

**ULSS 000702-15A**

USER'S LOGISTICS SUPPORT SUMMARY

**TACTICAL WATER PURIFICATION  
SYSTEM (TWPS)**

NSN 4610-01-488-6961



MARINE CORPS SYSTEMS COMMAND  
QUANTICO, VA 22134-5010

THIS PUBLICATION IS REQUIRED FOR OFFICIAL USE OR ADMINISTRATION OR OPERATIONAL PURPOSES. DISTRIBUTION IS LIMITED TO U.S. GOVERNMENT AGENCIES ONLY. OTHER REQUESTS FOR THIS DOCUMENT MUST BE REFERRED TO: COMMANDING GENERAL MARINE CORPS SYSTEMS COMMAND (GTES-ES), QUANTICO, VA 22134-5010.

DESTRUCTION NOTICE: DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENTS.

---

FOR OFFICIAL USE ONLY

**March 2004**  
**PCN 132 0XXXX 000**



DEPARTMENT OF THE NAVY  
Headquarters, U.S. Marine Corps  
Washington, DC 20380-0001

xx March 2004

1. This User's Logistics Support Summary (ULSS) authenticated for Marine Corps use and effective upon receipt, advises the Operating Forces and other selected commands of the plan to field and logistically support the Tactical Water Purification System (TWPS), NSN 4610-01-488-6961.
2. Submit notice of discrepancies or suggested changes to this ULSS to the Program Office at the following address: Commanding General, MARCORSYSCOM Attn: PMM-152, 2200 Lester Street, Quantico, Virginia 22134-5010.
3. This ULSS supersedes Letter of Adoption and Procurement (LAP) Number 0007-02 of 16 April 2002.
4. This ULSS is applicable to Marine Forces Reserve.

BY DIRECTION OF THE COMMANDING GENERAL, MARINE CORPS SYSTEMS COMMAND

OFFICIAL:

W. P. MACECEVIC, JR.  
Program Manager, Engineer Systems  
Marine Corps Systems Command

DISTRIBUTION: PCN 132 0XXXX 000



**USER'S LOGISTICS SUPPORT SUMMARY (ULSS)  
FOR THE  
TACTICAL WATER PURIFICATION SYSTEM (TWPS)**

1. Introduction. The Tactical Water Purification System (TWPS) is designated as an Acquisition Category (ACAT) IV-T Joint Program for the U.S. Marine Corps and the U.S. Army. The U.S. Army was designated the Lead Service for this acquisition. The TWPS program is scheduled for a Milestone C Full Rate Production Decision during March 2004. The Marine Corps Fielding Decision is anticipated during November 2004. The Initial Operational Capability (IOC) is scheduled for fourth Quarter FY05. Full Operational Capability (FOC) is scheduled for first Quarter FY08. The TWPS is the next generation water purification system that replaces the existing 600 GPH ROWPU. The system is designed using Commercial Off-The-Shelf (COTS) integrated equipment.

IOC for the TWPS is defined as the projected timeframe the TWPS is issued to a complete MEF and systems are logistically supportable. FOC for the TWPS is defined as the date the Operating Forces within the Marine Corps have completed fielding of the TWPS.

a. Source of Requirement. The TWPS Program was initially called the Enhanced Reverse Osmosis Water Purification Unit (EROWPU) and was designated a Joint Program for the U.S. Army and U.S. Marine Corps. The Mission Need Statement (MNS) Log 216.3.6 for the TWPS, approved on 10 November 1994, identified deficiencies in the current capability and validates the requirement for the TWPS. The acquisition approach culminates in procurement of 243 systems to meet the Operational Requirements Document (ORD) requirements approved 20 January 2001.

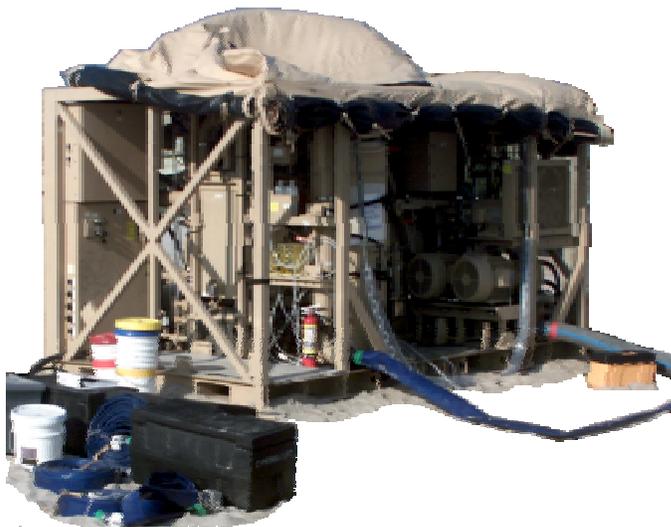
b. Points of Contact

TITLE	ACTIVITY	TELEPHONE
Team Lead	MARCORSYSCOM, PMM-152 Quantico, VA 22134	(703) 432-3598 DSN 378-3598
Project Officer	MARCORSYSCOM, PMM-152 Quantico, VA 22134	(703) 432-3750 DSN 378-3750
Integrated Logistics Support Specialist	MARCORSYSCOM PMM-152 Quantico, VA 22134	(703) 432-3758 DSN 378-3758
Equipment Specialist	MARCORSYSCOM PMM-152 Albany, GA	DSN 567-6984
Contractor	SFA, Frederick, MD	(301) 662-6811

c. System Description. The TWPS is a self-contained and mobile system capable of producing 1500 GPH of potable water from fresh, brackish, salt, and Nuclear, Biological, and Chemical (NBC) contaminated fresh water. The TWPS is capable of purifying, storing, and dispensing water to meet Tri-Service Field Water Quality Standards for long-term consumption. The TWPS consist of the basic system plus five days of operating supplies and optional extended capability modules for Cold Weather, Ocean Intake, Cleaning preservation and waste disposal, NBC purification and NBC survivability. It is capable of transport by the MTRV truck, (MK23 or MK 25, NSN: 2320-01-465-2174, NSN: 2320-01-465-2176). Forklift pockets and weight allow handling with the standard 5-ton forklift. The TWPS is typically transported with its General Purpose Cover installed.

The TWPS is skid mounted and will interface with all current military standard water storage and supply equipment and systems. It is fully compatible with the standard ISO containers, Army and Marine

Corps Material Handling Equipment (MHE), military standard fuels, lubricants, and power generation equipment.



d. Operational Characteristics. The TWPS can produce drinking water from a broad range of water sources including:

- Fresh water containing dirt (suspended solids) and micro-organisms
- Brackish water containing dirt, micro-organisms and salt
- Seawater containing dirt, micro-organisms and a high concentration of salt
- Freshwater containing nuclear, biological, or chemical warfare (NBC) agents.

