MODULAR FUEL SYSTEM (MFS) PUMP RACK MODULE (PRM) PROGRAM

CONTRACT: W56HZV-11-C-0092
NSN: 4930-01-517-6942

STORAGE AND SHIPPING INSTRUCTIONS

FINAL

19 February 2015

Prepared By:
DRS TECHNOLOGIES, SUSTAINMENT SYSTEMS, INC.
ST. LOUIS, MO 63121
Cage Code: 98255

Prepared For:
U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENTS COMMAND
PRODUCT MANAGER, PETROLEUM AND WATER SYSTEMS
WARREN, MI 48397

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1) System Description

The Pump Rack Module (PRM) is one component of the Modular Fuel System (MFS), which is the primary system for storing and issuing fuel in selected units at division level and below. The PRM is capable of filtering and issuing kerosene based fuels (i.e. JP-5, JP-8, Jet-A, Jet-A1) and diesel fuel. The initial use of the PRM will be to provide a mobile fuel issuing capability for the Expeditionary Brigade Combat Team (EBCT). The PRM fielded to the EBCT will be transported on Palletized Load System (PLS) trailers and towed by Heavy Expanded Mobility Tactical Truck (HEMTT) tankers or Heavy Expanded Mobility Tactical Truck-Load Handling System (HEMTT-LHS) trucks. The PRM can be used to support relocation of forces by providing a refuel on the move (ROM) capability. The units requiring the PRM must possess the ability to rapidly change operational locations and be ready to provide petroleum product in a very short time without the use of large numbers of support assets. The flexibility of the system allows the capacity and layout to be tailored to the tactical situation. The PRM provides the ability to rapidly establish a fuel distribution capability at any location regardless of the availability of construction equipment or material handling equipment. A HEMTT-LHS and PLS can recover the
PRM, transport it to the new location, and emplace the system.
The PRM can be used with as many manifold sources as feasible or with a collapsible storage tank. The collapsible tank provides a way to increase capacity for operations that are expected to last for extended periods. The selected site does not require any preparation prior to deployment. The use of the HEMTT-LHS as the prime mover results in increased cross-country mobility. This increased capability is critical to uninterrupted resupply of fuel to maneuver forces.

2) Purpose

The purpose of the Shipping and Storage Instruction (S&SI) is to standardize the requirements for preservation, packaging, packing, marking and maintenance in storage of the US Army's MFS PRM. These Instructions define the procedures necessary to pack, store, and maintain PRM components in a fully mission capable state. It describes efficient and economical methods for achieving optimal shelf life, utility, and protection of parts and equipment from the point of receipt, at the point of installation, to the return of items for storage and future service. It is intended as a guide in re-packing the components of the PRM for US Army units having it as assigned equipment or involved in its deployment, use, and recovery.

3) Scope

The S&SI encompasses the preservation, packaging, packing, marking, and cyclic maintenance procedures of the PRM. The S&SI procedures are structured as a step-by-step set of instructions. Details of preservation and complete descriptions for packaging, tailored to the capabilities of user units, are provided. Required blocking, bracing, and tiedown procedures are included, as applicable. Module diagrams are provided for detailing placement of items. Packing lists, which serve as an inventory of material, list the contents of each Module.

4) Objectives

a. To provide preservation packaging, packing, and packaging methods for optimum life, utility, and performance of the PRM, through protection from deterioration and damage.

b. To comply with requirements of Military Standards and Specifications, and laws and regulations that governs the methods and materials used in preservation, storage, transport, and issue of the PRM.

c. To prescribe techniques and materials that provides the necessary protection against corrosion and damage, and adequate identification of PRM components.

d. To provide marking requirements for effective identification, placards, and handling of PRM components, while conforming to military/regulatory standards.

e. To provide cyclic maintenance procedures for PRM components during periods of short and long term storage.

5) Definitions

Short term and long term storage is defined as follows:

- **Short term storage** (180 days maximum in an unheated warehouse) **–** for application when items are in transit. Short term S&S processing is acceptable when the item is intended for immediate use.
- **Long term storage –** for application when items will be stored 180 days to 2 years in open storage before use.

6) Specifications and Standards

Packaging techniques in this plan are based on MIL-STD-2073-1. OEM packaging and industry standard packs for worldwide shipment are permitted when they meet or exceed this requirement. MIL-STD-129 is used in determining requisite marking, supplemented by MIL-STD-130. Military, federal, and commercial specifications that are referenced or mandated by these Instructions are listed in Section 2.

7) Containerization

The PRM components are installed on specialized ISO 1496-5 and 1496-3 Containers. These have the same handling characteristics as a standard International Standard Organization (ISO) 20' ISO-1CX Container.

8) Hazardous Materials

Hazardous materials shipped in, on, or with the PRM shall be packaged, packed, and marked, in accordance with the applicable requirements of the CFR Title 29, Title 40 and Title 49, the International Maritime Dangerous Goods Code, or the International Civil Aviation Organization Technical Instructions for the applicable mode of transport. Special precautions may be necessary for hazardous materials stored with a vehicle for periods of long term storage. All military air shipments containing hazardous materials shall comply with the Joint Service Manual, AFJMAN24-204/TM-38-250/NAVSUP PUB 505/MCO P4030.19F/DLAM 4145.3. As a general rule, Hazardous Materials should not be stored nor shipped with the PRM. When hazardous materials are shipped on the vehicle, increased transportation costs should be anticipated.

Hazardous Material Packaging: All hazardous material shall be shipped in packaging which meets the performance requirements specified in the applicable packaging specification and the mode of transportation regulations cited above.

Hazardous Material Shipment Documentation: All hazardous material shipments shall be supported by documentation certifying that the packaging meets the performance requirements specified in the applicable packaging specifications and the mode of transportation regulations cited above. The shipper, if not a self-certifier, shall be responsible for assuring that third party providers of hazardous material packaging services are, in fact, registered with the Department of Transportation (DOT). The shipper's signed certification that the packaged configuration meets applicable requirements shall be incorporated on the DD Form 250, Material Inspection and Receiving Report, or other related acceptance document if the DD Form 250 is not used. All certificates and reports shall be available for inspection by authorized Government representatives for a period of three years.

Safety and Health: Processing for shipment and storage and subsequent deprocessing of equipment may involve the use of substances requiring personal protection or exposure precautions. Appropriate safety and health information shall be available to all personnel involved and any data for processing the equipment for shipment and storage for deprocessing shall include all necessary warnings, MSDSs, cautionary markings, etc. Documentation shall accompany the vehicle and insure communication of safety and health issues.

9) Marking

All marking identifications and operating data plates applied to the PRM are in accordance with MIL-STD-129 and MIL-STD-130. Markings in black lusterless paint are applied to the PRM module:

"USE 8 FOOT TINES ONLY" -2" letters adjacent to the fork lift pockets on the PRM.

The MFS containers platform for the PRM is marked in accordance with ISO standard 6346, Freight Containers-Coding, Identification and Marking.

Placard requirements are in accordance with 49 CFR 172.504. Data plates are provided for Helicopter Sling Lift (HSL). Each PRM is inspected, tested and marked in accordance with the requirements of DOT 49 CFR 180.415. The ISO container frames have been certified to the Convention for Safe Containers (CSC) and display a CSC Safety Approval Plate.

10) Cleaning and Drying

Prior to preserving any materiel or equipment an Equipment Inspection and Maintenance Worksheet will be initiated. PRM components will be cleaned of all dirt, debris and corrosion, both internally and externally. Equipment should be washed on a sloped surface to facilitate water run-off and to speed the overall drying process. Immediately after cleaning, surfaces shall be thoroughly dried. Drying shall be accomplished by any process that will not harm the vehicle or its components. All cleaning materials should be selected and used in accordance with the applicable Environmental Protection Agency (EPA) Regulations, Occupational Safety and Health Act (OSHA) Standards and Code of Federal Regulations (CFR), Title 29 - General Industry and Air Pollution Control Statutes and Regulations in force for the geographic and industrial area where the cleaning is performed.

CAUTION:

Disassembly of equipment for cleaning and preservation should be kept to a minimum degree necessary. Failure to comply could result in damage to equipment and void the manufacturer's warranty.

CAUTION

All dust plugs, caps, and covers should be installed prior to cleaning or preserving equipment. Failure to comply could cause internal contamination of equipment.

- Items should be cleaned by any process or combination of processes that will accomplish a thorough cleaning and drying without damaging equipment.
- Loose dirt and debris should be removed, brushed, swept, vacuumed or blown off the equipment.
- Surfaces should be cleaned to ensure complete removal of dirt, soil, corrosion, grease, fingerprints, perspiration and all other acid and alkali residues. Oil, grease, or graphite packed or impregnated items should be cleaned externally by wiping with a clean, dry, lint-free cloth.
- Remove any grease, oil or fuel contamination remaining after initial cleaning, using an approved cleaning solvent prior to preserving the equipment. Entrapped cleaning solvents or other liquids should be drained and the area thoroughly rinsed and dried.

WARNING:

Do not use petroleum based solvents in oxygen, air intake, vacuum or hydraulic systems, except internal combustion engine intake manifolds. Failure to comply could result in serious injury or death to personnel and/or damage to equipment.

- When required, remove surface dirt from equipment using a pressure washer.

WARNING:

Do not exceed 1500 PSI water pressure when pressure washing equipment. Failure to comply could result in serious injury or death to personnel and/or damage to equipment.

11) Components of End Item (COEI)

The following items shall be cleaned, preserved, and packaged in accordance with MIL-STD-2073-1D and the following instructions. All packaged items are to be stowed in there assigned stowage location in the PRM, see figures 3 – 8 for item locations.

Note: Sizes of wraps, cushioning, cartons, etc. are listed as approximates only. Variances to sizes are allowable if protection is maintained.

Note: All package materials listed are required for one (1) item.

SEGREGATED PACK NUMBER	NATIONAL STOCK NUMBER	PART NUMBER (CAGE)	DESCRIPTION	QUANTITY
1	N/A	810682-301 (98255)	ADAPTOR, 4 in. female X 4 in. female camlock	1
2	N/A	810680-301 (98255)	ADAPTOR, COUPLING, 3in. unisex valve X 2 in. unisex valve	6
3	N/A	410-300300-130 (D2274)	ADAPTOR, HOSE COUPLING, NATO	1
4	N/A	RN300/3-8 (NPSH) (D9779)	ADAPTOR, NATO (NPSH) G3A X 3-8	1
5	4730-01-543-4019	90007 (33813)	ADAPTOR, NATO (NPT)	1
6	6150-01-022-6004	11682336-1 (19207)	CABLE ASSEMBLY, ELECTRICAL POWER, NATO, intervehicular, 20 ft	1
7	7240-00-089-3827	3819249 (45152)	CAN, MILITARY	8
8	N/A	853-300300-130 (D2274)	COUPLING HALF, NATO, 3 in. female	1
9	4730-01-298-0151	6432070Q (0DT23)	COUPLING, 2 in. female camlock X 2 in. unisex valve	2
10	4730-01-298-0150	6432061Q (0DT23)	COUPLING, 2 in male camlock X 2 in. unisex valve	2
11	N/A	6432071Q (0DT23)	COUPLING, 3 in. female camlock X 2 in. unisex valve	1
12	N/A	6432062Q (0DT23)	COUPLING, 3 in. male camlock X 2 in. unisex valve	1
13	4730-01-474-2863	64031MQ (0DT23)	COUPLING, 4 in. female camlock X 3 in. unisex valve	2
14	4730-01-548-3573	602630401 (33813)	COUPLING, 4 in. male camlock X 3 in. female camlock	1
15	4730-01-543-5141	64031PQ (0DT23)	COUPLING, 4 in. male camlock X 3 in. unisex valve	1
16	N/A	850-300300-130 (D2274)	COUPLING HALF, NATO, 3 in. male	1
17	N/A	832-300300-133 (D2274)	COUPLING HALF, NATO, TANK TRUCK, female	1
18	N/A	833-300300-130 (D2274)	COUPLING HALF, NATO, TANK TRUCK, male	1
19	3835-01-414-0464	UK-3 (D1097)	COUPLING, NATO, RAIL TANKER, ADAPTOR	1
20	4730-01-376-1027	64023D (0DT23)	ELBOW, ADAPTOR, 2 in. unsex valves	2
21	4210-01-608-3387	429011 (03670)	FIRE EXTINGUISHER, Model PK20	10

