transfer inspection
- Pre-launch and post-launch inspections
- Mission programming
- Component installation and removal
- Testing and troubleshooting including stray and no voltage checks
- Component repair and replacement
- Aircraft and target arming and de-arming
- Technical Directive compliance
- Discrepancy reporting
- Record keeping and reporting
- GCS maintenance

**(2) Intermediate.** Intermediate maintenance is performed by technicians on TA/AS equipment and some aircraft components. Intermediate level maintenance tasks in support of the QF-4N/S consist of:

- TA/AS bench alignment or adjusting and check and test
- Repair of Weapons Repairable Assembly repair
- Discrepancy reporting
- Record keeping and reporting

**(3) Depot.** Depot maintenance is applicable to the QF-4N/S.

- Installation of remote control equipment
- Complete engine repair for the J79
- Weapons Repairable Assembly repair
- Discrepancy reporting
- Record keeping and reporting

**g. Interim Maintenance.** NA

**h. Life Cycle Maintenance Plan.** Life cycle support and technical assistance is provided by the Cognizant Field Activity (CFA), NAVAIRWARCENWPNDIV, Point Mugu for all targets except the QF-4N/S. The QF-4N/S CFA support is provided by Naval Aviation Depot, Cherry Point.

**3. Manning Concept.** Target maintenance and operator functions are assigned to 74 personnel attached to two target activities, Fleet Composite Squadron (VC)-6 and Commander, Fleet Activity (COMFLEACT) Okinawa, Japan, to provide Target Support Services. VC-6 is organized into the following sub-units in support of Aerial Targets:

- Shore-duty component located at Naval Station (NS) Norfolk, Virginia
- Sea-duty component also located at Detachment (DET) VC-6 Dam Neck, Virginia
- Shore duty component located at DET VC-6 Dam Neck, Virginia

COMFLEACT Okinawa is organized with 14 active duty Navy personnel and six, contractor support personnel assigned to the Target Support Division. All other activities utilize civil service and contractor personnel to provide target support.

AFWTF Naval Station Roosevelt Roads, Puerto Rico, Pacific Missile Range Facility (PMRF), Hawaii and the NAVAIRWARCENWPNDIV Point Mugu, White Sands Missile Range, New Mexico, National Aeronautics and Space Administration (NASA) Wallops Island, Virginia, provide target maintenance and operations. Civil service and contractor manpower is not covered in this NTSP.

Manpower requirements for targets are compatible with existing, skill levels. Currently there is no target specific Navy Enlisted Classification (NEC) codes assigned to identify personnel

qualified in target support. An 83XX NEC request has been submitted with a positive endorsement from OPNAV (N789H) and is awaiting approval. Manpower requirements for organizational, intermediate, and depot level maintenance are generated based on a specific work center's total workload and the skills needed to perform maintenance on the systems supported by the work center. The manpower requirements in this NTSP were taken from existing VC-6 and COMFLEACT Okinawa Activity Manpower Documents. This NTSP does not identify any new manpower requirements. No manpower change is required.

**4. Training Concept.** Target systems present unique training challenges. The current training concept utilizes three Navy Civilian Technical Specialists (NCTS) to provide on-site training of assigned personnel, two at VC-6 and one at COMFLEACT Okinawa. Target training course classroom space and training equipment is be provided by each host command. These NCTS personnel are available to other activities when required. In addition to the NCTS personnel many activities have developed local training programs. Many civil service and contractor personnel have 10 to 20 years' experience with aerial targets and training is not an issue except for new target capabilities or configurations.

As a result of a recent Maintenance Training Requirements Review (MTRR) there were several actions that are being put in place. NAVAIRSYSCOM will take over as the Training Agent and Model Manager for all target courses and training materials. The NCTS personnel will be the primary source of all formal and OJT training for CFA Okinawa and VC-6. All existing courses in support of Aerial Targets are under review or revision. Specific actions resulting from the MTRR are shown below.

**a. Initial Training.** Initial training for Aerial Targets is not required. These systems have been in use for many years.

**b. Follow-on Training.** Follow-on training for targets is available via NCTS personnel on site. The following training courses are currently available. NAVAIRSYSCOM will be taking over as Model Manager for all of these courses in FY 02.

**(1) BQM-74E**

**Title ..... BQM-74E Target Familiarization Organizational Maintenance**  
 CIN ..... D-690-0103  
 MTRR Action..... Delete course and incorporate pertinent data in D-690-0105

**Title ..... Target Maintenance Procedures**  
 CIN ..... D-690-0105

MTRR Action..... NAVAIRSYSCOM assume TA and Model Manager responsibility for course, assign N series CIN. Restructure course for presentation by NCTS personnel and include all BQM-74 maintenance activities.

Description ..... To provide personnel in all aviation ratings with sufficient knowledge and skills, including related target publications, safety precautions, target subsystems and subsystem launch configurations, electrical and mechanical support equipment, pyrotechnics, decontamination, maintenance and launch configuration procedures to perform BQM-74E maintenance in the squadron environment under supervision.

Location ..... As required

Length ..... 25 days

RFT date ..... October 2002

Skill identifier ..... TBD

TTE/TD ..... BQM-74E and applicable test and handling SE

Prerequisites .....  
° Appropriate "A" school or equivalent  
° Assignment to a unit where training is related to the unit's mission and maintenance level

**Title ..... Target Avionics Organizational Maintenance**

CIN ..... D-690-0106

MTRR action..... Include pertinent data in C-690-0105 and delete course

**Title ..... VEGA MODEL 6157 Organizational Maintenance**

CIN ..... D-690-0107

MTRR Action..... NAVAIRSYSCOM assume TA and Model Manager responsibility for course, assign N series CIN. Add intermediate level maintenance requirements and increase course length as appropriate

Description ..... To provide ATs, and ETs with sufficient knowledge and skills, including unit and component identification, modes of operation, Radar Test Set operation and checkout procedures, and fault isolation procedures to perform maintenance on the VEGA Model 6157 Portable Radar Tracking and Control System under close supervision.

Location ..... As required.

Length ..... 19 days

RFT date ..... October 2002

Skill identifier..... NA

TTE/TD..... None

Prerequisites ..... °C-100-2020, Avionics Common Core Class A1  
 °C-100-2017, Avionics Technician I Level Class A1  
 °C-100-2018, Avionics Technician O Level Class A1  
 °A-100-0140, Electronics Technician Strand A School

**Title ..... Target Parachute Organizational Maintenance**

CIN ..... D-690-0109

MTRR Action..... Develop CBT and delete course

Description ..... To provide PRs with sufficient knowledge and skills, including unit and component identification, launch configurations, and parachute packing procedures to perform maintenance on the BQM-74E Target Parachute under close supervision.

Location ..... As required

Length ..... 1 hr

RFT date ..... October 2002

**Title ..... Target Remote Control Operator**

CIN ..... D-690-0104

MTRR action..... NAVAIRSYSCOM assume TA and Model Manager responsibilities and assign N series course number.

Description ..... To provide Officers and Chief Petty Officers with sufficient knowledge and skills, including related target publications, safety precautions, target characteristics, ground stations, target configurations, commands, flight parameters, mission planning, controller responsibilities, and operating procedures to operate the BQM-74E Remote Control Target in the squadron environment.