The TWPS is designed to produce as much as 1500 gallons per hour (25 GPM) of potable water from a fresh or brackish water source and 1200 gallons per hour (20 GPM) from a seawater source. The TWPS design point of reference is 1500 GPH of potable water from a fresh or brackish water source at 50 degrees F that contains up to 5,000 mg/l TDS (total dissolved solids), and 1200 GPH from seawater source at 50 degrees F that contains 45,000 mg/l TDS. Because water production is a function of water temperature and the type of water being processed, water production will vary with the characteristics of the water source. A summary of production performance with various raw water sources is shown in Table 1.

Table 1. TWPS Water Production Performance Characteristics

RAW WATER CHARACTERISTICS			POTABLE WATER PRODUCTION)
SOURCE	COMPOSITION	TEMPERATURE	
Surface water	Up to 20,000 mg/l TDS and up to 150 NTU	32 to 95° F	1500 GPH
Ground water	Up to 2500 mg/l TDS	32 to 95° F	1500 GPH
Ground water	Over 2500 mg/l TDS and up to 150 NTU	50 to 95° F	1200 GPH
Seawater	35,000 mg/l TDS	32 to 95° F	1200 GPH
Seawater	45,000 mg/l TDS	50 to 95° F	1200 GPH
Seawater	45,000 mg/l TDS	32 to 50° F	1000 GPH
Seawater	60,000 mg/l TDS	77° F	950 GPH

e. Replaced Weapons Systems and Equipment. The TWPS will replace the following existing equipment identified in Table 2.

Table 2. Replaced Weapons Systems and Equipment

TAMCN	NSN	NOMENCLATURE	MODEL NO	ID NO
B2604	4610-01-234-2190	PURIFICATION UNIT, REVERSE OSMOSIS	099-6108-001	08580B
B2604	4610-01-113-8651	PURIFICATION UNIT, REVERSE OSMOSIS	600-3	08580A
B2604	4610-01-295-2719	PURIFICATION UNIT, REVERSE OSMOSIS	WSPES3	08580C

The gaining commands will replace the existing equipment with the TWPS on a two-for-one basis as the TWPS is received. A phase-out plan and disposition instructions will be developed prior to fielding the TWPS.

2. Administrative Information

- a. Nomenclature. Tactical Water Purification System (TWPS)
- b. Table of Authorized Materiel Control Number (TAMCN). B26057BP
- c. Stores Account Code (SAC). 3
- d. National Stock Number (NSN). 4610-01-488-6961
- e. Item Designator (ID). 10802A
- f. Unit of Issue (UI). Each
- g. Unit Cost (UC). \$337,000.00
- h. Support Costs. \$6000.00
- i. Physical Characteristics

Table 3. Physical Characteristics

	Operational Configuration	ISO Storage/Shipping Configuration
Length	13 ft 9 in	20 Ft
Width	7 ft 2 in	8 ft
Height	6 ft ½ in	8 ft
Square	N/A	N/A
Cube	595 cu. ft	1280 cu ft.
Weight	10,000 lbs*	TBD
Stowage		

\*Fully packed out for deployment less fuel and without the extended capability modules.

- j. Petroleum, Oil and Lubricants (POL). (60 kW TQG) Fuel Capacity: 43 gallons.
  - a. Diesel Fuel: DF2, DFA, and JP8.
  - b. Corrosion Inhibitor

**INITIAL DRAFT ULSS 000702-15A**

- c. Glycerin Lubricant
- d. Oil Lubricating, SAE 10W30
- e. Oil Lubricating, Air Compressor
- k. Equipment Density. Normal
- l. Resource Reporting. Yes.
- m. Power Requirements. Power source requirement: 420 to 460 VAC, 3 phase, 60 Hz, 60 kW TQG.
- n. Associated Weapons System and Equipment. The TWPS is used within the Family of Water Supply Support Equipment (WSSE) and the 60KW TQG generator (B10167B) to produce and supply potable water. The Family of WSSE includes all water assets associated with production, storage, and distribution of potable water:

Table 4. Associated Weapons System and Equipment

TAMCN	NOMENCLATURE
B05717B	DRUM, FABRIC, COLLAPSIBLE, 500 GAL. CAP.
B05717B	DRUM, FABRIC, WATER, 500 GAL
B06767B	WATER POINT SUPPLY SYSTEM, FWD AREA
B11407B	HYPOCHLORINATION UNIT, PURIFICATION, 2-100 GPH
B14672E	PIPE FITTING ASSORTMENT, PLASTIC
B15817B	PUMP MODULE, WATER
B15827B	PUMP, WATER, 350 GPM
B16207B	PUMP SET, 125 GPM, 50 FT HEAD
B20867B	STORAGE TANK MODULE, WATER (SIXCON)
B21307B	TANK, FABRIC, COLLAPSIBLE, WATER, 3000 GAL
B21317B	TANK FARM INTERCONNECTION SET, DUAL TANK
B21327B	TANK FARM INTERCONNECTION SET, BAG FILLER
B21337B	TANK FARM INTERCONNECTION SET, 4" HOSE
B21347B	TANK FARM INTERCONNECTION SET, 2" HOSE
B21357B	TANK FARM INTERCONNECTION SET, 4" DISCHARGE HOSE
B21367B	TANK FARM INTERCONNECTION SET, HOSE NOZZLE
B21377B	TANK FARM INTERCONNECTION SET, ACCESSORY KIT
B21387B	TANK FARM INTERCONNECTION SET, 350 GPM PUMP
B21397B	TANK FARM INTERCONNECTION SET, 125 GPM PUMP
B23917B	TACTICAL WATER DISTRIBUTION SYSTEM, PUMP STATION
B23927B	TACTICAL WATER DISTRIBUTION SYSTEM, STORAGE ASSY
B23937B	TACTICAL WATER DISTRIBUTION SYSTEM, DISTR POINT
B23947B	TACTICAL WATER DISTRIBUTION SYSTEM
B23947B	TACTICAL WATER DISTRIBUTION SYSTEM, PUMP 600 GPM
B23957B	TACTICAL WATER DISTRIBUTION SYSTEM, 5 MILE SEGMT
B26057BP	PURIFICATION SYSTEM, WATER, TACTICAL
B26307B	ANALYSIS SET, QUALITY, PURIFICATION, WATER
B26317B	TANK, WATER, 50,000 GAL
B26327B	TANK, WATER, 20,000 GAL
B26327B	TANK ASSEMBLY, WATER, FABRIC, COLLAPSIBLE

TBD	Cold Weather Module
TBD	Cleaning Waste and Storage Module
TBD	Ocean Intake Module
TBD	Nuclear, Biological, and Chemical (NBC) Preservations and Survivability Module
B10167B	60KW 400 HZ TQG Generator

3. Fielding Methodology

a. General Fielding Plan. Horizontal fielding of the TWPS will begin during the 2nd quarter, FY 2005. The TWPS will be shipped directly from the manufacturer’s production plant to owning units. The allowances and projected delivery schedules are reflected as Appendix A to this ULSS.

b. Method of Fielding. There are no requirements for the receiving units to submit requisitions; the TWPS will be force-fed horizontally per Appendix A. Delivery of MPF assets will be linked to the ships projected on-load and off-load schedules.

c. Fielding Responsibilities. Units will place the TWPS and extended modules on administrative deadline until the Materiel Fielding Team (MFT) arrives and conducts a joint inventory and conduct New Equipment Training (NET).