SEGREGATED PACK NUMBER	NATIONAL STOCK NUMBER	PART NUMBER (CAGE)	DESCRIPTION	QUANTITY
22	4720-01-610-2495	84006 (0DT23)	HOSE ASSEMBLY, 2 in. X 50 ft with 2 in. unisex valve with hose end pressure regulator	8
23	4720-01-609-2299	84003 (0DT23)	HOSE ASSEMBLY, 3 in. X 50 ft with 2 in. and 3 in. unisex valve with hose end pressure regulator	4
24	4720-01-609-1447	84004 (0DT23)	HOSE ASSEMBLY, 3 in. X 50 ft with 3in. unisex valve	11
25	4720-01-609-3551	84008 (0DT23)	HOSE ASSEMBLY, 3 in. X 50 ft with 3 in. unisex valve and 3 in. male camlocks	11
26	4720-01-610-2605	84002-2 (0DT23)	HOSE ASSEMBLY, 3 in. X 50 ft with 2 in. and 3 in. unisex valve with hose end pressure regulator (HEPR)	1
27	N/A	84005 (0DT23)	HOSE ASSEMBLY, RIGID, 4 in. X 15 ft with 4 in.camlock fittings	4
28	4720-01-609-1725	84001-2 (0DT23)	HOSE ASSEMBLY, 2in. x 50 ft with 2 in. unisex valves	4
29	N/A	13-65SEI (0N54W)	KIT, FUEL SPILL CONTROL	1
30	4930-01-630-4798	64211 (0DT23)	NOZZLE, AUTOMATIC SHUT-OFF, 1 in., with 2 in. unisex valve	4
31	4930-01-630-4786	64199 (0DT23)	NOZZLE, AUTOMATIC SHUT-OFF, 1.5 in. with 2 in. unisex valve	8
32	4820-01-631-2979	64017E (0DT23)	NOZZLE, CCR, with 2 in. unisex valve	2
33	4930-01-630-4817	64201CHV5 (0DT23)	NOZZLE, D-1 with 2 in. unisex valve, 100 mesh strainer	8
34	4901-01-301-9125	4204T4 (39428)	PAN, DRAIN	2
35	4940-01-504-5273	PB6C10 (4N5U7)	PAN, DRIP	10
36	4730-01-548-2611	602640201 (33813)	REDUCER, 4 in. female camlock X 2 in. male camlock	2
37	N/A	602840-301 (33813)	REDUCER, 4 in. male camlock X 3 in. male camlock	1
38	N/A	602640601 (33813)	REDUCER, 6 in male camlock X 4in. female camlock	1
39	4730-01-548-0899	602640301 (33813)	REDUCER, 4in. female camlock x 3 in. male camlock	1
40	5975-01-050-5707	13219E0462 (19207)	ROD, GROUNDING	9
41	N/A	8105070-301	STRAP ASSEMBLY	8
42	N/A	810571-301	STRAP ASSEMBLY	8
43	N/A	810595-301	STRAP ASSEMBLY, hose coil	29
44	4730-01-631-4618	64190 (0DT23)	TEE, 3in., unisex valve	5
45	N/A	810117-301 (33813)	TEE ASSY, 4 in. female camlock X 4 in. male camlock X 4 in. female camlock	2
46	4730-01-297-6812	64022D (0DT23)	TEE, 2 in. unisex valve	2
47	6630-01-558-5109	57K6311 (19207)	TESTING KIT, FUEL	1
		ON-BOARD SPARES		
		For 3 In. Unisex Coupling:		
48	2910-01-456-2274	220468 (0DT23)	CAP, BUMPER	6
49	5330-01-460-8998	220467 (0DT23)	SEAL, PLAIN	12

		For 2 In. Unisex Coupling:		
50	2510-01-456-7850	220161 (0DT23)	CAP, BUMPER	4
51	5330-01-433-9203	220146 (0DT23)	SEAL, PLAIN	14

SEGREGATED PACK NUMBER	**NATIONAL STOCK NUMBER**	**PART NUMBER (CAGE)**	**DESCRIPTION**	**QUANTITY**
		For 4 In. Camlock Coupling:		
52	4730-00-623-7537	AA59326/10-9 (58536)	CAP, DUST	2
53	5330-01-557-1178	AA59326-9 (58536)	GASKET	5
54	4730-00-640-6188	AA59326/11-9-A (58536)	PLUG,DUST	2
		For 3 In. Camlock Coupling:		
55	N/A	GF27029-15-TN (0DT23)	CAP,DUST	1
56	5330-00-088-9466	AA59326-G8 (58536)	GASKET	2
57	N/A	GF27028-15-TN (0DT23)	PLUG, DUST	1
		For 2 In. Camlock Coupling:		
58	N/A	GF27029-11-TN (0DT23)	CAP, DUST	1
59	5330-00-612-2414	AA59326-G6 (58536)	GASKET	2
60	N/A	GF27028-11-TN (0DT23)	PLUG, DUST	1
		For 2 In. Unisex Coupling (CAGE 61125):		
61	N/A	RJ0001 (61125)	CAP, BUMPER	1
62	N/A	RJ0009 (61125)	SEAL, PLAIN	2
		For 2 In. Unisex Coupling (CAGE 61125):		
63	N/A	RJ0131 (61125)	CAP, BUMPER	1
64	N/A	RJ0139 (61125)	SEAL, PLAIN	2

A. Prepare Segregated Pack Number 1, Part Number 810682-301 (98255), ADAPTOR, 4 in. female X 4 in. female camlock, Quantity: 1, as follows:
   1. Cushioning: A-A-59135, CL 1, GR A, Size: 30 X 16 X 1/4” Thickness, Wrap item in foam, secure with tape.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 24 X 26. Close bag by heat seal.
   3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

B. Prepare Segregated Pack Number 2, Part Number 810680-301 (98255), ADAPTOR, COUPLING, 3in. unisex valve X 2 in. unisex valve, Quantity: 6, as follows:
   1. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 16 X 1/4” Thickness, Wrap item in foam, secure with tape.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 24 X 26. Close bag by heat seal.
   3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

C. Prepare Segregated Pack Number 3, Part Number 410-300300-130 (D2274), ADAPTOR, HOSE COUPLING, NATO, Quantity: 3, as follows:
   1. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 16 X 1/4” Thickness, Wrap item in foam, secure with tape.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 24 X 26. Close bag by heat seal.

3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

D. Prepare Segregated Pack Number 4, Part Number RN300/3-8 (NPSH) (D9779), ADAPTOR, NATO (NPSH) G3A X 3-8, Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 18 X 12 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 12 X 14. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

E. Prepare Segregated Pack Number 5, Part Number 90007 (33813), ADAPTOR, NATO (NPT), Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 16 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 24 X 26. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

F. Prepare Segregated Pack Number 6, Part Number 11682336-1 (19207), CABLE ASSEMBLY, ELECTRICAL POWER, NATO, intervehicular, 20 ft, Quantity: 1, as follows:
1. Item Preparation: Coil item to 21 X 21 X 6 inch dimensions.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 30 X 30. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

G. Prepare Segregated Pack Number 7, Part Number 3819249 (45152), CAN, MILITARY, Quantity: 8, as follows:
1. Place item in designated holder on PRM.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list. Identification must be in an environmental proof method.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

H. Prepare Segregated Pack Number 8, Part Number 853-300300-130 (D2274), COUPLING HALF, NATO, 3 in. female, Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 30 X 16 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 24 X 26. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

I. Prepare Segregated Pack Number 9, Part Number 6432070Q (0DT23), COUPLING, 2 in. female camlock X 2 in. unisex valve, Quantity: 2, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 30 X 16 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 24 X 26. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

J. Prepare Segregated Pack Number 10, Part Number 6432061Q (0DT23), COUPLING, 2 in male camlock X 2 in. unisex valve, Quantity: 2, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 30 X 16 X 1/4" Thickness, Wrap item in foam, secure with tape.

2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 24 X 26. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

K. Prepare Segregated Pack Number 11, Part Number 6432071Q (0DT23), COUPLING, 3 in. female camlock X 2 in. unisex valve, Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 17 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 14 X 20. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

L. Prepare Segregated Pack Number 12, Part Number 6432062Q (0DT23), COUPLING, 3 in. male camlock X 2 in. unisex valve, Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 18 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 14 X 20. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

M. Prepare Segregated Pack Number 13, Part Number 64031MQ (0DT23), COUPLING, 4 in. female camlock X 3 in. unisex valve, Quantity: 2, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 28 X 20 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 16 X 22. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

N. Prepare Segregated Pack Number 14, Part Number 64031MQ (0DT23), COUPLING, 4 in. male camlock X 3 in. female camlock, Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 28 X 20 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 16 X 22. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

O. Prepare Segregated Pack Number 15, Part Number 64031PQ (0DT23), COUPLING, 4 in. male camlock X 3 in. unisex valve, Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 28 X 18 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 16 X 20. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

P. Prepare Segregated Pack Number 16, Part Number 64031MQ (0DT23), COUPLING HALF, NATO, 3 in. male, Quantity: 1, as follows:
1. Wrap: MIL-PRF-131, CL 1, Size: 26 X 16, Wrap item entirely with paper, secure with tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

Q. Prepare Segregated Pack Number 17, Part Number 832-300300-133 (D2274), COUPLING HALF, NATO, TANK TRUCK, female, Quantity: 1, as follows:

1. Wrap: MIL-PRF-131, CL 1, Size: 12 X 20, Wrap item entirely with paper, secure with tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

R. Prepare Segregated Pack Number 18, Part Number 832-300300-133 (D2274), COUPLING HALF, NATO, TANK TRUCK, female, Quantity: 1, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 30 X 16, X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 18 X 18. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

S. Prepare Segregated Pack Number 19, Part Number UK-3 (D1097), COUPLING, NATO, RAIL TANKER, ADAPTOR, Quantity: 1, as follows:
1. Wrap: MIL-PRF-131, CL 1, Size: 40 X 22, Wrap item entirely with paper, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 26 X 26. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

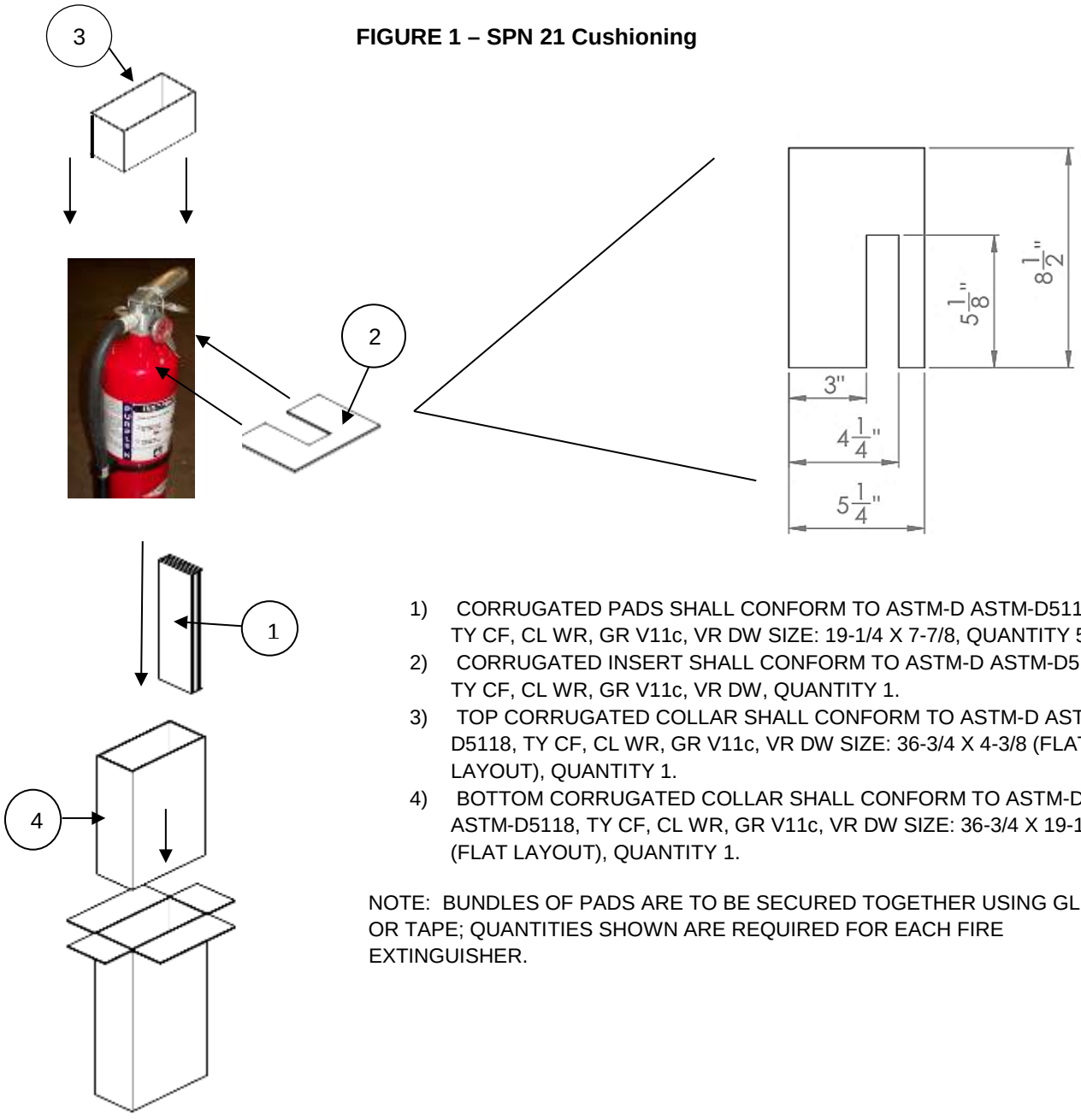
T. Prepare Segregated Pack Number 20, 64023D (0DT23), ELBOW, ADAPTOR, 2 in. unsex valves Quantity: 2, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 30 X 18, X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 18 X 20. Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

U. Prepare Segregated Pack Number 21, 429011 (03670), FIRE EXTINGUISHER, Model PK20, Quantity: 10, as follows:

For fire extinguishers located inside of storage unit (Quantity 8):
1. Cushioning: A-A-59135, CL 1, GR A, Size: 30 X 18, X 1/8" Thickness, Wrap item in foam, secure with tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

