DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

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MARINE CORPS ORDER 1543.11

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN FOR THE LIFE PRESERVER, VEST

Encl: (1) Materiel Fielding Plan for the Life Preserver, Vest

1. Purpose. Enclosure (1) is provided as information and instructions concerning the fielding of the Life Preserver, Vest.

2. Information. The Life Preserver, Vest is a lightweight, manportable life preserver that is certified for use by the U.S. Navy and is compatible with the Marine Corps' Underwater Breathing Apparatus (UBA) and other closed circuit diving equipment.

3. Action. The commanders of each organizational element concerned shall ensure implementation of the provisions of this Order.

4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

J. A. BRABHAM
By direction

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MATERIEL FIELDING PLAN

FOR THE

LIFE PRESERVER, VEST

1. Introduction. Initial Operational Capability for the Life Preserver, Vest is 2d Qtr, FY 93. Desired Full Operational Capability is 4th Qtr, FY 93.

a. Source of Requirement. CG MCCDC msg 252000Z dtd Jul 90 validated the requirement to field additional Special Operation Capable equipment which is needed to support the Underwater Breathing Apparatus (UBA). The U.S. Navy's SECUMAR TSK 2/42 life preserver meets the Marine Corps' need, and is the only life preserver authorized by the U.S. Navy for closed circuit diving. The Marine Corps will refer to the Vest as the Life Preserver, Vest (TAMCN K4516IIEP), which is its full nomenclature title, as per Letter of Adoption and Procurement No. 64-90. The Vest already meets the requirement of compatibility with the and other closed circuit diving equipment and has an assigned national Stock Number.

b. Points of Contact

Name	Command/Telephone
GySgt R. R. Scriven	Project Officer Diving Equipment MARCORSYSCOM C2IA Quantico, VA 22134-5010. AV/DSN: 278-2275 COML: (703) 640-2912
Maj K. B. Thompson	ILS Officer Diving Equipment MARCORSYSCOM C2IL Quantico, VA 22134-5010 AV/DSN: 278-2234 COML: (703) 640-2266
Mrs. S. L. Baron	Asstn ILS Officer Diving Equipment MARCORSYSCOM C2IL Quantico, VA 22134-5010 AV/DSN: 278-2234 COML: (703) 640-2234

Mr. T. Linden — Equipment Specialist
Diving Equipment
MARCORLOGBASES
(Code 835-1)
Albany, GA 31704-5000
AV/DSN: 567-6534
COML: (912) 439-6534

Mr. Greenleaf — Inventory Manager
Diving Equipment
MARCORLOGBASES
(Code 835-1)
Albany, GA 31704-5000
AV/DSN: 567-6534
COML: (912) 439-6534

c. Fielding Methodology

(1) General Fielding Plan. The Life Preserver, Vest will be fielded vertically as shown in appendix A. See appendix B for the Schedule of Events.

(2) Method of Fielding. The initial issue quantities of the Life Preserver, Vests will be provided by the Marine Corps Systems Command and distributed in the quantities as indicated in appendix A. The vest will be fielded in conjunction with the UBA.

d. Replaced Systems/Equipment. The Life Preserver, Vest is not replacing any system or component.

2. System Description

a. Administrative Information

(1) Nomenclature Life Preserver, Vest

(2) TAMCN K4516IIE

(3) Stores Account Code (SAC) 1

(4) NSN 4220-01-263-1988

(5) Unit of Issue Each

(6) Unit Cost $1280 (est)

(7) Support Cost N/A

(8) Petroleum, Oil and Lubricants N/A

(9) Equipment Density Normal

(10) Readiness Reporting N/A

(11) Identification Number 09602A

b. Physical Characteristics. A drawing of the Life Preserver, Vest is provided as Figure 1-1.

	Operational Configuration	Storage/Shipping Configuration
(1) Length	30 in	30 in
(2) Width	43 in	43 in
(3) Height	3 in	3 in
(4) Square	9 ft(2)	9 ft(2)
(5) Cube	2.24 ft(3)	2.24 ft(3)
(6) Weight	8 lbs	8 lbs
(7) Stowage	2.24 ft(3)	2.24 ft(3)

(8) Power Requirements N/A

c. Operational Characteristics. The Life Preserver, Vest is an inflatable life preserver with waist and crotch straps, and two high pressure air cylinders located in the wing of the buoyancy chamber under each arm of the diver. Each bottle contains approximately 0.215 liters and 200 bar each. The Vest was designed to be used as a life jacket, rescue/escape item, or as a buoyancy compensator.

d. Associated Systems/Equipment. The Life Preserver, Vest is authorized for use with the LAR V UBA, TAMCN C4185 to a depth of 50 feet. The tools needed to maintain the Vest are located in both the Tool Set, Shop, Oxygen Equipment, TAMCN K4994 and the UBA Deployable Tool Set, TAMCN K4999. The Vest will be repaired in the oxygen safe room which is part of the Oxygen Transfer Pump System (OTPS), TAMCN C2276.