4. Logistics Support

a. Maintenance Support. The TWPS maintenance concept will be consistent with the Marine Corps Integrated Logistics Capability (ILC), current maintenance policies and procedures utilizing common tools and general-purpose test equipment. The TWPS will utilize two levels of maintenance, organizational and intermediate. Organization and Intermediate maintenance will consists of Preventative Maintenance Checks and Services (PMCS), scheduled maintenance, and modular replacement of defective assemblies.

(1) Maintenance Concept. The TWPS will be operated and maintained by the MOS 1171, Hygiene Equipment Operator. The MOS 1171 Hygiene Equipment Operator will operate and maintain the TWPS as specified in appropriate Technical Manuals (TM) and Repair Parts and Special Tools Lists (RPSTL).

(a) Organizational Maintenance. Organizational maintenance consists of operator and unit level maintenance tasks. Operator maintenance consists of Preventive Maintenance Checks and Services (PMCS), scheduled services, operator/maintainer troubleshooting procedures and modular replacement of defective assemblies.

(b) Intermediate Maintenance. Intermediate maintenance consists of the repair and replacement of all major components of the TWPS as authorized by the TM and RPSTL.

(c) Depot Maintenance. There are no requirements for depot maintenance. TWPS components are repaired, rebuilt, or disposed of at the intermediate maintenance level and replacements are requisitioned. Disposition instructions for the TWPS will be requested from MARCORLOGBASES, if required.

(2) Designated Support Depots. N/A

(3) Calibration Requirements. Calibration by an official calibration facility is not anticipated. Coordination with TMDE shall be accomplished (TDS Meter, Product Conductivity Meter, and Main Control Valve require mechanical or manual adjustments, which are referred to in the TM as calibration). TM 10802A-14/1 contains complete procedures for operating and maintaining the TWPS.

b. Contractor Support Requirement.

(1) Interim Contractor Support (ICS). Interim Contractor Support (ICS) will be utilized to support New Equipment Training for the TWPS.

(2) Contractor Logistics Support (CLS). Contractor Logistics Support (CLS) will be utilized to support warranty administration for the TWPS. An option is available within the production contract to obtain field service representatives from the original manufacturer. It is not anticipated that this option will be exercised given the TWPS will be fielded with a Total Fielding package.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. There are no new or additional personnel requirements. The TWPS will be operated and maintained using the current Operator/Maintainer manpower structure for MOS 1171, Hygiene Equipment Operator personnel. The electrical power generating equipment and systems required for the TWPS will be installed, operated, maintained, and repaired using the current manpower structure for MOS 1141, Electrician personnel. Due to the phase-in of the TWPS training, and the phase out of the ROWPU training, Formal School Manpower at the Marine Corps Engineer School (MCES), MCB Camp Lejeune, North Carolina remains unchanged.

(2) Training Requirements. New Equipment Training Teams (NETT) will provide operator and maintenance New Equipment Training (NET) and training materials to the MEFs, Marines Forces Reserves (MARFORRES) and Non-FMF Units during the TWPS fielding.

(a) Initial Training. Personnel from the MCES and selected key personnel from the MEFs and MARFORRES will be provided Instructor and Key Personnel Training.

(b) Schools. TWPS instructions will be incorporated into the appropriate Basic and Journeymen Hygiene Equipment Operator courses, as well as the Utilities Chief and Officers courses at the MCES.

(c) Unit Training. Units are responsible for providing TWPS sustainment training drawing upon the support provided by the MCES. Address technical issues and requests for additional instructional materials to the Commanding Officer, Utilities Instructional Company (UIC), MCES, Camp Lejeune, North Carolina.

(d) Training Quotas. Normal selection procedures for personnel to attend the MCES courses will be followed.

(e) Other Training. Appropriate MCI courses will be updated as necessary to include the TWPS and the Family of Water Supply Support Equipment.

(3) Training Support Items. No special training devices other than the TWPS are required.

d. Supply Support. The TWPS will be supportable through normal DoD supply chain. TACOM will serve as the Primary Inventory Control Point (NICP) in accordance with DoD 4140.26M. Provisioning for both the Army and Marine Corps is being accomplished and shall be in place prior to the TWPS fielding to the Operating Forces. Initial Issue Provisioning was initially projected for the TWPS, however it is anticipated not to be required. Supply support requirements were generated from a detailed analysis of maintenance tasks that identified all resources required for system support. Provisioning technical documentation is being utilized for identification, selection, and determination of initial requirements, cataloging of support items to be procured through the provisioning process. The provisioning data will permit NSN assignment, as required, and the procurement and stockage of high-demand items.

e. Support Equipment. The TWPS is designed to use existing support equipment in the Army and Marine Corps inventory. Any new or peculiar equipment needed to support the TWPS will be procured concurrently with the system. The use of BIT/BITE is planned to provide rapid field diagnosis of failures.

(1) Special Tools. The Special tools and test equipment (TTEL) provides a listing of those peculiar support items for the TWPS that will not be readily available to the TWPS operators and maintainers and must be provisioned for logistics support. The TTEL identifies all special equipment and tools required to inspect, test, calibrate, service, or repair the TWPS assemblies. Special equipment includes special Test Measurement and Diagnostic Equipment (TMDE) required to support the TWPS in its operating environment. A special tool is defined as a tool not listed in the US Army Supply Catalog or the Marine Corps Technical Manuals TM-10200-14 and TM 10510-14. Tools required for Organizational and Intermediate maintenance are included in the tool kits contained within the BII of the TWPS manuals. All of the items listed are also included in the in the Basic Issue Items (BII) as Components of End Item (COEI).

Description	Cage	Part Number
Flow Meter, 0.3 - 3.0 gpm	OU5N7	33901082
R.O. element pusher	OU5N7	33901029
Tool, Air compressor valve head	57328	011365
Wrench, air compressor valve cartridge removal	57328	04455-645 NSN 5120-01-174-4848
Wrench, Air compressor purification chamber	57328	WRH-0005 NSN 5120-01-486-5722
Tool, MF filter bypass	OEXU3	943-08672
Wrench, MF filter housing	OU5N7	33902284

(2) Common Tools. Table below provides listing of common tools utilized with the TWPS.