For fire extinguishers located outside of the storage unit (Quantity 2):
1. Cushioning: ASTM-D4727, TY CF, CL WR, GR W5c, VR SW, See Figures 1 & 2 for sizes and locations.
2. Container: ASTM-D5118, TY CF, ST RSC, CL WR, GR W5c, VR SW, Size: 10-1/4 X 8-1/2 X 24-1/4, Close container in accordance with ASTM-D1974, Method 2B1.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list. Additional markings will be included for the fire extinguisher denoting item as hazardous class 2.2 in accordance with CFR Titel 29, 40, and 49.
4. Placement: Packaged fire extinguishers are to be placed inside the storage cabinet between the spill kit and hoses, see Figure 8.
5. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

FIGURE 1 – SPN 21 Cushioning

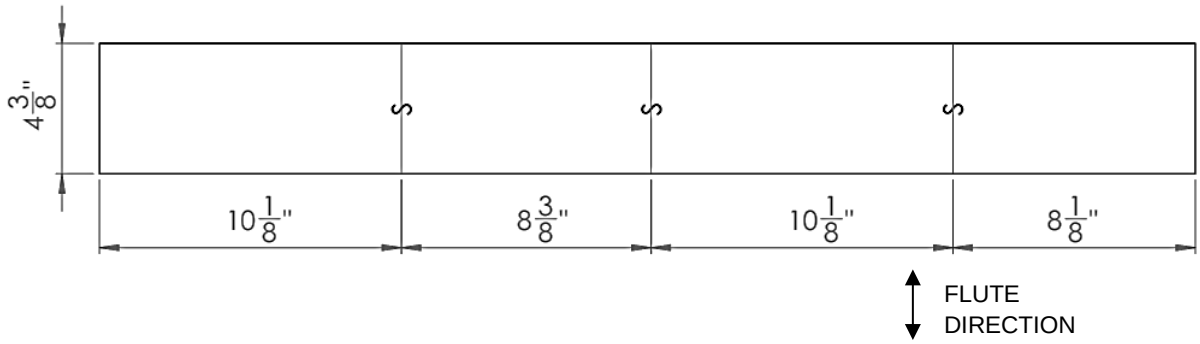


1) CORRUGATED PADS SHALL CONFORM TO ASTM-D ASTM-D5118, TY CF, CL WR, GR V11c, VR DW SIZE: 19-1/4 X 7-7/8, QUANTITY 5.
2) CORRUGATED INSERT SHALL CONFORM TO ASTM-D ASTM-D5118, TY CF, CL WR, GR V11c, VR DW, QUANTITY 1.
3) TOP CORRUGATED COLLAR SHALL CONFORM TO ASTM-D ASTM-D5118, TY CF, CL WR, GR V11c, VR DW SIZE: 36-3/4 X 4-3/8 (FLAT LAYOUT), QUANTITY 1.
4) BOTTOM CORRUGATED COLLAR SHALL CONFORM TO ASTM-D ASTM-D5118, TY CF, CL WR, GR V11c, VR DW SIZE: 36-3/4 X 19-1/4 (FLAT LAYOUT), QUANTITY 1.

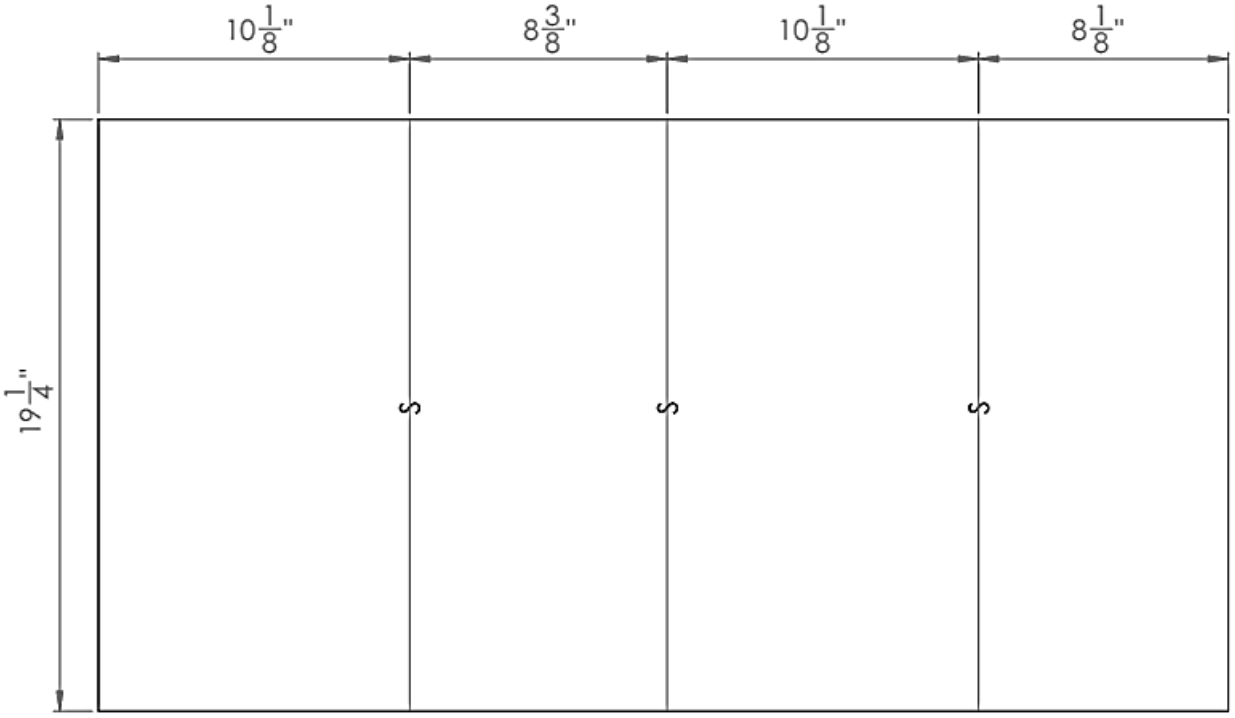
NOTE: BUNDLES OF PADS ARE TO BE SECURED TOGETHER USING GLUE OR TAPE; QUANTITIES SHOWN ARE REQUIRED FOR EACH FIRE EXTINGUISHER.

FIGURE 2 – SPN 21 Item 3 & 4 Dimensions

TOP CORRUGATED COLLAR (FLAT LAYOUT)



BOTTOM CORRUGATED COLLAR (FLAT LAYOUT)



V. Prepare Segregated Pack Number 22, Part Number 84006 (0DT23), HOSE ASSEMBLY, 2 in. X 50 ft with 2 in. unisex valve with hose end pressure regulator, Quantity: 8, as follows:
    1. Item Preparation: Coil hose assembly to 29 X 23 X 6 inch dimensions.
    2. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 24 X 1/4" Thickness, Quantity 2, Wrap item ends in foam, secure with tape.
    3. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 42 X 36, Close bag by heat seal.
    4. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    5. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 33.

W. Prepare Segregated Pack Number 23, Part Number 84003 (0DT23), COUPLING HALF, NATO, TANK TRUCK, female, Quantity: 4, as follows:
    1. Item Preparation: Coil hose assembly to 29 X 23 X 7 inch dimensions.
    2. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 24 X 1/4" Thickness, Quantity 2, Wrap item ends in foam, secure with tape.
    3. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 42 X 36, Close bag by heat seal.
    4. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    5. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 33.

X. Prepare Segregated Pack Number 24, Part Number 84004 (0DT23), HOSE ASSEMBLY, 3 in. X 50 ft with 3in. unisex valve, Quantity: 11, as follows:
    1. Item Preparation: Coil hose assembly to 29 X 23 X 7 inch dimensions.
    2. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 24 X 1/4" Thickness, Quantity 2, Wrap item ends in foam, secure with tape.
    3. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 42 X 36, Close bag by heat seal.
    4. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    5. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 33.

Y. Prepare Segregated Pack Number 25, Part Number 84008 (0DT23), HOSE ASSEMBLY, 3 in. X 50 ft with 3 in. unisex valve and 3 in. male camlocks, Quantity: 11, as follows:
    1. Item Preparation: Coil hose assembly to 29 X 23 X 7 inch dimensions.
    2. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 24 X 1/4" Thickness, Wrap item ends in foam, secure with tape.
    3. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 42 X 36, Close bag by heat seal.
    4. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    5. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 33.

Z. Prepare Segregated Pack Number 26, Part Number 84002-2 (0DT23), HOSE ASSEMBLY, 3 in. X 50 ft with 2 in. and 3 in. unisex valve with hose end pressure regulator (HEPR), Quantity: 1, as follows:
    1. Item Preparation: Coil hose assembly to 22 X 19 X 7-1/2 inch dimensions.
    2. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 24 X 1/4" Thickness, Wrap item ends in foam, secure with tape.
    3. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 28 X 27, Close bag by heat seal.
    4. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    5. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 33.

AA. Prepare Segregated Pack Number 27, Part Number 84005 (0DT23), HOSE ASSEMBLY, RIGID, 4 in. X 15 ft with 4 in.camlock fittings, Quantity: 4, as follows:
    1. Wrap: MIL-PRF-131, CL 1, Size: 190 X 34, Wrap item entirely with paper, secure with tape.
    2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

BB. Prepare Segregated Pack Number 28, Part Number 84001-2 (0DT23), HOSE ASSEMBLY, 2 in. X 50 ft with 2 in. unisex valves, Quantity: 4, as follows:
    1. Item Preparation: Coil hose assembly to 29 X 23 X 6 inch dimensions.
    2. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 24 X 1/4" Thickness, Quantity 2, Wrap item ends in foam, secure with tape.
    3. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 42 X 36, Close bag by heat seal.
    4. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    5. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 33.

CC. Prepare Segregated Pack Number 29, Part Number 13-65SEI (0N54W), KIT, FUEL SPILL CONTROL, Quantity: 1, as follows:
    1. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    2. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

DD. Prepare Segregated Pack Number 30, Part Number 64211 (0DT23), NOZZLE, AUTOMATIC SHUT-OFF, 1 in., with 2 in. unisex valve, Quantity: 4, as follows:
    1. Cushioning: A-A-59135, CL 1, GR A, Size: 48 X 26 X 1/4" Thickness, Double wrap item with foam, secure with tape.
    2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 18 X 28, Close bag by heat seal.
    3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

EE. Prepare Segregated Pack Number 31, Part Number 64199 (0DT23), NOZZLE, AUTOMATIC SHUT-OFF, 1.5 in. with 2 in. unisex valve, Quantity: 8, as follows:
    1. Cushioning: A-A-59135, CL 1, GR A, Size: 48 X 24 X 1/4" Thickness, Double wrap item with foam, secure with tape.
    2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 26 X 26, Close bag by heat seal.
    3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

FF. Prepare Segregated Pack Number 32, Part Number 64017E (0DT23), NOZZLE, CCR, with 2 in. unisex valve, Quantity: 2, as follows:
    1. Cushioning: A-A-59135, CL 1, GR A, Size: 48 X 26 X 1/4" Thickness, Double wrap item with foam, secure with tape.
    2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 20 X 26, Close bag by heat seal.
    3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

GG. Prepare Segregated Pack Number 33, Part Number 64201CHV5 (0DT23), NOZZLE, D-1 with 2 in. unisex valve, 100 mesh strainer, Quantity: 8, as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 48 X 30 X 1/4" Thickness, Double wrap item with foam, secure with tape.
2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 24 X 34, Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

HH. Prepare Segregated Pack Number 34, Part Number 4204T4 (39428), PAN, DRAIN, Quantity: 2, as follows:
1. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
2. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

II. Prepare Segregated Pack Number 35, Part Number PB6C10 (4N5U7), PAN, DRIP, Quantity: 2, as follows:
1. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
2. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

JJ. Prepare Segregated Pack Number 36, Part Number 602640201 (33813), REDUCER, 4 in. female camlock X 2 in. male camlock, Quantity 2 as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 16 X 28 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 18 X 18, Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

KK. Prepare Segregated Pack Number 37, Part Number 602840-301 (33813), REDUCER, 4 in. male camlock X 3 in. male camlock, Quantity 1 as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 16 X 28 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 18 X 18, Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

LL. Prepare Segregated Pack Number 38, Part Number 602640601 (33813), REDUCER, 6 in male camlock X 4in. female camlock, Quantity 1 as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 20 X 36 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 24 X 24, Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

MM. Prepare Segregated Pack Number 39, Part Number 602640301 (33813), REDUCER, 4 in. female camlock X 3 in. male camlock, Quantity 1 as follows:
1. Cushioning: A-A-59135, CL 1, GR A, Size: 16 X 28 X 1/4" Thickness, Wrap item in foam, secure with tape.
2. Bag: MIL-DTL-117, TY II, CL C, ST 1, Size 18 X 18, Close bag by heat seal.
3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.

