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HEADQUARTERS UNITED STATES MARINE CORPS  
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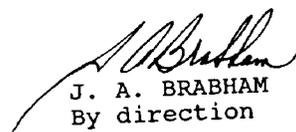
MARINE CORPS ORDER 5090.3

From: Commandant of the Marine Corps  
To: Distribution List

Subj: MATERIEL FIELDING PLAN FOR THE REFRIGERANT RECOVERY AND  
RECYCLING STATION

Encl: (1) Materiel Fielding Plan for the Refrigerant Recovery  
and Recycling Station

1. Purpose. The enclosure provides information to the FMF Commanders regarding support and service placement of the Refrigerant Recovery and Recycling Station.
2. Information. The Refrigerant Recovery and Recycling Station is designed to economically recover and recycle chlorofluorocarbon (CFC) (refrigerant R-12), and hydrochlorofluorocarbons (HCFC) (refrigerant R-22) used in Marine Corps air conditioners and refrigeration equipment. The purpose of the unit is to prevent the release of CFC's and HCFC's into the atmosphere, and provide a source of reusable refrigerant.
3. Action. The gaining and supporting commands are responsible for performing the actions specified in paragraph 4 of the enclosure.
4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

  
J. A. BRABHAM  
By direction

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106, 144, 176/7256040/8145001 (1)

MATERIEL FIELDING PLAN  
FOR THE  
REFRIGERANT RECOVERY AND RECYCLING STATION

1. Introduction

a. Source of Requirement. Environmental Protection Agency (EPA) statute addresses the prevention of the release of chloro-fluorocarbons (CFC) and hydrochlorofluorocarbons (HCFC) into the atmosphere. The Refrigerant Recovery and Recycling Station is designed to economically recover and recycle CFC's (refrigerant R-12) and HCFC's (refrigerant R-22) used in Marine Corps air conditioners and refrigeration equipment.

b. Points of Contact. Assistance of an operational, technical or logistical nature can be obtained by calling the appropriate number listed below.

<u>TITLE</u>	<u>ADDRESS (CODE)</u>	<u>TELEPHONE</u>
Program Manager	MARCORSYSCOM (SSE) QUANTICO VA 22134-5010	DSN 278-2241 (703) 640-2241
Project Officer	MARCORSYSCOM (SSE-UT) QUANTICO VA 22134-5010	DSN 278-2242 (703) 640-2242
Inventory Manager	COMMARCORLOGBASES (CODE 837-1) ALBANY GA 31704-1128	DSN 567-5405 (912) 539-5405
Equipment specialist	COMMARCORLOGBASES (CODE 837-1) ALBANY GA 31704-1128	DSN 567-5405 (912) 539-5405

c. Fielding Methodology

(1) General Fielding Plan. The Refrigerant Recovery and Recycling Station will be vertically fielded in the FMF. Fielding began in the first quarter of FY93. Appendix A contains the fielding schedules.

ENCLOSURE (1)

(2) Method of Fielding. Except for the Reserve Forces and Maritime Prepositioning Shipping (MPS), the using units will be force-fed the Refrigerant Recovery and Recycling Station. Reserve Forces and MPS will requisition the Refrigeration Unit or Recycling Station from Commander, Marine Corps Logistics Bases (COMMARCORLOGBASES), Albany, GA. All other deliveries will be made by COMMARCORLOGBASES, Albany, GA directly to the using units.

d. Replaced Systems Equipment. The Refrigerant Recovery and Recycling Station is categorized as new equipment, and does not replace any existing systems.

2. System Description

a. Administrative Information

(1) Nomenclature: Refrigerant Recovery and Recycling Station

(2) TAMCN: B 1713 VII B

(3) Stores Account Code: 1

(4) NSN: 4130-01-338-2707

(5) Unit of Issue: 1 each

(6) Unit Cost: \$4,370.06

(7) Support Cost: None

(8) Petroleum, Oil, and Lubricants: None

(9) Equipment Density: Normal

(10) Readiness Reporting: To be determined

b. Physical Characteristics

	<u>Operational Configuration</u>	<u>Storage/Shipping Configuration</u>
(1) Length:	25 in	25 in
(2) Width:	23 in	23 in
(3) Height:	45 in	45 in