NOMENCLATURE	PART NUMBER	NSN	TAMCN
General Mechanics Tool Box	55P04051	5180-00-606-3566	C7036
Water Quality Analysis Set -Purification	02524-001	6630-01-477-2395	B2630
Marine Corps Organizational Maintenance Common #1 Tool Set		4910-01-238-8115	
Marine Corps Organizational Maintenance Common #2 Tool Set		4901-01-236-8116	

(3) Special Purpose Test Equipment. N/A

(4) General Purpose Test Equipment. N/A

(5) Application Program Sets and Test Program Sets. N/A

(6) Other Support Equipment. N/A

NOMENCLATURE	PART NUMBER	NSN	TAMCN
Fork Lift, 5-Ton		3930-01-054-3833	
60 KW generator			

f. Technical Publications. Technical manuals (TMs) are stocked, distributed, and maintained via the MCLBA web site. The TWPS manuals required for installation, operation, maintenance, and repair parts are over packed with each system. The TWPS TMs and related TMs numbers and PCN information are:

Table 6. Technical Publications

TM NUMBER	TM TITLE	PCN
TM 10802A-14/1	TACTICAL WATER PURIFICATION SYSTEM 1500 GPH, OPERATION, UNIT MAINTENANCE AND DIRECT SUPPORT MAINTENANCE MANUAL	TBD
TM 10802A-24P/2	TACTICAL WATER PURIFICATION SYSTEM 1500 GPH, RPSTL	TBD
TM 5-6115-545-12	TACTICAL QUIET GENERATOR OPERATING PROCEDURES FOR GENERATOR START UP	

Existing technical manuals and PCN information to be phased out are:

TAMCN	EQUIPMENT ID NUMBER	EQUIPMENT NAME, MODEL, TYPE
B26047B	08085A	WTR PRFCN UNIT RVS OSM TA13225E8940
TM NUMBER	TM TITLE	PCN
SL-3-08580A	WATER PURIFYING UNIT REV OSMOSIS	123 085800 00
SL-3-08580A	CHANGE 01	123 085800 01
SL-3-08580A	CHANGE 02	123 085800 02
SL-3-08580A	CHANGE 03	123 085800 03
SI-4-80850A	WATER PURIFICATION UNIT	124 085800 00
LI-08580A	WATER PURIFICATION UNIT REVERSE OSMOSIS	157 085858 00
MI-08580A-35/1	INSTALL PLYWD SPRT SH WTR PURIF UNIT	160 982889 00
MI-08580A-35/1	CH 01 INSTALL PLYWD SPRT SH WTR PURIF UNIT	160 982889 01
TM-08580A-24P/2	WATER PURIFICATION UNIT REVERSE OSMOSIS	184 079830 00
TM-08580A-24P/2	CH 01	184 079830 01
TM-08580A-24P/2	CH 02	184 079830 02
TM-08580A-10/1	WATER PURIFICATION UNIT REVERSE OSMOSIS 600-1	184 080240 00
TM-08580A-24/2	WATER PURIFICATION UNIT REVERSE OSMOSIS 600 GPH	184 080250 00
EM 0077	WATER PURIFICATION SYSTEMS	380 044960 00

TAMCN	EQUIPMENT ID NUMBER	EQUIPMENT NAME, MODEL, TYPE
<b>B26047B</b>	<b>08085B</b>	<b>WTR PRFCN UNIT RVS OSM TA13225E8940</b>
TM NUMBER	TM TITLE	PCN
SL-3-08580B	WATER PURIFYING UNIT REV OSMOSIS	123 085801 00
SL-3-08580B	CHANGE 01	123 085801 01
SL-3-08580B	CHANGE 02	123 085801 02
SL-3-08580B	CHANGE 03	123 085801 03
LI-08580B-12	WATER PURIFICATION UNIT REVERSE OSMOSIS	157 085859 00
LI-08580C-12	WATER PURIFICATION UNIT REVERSE OSMOSIS	157 085860 00
TM-08580A-24P/2	WATER PURIFICATION UNIT REVERSE OSMOSIS	184 079830 00
TM-08580A-24P/2	CH 01	184 079830 01
TM-08580A-24P/2	CH 02	184 079830 02
TM-08580A-24P/2	CH A	184 079830 50
TM-08580B-24/3 W/CH 1-5	WATER PURIFICATION UNIT REVERSE OSMOSIS 600 GPH1	184 080260 00
TM-08580A-24/2	WATER PURIFICATION UNIT REVERSE OSMOSIS 600 GPH	184 080250 00
TM-08580B-10/1	WATER PURIFICATION UNIT REVERSE OSMOSIS 0966109001	184 080280 00
TM-08580B-10/1	WATER PURIFICATION UNIT REVERSE OSMOSIS CH 01	184 080280 01
TM-08580B-10/1	WATER PURIFICATION UNIT REVERSE OSMOSIS CH 02	184 080280 02

TAMCN	EQUIPMENT ID NUMBER	EQUIPMENT NAME, MODEL, TYPE
<b>B26047B</b>	<b>08085C</b>	<b>WTR PRFCN UNIT RVS OSM TA13225E8940</b>
TM NUMBER	TM TITLE	PCN
SL-3-08580C	WATER PURIFYING UNIT REV OSMOSIS	123 085802 00
SL-3-08580C	CHANGE 01	123 085802 01
SL-3-08580B	CHANGE 02	123 085801 02
LI-08580C-12	WATER PURIFICATION UNIT REVERSE OSMOSIS	157 085860 00
TM-08580C-10/1 M/S	WATER PURIFICATION UNIT REVERSE OSMOSIS WPES-1&2	184 080270 00
TM-08580C-10/1	CHANGE 01	184 080270 01
TM-08580C-10/1	CHANGE 02	184 080270 02
LI-08580C-12	WATER PURIFICATION UNIT REVERSE OSMOSIS	157 085860 00
TM-08580C-24/2	WATER PURIFICATION UNIT REVERSE OSMOSIS	184 080275 00
TM-08580C-24P/3	WATER PURIFICATION UNIT REVERSE OSMOSIS W/CH 01	184 080276 00

g. Computer Resources Support. There is no requirement for computer resource support. The TWPS does not require embedded computers or software for system operations.

h. Facilities. There are no requirements for new or additional facilities required for the fielding of the TWPS. A facility analysis was conducted for the TWPS at the MCES, Camp Lejeune, North Carolina. The findings, conclusions, and recommendations of the facility analysis have been documented in the Trainer Facility Report dated 27 February 2003.