4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

NN. Prepare Segregated Pack Number 40, Part Number 13219E0462 (19207) ROD,GROUNDING Quantity: 9, as follows:
   1. Wrap: MIL-PRF-131, CL 1, Size: 18 X 72, Wrap item entirely with paper, secure with tape.
   2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

OO. Prepare Segregated Pack Number 41, Part Number 8105070-301, STRAP ASSEMBLY, Quantity: 8, as follows:
   1. Item Preparation: Coil item to 8 X 6 X 4 inch dimensions.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 14 X 16. Close bag by heat seal or tape.
   3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

PP. Prepare Segregated Pack Number 42, Part Number 810571-301, STRAP ASSEMBLY, Quantity: 8, as follows:
   1. Item Preparation: Coil item to 10 X 8 X 5 inch dimensions.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 16 X 20. Close bag by heat seal or tape.
   3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

QQ. Prepare Segregated Pack Number 43, Part Number 810595-301, STRAP ASSEMBLY, hose coil, Quantity: 29, as follows:
   1. Item Preparation: Coil item to 12 X 10 X 6 inch dimensions.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 18 X 24. Close bag by heat seal or tape.
   3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

RR. Prepare Segregated Pack Number 44, Part Number 64190 (0DT23), TEE, 3in., unisex valve, Quantity: 5, as follows:
   1. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 36 X 1/4” Thickness, Wrap item in foam, secure with tape.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 22 X 28. Close bag by heat seal.
   3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

SS. Prepare Segregated Pack Number 45, Part Number 810117-301 (33813), TEE ASSY, 4 in. female camlock X 4 in. male camlock X 4 in. female camlock, Quantity: 2, as follows:
   1. Cushioning: A-A-59135, CL 1, GR A, Size: 26 X 40 X 1/4” Thickness, Wrap item in foam, secure with tape.
   2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 44 X 30. Close bag by heat seal.
   3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
   4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

TT. Prepare Segregated Pack Number 46, Part Number 64022D (0DT23), TEE, 2 in., unisex valve, Quantity: 2, as follows:
    1. Cushioning: A-A-59135, CL 1, GR A, Size: 24 X 36 X 1/4" Thickness, Wrap item in foam, secure with tape.
    2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 22 X 28. Close bag by heat seal.
    3. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

UU. Prepare Segregated Pack Number 47, Part Number 57K6311 (19207), TESTING KIT, FUEL, Quantity: 1, as follows:
    1. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    2. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

VV. Prepare Segregated Pack Number 48, Part Number 220468 (0DT23), CAP, BUMPER, Quantity: 6, as follows:
    1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 10 X 24. Place all items in bag, close bag by heat seal.
    2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

WW. Prepare Segregated Pack Number 49, Part Number 220467 (0DT23), SEAL, PLAIN, Quantity: 12, as follows:
    1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 12 X 12. Place all items in bag, close bag by heat seal.
    2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

XX. Prepare Segregated Pack Number 50, Part Number 220161 (0DT23), CAP, BUMPER, Quantity: 4 as follows:
    1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 8 X 18. Place all items in bag, close bag by heat seal.
    2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

YY. Prepare Segregated Pack Number 51, Part Number 220146 (0DT23), SEAL, PLAIN, Quantity: 14, as follows:
    1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 12 X 12. Place all items in bag, close bag by heat seal.
    2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

ZZ. Prepare Segregated Pack Number 52, Part Number AA59326/10-9 (58536), CAP, DUST Quantity: 2, as follows:
    1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 10 X 12. Place all items in bag, close bag by heat seal.
    2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

AAA. Prepare Segregated Pack Number 53, Part Number AA59326-9 (58536),GASKET, Quantity: 5, as follows:
    1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 8 X 10. Place all items in bag, close bag by heat seal.
    2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
    3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

BBB. Prepare Segregated Pack Number 54, Part Number AA59326/11-9-A (58536), PLUG, DUST, Quantity: 2, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 10 X 12. Place all items in bag, close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

CCC. Prepare Segregated Pack Number 55, Part Number GF27029-15-TN (0DT23), CAP, DUST, Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 10 X 12. Place all items in bag, close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

DDD. Prepare Segregated Pack Number 56, Part Number AA59326-G8 (58536), GASKET, Quantity: 2, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 10 X 12. Place all items in bag, close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

EEE. Prepare Segregated Pack Number 57, Part Number GF27028-15-TN (0DT23), PLUG, DUST, Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 10 X 12. Place all items in bag, close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

FFF. Prepare Segregated Pack Number 58, Part Number GF27029-11-TN (0DT23),PLUG, DUST, Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 6 X 8. Close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

GGG. Prepare Segregated Pack Number 59, Part Number AA59326-G6 (58536), GASKET, Quantity: 2, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 6 X 8. Place all items in bag, close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

HHH. Prepare Segregated Pack Number 60, Part Number GF27028-11-TN (0DT23), PLUG, DUST, Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 6 X 8. Close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

III. Prepare Segregated Pack Number 61, Part Number RJ0001 (61125), CAP, BUMPER, Quantity: 1, as follows:
1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 6 X 8. Close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

JJJ. Prepare Segregated Pack Number 62, Part Number RJ0009 (61125), SEAL, PLAIN, Quantity: 2, as follows:
1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 5 X 7. Place all items into bag, close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

KKK. Prepare Segregated Pack Number 63, Part Number RJ0131 (61125), CAP, BUMPER, Quantity: 1, as follows:
1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 6 X 8. Close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

LLL. Prepare Segregated Pack Number 64, Part Number RJ0131 (61125), SEAL PLAIN, Quantity: 2, as follows:
1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 5 X 7. Place all items into bag, close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown in COEI list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

12) Basic Issue Items (BII)

The following items shall be cleaned, preserved, and packaged in accordance with MIL-STD-2073-1D and the following instructions. All packaged items are to be stowed in there assigned stowage location in the PRM, see figures 3 – 8 for item locations.

Note: Sizes of wraps, cushioning, cartons, etc. are listed as approximates only. Variances to sizes are allowable if protection is maintained.

Note: All package materials listed are required for one (1) item.

SEGREGATED PACK NUMBER	NATIONAL STOCK NUMBER	PART NUMBER (CAGE)	DESCRIPTION	QUANTITY
65	N/A	5552A104 (39428)	EXTENSION, ¾ drive, 7 in. long	1
66	3740-01-454-1982	101066 (3ZEL7)	FLAG, STAKE, MARKING, 30 in., 100 in pkg	1 Package
67	N/A	5524A23 (39428)	HANDLE, FLEX HEAD (breaker bar)	1
68	N/A	5552A31 (39428)	SOCKET, 1 5/16, 8PT	1
69	5210-00-221-1882	5210-00-221-1882 (80244)	TAPE, MEASURING	1
			TECHNICAL MANUALS TM 10-4930-368-10 TM 10-4930-368-23-1, Volume 1 TM 10-4930-368-23-2, Volume 2	
70	N/A		TM 10-4930-368-23P	N/A
71	N/A	6390A22 (39428)	TOOL ROLL	1

MMM. Prepare Segregated Pack Number 65, Part Number 5552A104 (39428), EXTENSION, ¾" drive, 7 in. long, Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 3 X 10. Close bag by heat seal or tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown on BII list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

NNN. Prepare Segregated Pack Number 66, Part Number 101066 (3ZEL7), FLAG, STAKE, MARKING, 30 in., 100 in pkg, Quantity: 1 Package, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 8 X 10. Close bag by heat seal or tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown on BII list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

OOO. Prepare Segregated Pack Number 67, Part Number 5524A23 (39428), HANDLE, FLEX HEAD (breaker bar), Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 4 X 24. Close bag by heat seal or tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown on BII list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

PPP. Prepare Segregated Pack Number 68, Part Number 5552A31 (39428), SOCKET, 1 5/16, 8PT, Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 4 X 6. Close bag by heat seal or tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown on BII list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

QQQ. Prepare Segregated Pack Number 69, TAPE, MEASURING , Quantity: 1, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 10 X 10. Close bag by heat seal or tape.
2. Identification: Identify item with part number, quantity and segregated pack number as shown on BII list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

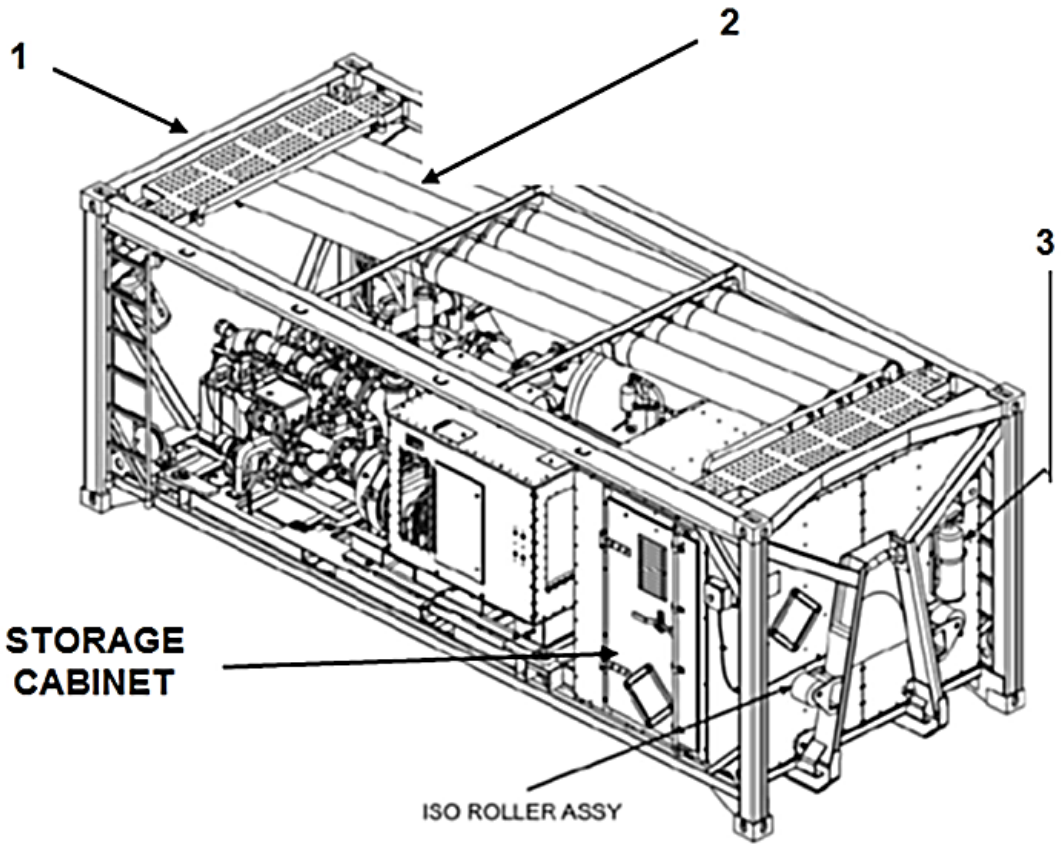
RRR. Prepare Segregated Pack Number 70, TECHNICAL MANUALS , Quantity: 4, as follows:

1. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 18 X 18. Place one (1) technical manual in one (1) bag. Close bag by heat seal.
2. Identification: Identify item with part number, quantity and segregated pack number as shown on BII list.
3. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 31.

SSS. Prepare Segregated Pack Number 71, Part Number 6390A22 (39428), TOOL ROLL, Quantity: 1, as follows:

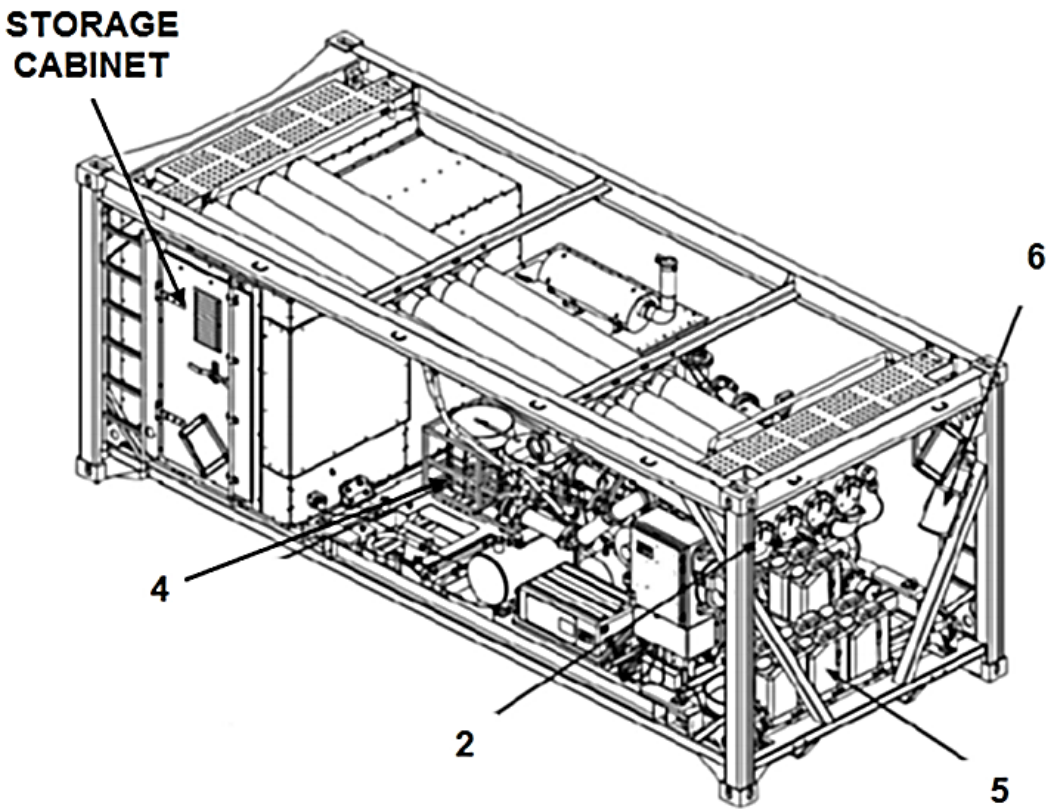
1. Item Preparation: Roll item to 13-3/4 X 1 X 1 inch dimensions.
2. Bag: MIL-DTL-117, TY III, CL B, ST 2, Size: 3 X 15. Close bag by heat seal or tape.
3. Identification: Identify item with part number, quantity and segregated pack number as shown on BII list.
4. Inspection: Inspect in accordance with MIL-STD-2073-1D, criteria for preservation, Method 10.