Location ..... As required

Length ..... 3 days

RFT date ..... October 1999

Skill identifier..... NA

TTE/TD..... None

Prerequisites ..... °E-7 or above

**Title ..... J-400-WR-404 Engine Repair Intermediate Maintenance**

CIN ..... D-690-0108

MTRR action..... NAVAIRSYSCOM assume TA and Model Manager responsibilities and assign N series course number.

Description ..... To provide ADs with sufficient knowledge and skills, including target publications, safety precautions, engine and engine systems, principles of operation, support equipment, saltwater decontamination, maintenance procedures for installation, removal, disassembly, and testing to perform J400-WR404 engine intermediate maintenance in the squadron environment under supervision.

Location ..... As required

Length ..... 5 days

RFT date ..... October 1999

Skill identifier..... NA

TTE/TD..... None

Prerequisites ..... °C-601-2014, Aviation Machinist's Mate Turbojet Aircraft Fundamentals Strand Class A1 or equivalent

## (2) BQM-34

**Title .....** **BQM-34 Aerial Target Maintenance Procedures**  
**CIN .....** TBD  
**MTRR Action.....** NAVAIRSYSCOM assume TA and Model Manager responsibility for course, assign N series CIN.  
**Description .....** To provide personnel in all aviation ratings with sufficient knowledge and skills, including related target publications, safety precautions, target subsystems and subsystem launch configurations, electrical and mechanical support equipment, pyrotechnics, decontamination, maintenance and launch configuration procedures to perform BQM-34 maintenance.  
**Location .....** As required  
**Length.....** TBD  
**RFT date .....** October 2002  
**Skill identifier .....** TBD  
**TTE/TD .....** BQM-34 and applicable test and handling SE  
**Prerequisites .....** ° Assignment to a unit where training is related to the unit's mission and maintenance level

## (3) AQM-37C

**Title .....** **AQM-37C Aerial Target Familiarization**  
**CIN .....** N-646-0675  
**MTRR Action.....** Remove obsolete A-6 material and update course to include the AQM-37D variation.  
**Description .....** To provide personnel in all aviation ratings with sufficient knowledge and skills, including related target publications, safety precautions, target subsystems and subsystem launch configurations, electrical and mechanical support equipment, pyrotechnics, decontamination, maintenance and launch configuration procedures to perform AQM-37C maintenance.  
**Location .....** As required  
**Length.....** 5 days  
**RFT date .....** October 2002

Skill identifier ..... TBD

TTE/TD ..... AQM-37C and applicable test and handling SE

Prerequisites ..... ° Assignment to a unit where training is related to the unit's mission and maintenance level

(4) **MQM-8G.** There is no formal training.

(5) **MA-31.** There is no formal training.

(6) **QF-4N/S.** There is no formal training.

**c. Student Profiles**

<b>SKILL IDENTIFIER</b>	<b>PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS</b>
AD	° C-601-2011, Aviation Machinist's Mate Common Core Class A1 ° C-601-2014, Aviation Machinist's Mate Turbojet Fundamentals Strand Class A1
AE	° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1
AM	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Intermediate Level Strand Class A1
AO	° C-646-2011, Aviation Ordnanceman Common Core Class A1 ° C-646-2012, Aviation Ordnanceman Navy Difference Training
AT	° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O level Class A1
ET	° A-100-0138, Electronics Technician Core A School ° A-100-0140, Electronics Technician Strand A School
PR	° C-602-2035, Aircrew Survival Equipmentman Common Core Class A1 ° C-602-2037, Aircrew Survival Equipmentman Intermediate Level Strand Class A1

**d. Pipelines.** All courses are stand-alone courses. There are no new pipelines.

## **I. ONBOARD (IN-SERVICE) TRAINING**

### **1. Proficiency or Other Training Organic to the New Development**

**a. Aviation Maintenance Training Continuum System.** 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 concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the Chief of Naval Operations' (CNO) mandated "just-in-time" training approach. Master task list has been completed for the BQM-74E target and may be included in AMTCS for fleet BQM-74E training.

**2. Personnel Qualification Standards.** There are no existing Personnel Qualification Standards (PQS) for General Aerial Targets. Program Manager, Air (PMA) 205 is developing a Job Qualification Requirements (JQR) management guide and individual target JQRs in lieu of PQS. The JQRs will be used by, military, contractor and civil service personnel for training and qualifications, for aerial target maintenance and operations. The management of the JQRs will be done within the NAVAIRSYSCOM team. JQRs are being developed for the BQM-74 and are scheduled to be validated and ready for fleet use by Jan '02. The need for additional JQRs to support TA/AS, and other aerial targets is under evaluation by PMA205.

**a. BQM-74E.** JQRs are being developed for the following:

- BQM-74 Maintenance (W/C 15A)
- ITCS Maintenance (W/C15D)
- BQM-74 Avionics (W/C610)
- BQM-74 Paraloft (W/C810)
- Mission Commander
- Direct Control Operator (DCO) / Crew Chief
- Remote Control Operator (RCO)
- Start Console Operator
- First / Second Mechanic
- J-400 engine O and I level Maintenance (W/C 410)

**b. BQM-34S.** To be determined

**c. AQM-37C.** To be determined

**d. MQM-8G (ER/EER) Vandal.** To be determined

**e. MA-31.** To be determined

**f. QF-4N/S.** To be determined

**3. Other Onboard or In-service Training Packages.** The Explosives Handling Personnel Qualification and Certification (QUAL/CERT) Program is a process directed OPNAVINST 8023.2C (NOTAL) (Navy) and MCO 8023.2 (Marine Corps) as a mandatory measure to ensure that initial qualification training and subsequent certification have been accomplished for all personnel assigned explosives tasks prior to performance of said tasks.

Training packages for targets will be developed that will support formal training presentation and can also be used as refresher training onboard. Some will be ICW and some will be PowerPoint presentations.

## **J. LOGISTICS SUPPORT**

### **1. Manufacturer and Contract Numbers**

**a. BQM-74E.** Northrop Grumman Corp, Ryan Aeronautical Center, 17066 Goldentop, San Diego, CA 92150. Current contract

**b. BQM-34S.** Teledyne Ryan Aeronautics (Northrop Grumman). Production completed.

**c. AQM-37C/D.** Raytheon

**d. MQM-8G (ER/EER) Vandal.** Honeywell, formerly Allied Signal. Production completed prior to 1996.

**e. MA-31.** Russian manufactured and procured through the Boeing Company.

**f. QF-4N/S.** McDonald Aircraft. Production completed.

### **2. Technical Data Plan**

**a. BQM-74E.** ULSS, ALSP, Configuration Management Plan, Software Configuration Management Plan, and technical publications are available for the BQM-74E.

**b. BQM-34S.** NA

**c. AQM-37C/D.** NA

**d. MQM-8GER/EER Vandal.** ILSP and technical publications are available for the Vandal.

e. MA-31. NA

f. QF-4N/S. NA

**3. Program Documentation.** All Aerial Targets related technical manuals are currently available. Refer to element IV.B.3 for applicable technical manuals required for training.

**4. Test Sets, Tools, and Test Equipment.** Existing Aerial Targets support equipment available in the Navy inventory is used wherever possible. Technical Training Equipment (TTE) or Training Devices (TD) are not required to support Aerial Target Training. Aerial target support equipment is provided by VC-6 Maintenance Department to train students.