## INITIAL DRAFT ULSS 000702-15A

(1) Existing Facilities. The transition from the ROWPU to the TWPS at the MCES requires a parallel upgrade in the associated facilities that must now support the TWPS. Facility upgrades over and beyond the current site conditions include:

- Additional 799 SF engineered concrete slab
- Additional 500 SF for equipment and storage space
- 36 SF of New Hazardous Materials storage space with associated protective equipment, Material Safety Data Sheets and eyewash station
- Increased Power from 208VAC to 416VAC (468 KVA to 1,000 KVA)
- Increased saltwater demand from 30,000 to 60,000 gallons per 3-hour operation

New cleaning and preservation tanks for filter membranes

(2) New Facilities. N/A

(3) Interim Facilities. Facility upgrades will be worked and coordinated with the MCES and Camp Lejeune personnel to minimize costs, training downtime and maximize use of existing facilities and infrastructure.

i. Packing, Handling, Storage, and Transportation (PHS&T). Special packing, packaging materials, or special containers are not required for the TWPS. There are no requirements for repackaging for shipment and return for repair. The production contractor will provide shipment and storage instructions for short-term, long-term, and controlled humidity storage as well as packaging data for spare parts identified as part of the provisioning process.

(1) Packaging

(a) From the Manufacturer. The TWPS shipments from the manufacturer are preserved and packaged in accordance with the best commercial practices of ASTM D 3951-98 ensuring equipment delivery free from damage. Marking for shipment and storage shall be in accordance with MIL-STD-129.

(b) From the Gaining Command. In the event that a TWPS is required to be returned for repair or returned to stock, etc., the using unit shall be responsible for preservation and packaging of the item(s) in accordance with current policy and procedures of MCO 4030.36, Marine Corps Packing Manual, as directed below:

1 Return to Stock. Items to be returned for stock shall be preserved and packaged to level A requirements.

2 Returns for Repair. Items to be returned for repair shall be to level B requirements.

3 Marking. Marking for shipment and storage shall be in accordance with MIL-STD-129.

(2) Handling. Material Handling Equipment (MHE) is required to load the equipment aboard transportation and to position in the field. Properly preserved and packaged there are no special handling equipment requirements for the TWPS. Handling shall be in accordance with the policy and procedures of MCO 4450.14, Joint Service Manual for Storage and Materials Handling.

(3) Storage. There are no special requirements for storage other than protection from damage and the elements. See TM 10802A-14/1 for long and short-term storage preparation instructions. Storage shall be in accordance with the policy and procedures of MCO 4450.14, Joint Service Manual for Storage and Materials Handling.

(4) Transportation. The TWPS is transportable by all means available to the U.S. Marine Corps (i.e. Ground (Military and Commercial), Air (Military and Commercial), Rail and Marine (Military and Commercial)). The TWPS meets US and NATO countries highway legal limits (when carried by truck);

has military standard lifting and tie down provisions; meets the Gabarit International de Chargement (GIC) equipment gauge rail outline diagram when transported by rail flatcar; and passes the rail impact test. When dismounted from a trailer or truck, the TWPS is transportable by a C-130 fixed wing aircraft or larger aircraft. It is transportable by amphibious craft such as Landing Craft Air Cushioned (LCAC), Landing Craft Utility, Breakbulk, Container, Fast Sealift Transport, and Roll-on-Roll-off ships. Transportation control shall be in accordance with MCO P4600.7 (Marine Corps Transportation Manual) and MCO P4600.14 (Defense Traffic Management Regulation).

j. Transportability and Naval Integration. The TWPS is configured to allow easy transportability by truck, train, ship, or air. The TWPS configuration is a skid-mounted unit and transportable by the MTRV truck (MK-23 or MK-25). Transportable in 8 ft x 8 ft x 20 ft ISO shipping container, the TWPS is externally transportable my CH-53E. CH-53D helicopters and in C-130 or larger aircraft.

k. Warranties. The TWPS is warranted for one year, from the date of acceptance by the Government (DD 250 signed). I MEF, II MEF, and III MEF will coordinate warranty issues with their respective MEF Warranty Administrator. For shipment of failed equipment for warranty work, the unit will request disposition instructions via naval message to xxxx, in accordance with Supply Instruction (SI), SI xxxxx-xx/1. The MEF Warranty Administrators are identified in the following chart.

Warranty Coordinator	Name	Location	Phone	E-mail
I-MEF	Mr. Carl Adams	EG&G Services, Bldg. 2291	760-725-4923	adamscw@1fssg.usmc.mil
I-MEF	Mr. Dave Santos	EG&G Services, Bldg. 2291	760-725-4065	santosda@1fssg.usmc.mil
II-MEF	Mr. Jeff McCracken	FC-286, Rm 131, 2d Maint Bn, MOS, 2d FSSG	910-451-1902 DSN 751-1902	mccrackenjl@2fssg.usmc.mil
II-MEF	Mr. Steve Davis	FC-286, Rm 131, 2d Maint Bn, MOS, 2d FSSG	910-451-1902 DSN 751-1902	davisps@2fssg.usmc.mil
III-MEF	Mr. Joe White	PSC 567 Box 6714 FPO AP 96384-6714	DSN 637-5023	whitejl@3fssg.usmc.mil
III-MEF	Mr. Paul Zackeroff	PSC 567 Box 6714 FPO AP 96384-6714	DSN 637-5023	zackeroffp@3fssg.usmc.mil
Sr. Warranty Coordinator	Mr. Eric Balgoyen	16 Center Street, Stafford, VA 22555	540-288-5932	Eric.Balgoyen@baesystems.com

l. Environmental, Safety, and Health (ESH). The TWPS is a Commercial Item, which conforms to all federal environmental, Safety, and National Fire Protection Agency (NFPA) Standard.

- a. AC-110 Antiscalant
- b. AC-120 Bisulfite
- c. AC-210 Acid Membrane Cleaner
- d. AC-310 Membrane Detergent Cleaner
- e. AC-350 Caustic
- f. Calcium Hypochlorite
- g. Diesel Fuel, JP-8
- h. Corrosion Inhibitor
- i. Glycerin Lubricant
- j. Oil Lubricating, SAE 10W30
- k. Oil Lubricating, Air Compressor

m. Plan of Action & Milestone (POA&M). At the date of current ULSS version, logistics schedules continue to be refined. Outstanding POA&M issues relating to fielding shall be identified as an appendix to this ULSS.

5. Actions Required to Place Equipment in Service

a. Gaining Commands

(1) Notify CG, MARCORSYSCOM (GTES-ES) and COMMARCORLOGBASES (577-1) when new equipment is received.

(2) Perform acceptance inspection upon receipt of equipment and place on Administrative Deadline until NETT arrival.

(3) Account for the new assets per MCO P4400.150E and MCO P4400.82F.

(4) Establish a single POC with authority to resolve any problems encountered during the fielding process. Provide personnel, facilities, and administrative support to assist the NETT during the New Equipment Training (NET).

(5) Ensure that MOS 1171, Hygiene Equipment Operators and MOS 1141, Electricians are available for the NET.

(6) Complete the Gaining Unit Fielding Evaluation Report within 30 days of fielding per MCO 4105.4\_ and TM 4420-15/1\_ and submit to the TWPS Project Officer.