FIGURE 3 – PRM Item Identification



Pump Rack Module Stowage Figure 3 Identification Table	
1	Pump Rack Module- MFS (Qty 1)
2	Hose Assembly, 4” X 15’ With M/F Cam locks (Qty 4)
3	Extinguisher, Fire, BC Fire, Type 1, Class 2, Size 20 LBS. (Qty 1)

FIGURE 4 – PRM Item Identification



Pump Rack Module Stowage Figure 4 Identification Table	
4	Drip pans (Qty 12)
5	Water Cans (Qty 8)
6	Extinguisher, Fire, BC Fire, Type 1, Class 2, Size 20 LBS. (Qty 1)

FIGURE 5 – Item Locations in PRM Storage Cabinet (Side View)

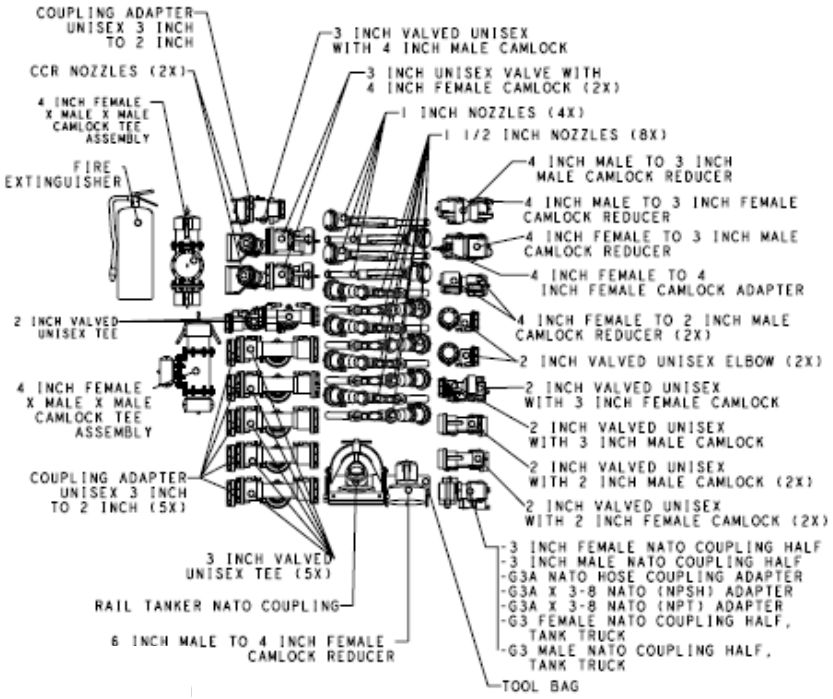


FIGURE 6 – Item Locations in PRM Storage Cabinet (Side View)

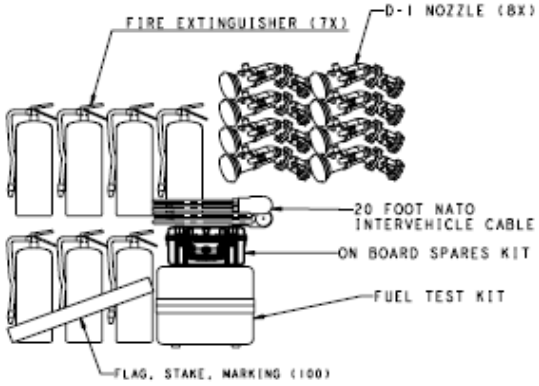


FIGURE 7 – Item Locations in PRM Storage Cabinet Ceiling

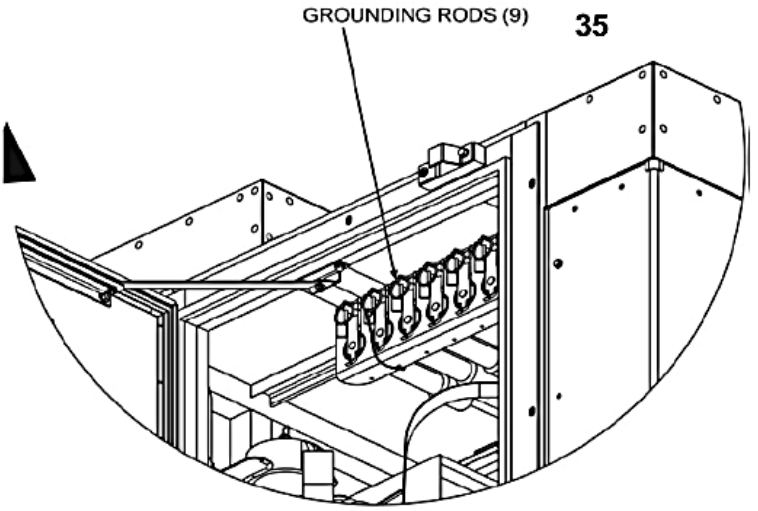
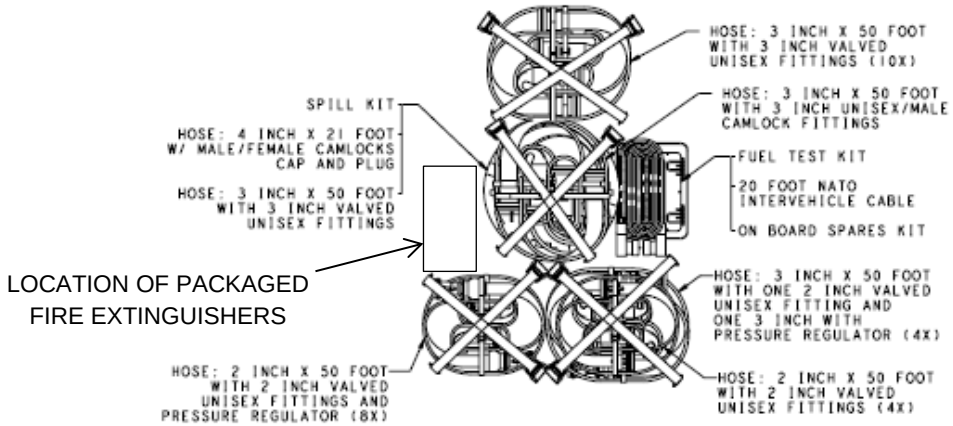


FIGURE 8 – Item Locations in PRM Storage Cabinet (Top View)



13) Preservation

NOTE:

CYCLIC MAINTENANCE AND EXERCISE REQUIREMENTS AND INSTRUCTIONS FOR THE LMFF IN LONG TERM STORAGE ARE CONTAINED IN NOTE 15.

Refer to Figures 3 – 8 for item locations on PRM.

13.1 Storage Cabinet Preservation

WARNING

Chemical gloves and goggles are required while using petroleum-based products. Failure to comply could result in death or injury to personnel.

All moving parts of the door locking mechanism, door hinges, and hasps, if not permanently lubricated, shall be lubricated with grease, Automotive and Artillery semi-annually. (Note 18, Item 9)

13.1.1 Suction Hoses

Install caps and plugs on all fittings. Place suction hoses in storage tubes located on top of the PRM. See note 12 for suction hose preparation.

13.2 Engine, Diesel Preservation

Lubricate all unpainted external surfaces of components susceptible to corrosion with General Purpose Lubricating Oil. MIL-PRF-32033.

13.2.1 Coolant System

WARNING

Do not mix ethylene glycol and propylene glycol antifreeze together. Check fluid color in overflow tank. If in doubt, contact Field Maintenance to flush and refill coolant.

a. Fill the coolant system with a mixture of 60% antifreeze (Ehylene Glycol or Propylene Glycol) conforming to A-A-52624 (Note 18, items 1 and 2) and 40% distilled water.

b. Operate engines with thermostatically controlled coolant systems until the temperature is reached which opens the thermostats assuring the complete mixing and even distribution of the solution to all areas of the coolant system.

c. Attach a tag to the neck of the coolant fill tube stating, “COOLANT SYSTEM CONTAINS WATER AND ANTIFREEZE – DO NOT DRAIN – CHECK COOLANT LEVEL – IF COOLANT IS LOW, ADD COOLANT OF SAME MIXTURE.”

13.2.2 Crank Case

a. At the beginning of engine preservation, fill the engine crankcase to operating level with Engine Lubricating Oil, PE-15W/40 Grade Preservative (Note 18, Item 12). This lubricant should remain in the crankcase while shipping or in storage.

b. Prepare a red warning tag and attach it to the crankcase fill tube. Each tag should indicate the following:

THIS CRANKCASE IS FILLED TO OPERATING LEVEL WITH LUBRICATING OIL WHICH IS GOOD FOR OPERATION UNTIL FIRST REQUIRED LUBRICANT CHANGE - DO NOT DRAIN - CHECK OIL LEVEL - IF LOW, FILL WITH LUBRICATING OIL, OE/HDO 15W/40 (Note 18, Item 11).

13.2.3 Engine Fuel System

a. Allow engine to cool until a cylinder head temperature of not more than 100 degrees F is measured at the injector nozzle flange surface of all cylinders. Cooling will be accomplished by induced air currents, circulation of engine coolant, or by waiting the period of time required to arrive at the above specified temperature. When ambient temperature exceeds 100 degrees F, the engine will be cooled to a temperature equivalent to the ambient.

b. After the engine has been cooled disconnect fuel supply hose from the fuel tank and place in a portable container filled with preservative oil (Note 18, Item 12).

CAUTION

Ensure Pump assembly is filled (10 – 13 gallons) through priming port with fuel prior to starting engine. Do not use recovered fuel/preservative mixture to preserve other fuel systems. Failure to comply could result in damage to equipment.

c. Start engine and run until the engine runs rough indicating the engine is running on preservative oil then shut the engine down.

d. Disconnect supply fuel line from portable preservative oil container and reconnect fuel line to the fuel tank.

e. Drain filter and install new filters.

f. Remove pump drain plug and drain fuel into appropriate container.

13.2.4 Serpentine Belt

a. Loosen belt.

b. Lightly coat all unpainted surfaces of pulley grooves with a thin film of Primer Coating (Note 18, Item 18).

c. Prepare a tag for each belt driven accessory and attach a tag to each accessory. Each tag must indicate the following:

BELT TENSION RELIEVED - ADJUST PRIOR TO STARTING ENGINE.

13.2.5 Air Intake

CAUTION

Care must be taken to prevent any preservative from contacting nonmetallic elements. Failure to comply could result in damage to the air intake and engine.

a. Fabricate a plate of plywood, slightly larger than the air intake, and attach a 5/16-inch thick piece of rubber (same size as plywood) with MMM-A-260 adhesive. Place over the air intake.

b. Remove air cleaner filter elements and spray the untreated, unpainted interior metal surfaces of the air cleaner with Engine Lubricating Oil, PE-15W/40 Grade Preservative (Note 18, Item 12).

13.2.6 Engine Openings

Seal all openings into the engine (valve cover and crankcase breathers, oil filler caps, fuel cap vents, oil level dipstick, etc.) and into accessories with plastic caps or plugs or Pressure Sensitive Adhesive Tape (Note 18, Item 21).

13.2.7 Exhaust

a. Clean all dirt, rust and scale from surfaces requiring the application of contact preservative in accordance with MIL-STD-2073-1. Then coat with Heat Resisting Paint (Note 18, Item 17) or with Automotive and Artillery Grease (Note 18, Item 9).

b. Lightly spray a coat of Engine Lubricating Oil, PE-15W/40 Grade Preservative (Note 18, Item 12) on the interior surfaces of vertical exhaust stacks.

c. Seal all openings in the vertical exhaust stack, not equipped with rain caps, with plastic caps or plugs or Pressure Sensitive Adhesive Tape (Note 18, Item 21).

d. Red warning tag shall be prepared, indicating:

DE-PROCESS THIS ENGINE IN ACCORDANCE WITH INSTRUCTIONS CONTAINED ON DA FORM 2258 OR DD FORM 1397 (ATTACHED TO THIS EQUIPMENT)- IN ADDITION, THE AIR CLEANERS, FILL CAPS, EXHAUST STACKS OR TAIL PIPES, BREATHER TUBES, DIPSTICK TUBES, FUEL CAP VENT HOLES, BATTERY FILLER OPENINGS, AND THOSE IN ACCESSORIES HAVE BEEN SEALED – REMOVE ALL SEALS PRIOR TO CRANKING ENGINE

e. The tag shall be securely attached near the engine "START" controls.