ENCLOSURE (1)

(4) Square:	4.0 sq ft	4.0 sq ft
(5) Cube:	14.97 cu ft	14.97 cu ft
(6) Weight:	165 lbs	165 lbs
(7) Stowage:	N/A	N/A
(8) Power Requirements:	Hz - 60 Kw - .6	Hz - 60 Kw - .6

c. Operational Characteristics

(1) The Refrigerant Recovery and Recycling Station is designed to economically recover and recycle CFC's (refrigerant R-12) and HCFC's (refrigerant R-22) used in Marine Corps air conditioners and refrigeration equipment. The purpose of the unit is to prevent the release of CFC's and HCFC's into the atmosphere and provide a source of reusable refrigerant.

(2) Specific features of the Refrigerant Recovery and Recycling Station include a portable two wheel cart design with a heavy duty 3/4 horsepower hermetic compressor that includes a heated oil separator that pulls refrigerant from the system, and will automatically shut off when system is complete. Other characteristics include a high capacity liquid pump that recirculates refrigerant through the filter/drier cores providing maximum moisture and acid removal for continuous loop recycling operation. The filter drier cores can recycle up to 600 pounds of refrigerant before replacement is required. Additional features include a storage tank full light, moisture indicator, high pressure light with automatic high pressure cut-off switch, and two refillable 50 pound refrigerant tanks Department of Transportation approved for rotation during recovery-recycling operations.

(3) This item will be used by organizations that repair tactical air conditioning and refrigeration equipment. It is not intended for all organizations that possess air conditioners and refrigeration equipment.

d. Associated Systems/Equipment. None.

3. Logistics Support

a. Maintenance Support. The Refrigerant Recovery and Recycling Station is managed by S9G. Limited repair parts support is provided by the Defense Logistics Agencies or through open purchase at the using unit level.

ENCLOSURE (1)

(1) First Echelon. First echelon maintenance will be conducted by the owning/using unit. It includes the proper care, cleaning, storage, operation, replacement of component items, preservation, lubrication, adjustment, and operational checks as prescribed by appropriate user manuals and TM's.

(2) Second Echelon. Second echelon maintenance will consist of performing continuity checks on the components of the Refrigerant Recovery and Recycling Station to ensure it is properly functioning as prescribed by appropriate user manuals and TM's.

(3) Third Echelon. Third echelon maintenance is not applicable with this system.

(4) Fourth Echelon. Fourth echelon maintenance is not applicable with this system.

b. Contractor Support Requirements

(1) Depot Support: Not applicable.

(2) Interim Contractor Support: Not applicable.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. Refrigeration Mechanic (MOS 1161) will perform the jobs required for installation, operation, maintenance, and repair on the Refrigerant Recovery and Recycling Station.

(2) Training Requirements. Operators will require certification to operate this equipment in accordance with the EPA regulations. Currently, certification on this equipment is achieved via the Army School, Fort Belvoir, VA. The Marine Corps Engineer School is reviewing the Fort Belvoir program of instruction for incorporation into the Air Conditioner Refrigeration Equipment Repairman's course. This will facilitate the certification requirement.

(3) Training Support. Current training plan developed by the U.S. Army will be adopted and will be provided on site, and at the Engineer School in Marine Corps Base, Camp Lejeune. Manufacturer will also provide video tape and operational handbook for the Refrigerant Recovery and Recycling Station.

d. Supply Support. Normal supply procedures will be followed in supporting this equipment.

ENCLOSURE (1)

e. Support Equipment

(1) Special Tools. No special tools are required for operator's and organizational maintenance.

(2) Common Tools. Tools contained in any general Refrigeration Mechanics Tool Kit TAMCN B2280, NSN 5180-00-637-2667, will contain all required common tools for installation, operation, and organizational maintenance.

(3) Special Purpose Test Equipment. No special purpose test equipment is required for operator's and organizational maintenance.

(4) General Purpose Test Equipment. None.

(5) Test Program Sets. Not applicable.