(7) Materiel Defects Reporting. Submit all fit, form, or function deficiencies in accordance with standard Product Quality Deficiency Reporting (PQDR) procedures contained in TM 4700-15/1\_ and MCO 4855.10\_ via the Product Data Reporting and Evaluation Program (PDREP) at <http://www.nslcptsmh.navsea.navy.mil/pdrep/pdrep.htm>. Disposition for the failed item will be furnished to the user based on the PQDR. If web access is not available, PQDR's should be submitted to the PQDR Screening Point via e-mail attachment to <mailto:mbmatcompqdrs@logcom.usmc.mil>. PQDR form is available at website: <http://www.ala.usmc.mil/pqdr/default.asp>. Submit Supply Discrepancy Reports, SF 364, per UM-4400-124 and SECNAVINST 4355.18 (reporting of Item and Packaging Discrepancies) on shortages, overages and packaging and preservation discrepancies. Any damage due to improper packaging will be submitted via SDR procedures. Damage due to shipping discrepancies will be submitted as a Transportation Discrepancy Report, SF361. Damage caused by other than shipping and packaging will be reported on PQDR.

(8) Retrograde of Existing Equipment. Retrograde of the units existing ROWPU equipment, NSN 4610-01-113-8651 is required. MARCORSYSCOM PMM-152 will develop, publish and implement phase out plans, and provide disposition instructions.

(9) Obtaining Supporting Consumables. The TWPS will be shipped with 5 days of supplies (except petroleum package products and fuel) required for operation. The gaining units will budget for and requisition supporting consumables using procedures that are in place for the replaced item.

(10) Security Requirements. No system security requirements and procedures are necessary for product management.

(11) Controlled Item Reporting. The TWPS is not classified as a controlled item.

(12) Marine Corps Ground Equipment Resource Reporting (MCGERR). The TWPS is Marine Corps Bulletin (MCBUL) 3000 reportable.

b. Marine Corps Logistics Command, Albany

- (1) Designate a NETT member and POC.
- (2) Ensure that the current ULSS, TM, and SI are posted on the MCLBA document repository.
- (2) Provide administrative control mechanisms for supply support.
- (3) Initial Issue Provisioning (IIP) projects and documentation are in place prior to fielding.
- (4) Ensure there are no T/E deficiencies associated with the TWPS.

c. MARCORSYSCOM

- (1) Program for funds and budget for the fielding of the TWPS.
- (2) Provide a NETT to conduct NET and introduce the TWPS to the operational forces.
- (3) Coordinate all NETT administrative requirements (billeting, funding, and transportation).
- (4) Transmit a Naval Message to the gaining commands 90 days prior to the NETT arrival, identifying POC, team members, and itinerary.
- (5) Assign a Project Officer to provide on-site control, coordination, and oversight of the entire fielding process, assisting commanders and the manufacturer.
- (6) Ensure allowance data in the Equipment Allowance File is updated and current.
- (7) Ensure Item Data File information is updated and current in the LMIS prior to fielding.
- (8) Provide MARCORLOGBASES, Albany digital signed copies of the ULSS, SI, and TM for posting on documentation repository.
- (9) Maintain life cycle management of the system per MCO 4105.4.

d. Designated SW Support Activity. N/A



**APPENDIX A  
ALLOWANCES AND DELIVERY SCHEDULES  
Tactical Water Purification System (TWPS)**

T/E No	UNIT NAME	UNIT ALLOWANCE	MULT	TOTAL	FY05	FY06	FY07	FY08	FUNDING DELTA	FY TOTAL
7015	DMFA/WRMR, MCLB, ALBANY, GA	21	1	21	1	4		6	10	21
7540	MCENGRSCOL, TRNG COMD, CAMP LEJEUNE, NC	10	1	10	3	7				10
B3341	LDGSPTCO, CSSG-3 (HI)	4	1	4		4				4
H1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS1	6	1	6				6		6
H3252	DET, SPTCO, ENGR SPTBN/MPS1	6	1	6				6		6
H8702	DET, MWSS (FW)/MPS1	4	1	4				4		4
H8703	DET, MWSS(RW)/MPS1	4	1	4				4		4
I1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS2	6	1	6	6					6
I3252	DET, SPTCO, ENGR SPTBN/MPS2	6	1	6	6					6
I8702	DET, MWSS (FW)/MPS2	4	1	4	4					4
I8703	DET, MWSS(RW)/MPS2	4	1	4	4					4
J1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS3	6	1	6		6				6
J3252	DET, SPTCO, ENGR SPTBN/MPS3	6	1	6		6				6
J8702	DET, MWSS (FW)/MPS3	4	1	4		4				4
J8703	DET, MWSS(RW)/MPS3	4	1	4		4				4
M4958	CHEM-BIO INCIDENT RESPONSE FORCE, MARFORLANT	2	1	2	2					2
N3152	ENGRSPTCO, ENGR SPTBN, 1ST FSSG	21	1	21		21				21
N3252	ENGRSPTCO, ENGR SPTBN, 2D FSSG	21	1	21	21					21
N3352	ENGRSPTCO, ENGR SPTBN, 3D FSSG	21	1	21			21			21
N3452	ENGRSPTCO, ENGR SPTBN, 4TH FSSG	21	1	21			14		7	21
N8702	MAR WING SPT SQDN (FW), MWSG, 1ST MAW	4	1	4			4			4
N8703	MAR WING SPT SQDN (RW), MWSG, 1ST MAW	4	1	4			4			4
N8702	MAR WING SPT SQDN (FW), MWSG, 2ND MAW	4	2	8	8					8
N8703	MAR WING SPT SQDN (RW), MWSG, 2ND MAW	4	2	8	8					8
N8702	MAR WING SPT SQDN (FW), MWSG, 3D MAW	4	2	8		8				8
N8703	MAR WING SPT SQDN (RW), MWSG, 3D MAW	4	2	8		8				8
N8702	MAR WING SPT SQDN (FW), MWSG, 4TH MAW	4	2	8			4		4	8
N8703	MAR WING SPT SQDN (RW), MWSG, 4TH MAW	4	2	8			4		4	8
W3250	DET, ENGRSPTBN, FSSG/NALMEB	2	1	2		2				2
W8702	DET, MWSS(FW), MWSG, MAW NALMEB	2	1	2		2				2
W8703	DET, MWSS(RW), MWSG, MAW NALMEB	2	1	2		2				2
	<b>TOTAL</b>			<b>243</b>	<b>63</b>	<b>78</b>	<b>51</b>	<b>26</b>	<b>25</b>	<b>243</b>