**5. Repair Parts.** The Material Support Date and Naval Support Date were achieved prior to 1980.

**6. Human Systems Integration.** NA

## K. SCHEDULES

**1. Installation and Delivery Schedules.** NA

**2. Ready For Operational Use Schedule.** All targets are currently considered to be ready for operational use.

**3. Time Required to Install at Operational Sites.** NA

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

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

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

## M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
BQM-74E User's Logistic Support Summary (ULSS)	ULSS 0004D	PMA208	Approved Feb 98
BQM-74E Integrated Logistic Support Plan (ILSP)	ILSP-045C	PMA208	Approved Feb 98

<b>DOCUMENT OR NTSP TITLE</b>	<b>DOCUMENT OR NTSP NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
Aerial Target Maintenance Plan for the BQM-74E	PGMP-0066G	PMA208	Approved Feb 98
Configuration Management Plan for Aerial Target And Decoy Systems	CMP-I20800	PMA208	Approved Sept 00
GQM-163A Supersonic Target Navy Training System Plan	N78-NTSP-A-50-0104/I	PMA208	Draft Sept 01
Pioneer Unmanned Aerial Vehicle (UAV) Navy Training System Plan	A-50-8622D/D	PMA205	Draft Aug 99

## PART II - BILLET AND PERSONNEL REQUIREMENTS

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

### II.A. Billet Requirements

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

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

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

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

### II.B. Personnel Requirements

**Note:** II.A.3 General Aerial Targets training course, classroom space and training equipment are conducted in house by host commands.

**PART II - BILLET AND PERSONNEL REQUIREMENTS**

**II.A. BILLET REQUIREMENTS**

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

**SOURCE:** Total Force Manpower Management System

**DATE:** 11/1/200

<b>ACTIVITY, UIC</b>		<b>PFYs</b>	<b>CFY02</b>	<b>FY03</b>	<b>FY04</b>	<b>FY05</b>	<b>FY06</b>
OPERATIONAL ACTIVITIES - NAVY							
VC-6 DETACHMENT DAM NECK SHORE	30197	1	0	0	0	0	0
VC-6 NAVAL STATION NORFOLK	09806	1	0	0	0	0	0
VC-6 SEA DUTY COMPONENT	32019	1	0	0	0	0	0
COMFLEACT, OKINAWA	62254	1	0	0	0	0	0
<b>TOTAL:</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - NAVY					
<b>VC-6 DETACHMENT DAM NECK SHORE DUTY, 30197</b>					
ACDU	1	0	7340		
	0	1	AD3		
	0	1	ADAN		
	0	1	AE3		
	0	1	AEAN		
	0	1	AK3		
	0	1	AM2		
	0	1	AMAN		
	0	1	AO3		
	0	1	APOC		
	0	1	APO1		
	0	1	APO2		
	0	1	APO3		
	0	1	ATCS		
	0	3	AT1		
	0	1	AT2		
	0	1	AT3		
	0	2	ATAN		
	0	1	AZ2		
	0	1	ET3		9527
	0	1	ETSN		
	0	1	FC2		9526
	0	1	YN2		
	0	3	AN		
<b>ACTIVITY TOTAL:</b>	<b>1</b>	<b>28</b>			
<b>VC-6 NAVAL STATION NORFOLK, 09806</b>					
ACDU	1	0	7380		
	0	1	AT2	6612	
	0	2	ATAN	6612	
<b>ACTIVITY TOTAL:</b>	<b>1</b>	<b>3</b>			
<b>VC-6 SEA DUTY COMPONENT, 32019</b>					
ACDU	5	0	1302		
	0	3	AD2		
	0	3	ADAN		
	0	3	AMAN		
	0	3	AO3		
	0	3	APOC		
	0	3	AT1		
	0	3	AT2		
	0	3	AT3		
	0	1	BMC	0161	

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

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACDU	0	1	BM1		
	0	2	BM2		
	0	2	BMSN		
	0	1	ENC	4314	
	0	2	EN2	4340	
	0	2	EN3		
	0	4	ENFN		
	0	1	ET1		
	0	2	ETSN		
ACTIVITY TOTAL:	5	42			
COMFLEACT, OKINAWA, 62254					
ACDU	1	0	1311		
	1	0	7360		
	0	1	ADCS		
	0	2	AD2		
	0	1	AM1		
	0	1	AO1		
	0	2	AO2		
	0	1	AS1		
	0	1	AS2		
	0	1	AT1		
	0	1	AT2		
	0	1	AZ1		
	0	1	AZAN		
	0	1	ET2		
	0	1	MR2		
ACTIVITY TOTAL:	2	15			

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY02		FY03		FY04		FY05		FY06	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY OPERATIONAL ACTIVITIES - ACDU													
1302		5		0		0		0		0		0	
1311		1		0		0		0		0		0	
7340		1		0		0		0		0		0	
7360		1		0		0		0		0		0	
7380		1		0		0		0		0		0	
ADCS		1		0		0		0		0		0	
AD2			5		0		0		0		0		0
AD3			1		0		0		0		0		0
ADAN			4		0		0		0		0		0
AE3			1		0		0		0		0		0
AEAN			1		0		0		0		0		0
AK3			1		0		0		0		0		0
AM1			1		0		0		0		0		0
AM2			1		0		0		0		0		0
AMAN			4		0		0		0		0		0
AO1			1		0		0		0		0		0
AO2			2		0		0		0		0		0
AO3			4		0		0		0		0		0
APOC			4		0		0		0		0		0
APO1			1		0		0		0		0		0
APO2			1		0		0		0		0		0
APO3			1		0		0		0		0		0
AS1			1		0		0		0		0		0
AS2			1		0		0		0		0		0
ATCS			1		0		0		0		0		0
AT1			7		0		0		0		0		0
AT2			5		0		0		0		0		0
AT2	6612		1		0		0		0		0		0
AT3			4		0		0		0		0		0
ATAN			2		0		0		0		0		0
ATAN	6612		2		0		0		0		0		0
AZ1			1		0		0		0		0		0
AZ2			1		0		0		0		0		0
AZAN			1		0		0		0		0		0
BMC	0161		1		0		0		0		0		0
BM1			1		0		0		0		0		0
BM2			2		0		0		0		0		0
BMSN			2		0		0		0		0		0
ENC	4314		1		0		0		0		0		0
EN2	4340		2		0		0		0		0		0
EN3			2		0		0		0		0		0
ENFN			4		0		0		0		0		0
ET1			1		0		0		0		0		0
ET2			1		0		0		0		0		0
ET3	9527		1		0		0		0		0		0

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

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY02		FY03		FY04		FY05		FY06	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ETSN			3		0		0		0		0		0
FC2	9526		1		0		0		0		0		0
MR2			1		0		0		0		0		0
YN2			1		0		0		0		0		0
AN			3		0		0		0		0		0

**SUMMARY TOTALS:**

NAVY OPERATIONAL ACTIVITIES - ACDU													
			9	88	0	0	0	0	0	0	0	0	0

**GRAND TOTALS:**

NAVY - ACDU													
			9	88	0	0	0	0	0	0	0	0	0

**II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS**

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY02		FY03		FY04		FY05		FY06	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VC-6 DET, Dam Neck, 30197	NAVY	0.0	0.2	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5
<b>SUMMARY TOTALS:</b>													
	NAVY	0.0	0.2	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5
<b>GRAND TOTALS:</b>													
		0.0	0.2	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5