13.3 Fuel and Bleed Tanks

CAUTION

The recovered fuel-oil mixture may be used in preserving other fuel tanks, but must be discarded when more than ten percent of the resultant mixture is fuel. Failure to comply could result in damage to equipment

a. Open drain petcock at the bottom of the tank and drain all fuel completely. Open bleed tank drain valve and drain all fuel completely.
b. Preserve all interior surfaces of the tank with Engine Lubricating Oil, PE-15W/40 Grade Preservative (Note 18, Item 12), using a system that will ensure saturation of all interior surfaces.
c. Allow tanks to stand, with drain petcock and drain valve open, until completely drained of all preservatives.
d. Wrap bleed tank sight gauge with barrier material (Note 18, item 3) and secure with tape (Note 18, item 21).
e. Close fuel tank drain petcock and bleed tank drain valve.
f. Seal the fuel tank fuel cap vent holes with Pressure Sensitive Adhesive Tape (Note 18, Item 21).

13.4 Batteries

Batteries, cables and retainers shall be installed and fully operational. Batteries shall be filled with electrolyte and fully charged. If storage of PRM exceeds 30 days, batteries are to be prepared as follows:

a. Disconnect the batteries.
b. Lightly coat the battery terminals and the contact plug at the end of the cables with Automotive and Artillery Grease (Note 18, Item 9) and wrap with Barrier Material (Note 18, Item 3) and secure with Pressure Sensitive Adhesive Tape (Note 18, Item 21).
c. Secure the battery cables to the battery carrier or compartment with Pressure Sensitive Tape (Note 18, Item 21).

13.5 Filter/Separator

a. If system has been fuel wetted, completely drain fuel from separator and remove all elements.
b. Close inlet and discharge valves.
c. Wrap differential pressure gauge and sight gauge with barrier material (Note 18, item 3) and secure with tape (Note 18, item 21).

13.6 Water Cans

Drain and Place Water (Qty 8) cans on designated racks located at the rear of the PRM and securely fasten.

13.7 600 GPM Pump

a. Remove bottom drain plug from the pump and completely drain fuel.

b. Remove priming port cap from pump.

c. Preserve pump with engine lubrication oil PE-15W/40 Grade preservative (Note 18, Item 12) using a system that will ensure saturation.

d. Allow pump to stand with drain plug removed until completely drained of all preservative fluid.

e. Install priming port cap and drain plug.

14) Miscellaneous Preservation

All exterior, unpainted surfaces and any semi-permanent surface treatment that provides only minimal corrosion protection shall be preserved with a contact preservative to protect the item from chemical deterioration, (see MIL-STD-2073-1, Table J III), for military contact preservatives. Preservatives selected shall be those where application, use, or removal shall not damage the item or impair item function.
Minor Rework: Prior to spot painting, Stage I, II, and III corrosion shall be removed by approved mechanical or chemical means.
Lubrications: All exposed oil can points such as, but not limited to, levers, locking bars, strikers, hinges, hinge pins, locking pins, pintle pins, locking levers, wing nuts, linkages, and threaded ends of yokes and related clevis pins shall be lubricated with preservative oil conforming to MIL-PRF-21260, PE 15-40, or MIL-PRF-32033. Working mechanism of padlocks, latches, door locks, and hand operated locking knobs shall also be lubricated with specified preservative oil.

15) Cyclic Maintenance Inspection and Preparation for Shipment
The Cyclic Maintenance Instructions contain procedures for the maintenance and inspection requirements when the PRM components will be stored for periods of both short and long term storage.

15.1 Inspection and Maintenance Rates

The intent of the Storage Plan is to keep each PRM System in a Condition Code A state so they can be deployed on short notice. Each component of the PRM Systems has a Storage Serviceability Standard; many of these items have low inspection rates. In general, Cyclic Maintenance for PRM System pacing items calls for in-place Inspection Rates (Class 2) of 50% annually, allowing the most critical items to be inspected a minimum of every other year. The PRM Storage Plan therefore includes a recommended rotational schedule which provides for the inspection of each PRM over a 24-month cycle.

15.2 Storage Plan Data

Application of the Storage Plan Data

Storage Plan data should be applied to any PRM system equipment stored at a particular depot activity or other location in the same manner. Initially, the plan data should be applied at the same “rates” as described herein and Adjustments based on observations during scheduled inspections and exercise may then be made. Certain modifications may be required due to storage conditions. These modifications should be considered and specified at the time of storage.

The objective of this Storage Plan is to ensure all equipment is maintained in Condition Code (CC) A with no defects or missing items. Allowable exceptions are covered in the applicable SSS.

Inspection reports and records will note the QDC determined in scheduled inspections and unscheduled inspections. A three-digit code is used – the first digit identifies the severity of the defect (critical 0, major 1, minor 2), the second digit identifies a general group of defects and the third digit identifies a specific defect within a general group. The QDC will be noted on field inspection reports for transfer to the computerized record; however, this does not relieve the inspector of the responsibility of describing the defects in detail on the field inspection report. They are to be reported following inspection and the condition must be corrected to Condition Code A prior to shipment.

The plan data is subject to revision and update to reflect any changes in configuration and packing. Any conflict between the plan data and the SSS’s should be reported for correction or clarification.

Scheduled Storage Action Rate

Existing storage plans should be consulted to determine how to incorporate the components of the PRM into existing storage action cycles. Equipment exercise and inspection rates may be modified to reflect local storage requirements.

Definitions, Tables, and Shelf Life Codes

Various acronyms, used in this section and in the tables that follow, are briefly summarized here for convenience.

Acronym	Definition
BIR	Box/Bundle External Inspection Rate
CC	Condition Code
EER	Equipment Exercise Rate
	Class A – Hand Powered Movement
	Class B – Rotation with External Power
	Class A/B – Combination of A & B
	Class C – Operation under integral Power
EIR	Equipment Inspection Rate
	Class 1 – Open container/box inspection (in place)
	Class 2 – Detailed inspection of each item
ETR	Equipment Test Rate
PPC	Preservation/Packing Code
QDC	Quality Defect Code
SLC	Shelf Life Code
SSS	Storage Serviceability Standard
TSC	Type of Storage Code

Storage Plan Tables

Storage action schedules will be constructed from the information in these tables and the information in the tables is subject to adjustment as inventory changes and Storage Serviceability Standards (SSS) are modified or expanded. The information presented in the tables is described below:

Column 1 – Container Number

Column 1 shows the MFS Module identification.

Column 2 – Contents

Column 2 lists and identifies the contents of each Module. It contains the item nomenclature, NSN or Drawing Number or Part Number (as applicable), and quantity.

Column 3 – Storage Serviceability Standard Number

Column 3 lists the identification number of the Storage Serviceability Standard (SSS) which applies to the piece of equipment shown in Column 2 and must be referred to for proper performance of Cyclic Maintenance.

Column 4 – Preservation and Packing Code

Column 4 lists the Preservation and Packing Code (PPC) required. This will match the method of preservation called out in notes 11 and 12 of this instruction.

Column 5 – Type of Storage Code

Column 5 shows the Type of Storage Code (TSC), specifying the storage conditions. The TSC designations are:

B Unheated warehouse (General Purpose)

C Controlled humidity warehouse

G Shed, non-warehouse space

O Open, improved space (See note 1)

Notes:

Can be concrete, black top, crushed stone or gravel. Must be accessible to Materials Handling Equipment (MHE) for rapid load-out.

Column 6 – Shelf Life Code

Column 6 shows the Shelf Life Code (SLC):

An alpha or numerical code assigned to a shelf-life item to identify the period of time, beginning with the date of manufacture, cure date, or assembly date. Terminated by a date on which the item must be used or be subject to inspection/test/restorative or disposal action. There are two types or shelf-life codes:

- **Type I** – An item of supply which is determined, through an evaluation of technical test data and/or actual experience, to be an item with a definite (non-extendible) period of shelf-life.
- **Type II** – An item of supply having an assigned shelf-life time period which may be extended after the completion of a prescribed inspection/test and/or restorative action.

SHELF LIFE CODE

Explanation	Type I (Non-Extendible)	Type II (Extendible)
Non-Deteriorative	0	0
1 Month	A	
2 Months	B	
3 Months	C	1
4 Months	D	
5 Months	E	
6 Months	F	2
9 Months	G	3
12 Months	H	4
15 Months	J	
18 Months	K	5
21 Months	L	
24 Months	M	6
27 Months	N	
30 Months	P	
36 Months	Q	7
48 Months	R	8
60 Months	S	9

Notes:

1. Military essential items with shelf life of greater than 60 months (five years) will be assigned shelf life Code “X”.
2. All MFS equipment is initially classified Type II.
3. Report any evidence of deterioration of items coded “0”. The fact that non-expiration dated materiel has exceeded its shelf life does not mean the stock should be disposed of, but rather inspected/tested and subjected to restorative actions. In some cases, reclassification may be necessary.
4. Non-deteriorative code “0” assumes adequate preservation, packing, and storage. Defective preservation, packing, and storage can result in deterioration and cause the need for restorative actions or replacement.
5. All gaskets, O-rings, and other pliable or porous sealing devices are initially considered as individually having a SLC of “9 and extendible” regardless of the SLC of the equipment of which it is a part. This applies whether it’s installed or packed separately.
6. Certain items that are subject to deterioration may be packaged with major equipment that has been designated SLC “0”. These items will be inspected when the major equipment is inspected. A revised SLC will be assigned to the major equipment if necessary.
7. SLC’s are subject to review and possible revision based on inspection, test, and exercise results.

Column 7 – Condition Code

Column 7 lists the Supply Condition Codes (CC). The supply system must reflect the actual condition code of a particular item. For various reasons, the Supply Condition Code may deviate from Condition Code A, but corrective action must be taken to return it to Condition Code A.

Column 8 – Box/Bundle Inspection Rate

Column 8 shows the Box/Bundle Inspection Rate (BIR) as defined in SSS 01. A thorough initial receipt inspection may be accepted as the first year Storage Action requirement.

Column 9 – Equipment Inspection Rate

Column 9 shows scheduled Equipment Inspection Rates (EIR) in percent of inventory per year. Sub-column 9a is the schedule of Class 1 equipment inspection rates. Class 1 inspections are not applicable to most items; they merely require opening the container/box and inspecting as defined in the Storage Serviceability Standards (SSS). The Class 1 inspection schedule assumes that there has been a mandatory initial receipt inspection. Sub-column 9b is the schedule of Class 2 equipment inspection rates as defined in the Storage Serviceability Standards (SSS). Class 2 inspections calls for a thorough inspection of all equipment therein. For schedule coding, the Class 1 inspections will be coded EIR-1 and Class 2 inspections EIR-2. Thorough item-by-item inspection on receipt will be accepted as the EIR-2 first year Storage Action requirement to the extent it is accomplished.

Column 10 – Equipment Test Rate

Column 10 is the scheduled Equipment Test Rate (ETR) in percent of inventory per year. Testing is primarily a pressure or leak test and is not to be confused with exercise. Tests on certain equipment that may be required after repairs, such as functional testing, are not included in the ETR listing.

Column 11 – Equipment Exercise Rate

Column 11 is the scheduled Equipment Exercise Rate (EER) in percent of inventory per year. Class A, Class B, and Class C exercises are defined in the Storage Serviceability Standards (SSS) with instructions on each type of equipment to be exercised.

Class A	Exercise is movement or rotation by manual power only.
Class B	Exercise is the jack-over of equipment through electric power to its own starting system without actually operating the equipment. On certain equipment there may be a combination of Class A and Class B exercise designated as A/B and listed under Class B.
Class C	Exercise is the actual operation of equipment under its own power. It is the intent to minimize Class C exercise to a sampling rate, so as to prove that the preservation practices, and Class A and B exercises, are adequate and the equipment will operate when deployed. Class C exercise is, by nature, both costly and time-consuming in man-hours, deprocessing, and processing of the equipment. Also, a degree of risk is involved in damaging otherwise serviceable equipment while exercising or incident to re-packing the materiel.

Column 12 – Notes

This column is intended for any special information by the scheduler or parties performing Cyclic Maintenance work.

MFS **Storage Plan Tables**

MODULAR FUEL SYSTEM MFS **STORAGE Plan Data**
Pump Rack Module

NSN: 4930-01-517-6942

1	2	3	4*	5	6	7	8	9A & B		10	11A, B & C			12
Module	**IDENTIFICATION AND QUANTITY OF CONTENTS**	**SSS NO.**	**PPC**	**TSC**	**SLC**	**CC**	**BIR %/YR**	**EIR %/YR CLASS 1**	**EIR %/YR CLASS 2**	**ETR %/YR**	**EER %/YR CLASS A**	**EER %/YR CLASS B**	**EER %/YR CLASS C**	**NOTES**
PRM	(1) Pump Rack Module –MFS P/N 98255/810650-301	02		B	0	A			50			10	2	
	(1) Engine and Pump Assembly, 600 GPM P/N 98255/ 810380-301	12		O	0	A			50			10	2	
	(1) Filter Separator P/N 98255/810002-301	09		O	0	A			5					
	(1) Battery, 6TMF, Military P/N 9750N7025, Type III	16		B	9	A			5					
	(1) Flow Meter Assembly P/N 98255/810013-301	11		O	0	A			10					
	(4) Hose Assembly, 4” x 15’ with M/F Cam-locks P/N 0DT23/84005	04		B	9	A		50	5					
	(7) Hose Assembly, 3” x 50’ w/3” Valved Unisex P/N 0DT23/84004	04		B	9	A		50	5					
	(4) Hose Assembly, 3” x 50’ w/2” and 3” Valved Unisex & Special End P/N 0DT23/84003	03		O	9	A		50	5					

*See notes 11 and 12 for method of preservation.