**APPENDIX A  
ALLOWANCES AND DELIVERY SCHEDULES  
COLD WEATHER (1 FOR 2) NEW TAMCN PENDING**

T/E No	UNIT NAME	UNIT ALLOWANCE	MULTI	TOTAL	FY05	FY06	FY07	FY08
7015	DMFA/WRMR, MCLB, ALBANY, GA	10	1	10	1	2		3
7540	MCENGRSCOL, TRNG COMD, CAMP LEJEUNE, NC	5	1	5	1	4		
B3341	LDGSPTCO, CSSG-3 (HI)	2	1	2		2		
H1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS1	3	1	3				3
H3252	DET, SPTCO, ENGR SPTBN/MPS1	3	1	3				3
H8702	DET, MVSS (FW)/MPS1	2	1	2				2
H8703	DET, MVSS(RW)/MPS1	2	1	2				2
I1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS2	3	1	3	3			
I3252	DET, SPTCO, ENGR SPTBN/MPS2	3	1	3	3			
I8702	DET, MVSS (FW)/MPS2	2	1	2	2			
I8703	DET, MVSS(RW)/MPS2	2	1	2	2			
J1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS3	3	1	3		3		
J3252	DET, SPTCO, ENGR SPTBN/MPS3	3	1	3		3		
J8702	DET, MVSS (FW)/MPS3	2	1	2		2		
J8703	DET, MVSS(RW)/MPS3	2	1	2		2		
M4958	CHEM-BIO INCIDENT RESPONSE FORCE, MARFORLANT	1	1	1	1			
N3152	ENGRSPTCO, ENGR SPTBN, 1ST FSSG	10	1	10		10		
N3252	ENGRSPTCO, ENGR SPTBN, 2D FSSG	10	1	10	10			
N3352	ENGRSPTCO, ENGR SPTBN, 3D FSSG	10	1	10			10	
N3452	ENGRSPTCO, ENGR SPTBN, 4TH FSSG	10	1	10			3	
N8702	MAR WING SPT SQDN (FW), MVSG, 1ST MAW	4	1	4			4	
N8703	MAR WING SPT SQDN (RW), MVSG, 1ST MAW	4	1	4			4	
N8702	MAR WING SPT SQDN (FW), MVSG, 2ND MAW	4	2	8	8			
N8703	MAR WING SPT SQDN (RW), MVSG, 2ND MAW	4	2	8	8			
N8702	MAR WING SPT SQDN (FW), MVSG, 3D MAW	4	2	8		8		
N8703	MAR WING SPT SQDN (RW), MVSG, 3D MAW	4	2	8		8		
N8702	MAR WING SPT SQDN (FW), MVSG, 4TH MAW	4	2	8			4	
N8703	MAR WING SPT SQDN (RW), MVSG, 4TH MAW	4	2	8			4	
W3250	DET, ENGRSPTBN, FSSG/NALMEB	1	1	1		1		
W8702	DET, MVSS(FW), MVSG, MAW NALMEB	1	1	1		1		
W8703	DET, MVSS(RW), MVSG, MAW NALMEB	1	1	1		1		
	<b>TOTAL</b>			<b>147</b>	<b>39</b>	<b>47</b>	<b>29</b>	<b>13</b>

**APPENDIX A  
ALLOWANCES AND DELIVERY SCHEDULES  
NBC MODULE (1 FOR 1) NEW TAMCN PENDING**

T/E No	UNIT NAME	UNIT ALLOWANCE	MULT	TOTAL	FY05	FY06	FY07	FY08	FUNDING DELTA	FY TOTAL
7015	DMFA/WRMR, MCLB, ALBANY, GA	21	1	21	1	4		6	10	21
7540	MCENGRSCOL, TRNG COMD, CAMP LEJEUNE, NC	10	1	10	3	7				10
B3341	LDGSPTCO, CSSG-3 (HI)	4	1	4		4				4
H1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS1	6	1	6				6		6
H3252	DET, SPTCO, ENGR SPTBN/MPS1	6	1	6				6		6
H8702	DET, MWSS (FW)/MPS1	4	1	4				4		4
H8703	DET, MWSS(RW)/MPS1	4	1	4				4		4
I1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS2	6	1	6	6					6
I3252	DET, SPTCO, ENGR SPTBN/MPS2	6	1	6	6					6
I8702	DET, MWSS (FW)/MPS2	4	1	4	4					4
I8703	DET, MWSS(RW)/MPS2	4	1	4	4					4
J1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS3	6	1	6		6				6
J3252	DET, SPTCO, ENGR SPTBN/MPS3	6	1	6		6				6
J8702	DET, MWSS (FW)/MPS3	4	1	4		4				4
J8703	DET, MWSS(RW)/MPS3	4	1	4		4				4
M4958	CHEM-BIO INCIDENT RESPONSE FORCE, MARFORLANT	2	1	2	2					2
N3152	ENGRSPTCO, ENGR SPTBN, 1ST FSSG	21	1	21		21				21
N3252	ENGRSPTCO, ENGR SPTBN, 2D FSSG	21	1	21	21					21
N3352	ENGRSPTCO, ENGR SPTBN, 3D FSSG	21	1	21			21			21
N3452	ENGRSPTCO, ENGR SPTBN, 4TH FSSG	21	1	21			14		7	21
N8702	MAR WING SPT SQDN (FW), MWSG, 1ST MAW	4	1	4			4			4
N8703	MAR WING SPT SQDN (RW), MWSG, 1ST MAW	4	1	4			4			4
N8702	MAR WING SPT SQDN (FW), MWSG, 2ND MAW	4	2	8	8					8
N8703	MAR WING SPT SQDN (RW), MWSG, 2ND MAW	4	2	8	8					8
N8702	MAR WING SPT SQDN (FW), MWSG, 3D MAW	4	2	8		8				8
N8703	MAR WING SPT SQDN (RW), MWSG, 3D MAW	4	2	8		8				8
N8702	MAR WING SPT SQDN (FW), MWSG, 4TH MAW	4	2	8			4		4	8
N8703	MAR WING SPT SQDN (RW), MWSG, 4TH MAW	4	2	8			4		4	8
W3250	DET, ENGRSPTBN, FSSG/NALMEB	2	1	2		2				2
W8702	DET, MWSS(FW), MWSG, MAW NALMEB	2	1	2		2				2
W8703	DET, MWSS(RW), MWSG, MAW NALMEB	2	1	2		2				2
	<b>TOTAL</b>			<b>243</b>	<b>63</b>	<b>78</b>	<b>51</b>	<b>26</b>	<b>25</b>	<b>243</b>