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

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY02		FY03		FY04		FY05		FY06	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM

**a. OFFICER - USN**

Operational Billets ACDU and TAR

1302			5	0	5	0	5	0	5	0	5	0	5
1311			1	0	1	0	1	0	1	0	1	0	1
7340			1	0	1	0	1	0	1	0	1	0	1
7360			1	0	1	0	1	0	1	0	1	0	1
7380			1	0	1	0	1	0	1	0	1	0	1

**TOTAL USN OFFICER BILLETS:**

Operational			9	0	9	0	9	0	9	0	9	0	9
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**b. ENLISTED - USN**

Operational Billets ACDU and TAR

ADCS			1	0	1	0	1	0	1	0	1	0	1
AD2			5	0	5	0	5	0	5	0	5	0	5
AD3			1	0	1	0	1	0	1	0	1	0	1
ADAN			4	0	4	0	4	0	4	0	4	0	4
AE3			1	0	1	0	1	0	1	0	1	0	1
AEAN			1	0	1	0	1	0	1	0	1	0	1
AK3			1	0	1	0	1	0	1	0	1	0	1
AM1			1	0	1	0	1	0	1	0	1	0	1
AM2			1	0	1	0	1	0	1	0	1	0	1
AMAN			4	0	4	0	4	0	4	0	4	0	4
AO1			1	0	1	0	1	0	1	0	1	0	1
AO2			2	0	2	0	2	0	2	0	2	0	2
AO3			4	0	4	0	4	0	4	0	4	0	4
APOC			4	0	4	0	4	0	4	0	4	0	4
APO1			1	0	1	0	1	0	1	0	1	0	1
APO2			1	0	1	0	1	0	1	0	1	0	1
APO3			1	0	1	0	1	0	1	0	1	0	1
AS1			1	0	1	0	1	0	1	0	1	0	1
AS2			1	0	1	0	1	0	1	0	1	0	1
ATCS			1	0	1	0	1	0	1	0	1	0	1
AT1			7	0	7	0	7	0	7	0	7	0	7
AT2			5	0	5	0	5	0	5	0	5	0	5
AT2	6612		1	0	1	0	1	0	1	0	1	0	1
AT3			4	0	4	0	4	0	4	0	4	0	4
ATAN			2	0	2	0	2	0	2	0	2	0	2
ATAN	6612		2	0	2	0	2	0	2	0	2	0	2
AZ1			1	0	1	0	1	0	1	0	1	0	1
AZ2			1	0	1	0	1	0	1	0	1	0	1
AZAN			1	0	1	0	1	0	1	0	1	0	1
BMC	0161		1	0	1	0	1	0	1	0	1	0	1
BM1			1	0	1	0	1	0	1	0	1	0	1

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

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY02		FY03		FY04		FY05		FY06	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
BM2			2	0	2	0	2	0	2	0	2	0	2
BMSN			2	0	2	0	2	0	2	0	2	0	2
ENC	4314		1	0	1	0	1	0	1	0	1	0	1
EN2	4340		2	0	2	0	2	0	2	0	2	0	2
EN3			2	0	2	0	2	0	2	0	2	0	2
ENFN			4	0	4	0	4	0	4	0	4	0	4
ET1			1	0	1	0	1	0	1	0	1	0	1
ET2			1	0	1	0	1	0	1	0	1	0	1
ET3		9527	1	0	1	0	1	0	1	0	1	0	1
ETSN			3	0	3	0	3	0	3	0	3	0	3
FC2		9526	1	0	1	0	1	0	1	0	1	0	1
MR2			1	0	1	0	1	0	1	0	1	0	1
YN2			1	0	1	0	1	0	1	0	1	0	1
AN			3	0	3	0	3	0	3	0	3	0	3

Chargeable Student Billets ACDU and TAR

0	2	2	0	2	0	2	0	2	0	2	0	2
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**TOTAL USN ENLISTED BILLETS:**

Operational	88	0	88	0	88	0	88	0	88	0	88	0	88
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Chargeable Student	0	2	2	0	2	0	2	0	2	0	2	0	2
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**c. OFFICER - USMC**

NA

**d. ENLISTED - USMC**

NA

**II.B. PERSONNEL REQUIREMENTS**

**II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS**

**CIN, COURSE TITLE:** D-690-0104, Target Remote Control Operator

**COURSE LENGTH:** 0.2 Weeks

**TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY02		FY03		FY04		FY05		FY06	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VC-6 DT, Dam Neck	NAVY	ACDU		3		3		3		3		3
		ACDU	2		2		2		2		2	
		TOTAL:	2	3	2	3	2	3	2	3	2	3

**CIN, COURSE TITLE:** D-690-0105, Target Familiarization Organizational Maintenance

**COURSE LENGTH:** 3.8 Weeks

**TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.08

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY02		FY03		FY04		FY05		FY06	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VC-6 DT, Dam Neck	NAVY	ACDU		12		12		12		12		12
		TOTAL:		12		12		12		12		12

**CIN, COURSE TITLE:** D-690-0107, VEGA MODEL 6157 Organizational Maintenance Course

**COURSE LENGTH:** 3.0 Weeks

**TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.06

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY02		FY03		FY04		FY05		FY06	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VC-6 DT, Dam Neck	NAVY	ACDU		10		10		10		10		10
		TOTAL:		10		10		10		10		10

**CIN, COURSE TITLE:** D-690-0108, J400-WR-404 Engine Repair Intermediate Maintenance

**COURSE LENGTH:** 1.0 Weeks

**TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY02		FY03		FY04		FY05		FY06	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VC-6 DT, Dam Neck	NAVY	ACDU		4		4		4		4		4
		TOTAL:		4		4		4		4		4

**II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS**

**CIN, COURSE TITLE:** D-690-0103, BQM-74-E Target Familiarization Organizational Maintenance

**COURSE LENGTH:** 0.6 Weeks **TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY02		FY03		FY04		FY05		FY06	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VC-6 DT, Dam Neck	NAVY	ACDU		15		15		15		15		15
		TOTAL:		15		15		15		15		15

**CIN, COURSE TITLE:** D-690-0106, Target Avionics Organizational Maintenance Course

**COURSE LENGTH:** 0.0 Weeks **TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10% **BACKOUT FACTOR:** 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY02		FY03		FY04		FY05		FY06	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VC-6 DT, Dam Neck	NAVY	ACDU		10		10		10		10		10
		TOTAL:		10		10		10		10		10

## PART III - TRAINING REQUIREMENTS

## PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

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

### IV.A. Training Hardware

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

IV.A.2. Training Devices

### IV.B. Courseware Requirements

IV.B.1. Training Services

**Note:** The General Aerial Targets courses have no TTE/TD assigned. Aerial target equipment is provided by VC-6 Maintenance Department to train students.

**IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS**

**CIN, COURSE TITLE:** D-690-0104, Target Remote Control Operator

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC:** Dam Neck, 30197

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outline	4	Sep 99	On board
Instructor Guide	1	Sep 99	On board
Laboratory Work Exercises	4	Sep 99	On board
Overhead Projector	1	Sep 99	On board
Student Guide	4	Sep 99	On board
Transparencies	2	Sep 99	On board
Visual Aid Panel	1	Sep 99	On board
White or Chalkboard	1	Sep 99	On board

**CIN, COURSE TITLE:** D-690-0105, Target Familiarization Organizational Maintenance

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC:** Dam Neck, 30197

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outline	12	Sep 99	On board
Instructor Guide	1	Sep 99	On board
Laboratory Work Exercises	12	Sep 99	On board
Overhead Projector	1	Sep 99	On board
Student Guide	12	Sep 99	On board
Transparencies	2	Sep 99	On board
Visual Aid Panel	1	Sep 99	On board
White or Chalkboard	1	Sep 99	On board

**CIN, COURSE TITLE:** D-690-0107, VEGA Model 6157 Organizational Maintenance Course

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC:** Dam Neck, 30197

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outline	12	Sep 99	On board
Instructor Guide	1	Sep 99	On board
Laboratory Work Exercises	12	Sep 99	On board
Overhead Projector	1	Sep 99	On board
Student Guide	12	Sep 99	On board
Transparencies	2	Sep 99	On board
Visual Aid Panel	1	Sep 99	On board
White or Chalkboard	1	Sep 99	On board

**IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS**

**CIN, COURSE TITLE:** D-690-0109, Target Parachute Organizational Maintenance Course

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC:** Dam Neck, 30197

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outline	4	Sep 99	On board
Instructor Guide	1	Sep 99	On board
Laboratory Work Exercises	4	Sep 99	On board
Overhead Projector	1	Sep 99	On board
Student Guide	4	Sep 99	On board
Transparencies	2	Sep 99	On board
Visual Aid Panel	1	Sep 99	On board
White or Chalkboard	1	Sep 99	On board

**CIN, COURSE TITLE:** D-690-0108, J400-WR-404 Engine Repair Intermediate Maintenance

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC:** Dam Neck, 30197

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outline	8	Sep 99	On board
Instructor Guide	1	Sep 99	On board
Laboratory Work Exercises	8	Sep 99	On board
Overhead Projector	1	Sep 99	On board
Student Guide	8	Sep 99	On board
Transparencies	2	Sep 99	On board
Visual Aid Panel	1	Sep 99	On board
White or Chalkboard	1	Sep 99	On board

**CIN, COURSE TITLE:** D-690-0103, BQM-74-E Target Familiarization Organizational Maintenance Course

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC:** Dam Neck, 30197

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outline	12	Sep 99	On board
Instructor Guide	1	Sep 99	On board
Laboratory Work Exercises	12	Sep 99	On board
Overhead Projector	1	Sep 99	On board
Student Guide	12	Sep 99	On board
Transparencies	12	Sep 99	On board
Visual Aid Panel	1	Sep 99	On board
White or Chalkboard	1	Sep 99	On board

**IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS**

**CIN, COURSE TITLE:** D-690-0106, Target Avionics Organizational Maintenance Course

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC:** Dam Neck, 30197

<b>TYPES OF MATERIAL OR AID</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
Curriculum Outline	12	Sep 99	On board
Instructor Guide	1	Sep 99	On board
Laboratory Work Exercises	12	Sep 99	On board
Overhead Projector	1	Sep 99	On board
Student Guide	12	Sep 99	On board
Transparencies	2	Sep 99	On board
Visual Aid Panel	1	Sep 99	On board
White or Chalkboard	1	Sep 99	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** D-690-0104, Target Remote Control Operator  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
NAVAIR 01-BQM74C-75-2, Conventional Weapons Checklist (Surface Launched) BQM-74C/E Target Drone, Mk 117 JATO	Hard copy	5	Sep 99	On board
NAVAIR 01-BQM74E-1, Controller's Manual Organizational Level, Target Drone BQM-74E	Hard copy	5	Sep 99	On board
NAVAIR 01-BQM74E-2-1-1, Maintenance Instructions, Organizational Volume I Chapters 1-4 Description and Buildup, Target Drone Navy Model BQM-74E	Hard copy	5	Sep 99	On board
NAVAIR 11-85M-2, Technical Manual, Description, Preparation for Use, Handling Instruction for JATOS	Hard copy	5	Sep 99	On board
NAVAIR 16-30TSW10-1, Organizational Maintenance, With Illustrated Parts Breakdown control Set, Drone, Multiple AN/TSW-10 (V)	Hard copy	5	Sep 99	On board
NAVAIR 16-45-6157-1, Portable Radar Tracking and Control System 6157, Organization and Intermediate	Hard copy	5	Sep 99	On board

**CIN, COURSE TITLE:** D-690-0105, Target Familiarization Organizational Maintenance  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
NAVAIR 01- BQM74E 2-1.2.3 Targets Drone BQM-74E MSR System Test	Hard copy	10	Sep 99	On board
NAVAIR 01-30TBA 2-3.2 MAINT INST / Aerospace Ground Equip Target Drone	Hard copy	10	Sep 99	On board
NAVAIR 01-BQM74E 2-1.2.2 Target Drone BQM-74E VEGA Systems Test	Hard copy	10	Sep 99	On board
NAVAIR 01-BQM74E-1, Controller's Manual Organizational Level, Target Drone BQM-74E	Hard copy	10	Sep 99	On board
NAVAIR 01-BQM74E-2-1-2-3 Target Drone BQM-74E MSR Systems Test	Hard copy	10	Sep 99	On board
NAVAIR 01-BQM74E-2-1-1 Maintenance Instructions, Organizational Volume I Chapters 1-4 Description and Buildup, Target Drone Navy Model BQM-74E	Hard copy	10	Sep 99	On board

### IV.B.3. TECHNICAL MANUALS

NAVAIR 01-BQM74E-2-1.2..1 Maintenance Instructions Organizational, Volume II Chapter 5 Section I, ITCS System Test, Target Drone Navy Model BQM-74E	Hard copy	10	Sep 99	On board
NAVAIR 01-BQM74E-2-1.3 Maintenance Instructions Organizational, Volume III Chapter 6-9 Maintenance, Target Drone BQM-74E	Hard copy	10	Sep 99	On board
NAVAIR 01-BQM74E-2-2 Target Drone Intermediate Maintenance	Hard copy	10	Sep 99	On board
NAVAIR 01-BQM74E-4, Illustrated Parts Breakdown Organizational and Intermediate Level Maintenance, Target Drone BQM-74E	Hard copy	10	Sep 99	On board
NAVAIR 02B-30E-6-1, Intermediate Maintenance with Illustrated Parts Breakdown, Turbo Jet Engine, J400-WR-404	Hard copy	10	Sep 99	On board
NAVAIR 11-100-1.3, Technical Manual, CADS, Bomb Rack/Launcher, Dummy Unit Missile Systems	Hard copy	10	Sep 99	On board
NAVAIR 11-85M-2, Technical Manual, Description, Preparation for Use, Handling Instruction for JATOS	Hard copy	10	Sep 99	On board
NAVAIR 16-1-540, Organizational/Unit and Intermediate Maintenance, Avionics Cleaning and Corrosion Prevention/Control	Hard copy	10	Sep 99	On board
NAVAIR 16-30USM635-1, Technical Manual. Intermediate Maintenance with Illustrated Parts Breakdown, Target Drone Test Set ANUSM-635, Part Number 410464-1	Hard copy	10	Sep 99	On board
NAVAIR AG-000TZ-MMM-000 Technical Manual, Intermediate Maintenance with Illustrated Parts Breakdown, Target Drone Test Set AN/USM-614	Hard copy	10	Sep 99	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** D-690-0107, VEGA Model 6157 Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
6177 Radar Test Set VEGA 6177 Radar Test Set Performance Test	Hard copy	5	Sep 99	On board
6177 Radar Test Set VEGA 6177 Radar Test Set Operation Instructions	Hard copy	5	Sep 99	On board
NAVAIR 01-BQM74E 2-1.2.2 Target Drone BQM-74E VEGA Systems Test	Hard copy	5	Sep 99	On board
NAVAIR 16-45-2612 Radar Simulator Model 616C (VEGA)	Hard copy	5	Sep 99	On board
NAVAIR 16-45-6157-1 Portable Radar Tracking and Control System 6157, Organization and Intermediate	Hard copy	5	Sep 99	On board
NAVAIR 16-45-6157-4, Illustrated Parts Breakdown, Portable Radar Tracking and Control System 6157	Hard copy	5	Sep 99	On board
NAVSEA OP 3565 Electromagnetic Radiation Hazards (U) (Hazards to Ordnance) (U)	Hard copy	5	Sep 99	On board