MODULAR FUEL SYSTEM MFS STORAGE Plan Data
Table 6-1
Pump Rack Module
NSN: 4930-01-517-6942

1	2	3	4*	5	6	7	8	9A & B		10	11A, B & C			12
Module	**IDENTIFICATION AND QUANTITY OF CONTENTS**	**SSS NO.**	**PPC**	**TSC**	**SLC**	**CC**	**BIR %/YR**	**EIR %/YR CLASS 1**	**EIR %/YR CLASS 2**	**ETR %/YR**	**EER %/YR CLASS A**	**EER %/YR CLASS B**	**EER %/YR CLASS C**	**NOTES**
PRM (continued)	(2) Hose Assembly, 2" x 50' w/2" Valved Unisex & Special End P/N 0DT23/84006	03		O	9	A		50	5					
	(1) Hose Assembly, 4" x 21' w/ M/F Cam-locks, Caps and Plug P/N 0DT23/84002-A	03		O	9	A		50	5					
	(1) Hose Assembly, 3" X 50'with Unisex Valve P/N 0DT23/84008	03		B	9	A		50	5					
	(1) Aviation Petroleum Test Kit P/N 19204/57K6311	15		B	0	A			5					
	(1) Fuel Spill Control Kit P/N 0N54W/13-65SEI	14		B	0	A			2					
	(8) Water Can, 5 Gallon P/N 45152/3819249	14		B	0	A			2					
	(9) Grounding Rod P/N 19207/13219E0462	14		B	0	A			2					
	(10) Extinguisher, Fire, BC Fire, Type 1, Class 2, Size 20 LBS P/N03670/429011	10		O	0	A			20					
	(1) Drip Pan P/N 39428/4204T4	14		B	0	A			2					

*See notes 11 and 12 for method of preservation.

*See notes 11 and 12 for method of preservation.

MODULAR FUEL SYSTEM MFS **STORAGE Plan Data**

Pump Rack Module

NSN: 4930-01-517-6942

1	2	3	4*	5	6	7	8	9A & B		10	11A, B & C			12
Module	**IDENTIFICATION AND QUANTITY OF CONTENTS**	**SSS NO.**	**PPC**	**TSC**	**SLC**	**CC**	**BIR %/YR**	**EIR %/YR CLASS 1**	**EIR %/YR CLASS 2**	**ETR %/YR**	**EER %/YR CLASS A**	**EER %/YR CLASS B**	**EER %/YR CLASS C**	**NOTES**
PRM (continued)	(10) Drip Pans P/N 57AD8/101020	14		B	0	A			2					
	(1) NATO Inter-vehicle Cable and Plug Assembly P/N 19207/11682336-1	14		B	0	A			2					
	(1) Coupling , 3” Valved Unisex w/4” Male Camlock P/N 0DT23/64031PQ	07		B	0	A			2					
	(2) Coupling , 3” Valved Unisex w/4” Female Camlock P/N 0DT23/64031MQ	07		B	0	A			2					
	(1) Reducer 4” Male Camlock to 3” Male Camlock P/N 33813/602840301	08		B	0	A			2					
	(1) Coupling, 2” Valved Unisex w/3” Female Camlock P/N 0DT23/6432071Q	07		B	0	A			2					
	(1) Coupling, 2” Valved Unisex w/3” Male Camlock P/N 0DT23/6432062Q	07		B	0	A			2					

MODULAR FUEL SYSTEM MFS STORAGE Plan Data Table
Pump Rack Module
NSN: 4930-01-517-6942

1	2	3	4*	5	6	7	8	9A & B		10	11A, B & C			12
Module	**IDENTIFICATION AND QUANTITY OF CONTENTS**	**SSS NO.**	**PPC**	**TSC**	**SLC**	**CC**	**BIR %/YR**	**EIR %/YR CLASS 1**	**EIR %/YR CLASS 2**	**ETR %/YR**	**EER %/YR CLASS A**	**EER %/YR CLASS B**	**EER %/YR CLASS C**	**NOTES**
PRM (continued)	(4) Tee, 3" Valved Unisex P/N 0DT23/64190	07		B	0	A			2					
	(2) Tee, 4" Camlock F-M-M P/N 33813/810117-301	07		B	0	A			2					
	(2) Coupling 2" Valved Unisex w/ 2" Female Camlock P/N 0DT23 00624/AE88050R	07		B	0	A			2					
	(2) Coupling, 2" Valved Unisex w/ 2" Male Camlock	07		B	0	A			2					
	(1) Adaptor Coupling 3" Unisex Valve X 2" Unisex Non Valve P/N 98255/810680-301	07		B	0	A			2					
	(1) Adaptor 4" Female X 4" Female Camlock P/N 98244/810682-301 P/N 00624/AE88038R	07		B	0	A			2					
	(1) Elbow Adaptor 3" Unisex Valve X 2" Unisex Valve P/N 98255/810681-301	07		B	0	A			2					
	(2) Reducer, 4" Female to 2" Male Camlock P/N 33813/602644020SG	08		B	0	A			2					
	(1) Coupling, 4" Female to 3" Male Camlock P/N 58536/AA59326/12-1-A-1	08		B	0	A			2					

*See notes 11 and 12 for method of preservation.

MODULAR FUEL SYSTEM MFS STORAGE Plan Data Table
Pump Rack Module
NSN:4930-01-517-6942

1	2	3	4*	5	6	7	8	9A & B		10	11A, B & C			12
Module	**IDENTIFICATION AND QUANTITY OF CONTENTS**	**SSS NO.**	**PPC**	**TSC**	**SLC**	**CC**	**BIR %/YR**	**EIR %/YR CLASS 1**	**EIR %/YR CLASS 2**	**ETR %/YR**	**EER %/YR CLASS A**	**EER %/YR CLASS B**	**EER %/YR CLASS C**	**NOTES**
PRM (continued)	(1) Coupling, 4" Male to 3" Female Camlock Reducer P/N 33813/602630401	08		B	0	A			2					
	(1) Coupling, NATO, Rail Tanker P/N 97403/13222E8219-1	08		B	0	A			2					
	(1) Adapter, NATO, (NPT) G3A x 3-8 P/N 33813/90007	08		B	0	A			2					
	(1) Adapter, NATO, (NPSH) G3A x 3-8 P/N D9779/RN300/3-8 (NPSH)	08		B	0	A			2					
	(1) Adapter, NATO Female Coupling Half, 3" P/N D2274/850-300300-130	08		B	0	A			2					
	(1) Adapter, NATO Male Coupling Half, 3" P/N D2274/410-300300-130	08		B	0	A			2					
	(1) Adapter, NATO, Hose Coupling, G3A P/N D2274/853-300300-130	08		B	0	A			2					
	(1) Adapter, NATO Female Coupling Half, Tank Truck, G3 P/N D2274/832-300300-133	08		B	0	A			2					

*See notes 11 and 12 for method of preservation.

MODULAR FUEL SYSTEM MFS **STORAGE Plan Data Table**
Pump Rack Module

NSN: 4930-01-517-6942

1	2	3	4*	5	6	7	8	9A & B		10	11A, B & C			12
Module	**IDENTIFICATION AND QUANTITY OF CONTENTS**	**SSS NO.**	**PPC**	**TSC**	**SLC**	**CC**	**BIR %/YR**	**EIR %/YR CLASS 1**	**EIR %/YR CLASS 2**	**ETR %/YR**	**EER %/YR CLASS A**	**EER %/YR CLASS B**	**EER %/YR CLASS C**	**NOTES**
PRM (continued)	(1) Adapter, NATO Male Coupling Half, Tank Truck, G3 P/N D2274/833-300300-130	08		B	0	A			2					
	(8) Aircraft Pressure Refueling Nozzle, D-1 W/2" Valved Unisex P/N 0DT23/64201CHV5	08		B	0	A			2					
	(2) CCR Nozzle, w/2" Valved Unisex P/N 0DT23/64017E	13		B	0	A			5					
	(8) Nozzle, 1-1/2" Automatic Shutoff w/2" Valved Unisex P/N 0DT23/64199	13		B	0	A			5					
	(4) Nozzle, 1" Automatic Shutoff w/2" Valved Unisex P/N 0DT23/64211	13		B	0	A			5					

GROSS WEIGHT: 18,300 POUNDS (APPROXIMATE)

VOLUME: 1200 CUBIC FEET

*See notes 11 and 12 for method of preservation.

15.3 Storage Serviceability Standards

General

Storage Serviceability Standards (SSS) are the prime documents to guide the Inspection and Cyclic Maintenance program. All schedules, work orders, actions, reports, and records stem from the SSS's. The SSS's provide information and instructions on inspection, testing, minor repair, exercise, preservation, packing, and storage. They provide information on shelf life and frequencies of required inspection actions.

Organization of Storage Serviceability Standards (SSS)

Storage Serviceability Standards (SSS) provide information and instructions on the inspection, testing, minor repair, exercise, preservation, packing, and storage of materials and equipment. Each SSS covers specific pieces of equipment or categories of equipment as appropriate. In this document, each SSS is given an identification number (SSS xx).

Information and Instructions

The general format used for the SSS's is given below. When detailed instruction or information is available in another document, that document will be referenced rather than repeat detail in the SSS. Many of the SSS's reference use of certain forms to report inspection activities/results.

Storage Serviceability Standard Data Outline

Application

NSN	Description
_____	_____
_____	_____

Shelf Life Code (SLC)

Explanation	Type I (Non-Extendible)	Type II (Extendible)
Non-Deteriorative	0	0
1 Month	A	
2 Months	B	
3 Months	C	1
4 Months	D	
5 Months	E	
6 Months	F	2
9 Months	G	3
12 Months	H	4
15 Months	J	
18 Months	K	5

21 Months	L	
24 Months	M	6
27 Months	N	
30 Months	P	
36 Months	Q	7
48 Months	R	8
60 Months	S	9

Notes

a. Military essential items with a shelf-life of greater than 60 months (5 years) will be assigned shelf-life code X.

b. All equipment and materials for PRM are initially classified Type II.

c. All equipment and materials, regardless of the initially assigned shelf life code, must be maintained in Condition Code A.

d. All pliable or porous non-metallic gasketing, packing, and sealing rings are assigned a shelf life code 9 (extendible) regardless of the SLC of the equipment in which it is installed. Replacement is normally minor repair.

Type of Storage

Description	Type of Storage Code (TSC)
Non-controlled temperature warehouse	B
Open, improved space	O

Equipment Inspection Instructions

a. Will state any special instructions needed for:

Inspection Class 1 – Inspect without removing from box/crate or container.

Inspection Class 2 – Detailed inspection outside of box/crate.

b. Work orders and schedules will state the Class of Inspection: 1 or 2.

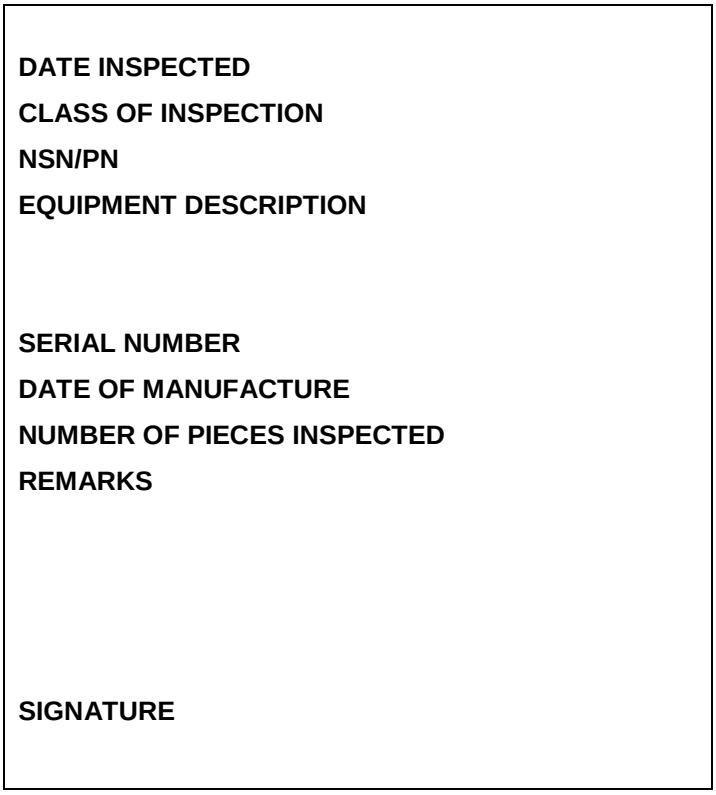
c. SSS will state the frequency and sample size as a rate in terms of percent of inventory per year. The box/crate inspection rate, applicable to SSS 01 only, will be designated as BIR in the storage plan and schedule. The scheduled equipment inspection rates are designated as EIR-1 for Class 1 Equipment Inspection Rate, and as EIR-2 for Class 2 Equipment Inspection Rate in the storage plan and schedule.

d. The SSS will state the basis on which the rate of inspection can be adjusted.

e. The inspection report, in addition to detailed observations as appropriate, will note a Quality Defect Code.

f. All equipment and storage containers inspected will be tagged with an appropriately sized label containing the information shown on the sample in Figure 9.