3. Logistic Support

a. Maintenance Support. The Life Preserver, Vest requires up to third echelon maintenance by the using and owning units. Maintenance personnel will follow the maintenance actions as specified in the respective Maintenance Requirement Card (MRC), Technical Manual (TM) SS500-AR-OMI-010/9N865, OPNAV 4790.4B, MCO 4790.2, and local maintenance management Standard Operating Procedures.

{li MCOFH001.gif:Figure 1-1, Life Preserver, Vest}

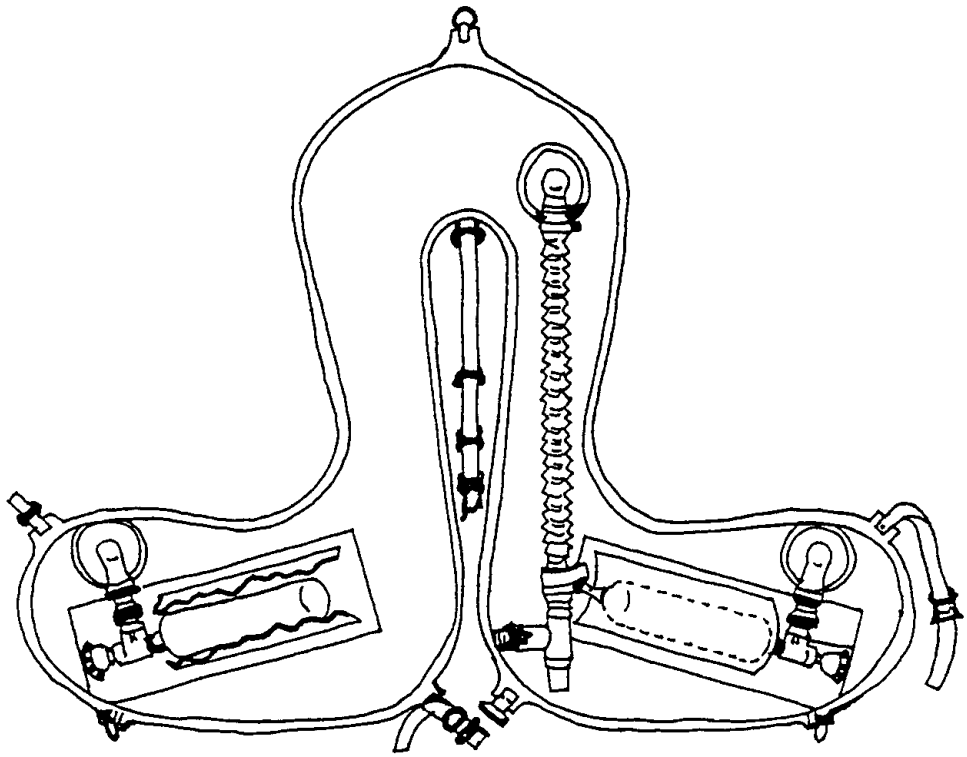

Figure 1-1 Life Preserver, Vest

(1) First Echelon Maintenance (Organizational Level). All users/operators of the Life Preserver, Vest are required to perform the basic care, cleaning and inventorying requirements. The Vest should always be checked for wear, possible leaks and tears before, during and after its use. The Vest should be thoroughly cleaned to remove any debris, rinsed with fresh water and dried before storage. It is recommended that the Vest be stored on a hanger to prevent rotting or mildew.

(2) Second Echelon Maintenance (Organizational Level). Second echelon maintenance on the Life Preserver, Vest should be performed by a qualified diver (MOS 8653) and should include the procedures as specified on the respective MRC's and the TM.

(3) Third Echelon Maintenance (Intermediate Level). Intermediate level maintenance must be performed by a Reconnaissance Man, Scuba Qualified (MOS 8653) who has attended the 3 day manufacturer's course prior to performing repairs at this level. If a Vest requires repair above this level of maintenance, it should be sent to supply for disposal and a replacement Vest should be requisitioned. Maintenance personnel should refer to the Source, Maintenance, and Recoverability coding in the repair parts section of the TM to determine which repairs have been designated as third echelon.

(4) Fourth Echelon N/A

(5) Fifth Echelon N/A

b. Contractor Support Requirements

(1) Depot Support N/A

(2) Interim Contractor Support (ICS) N/A

c. Manpower, Personnel, and Training

(1) Manpower Requirements. No additional manpower is required.