(6) Oter Support Equipment. Not applicable.

f. Technical Publications. Commercial off-the-shelf operator and maintenance manual with repair parts list will be provided by the contractor. One manual will be overpacked with each Refrigerant Recovery and Recycling Station.

g. Computer Resources Support. Computer Resources Support is not applicable for the Refrigerant Recovery and Recycling Station.

h. Facilities

(1) Existing Facilities. Existing facilities will be used to store and maintain the Refrigerant Recovery and Recycling Station at the owning units.

(2) New Facilities. Not applicable.

(3) Interim Facilities. Not applicable.

i. Packaging, Handling, Storage, and Transportation

(1) Packaging. No special packaging requirements are required.

(2) Handling. Recovery storage tanks must be empty prior to shipping.

(3) Storage. There are no special storage requirements for the Refrigerant Recovery and Recycling Station.

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(4) Transportation. Not applicable.

j. Warranties. The Refrigerant Recovery and Recycling Station will be supported by the manufacturer's warranty for two years after receipt by the government (note: this is the date equipment leaves the factory). Contact the MARCORLOGBASES, Inventory Manager to determine if a particular serial number is still under warranty. Warranty repair transactions shall be conducted per MCO 4105.2.

4. Actions Required to Place Equipment in Service

a. Gaining Command

(1) Upon receipt, report the systems as controlled items per provisions of MCO P4400.82F.

(2) Recommend training be completed and operator certified prior to usage.

(3) Upon receipt, place the systems on administrative deadline until provisions of MCO P4105.3, paragraph 7 are met.

(4) Once in service, defect reporting, maintenance support, and readiness reporting, if required, will be accomplished per current directives.

b. COMMARCORLOGBASES, Albany, GA. No special instruction required.

ENCLOSURE (1)

LIST OF ALLOWANCES AND DELIVERY SCHEDULE

UNIT T/E NO	TITLE	PLANNED			
		ACTUAL ALLOWANCE	FY 93 ALLOWANCE	QTR 1	2 3 4
7540	MCES, Camp Lejeune, NC	10			X
A8631	MACS/TAOM, MACG, 1st MAW	2			X
A8632	MACS/TAOM, MACG, 2d MAW	2			X
A8633	MACS/TAOM, MACG, 3d MAW	2			X
B3331	Maint Co, BSSG-1, 1st MEB	1			
B8703	Marine Rotary Support Sydn, 1 MEB	2			
N1015	Comm Co, HqBn, 1st MarDiv	1			X
N1025	Comm Co, HqBn, 2d MarDiv	1			X
N1035	Comm Co, HqBn, 3d MarDiv	1			X
N1312	Engr Spt Co, Cbt Engr Bn 1st MARDIV	1			X
N1322	Engr Spt Co, Cbt Engr Bn, 2d MARDIV	1			X
N1332	Engr Spt Co, Cbt Engr Bn, 3d MARDIV	1			X
N1342	Engr Spt Co, Cbt Engr Bn 4th MARDIV	1			X
N3133	Engr Maint Co, Maint Bn, 1st FSSG	5			X
N3233	Engr Maint Co, Maint Bn, 2d FSSG	9			X
N3252	8th Engr Spt Bn, 2d FSSG	2			X
N3333	Engr Maint Co, Maint Bn, 3d FSSG	3			X
N3433	Engr Maint Co, Maint Bn, 4th FSSG	5			X
N3432	Elect Maint Co, Maint Bn, 4th FSSG	1			X
N3436	Gen Spt Maint Co, Maint Bn, 4th FSSG	1			X
N4684	Comm Spt Co, Comm Bn, 1st SRI	1			X
N4784	Comm Spt Co, Comm Bn, 2d SRI	1			X
N4884	Comm Spt Co, Comm Bn, 3d SRI	1			X
N8612	Mar Wing Comm Sqdn MACG MAW RES	1			X
N8615	H&HS MACG, MAW (4)	1			X
N8618	H&S Btry, MAAM Bn RES	1			X
N8651	Hqtrs, Mar Wing Comm Sqdn (3)	1			X
N8682	Hq Co, LAAM Bn (2)	2			X

NOTE: The allowances shown are Equipment Allowance File quantities. Table of Equipment multiples are shown in parentheses.

Appendix A to  
ENCLOSURE (1)