**CIN, COURSE TITLE:** D-690-0109, Target Parachute Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 01-BQM74E-2-1-1 Maintenance Instructions, Organizational Volume I Chapters 1-4 Description and Buildup, Target Drone Navy Model BQM-74E	Hard copy	3	Sep 99	On board
NAVAIR 01-BQM74E-2-2 Target Drone Intermediate Maintenance	Hard copy	3	Sep 99	On board
NAVSEA OP 3565 Electromagnetic Radiation Hazards (U) (Hazards to Ordnance) (U)	Hard copy	3	Sep 99	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** D-690-0108, J400-WR-404 Engine Repair Intermediate Maintenance  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
NAVAIR 01- BQM74E 2-1.2.3 Targets Drone BQM-74E MSR System Test	Hard copy	5	Sep 99	On board
NAVAIR 01-30TBA 2-3.2 MAINT INST / Aerospace Ground Equip Target Drone	Hard copy	5	Sep 99	On board
NAVAIR 01-BQM74E-2-1-1 Maintenance Instructions, Organizational Volume I Chapters 1-4 Description and Buildup, Target Drone Navy Model BQM-74E	Hard copy	5	Sep 99	On board
NAVAIR 01-BQM74E-2-1.3 Maintenance Instructions Organizational, Volume III Chapter 6-9 Maintenance, Target Drone BQM-74E	Hard copy	5	Sep 99	On board
NAVAIR 02B-30E-6-1 Intermediate Maintenance with Illustrated Parts Breakdown, Turbo Jet Engine, J400-WR-404	Hard copy	5	Sep 99	On board
NAVAIR 16-1-540 Organizational/Unit and Intermediate Maintenance, Avionics Cleaning and Corrosion Prevention/Control	Hard copy	5	Sep 99	On board

**CIN, COURSE TITLE:** D-690-0103, BQM-74-E Target Familiarization Organizational Maintenance  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
NAVAIR 01- BQM74E 2-1.2.3 Targets Drone BQM-74E MSR System Test	Hard copy	3	Sep 99	On board
NAVAIR 01-1A-509 A/C Weapons System Cleaning/Corrosion Control	Hard copy	5	Sep 99	On board
NAVAIR 01-30TBA 2-3.2 MAINT INST / Aerospace Ground Equip Target Drone	Hard copy	3	Sep 99	On board
NAVAIR 01-30TBA-2-3.1, Maintenance Instruction for Aerospace Ground Equipment, Organization and Intermediate Level, Target Drone, Navy Models BQM-74C P/N 89500	Hard copy	3	Sep 99	On board
NAVAIR 01-BQM74E 2-1.2.2 Target Drone BQM-74E VEGA Systems Test	Hard copy	3	Sep 99	On board
NAVAIR 01-BQM74E-1	Hard copy	3	Sep 99	On board

Controller's Manual Organizational Level, Target Drone BQM-74E

### IV.B.3. TECHNICAL MANUALS

NAVAIR 01-BQM74E-2-1-2-3 Target Drone BQM-74E MSR Systems Test	Hard copy	3	Sep 99	On board
NAVAIR 01-BQM74E-2-1-1 Maintenance Instructions, Organizational Volume I Chapters 1-4 Description and Buildup, Target Drone Navy Model BQM-74E	Hard copy	3	Sep 99	On board
NAVAIR 01-BQM74E-2-1.2.1 Maintenance Instructions Organizational, Volume II Chapter 5 Section I, ITCS System Test, Target Drone Navy Model BQM-74E	Hard copy	3	Sep 99	Pending
NAVAIR 01-BQM74E-2-1.3 Maintenance Instructions Organizational, Volume III Chapter 6-9 Maintenance, Target Drone BQM-74E	Hard copy	3	Sep 99	Pending
NAVAIR 01-BQM74E-2-2 Target Drone Intermediate Maintenance	Hard copy	3	Sep 99	On board
NAVAIR 01-BQM74E-4 Illustrated Parts Breakdown Organizational and Intermediate Level Maintenance, Target Drone BQM-74E	Hard copy	3	Sep 99	On board
NAVAIR 01-BQM74E-75, Airborne Weapons Checklist (Surface-Launched BQM-74E Target Drone pyrotechnics)	Hard copy	3	Sep 99	On board
NAVAIR 02B-30E-6-1, Intermediate Maintenance with Illustrated Parts Breakdown, Turbo Jet Engine, J400-WR-404	Hard copy	3	Sep 99	On board
NAVAIR 11-85M-2, Technical Manual, Description, Preparation for Use, Handling Instruction for JATOS	Hard copy	3	Sep 99	On board
NAVAIR 16-45-6157-1, Portable Radar Tracking and Control System 6157, Organization and Intermediate	Hard copy	3	Sep 99	On board
NAVSEA OP 3565 Electromagnetic Radiation Hazards (U) (Hazards to Ordnance) (U)	Hard copy	3	Sep 99	On board
OPNAVIST 8600.2B Naval Airborne Weapons Maintenance Program	Hard copy	3	Sep 99	On board