(2) Personnel or Maintenance Requirements. MOS's that are currently in the Fleet Marine Force will be used to operate and maintain the Life Preserver, Vest. Each Vest can be operated by one Marine with any MOS, although only an 8653 MOS Marine who has completed additional training should be authorized to maintain the Life Preserver, Vest.

(3) Training Requirements. In order to be qualified to operate or maintain diving equipment used in special operations, a Marine with any MOS must first attend Amphibious Reconnaissance School to receive the secondary MOS of 0321, Reconnaissance Man. An 0321 MOS Marine should then attend the

Army's Special Forces Combat Diver's course in Key West, Florida to obtain an additional 8653 MOS Reconnaissance Man, Scuba Qualified. A Marine with an 8653 MOS is qualified to perform first and second echelon maintenance on the Life Preserver, Vest. In order to become qualified to perform third echelon maintenance on the Vest, an 8653 MOS should attend a 3 day manufacturer's course at National Draegar, Pittsburgh, PA.

(4) Training Requirements. There are no new training support items required. Both LFTLant and LFTCPac Amphibious Reconnaissance School/Course will receive one Life Preserver, Vest for demonstration purposes.

d. Supply Support

(1) Provisioning. Provisioning for the Vest has been accomplished by the U.S. Navy.

(2) Replenishment. To order spares, or procure a completely new Vest, a supply requisition (DD 1348) should be submitted to the following source of supply:

SPCC Mechanicsburg, PA //N35//
Navy Ships Parts Control Center
Navy Material
Mechanicsburg, PA 17055

(3) Government Furnished Equipment N/A

e. Support Equipment

(1) Tools. The tools needed to maintain the Vest can found in either the UBA Deployable Tool Set (see SL-3-09659A) and/or the Tool Set, Shop, Oxygen Equipment (see SL-3-09658A). A list of the tools which are specifically needed for the Life Preserver, Vest is provided below. Only these tools should be used on the Life Preserver, Vest. Because all of these tools have been chosen to maintain oxygen transferring equipment, they should only be used in an oxygen safe environment. Special care and control should be taken to ensure that the tools are not used to maintain any other equipments outside of their intended use.

Nomenclature	NSN/Part Number	Qty	Echelon
Adapter, SECUMAR Supply Valve	V07876	1	1 - 3
Brush, Paint	8020-00-297-6658	1	1 - 3
Brush, Test Tube	7920-00-125-7854	1	1 - 3
Crowfoot Attachment	5120-01-074-7558	1	1 - 3
Lifter	4220-01-164-4999	1	1 - 3

Light, Diagnostic-Examination	6530-00-480-8286	1	1 - 3
Pliers, Slip Joint	5120-00-624-8065	1	1 - 3
10-Pad, Plier Jaw	5120-00-157-3660	1	1 - 3
Pliers, Retaining Ring	5120-00-595-9555	1	1 - 3
Pliers, Retaining Ring	5120-00-293-0045	1	1 - 3
Screwdriver, Flat-Tip	5120-00-287-2505	1	1 - 3
SECUMAR Filling Adapter	5120-01-045-4876	1	1 - 3
Test Assembly, MPV	4050379	1	1 - 3
Tool Kit (to include):	4220-01-164-5003	1	1 - 3
1-Allen Wrench	4220-01-170-7229	1	1 - 3
1-Combination Wrench	4220-01-170-9508	1	1 - 3
1-Combination Wrench	4220-01-170-9502	1	1 - 3
1-Open Wrench	4220-01-170-7231	1	1 - 3
1-Regulator Adjustment Tool	4220-01-170-7141	1	1 - 3
1-Screwdriver	4220-01-170-9509	1	1 - 3
1-Spanner Wrench	5120-01-170-9515	1	1 - 3
1-Tool Pouch	T11816	1	1 - 3
1-Wrench, Combination	16193357	1	1 - 3
Ultrasonic Cleaning System	952-514	1	1 - 3
Vise, Bottle, Bottom	R41422	1	1 - 3
Vise, Bottle, Top	R41425	1	1 - 3
Wrench, Torque	5120-01-107-3733	1	1 - 3

(2) Special Tools N/A

(3) Common Tools. All the tools which are needed to maintain the Life Preserver, Vest are in the UBA Deployable Tool Set or Tool Set, Shop, Oxygen Equipment.

(4) Special Purpose Test Equipment (SPTE). See appendix C for SPTE Distribution Schedule. The following SPTE item is required for checking the Vest for air leaks:

Nomenclature	Part Number/NSN	TAMCN
Test Kit, Bellows	4054156	N/A

(5) General Purpose Test Equipment N/A

(6) Test Program Sets N/A

(7) Other Support Equipment N/A

f. Technical Publications (TP)

(1) The USN TM SS500-AR-OMI-010/9N865, which has a USMC PCN of 20701272100 should be used as the primary TP to support the Vest, with the exception of the component parts and tools lists. Although the USN TM is an operation and

maintenance instructions manual, the component parts and tools which are listed in either the SL-3-09658A or SL-3-09659A are more current and have precedence.