**APPENDIX A  
ALLOWANCES AND DELIVERY SCHEDULES  
CLEANING AND PRESERVATION (1 FOR 2) NEW TAMCN PENDING**

T/E No	UNIT NAME	UNIT ALLOWANCE	MULTI	TOTAL	FY05	FY06	FY07	FY08
7015	DMFA/WRMR, MCLB, ALBANY, GA	10	1	10	1	2		3
7540	MCENGRSCOL, TRNG COMD, CAMP LEJEUNE, NC	5	1	5	1	4		
B3341	LDGSPTCO, CSSG-3 (HI)	2	1	2		2		
H1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS1	3	1	3				3
H3252	DET, SPTCO, ENGR SPTBN/MPS1	3	1	3				3
H8702	DET, MWSS (FW)/MPS1	2	1	2				2
H8703	DET, MWSS(RW)/MPS1	2	1	2				2
I1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS2	3	1	3	3			
I3252	DET, SPTCO, ENGR SPTBN/MPS2	3	1	3	3			
I8702	DET, MWSS (FW)/MPS2	2	1	2	2			
I8703	DET, MWSS(RW)/MPS2	2	1	2	2			
J1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS3	3	1	3		3		
J3252	DET, SPTCO, ENGR SPTBN/MPS3	3	1	3		3		
J8702	DET, MWSS (FW)/MPS3	2	1	2		2		
J8703	DET, MWSS(RW)/MPS3	2	1	2		2		
M4958	CHEM-BIO INCIDENT RESPONSE FORCE, MARFORLANT	1	1	1	1			
N3152	ENGRSPTCO, ENGR SPTBN, 1ST FSSG	10	1	10		10		
N3252	ENGRSPTCO, ENGR SPTBN, 2D FSSG	10	1	10	10			
N3352	ENGRSPTCO, ENGR SPTBN, 3D FSSG	10	1	10			10	
N3452	ENGRSPTCO, ENGR SPTBN, 4TH FSSG	10	1	10			3	
N8702	MAR WING SPT SQDN (FW), MWVG, 1ST MAW	4	1	4			4	
N8703	MAR WING SPT SQDN (RW), MWVG, 1ST MAW	4	1	4			4	
N8702	MAR WING SPT SQDN (FW), MWVG, 2ND MAW	4	2	8	8			
N8703	MAR WING SPT SQDN (RW), MWVG, 2ND MAW	4	2	8	8			
N8702	MAR WING SPT SQDN (FW), MWVG, 3D MAW	4	2	8		8		
N8703	MAR WING SPT SQDN (RW), MWVG, 3D MAW	4	2	8		8		
N8702	MAR WING SPT SQDN (FW), MWVG, 4TH MAW	4	2	8			4	
N8703	MAR WING SPT SQDN (RW), MWVG, 4TH MAW	4	2	8			4	
W3250	DET, ENGRSPTBN, FSSG/NALMEB	1	1	1		1		
W8702	DET, MWSS(FW), MWVG, MAW NALMEB	1	1	1		1		
W8703	DET, MWSS(RW), MWVG, MAW NALMEB	1	1	1		1		
	<b>TOTAL</b>			<b>147</b>	<b>39</b>	<b>47</b>	<b>29</b>	<b>13</b>

**APPENDIX A  
ALLOWANCES AND DELIVERY SCHEDULES  
OCEAN INTAKE (1 FOR 2) NEW TAMCN PENDING**

T/E No	UNIT NAME	UNIT ALLOWANCE	MULTI	TOTAL	FY05	FY06	FY07	FY08
7015	DMFA/WRMR, MCLB, ALBANY, GA	10	1	10	1	2		3
7540	MCENGRSCOL, TRNG COMD, CAMP LEJEUNE, NC	5	1	5	1	4		
B3341	LDGSPTCO, CSSG-3 (HI)	2	1	2		2		
H1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS1	3	1	3				3
H3252	DET, SPTCO, ENGR SPTBN/MPS1	3	1	3				3
H8702	DET, MWSS (FW)/MPS1	2	1	2				2
H8703	DET, MWSS(RW)/MPS1	2	1	2				2
I1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS2	3	1	3	3			
I3252	DET, SPTCO, ENGR SPTBN/MPS2	3	1	3	3			
I8702	DET, MWSS (FW)/MPS2	2	1	2	2			
I8703	DET, MWSS(RW)/MPS2	2	1	2	2			
J1322	DET, ENGRSPTCO, CMBT ENGRBN, MARDIV/MPS3	3	1	3		3		
J3252	DET, SPTCO, ENGR SPTBN/MPS3	3	1	3		3		
J8702	DET, MWSS (FW)/MPS3	2	1	2		2		
J8703	DET, MWSS(RW)/MPS3	2	1	2		2		
M4958	CHEM-BIO INCIDENT RESPONSE FORCE, MARFORLANT	1	1	1	1			
N3152	ENGRSPTCO, ENGR SPTBN, 1ST FSSG	10	1	10		10		
N3252	ENGRSPTCO, ENGR SPTBN, 2D FSSG	10	1	10	10			
N3352	ENGRSPTCO, ENGR SPTBN, 3D FSSG	10	1	10			10	
N3452	ENGRSPTCO, ENGR SPTBN, 4TH FSSG	10	1	10			3	
N8702	MAR WING SPT SQDN (FW), MWVG, 1ST MAW	4	1	4			4	
N8703	MAR WING SPT SQDN (RW), MWVG, 1ST MAW	4	1	4			4	
N8702	MAR WING SPT SQDN (FW), MWVG, 2ND MAW	4	2	8	8			
N8703	MAR WING SPT SQDN (RW), MWVG, 2ND MAW	4	2	8	8			
N8702	MAR WING SPT SQDN (FW), MWVG, 3D MAW	4	2	8		8		
N8703	MAR WING SPT SQDN (RW), MWVG, 3D MAW	4	2	8		8		
N8702	MAR WING SPT SQDN (FW), MWVG, 4TH MAW	4	2	8			4	
N8703	MAR WING SPT SQDN (RW), MWVG, 4TH MAW	4	2	8			4	
W3250	DET, ENGRSPTBN, FSSG/NALMEB	1	1	1		1		
W8702	DET, MWSS(FW), MWVG, MAW NALMEB	1	1	1		1		
W8703	DET, MWSS(RW), MWVG, MAW NALMEB	1	1	1		1		
	<b>TOTAL</b>			<b>147</b>	<b>39</b>	<b>47</b>	<b>29</b>	<b>13</b>



APPENDIX B

SCHEDULE OF EVENTS

TACTICAL WATER PURIFICATION SYSTEM (TWPS)

Event	Event Date
Draft ULSS Posted For Review	30 April 2004
Production/Procurement Decision	29 March 2004
Instruction Training Package	Currently Ongoing
Final ULSS Signed	15 August 2004
Initial Fielding	November 2004
NETT First Instruction	November 2004
Initial Operational Capability	4 <sup>th</sup> Qtr FY05
Full Operational Capability	1 <sup>st</sup> Qtr FY08

Update: Successful completion of TWPS Technical Manual™ review conducted from 040223-040305 at Frederick Maryland, and cold weather test conducted from 040209-040216 in Aberdeen Maryland.