**IV.B.3. TECHNICAL MANUALS**

**CIN, COURSE TITLE:** D-690-0106, Target Avionics Organizational Maintenance Course

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197

<b>TECHNICAL MANUAL NUMBER / TITLE</b>	<b>MEDIUM</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>STATUS</b>
NAVAIR 01- BQM74E 2-1.2.3 Target Drone BQM-74E MSR System Test	Hard copy	6	Sep 99	On board
NAVAIR 01-1A-23 Standard Shop Practice Repair Manual	Hard copy	6	Sep 99	On board
NAVAIR 01-1A-509 A/C Weapons System Cleaning/Corrosion Control	Hard copy	6	Sep 99	On board
NAVAIR 01-30TBA 2-3.2 MAINT INST / Aerospace Ground Equip Target Drone	Hard copy	6	Sep 99	On board
NAVAIR 01-30TBA-2-3.1, Maintenance Instruction for Aerospace Ground Equipment, Organization and Intermediate Level, Target Drone, Navy Models BQM-74C P/N 89500	Hard copy	6	Sep 99	On board
NAVAIR 01-BQM74E 2-1.2.2 Target Drone BQM-74E VEGA Systems Test	Hard copy	6	Sep 99	On board
NAVAIR 01-BQM74E-2-1-2-3 Target Drone BQM-74E MSR Systems Test	Hard copy	6	Sep 99	On board
NAVAIR 01-BQM74E-2-1-1 Maintenance Instructions, Organizational Volume I Chapters 1-4 Description and Buildup, Target Drone Navy Model BQM-74E	Hard copy	6	Sep 99	On board
NAVAIR 01-BQM74E-2-1.3 Maintenance Instructions Organizational, Volume III Chapter 6-9 Maintenance, Target Drone BQM-74E	Hard copy	6	Sep 99	On board
NAVAIR 01-BQM74E-2-2 Target Drone Intermediate Maintenance	Hard copy	6	Sep 99	On board
NAVAIR 01-BQM74E-2-2-2-1 ITCS System Test Volume II Chap 5 Section I	Hard copy	6	Sep 99	On board
NAVAIR 01-BQM74E-4 Illustrated Parts Breakdown Organizational and Intermediate Level Maintenance, Target Drone BQM-74E	Hard copy	6	Sep 99	On board
NAVAIR 02B-30E-6-1 Intermediate Maintenance with Illustrated Parts Breakdown, Turbo Jet Engine, J400-WR-404	Hard copy	6	Sep 99	On board

### IV.B.3. TECHNICAL MANUALS

NAVAIR 16-1-540 Organizational/Unit and Intermediate Maintenance, Avionics Cleaning and Corrosion Prevention/Control	Hard copy	6	Sep 99	On board
NAVAIR 16-30DKW3B-1, Operator/Service Instruction Level Transponder Set AN/DKW-38 (V)	Hard copy	6	Sep 99	On board
NAVAIR 16-30DKW4-1 Target Control Trans AN/DKW-4 (V) 1 Part # 135 as6321	Hard copy	6	Sep 99	On board
NAVAIR 16-30DPN-88-1 Transponder Set AN/DPN-88	Hard copy	6	Sep 99	On board
NAVAIR 16-30DRM29A-1, Transponder Test Set An/DRm-29 O & I Maintenance with Illustrated Parts Breakdown	Hard copy	6	Sep 99	On board
NAVAIR 16-30DRW29-1 Radio Receiving Set AN/DRW-29	Hard copy	6	Sep 99	On board
NAVAIR 16-30DSQ50-2 Miss Distance Sensor AN/DSQ-50 PT# 1769AS100	Hard copy	6	Sep 99	On board
NAVAIR 16-30USM613-1 AN/USM-613 Counter Measures Test Set	Hard copy	6	Sep 99	On board
NAVAIR 16-30USM635-1, Technical Manual, Intermediate Maintenance with Illustrated Parts Breakdown, Target Drone Test Set ANUSM-635, Part Number 410464-1	Hard copy	6	Sep 99	On board
NAVAIR 16-30USM641-1, Intermediate Maintenance Operation & Maintenance with Illustrated Parts Breakdown	Hard copy	6	Sep 99	On board
NAVAIR 17-1-125 GSE Cleaning and Corrosion Control	Hard copy	6	Sep 99	On board
NAVIR 16-30GSQ228-1 Miss Distance Analyzer Set AN/GSQ-228 PT# 1770as100	Hard copy	6	Sep 99	On board
NAVSEA OP 3565 Electromagnetic Radiation Hazards (U) (Hazards to Ordnance) (U)	Hard copy	6	Sep 99	On board
OPNAVINST 4790.2G Naval Aviation Maintenance Program	Hard copy	6	Sep 99	On board
OPNAVIST 8600.2B Naval Airborne Weapons Maintenance Program	Hard copy	6	Sep 99	On board

**IV.C. FACILITY REQUIREMENTS**

**IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY**

**CIN, TITLE:** D-690-0104, Target Remote Control Operator  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

**REQUIRED RFT DATE:** Sep/99

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
400	400	800	115				Fully		

**CIN, TITLE:** D-690-0105, Target Familiarization Organizational Maintenance  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

**REQUIRED RFT DATE:** Sep/99

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
400	400	800	115				Fully		

**CIN, TITLE:** D-690-0107, VEGA Model 6157 Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

**REQUIRED RFT DATE:** Sep/99

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
400	400	800	115				Fully		

**IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY**

**CIN, TITLE:** D-690-0109, Target Parachute Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

**REQUIRED RFT DATE:** Sep/ 99

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
400	400	800	115			Fully			

**CIN, TITLE:** D-690-0108, J400-WR-404 Engine Repair Intermediate Maintenance  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

**REQUIRED RFT DATE:** Sep/ 99

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
400	400	800	115			Fully			

**CIN, TITLE:** D-690-0103, BQM-74-E Target Familiarization Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

**REQUIRED RFT DATE:** Sep/ 99

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
400	400	800	115			Fully			

**IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY**

**CIN, TITLE:** D-690-0106, Target Avionics Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT  
**LOCATION, UIC :** Dam Neck, 30197

**REQUIRED RFT DATE:** Sep/99

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
400	400	800	115			Fully			

**IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE**

**CIN, COURSE TITLE:** D-690-0104, Target Remote Control Operator  
**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197  
**BUILDING AND ROOM NUMBER:** Target Control Tower  
**TYPE OF FACILITY PROJECT:** Alteration  
**FACILITY PROJECT NUMBER:** Unknown  
**REQUIRED PROJECT AWARD:**  
**REQUIRED UCD:**  
**REQUIRED RFT:** Sep 1999  
**STATUS:**

**CIN, COURSE TITLE:** D-690-0105, Target Familiarization Organizational Maintenance  
**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197  
**BUILDING AND ROOM NUMBER:** Target Control Tower  
**TYPE OF FACILITY PROJECT:** Alteration  
**FACILITY PROJECT NUMBER:** Unknown  
**REQUIRED PROJECT AWARD:**  
**REQUIRED UCD:**  
**REQUIRED RFT:** Sep 1999  
**STATUS:**

**CIN, COURSE TITLE:** D-690-0107, VEGA Model 6157 Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197  
**BUILDING AND ROOM NUMBER:** Target Control Tower  
**TYPE OF FACILITY PROJECT:** Alteration  
**FACILITY PROJECT NUMBER:** Unknown  
**REQUIRED PROJECT AWARD:**  
**REQUIRED UCD:**  
**REQUIRED RFT:** Sep 1999  
**STATUS:**

**CIN, COURSE TITLE:** D-690-0109, Target Parachute Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197  
**BUILDING AND ROOM NUMBER:** Target Control Tower  
**TYPE OF FACILITY PROJECT:** Alteration  
**FACILITY PROJECT NUMBER:** Unknown  
**REQUIRED PROJECT AWARD:**  
**REQUIRED UCD:**  
**REQUIRED RFT:** Sep 1999  
**STATUS:**

#### IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

**CIN, COURSE TITLE:** D-690-0108, J400-WR-404 Engine Repair Intermediate Maintenance  
**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197  
**BUILDING AND ROOM NUMBER:** Target Control Tower  
**TYPE OF FACILITY PROJECT:** Alteration  
**FACILITY PROJECT NUMBER:** Unknown  
**REQUIRED PROJECT AWARD:**  
**REQUIRED UCD:**  
**REQUIRED RFT:** Sep 1999  
**STATUS:**