(2) Each Life Preserver, Vest is overpacked with a commercial user's manual which describes how to use and maintain the Vest. The USN TM takes precedence over the commercially provided manual concerning any differences which may occur between the two manuals.

g. Computer Resources Support. N/A

h. Facilities. An oxygen safe room is needed as a maintenance shelter for the Vest. The OTPS should be used to fill this need. Although the Vest does not need to be maintained in an oxygen safe room, the tools needed to maintain the Vest are used to maintain oxygen transferring equipment (i.e., UBA), therefore the tools must always be used in the oxygen safe room when performing maintenance on the Vest.

i. Packaging, Handling, Storage, and Transportation

(1) Packaging. There are no special packaging requirements for the Life Preserver, Vest.

(2) Handling. Care should be taken when handling the compressed air cylinders on the Vest to prevent accidental rupture or breakage of the air valve.

(3) Storage. The Life Preserver, Vest should be stored in a cool, dry environment to control humidity and corrosion.

(4) Transportability. The compressed air cylinders need to be properly marked in order to meet Department of Transportation requirements for the transport of compressed air.

j. Warranties

(1) There is no warranty for the Life Preserver, Vest.

4. Actions Required to Place Equipment in Service

a. Gaining Commands

(1) Actions to Place Item in Service

(a) Ensure an oxygen safe room is available at the using activities so that maintenance can be performed.

(b) The Tool Set, Shop, Oxygen Equipment and the UBA Deployable Tool Set must be onhand so maintenance can be completed on the Vest.

(c) The TM SS500-AR-OMI-010/9N865 should be onhand prior to operating or maintaining the Vest.

(d) Ensure MOS 8653 personnel meet the training requirements as specified in paragraph 3c(3) of this document.

(e) Request authorization to place the item in service from the appropriate Commanding General (FMFLant/FMFPac, 4th MarDiv) when all the requirements are met.

(2) Materiel Defects Reporting. If any of the items are missing, arrive damaged, or become deficient from other than normal wear and tear, a Quality Deficiency Report SF 368, should be completed in accordance with MCO 4855.10A and submitted to the following address:

COMMARCORLOGBASES
Code 808-1
Albany, GA

(3) Retrograde of Existing Equipment. Disposition instructions should be requested by the using unit in order to dispose of any excess life preservers.

b. COMMARCORLOGBASES, Albany, GA. Provide assistance in the life cycle management of the Life Preserver, Vest.

LIST OF ALLOWANCES AND DELIVERY SCHEDULE

ACTIVE FORCES

T/E NO.	UNIT TITLE	NO. UNITS	UNIT ALLOW	PLANNED FY 93 QTR 1 2	3 4
7441	MARCORSYSCOM (C2IA)	1	7	7	
N1412	Recon Co, 1st Inf Regt, 1st MarDiv	1	40	40	
N1412	Recon Co, 5th Inf Regt, 1st MarDiv	1	40	40	
N1422	Recon Co, 2d Inf Regt, 2d MarDiv	1	40	40	
N1422	Recon Co, 6th Inf Regt, 2d MarDiv	1	40	40	
N1432	Recon Co, 4th Inf Regt, 3d MarDiv	1	40	40	
N1432	Recon Co, 9th Inf Regt, 3d MarDiv	1	40	40	
N4618	Force Recon Co, 1st SRI Group	1	80		80
N4718	Force Recon Co, 2d SRI Group	1	80		80
N4818	Force Recon Co, 3d SRI Group	1	30		30

RESERVE FORCES

T/E NO.	UNIT TITLE	NO. UNITS	UNIT ALLOW	PLANNED FY 93 QTR 1 2	3 4
N1442	Recon Co, Inf Regt, 4th MarDiv	2	20		40
M4623	Force Recon Co, 4th MarDiv	1	40		40

Total: 517

Appendix A to
ENCLOSURE (1)

SCHEDULE OF EVENTS

EVENT	DATE
MFP Published	1st Qtr FY 93
Begin Fielding	2d Qtr FY 93
Initial Operating Capability	2d Qtr FY 93
Initiating Service Date	2d Qtr FY 93
Full Operational Capability	4th Qtr FY 93

DISTRIBUTION SCHEDULE FOR SPECIAL PURPOSE TEST EQUIPMENT

The test kit, bellows, part number 4054156, is located in both the UBA Deployable Tool Set (TAMCN K4999) and the Tool Set, Shop, Oxygen Equipment (TAMCN K4994). Both tool sets will be fielded prior to the fielding of the Life Preserver, Vest.