**CIN, COURSE TITLE:** D-690-0103, BQM-74-E Target Familiarization Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197  
**BUILDING AND ROOM NUMBER:** Target Control Tower  
**TYPE OF FACILITY PROJECT:** Alteration  
**FACILITY PROJECT NUMBER:** Unknown  
**REQUIRED PROJECT AWARD:**  
**REQUIRED UCD:**  
**REQUIRED RFT:** Sep 1999  
**STATUS:**

**CIN, COURSE TITLE:** D-690-0106, Target Avionics Organizational Maintenance Course  
**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197  
**BUILDING AND ROOM NUMBER:** Target Control Tower  
**TYPE OF FACILITY PROJECT:** Alteration  
**FACILITY PROJECT NUMBER:** Unknown  
**REQUIRED PROJECT AWARD:**  
**REQUIRED UCD:**  
**REQUIRED RFT:** Sep 1999  
**STATUS:**

**IV.C.3. FACILITY PROJECT SUMMARY BY PROGRAM**

**TRAINING ACTIVITY:** VC-6 DT

**LOCATION, UIC :** Dam Neck, 30197

<b>PROJECT NUMBER</b>	<b>TOTAL SCOPE</b>	<b>PROJECTED AWARD DATE</b>	<b>PROJECTED UCD</b>	<b>STATUS</b>
Unknown				

**PART V – MPT MILESTONES**

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
DCNO/DMSO/CMS Sponsor	Programmed manpower and training resource requirements	Note	Completed
AIR-3.4.1/PDA	Distributed Draft NTSP for review	Jul 98	Completed
PDA	Developed Training Transition Plan	Apr 97	Completed
PDA	Conducted NTSP Conference	Aug 98	Completed
CNO	Approved Transition Plan	Oct 97	Completed
PDA / NAVAIR PMA205	Developed Course Rewrites	Aug 99	Completed
PDA / NAMTRAGRU DET	Developed NAMTRAGRU DET / VC-6 Facilities Memorandum of Agreement	Jan 99	Completed
PDA / NAMTARGRU DET	Began Training at NAMTRAGRU DET	Oct 99	Completed
PDA	Submitted Proposed NTSP to OPNAV	Jul 00	Completed
CNO	Approved NTSP	Dec 00	Completed
AIR-3.4.1/PDA	Distributed Draft NTSP for review	Jan 02	Completed

**Note:** The Aerial Targets have been in use for many years. The exact date that manpower and training resources were programmed is not available.

**PART VI ACTION ITEMS/ACTION REQUIRED**

No Decision Items or Actions Pending

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
<b>CDR Robert M. Vance</b> Requirements Officer CNO, N780C7 Vance.robert@hq.navy.mil	<b>COMM:</b> (703) 695-1841 <b>DSN:</b> 695-2750 <b>FAX:</b> (703) 693-8823
<b>CAPT Terry Merritt</b> Head, Aviation Technical Training Branch CNO, N789H merritt.terry@hq.navy.mil	<b>COMM:</b> (703) 604-7730 <b>DSN:</b> 664-7730 <b>FAX:</b> (703) 604-6939
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PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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<b>Mr. George Szego</b> Target Auxilliary/Augmentation Systems & Ground Control Systems IPT Lead PEO (W), PMA208 szegog@navair.navy.mil	<b>COMM:</b> (301) 757-6112 <b>DSN:</b> 757-6112 <b>FAX:</b> (301) 757-6118
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<b>Mr. Tim Barnes</b> AQM-37 IPT Leader PEO (W), PMA208 barnests@navair.navy.mil	<b>COMM:</b> (301) 757-6115 <b>DSN:</b> 757-6115 <b>FAX:</b> (301) 757-6118
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PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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<b>Mr. John Olson</b> Aviation Weapons Officer COMNAVAIRLANT, N85E olsonjt@cna.navy.mil	<b>COMM:</b> (757) 444-7318 <b>DSN:</b> 564-7318 <b>FAX:</b> (757) 444-7483
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<b>CDR Timothy Ferree</b> Branch Head, Aviation Enlisted Assignments NAVPERSCOM, PERS-404 p404@persnet.navy.mil	<b>COMM:</b> (901) 874-3691 <b>DSN:</b> 882-3691 <b>FAX:</b> (901) 874-2642
<b>CDR Scott Gingery</b> Head Aviation Manpower Requirements Department NAVMAC, 30 scott.gingery@navmac.navy.mil	<b>COMM:</b> (901) 874-6218 <b>DSN:</b> 882-6218 <b>FAX:</b> (901) 874-6471
<b>Mr. Al Sargent</b> Aviation Manpower Requirements NAVMAC, 33 al.sargent@navmac.navy.mil	<b>COMM:</b> (901) 874-6247 <b>DSN:</b> 882-6247 <b>FAX:</b> (901) 874-6471
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**PART VII - POINTS OF CONTACT**

<b>NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL</b>	<b>TELEPHONE NUMBERS</b>
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<p><b>Mr. Richard Gomez</b>                      TA/AS, Deputy Assistant Program Manager for Logistics                      NAWCWD, 313110E                      gomezra@navair.navy.mil</p>	<p><b>COMM:</b> (805) 989-5662  <b>DSN:</b> 351-5662  <b>FAX:</b> (805) 989-5378</p>
<p><b>Ms. Carolyn Getman</b>                      MQM-8 Deputy Assistant Program Manager for Logistics                      NAWCWD, 539100E                      getmancj@navair.navy.mil</p>	<p><b>COMM:</b> (805) 989-5940  <b>DSN:</b> 351-5940  <b>FAX:</b> (805) 989-3949</p>
<p><b>Mr. Steven Torando</b>                      MA-31 Deputy Assistant Program Manager for Logistics                      NAWCWD, 313110E                      terandosj@navair.navy.mil</p>	<p><b>COMM:</b> (805) 989-5608  <b>DSN:</b> 351-5608  <b>FAX:</b> (805) 989-5978</p>
<p><b>Mr. Larry Dunsworth</b>                      QF-4 Deputy Assistant Program Manager for Logistics                      NADEP Cherry Pt, 4.5.1                      dusworthlj@navair.navy.mil</p>	<p><b>COMM:</b> (252) 464-8143  <b>DSN:</b>  <b>FAX:</b> (252) 464-</p>
<p><b>Mr. James Fullerton</b>                      Training Project Officer                      NAWCWD, 342000E                      fullertonjr@navair.navy.mil</p>	<p><b>COMM:</b> (805) 484-6412  <b>DSN:</b> 893-6412  <b>FAX:</b> (805) 484-6328</p>
<p><b>Mr. Edward Sanderson</b>                      Training Analyst                      NAVAIRSYSCOM, PMA205 (American Systems Corp)                      sandersonem@navair.navy.mil</p>	<p><b>COMM:</b> (301) 757-8111  <b>DSN:</b> 757-8111  <b>FAX:</b> (301) 757-5331</p>
<p><b>Mr. Bob Kresge</b>                      NTSP Manager                      NAVAIRSYSCOM, AIR 3.4.1                      kresgerj@navair.navy.mil</p>	<p><b>COMM:</b> (301) 757-1844  <b>DSN:</b> 757-1844  <b>FAX:</b> (301) 342-7737</p>