FIGURE 9
SAMPLE INSPECTION TAG OR LABEL



Firmly attach in transparent water-proof envelope to box or crate immediately under the identification markings. Firmly attach additional copy in transparent waterproof envelope to equipment inspected.

Equipment Testing Instructions

a. Instructions will describe the test criteria and/or reference the applicable technical documents for such information.

b. The frequency and sample size for scheduled tests are shown as Equipment Test Rates (ETR) in percent per year.

c. Instructions will state the criteria for modifying the rate of testing (ETR).

Equipment Exercise Instructions

a. Applicable primarily to rotating and reciprocating machinery.

b. Methods of exercise will be one of the following classes:

Exercise Class A - Manual movement or with power external to the equipment as specified.

Exercise Class B – Jack over (rotate) by application of electric power to the integral engine starter.

Exercise Class C – Full operation under its own power.

c. Will describe procedures and/or refer to an applicable technical document. Will state the Equipment Exercise Rate (EER) in percent of inventory per year by class.

Minor Repair

The need for repair will be stated in inspection reports. Proceed with minor repairs as authorized by the appropriate Agency. The definition of minor repair is as defined in AR 740-3. The disposition and action taken on equipment requiring repairs in excess of the definition of minor repairs will be determined by the appropriate agency.

Preservation

Will state preservation practice and/or refer to technical documents covering such. Preservation must be to Notes 11 and 12 of this S&SI and other applicable documents.

Packing

Will reference the appropriate packing documents specifications.

References

Will list the primary references required.

Cross References

Instructions, schedules, work orders, etc., issued for services in support of cyclic maintenance must reference the applicable SSS. Note 15.2 identifies the components of the PRM and can be utilized to cross-reference to the applicable SSS numbers.

Applicable Storage Serviceability Standards (SSS)

The Storage Serviceability Standards (SSS) applicable to the PRM are.

SSS 01	Boxes/Intermediate Containers/Bundles
SSS 02	Pump Rack Module
SSS 03	Dispensing Hoses with Attached Fittings
SSS 04	Suction Hoses with Attached Fittings
SSS 05	Valve Assemblies, Ball
SSS 06	Valve Assemblies, Butterfly
SSS 07	Valved Fittings and Assemblies
SSS 08	Non-Valved Fittings and Assemblies
SSS 09	Filter Separator
SSS 10	Hand Held Fire Extinguishers
SSS 11	Meter Assembly
SSS 12	Engine and 600 GPM Pump Assembly
SSS 13	Nozzle Assemblies
SSS 14	Miscellaneous Equipment
SSS 15	Aviation Petroleum Test Kit
SSS 16	Batteries

BOXES/INTERMEDIATE/BUNDLES CONTAINERS
SSS 01

1.0 Application

All boxes/Intermediate Containers in MFS Modules

2.0 Shelf Life Code SLC X

Subject to inspection and maintenance.

3.0 Type of Storage

Boxes/Crates:

4.0 Boxes/Crate Inspection

4.1 Inspect all boxes/crates externally. Inspect in place. Need not be unstacked unless there is evidence of probable deterioration or unstacking is required for inspection. Includes inspection of identification markings, and packing list envelope protective cover (when applicable). Report on Form S-1.

4.2 Inspect any box/crate internally whenever opened for Class 1 or 2 inspection of contents. Includes inspection of the condition of the internal water-proof envelope containing parts list and installation instructions. Report on Form S-1.

4.3 Inspection of boxes/crates includes:

Condition of fasteners

Condition of strapping

Evidence of dampness

Evidence of mildew

Readability and completeness of external identification markings

Presence and condition of packing list cover (external)

Presence and condition of packing list and technical data envelope(s)

Presence and condition of special handling and transportation labels and markings

Internal protruding fasteners or other conditions likely to damage contents

Evidence of seepage

Presence and conditions of inspection tags when applicable

5.0 Equipment Testing Instructions Not routinely applicable.

6.0 Equipment Exercise Instructions Not applicable.

7.0 Repairs

Proceed with repairs, replacement, relabeling, and remarking as necessary, and as authorized by the appropriate agency.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

PUMP RACK MODULE
SSS 02

1.0 Applicable

National Stock Number,

Drawing Number or Part No. Description

98225/810650-301 Pump Rack Module

Notes: Refer to SSS 01, SSS 03, SSS 04, SSS 05, SSS 06, SSS 07, SSS 08, SSS 09, SSS 10, SSS 11, SSS 12, SSS 13, SSS 14, SSS 15, and SSS 16 regarding components mounted or stored on the Pump Rack Module.

2.0 Shelf Life Code SLC 0

Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage

TSC – B, G or 0 depending on facilities available.

4.0 Equipment Inspection Instructions

Refer to SSS 01, SSS 03, SSS 04, SSS 05, SSS 06, SSS 07, SSS 08, SSS 09, SSS 10, SSS 11, SSS 12, SSS 13, SSS 14, SSS 15, and SSS 16 regarding components mounted or stored on the Pump Filtration Module.

4.1 Class 1 Equipment Inspection

Not routinely applicable. Conduct Class 1 inspection only if module is being prepared for operation or shipment

a. Inspectors and other personnel must be highly knowledgeable of the equipment before proceeding. Thoroughly study the Department of the Army Technical Manual TM 10-4930-367-10.

b. Inspect for evidence of corrosion, damage, moisture, rodents and any deterioration. If corrosion, damage, or any deterioration is evident submit the unit to a Class 2 inspection.

c. Tag equipment with inspection date and serial number. Report on Form S-2.

4.2 Class 2 Equipment Inspection

a. Inspect externally at a minimum frequency of twice per year. Inspect in place.

b. Inspectors and other personnel must be highly knowledgeable of the equipment before proceeding. Thoroughly study the Department of the Army Technical Manual TM 10-4930-367-10.

c. Perform thorough Class 2 inspections of the Filter Separator 600 GPM Pump Assembly, Assembly, and the Meter Assembly.

d. Lubricate, represerve, and repack, as required.

d. Tag equipment with inspection date and serial number. Report on Form S-2.

4.3 Equipment Inspection Rate

a. Class 1 Equipment Inspection Rate, (EIR-1) is not routinely applicable.

b. Class 2 Equipment Inspection Rate, (EIR-2) is 50 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions Not routinely applicable, except after major repair.

Refer to SSS 01, SSS 03, SSS 04, SSS 05, SSS 06, SSS 07, SSS 08, SSS 09, SSS 10, SSS 11, SSS 12, SSS 13, SSS 14, SSS 15, and SSS 16 regarding components mounted or stored on the Pump Rack Module.

6.0 Equipment Exercise Instructions

Refer to SSS 01, SSS 03, SSS 04, SSS 05, SSS 06, SSS 07, SSS 08, SSS 09, SSS 10, SSS 11, SSS 12, SSS 13, SSS 14, SSS 15, and SSS 16 regarding components mounted or stored on the Pump Rack Module.

6.1 Class B Equipment Exercise

a. Perform a thorough Class 2 inspection of the Pump Rack Module.

b. Perform the Class B equipment exercise requirements for the Filter Separator, Engine and 600 GPM Pump Assembly and the Meter Assembly.

c. Tag the equipment with the exercise date and Serial number. Report on Form S-3.

6.2 Class C Equipment Exercise

a. Perform the Class C equipment exercise requirements for the Filter Separator, Engine and 600 GPM Pump Assembly and the Meter Assembly.

b. Initiate action to correct any problems. If operations are satisfactory process the Pump Filtration Module for storage in accordance with the Department of the Army technical manuals.

6.4 Equipment Exercise Rate

a. Class 2 Equipment Exercise Rate, (EER-B) is 10 percent per year.

b. Class 3 Equipment Exercise Rate, (EER-C) is 2 percent per year

7.0 Minor Repair

Proceed with repairs, painting, remarking, lubrication, and preservation of moving parts as necessary and authorized by the appropriate agency.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

DISPENSING HOSES WITH ATTACHED FITTINGS
SSS 03

1.0 Application

National Stock Number

Drawing Number or Part No.	Description
0DT23/84004	Hose Assembly, 3" x 50' Type A with 3" Valved Unisex
0DT23/84003	Hose Assembly, 3" x 50' with 2" Valved Unisex and Special End
0DT23/84006	Hose Assembly, 2" x 50' with 2" Valved Unisex and Special End
0DT23/84002-2	Hose Assembly, 4" x 21' with Male/Female Camlocks, Cap and Plug
0DT23/84008	Hose Assembly, 3" X 50' with 3" Unisex Valve and 3" Camlocks

Notes: a. Gaskets included as applicable

b. Refer to SSS 05, and SSS 06 regarding Valves contained in assemblies.

2.0 Shelf Life Code SLC 9 (Extendible)

Shelf life code is subject to revision based on inspection and testing results. Extension consideration will be based on inspection results.

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Visually inspect for apparent damage, mildew, rodents, dirt, any deterioration, corrosion and packing deficiencies. The Class 1 inspection will be done in place without removing the hose. If problems are apparent or probable, proceed with a Class 2 inspection. Tag with the inspection date. Report Form S-2.

4.2 Class 2 Equipment Inspection

Remove the hose from the storage location. Thoroughly inspect for cracks, deterioration, permanent deformation, extraordinary stiffness and any other damage. Remove and replace all damaged hoses. Report on Form S-2.

4.3 Equipment Inspection Rate

a. Class 1 Inspection Rate, (EIR-1) is 50 percent per year.

b. Class 2 Inspection Rate, (EIR-2) is 5 percent per year.

c. Equipment inspection rates are subject to modification depending on inspection and test findings.

5.0 Equipment Testing Instructions

Not required, except after repair of bands or hose ends. Testing may be directed if reason is found to suspect the quality of a particular lot of fittings or assemblies. Test pressures will normally be 1.5 times the working pressure. Report on Form S-5.

6.0 Equipment Exercise Instructions

Not routinely applicable. Selected hose may be used in the exercise of the PRM. Such use must be recorded and reported on Form S-3.

7.0 Minor Repair

Repairs to the hose proper are not to be made. If there is a flaw or a break, the damaged hose is to be turned over to the appropriate agency for disposition. No repaired hose is to be available for deployment except by specific written appropriate agency directive. Replacement of faulty parts on the end fittings is permissible. Replacement of corroded or broken bands is permissible. Hose must be tested after any rebanding.

8.0 Preservation

Of primary importance is that the hose assembly be dry and clean inside and out before packing. Preservation shall be in accordance with Notes 11 and 12.

SUCTION HOSES WITH ATTACHED FITTINGS
SSS 04

1.0 Application

National Stock Number,

Drawing Number or Part No.	Description
0DT23/84005	Hose Assembly, 4" x 15' with Male/Female Cam-locks

2.0 Shelf Life Code SLC 9 (Extendible)

Shelf life code is subject to revision based on inspection results. Extension consideration will also be based on inspection results.

3.0 Type of Storage TSC-B

Storage Tubes. Non-controlled temperature warehouse.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Remove the suction hose from storage tubes and visually inspect for apparent damage, mildew, rodents, dirt, any deterioration, corrosion and packing deficiencies. If problems are apparent or probable, proceed with a Class 2 inspection. Tag with the inspection date. Report on Form S-2.

4.2 Class 2 Equipment Inspection

Remove the hose from the storage location. Thoroughly inspect for cracks, deterioration, permanent deformation or any other damage to the hose or seal. Remove and replace all damaged hoses and/or seals. Report on Form S-2.

4.3 Equipment Inspection Rate

a. Class 1 Equipment Inspection Rate, (EIR-1) is 50 percent per year.

b. Class 2 Equipment Inspection Rate, (EIR-2) is 5 percent per year.

c. Equipment inspection rates are subject to modification depending on inspection findings.

5.0 Equipment Testing Instructions

Not required, except after repair of bands or hose ends. Repaired hose ends are tested under pressure. Testing may be directed if reason is found to suspect the quality of a particular lot of fittings or assemblies. Test pressures will normally be 1.5 times the working pressure, or as stated in the applicable reference listed in Section 2. Report on Form S-5.

6.0 Equipment Exercise Instructions

Not routinely applicable. Selected hose may be used in the exercise of the PRM. Such use must be recorded and reported on Form S-3.

7.0 Minor Repair

Repairs to the hose proper are not to be made. Deformations of non-collapsible hose of less than 10 percent of the diameter are acceptable, provided the rubber or fabric is not broken or cracked. It is better to leave such minor deformations as they are, rather than attempt to straighten them. If there is a major deformation (in excess of 10 percent) of the diameter or if the hose is flawed, cracked, or broken, it should be turned over to the appropriate agency for disposition. No repaired hose is to be available for deployment except by specific written appropriate agency directive. Replacement of faulty parts on the end fittings is permissible. Replacement of corroded or broken bands is permissible. Hoses should be tested after any re-banding.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

VALVE ASSEMBLIES, BALL
SSS 05

1.0 Application

National Stock Number,

Drawing Number or Part No. Description

Various Ball Valve Assemblies associated with Hoses and PRM piping

Notes: Includes gaskets.

2.0 Shelf Life Code SLC 0

SLC 9 (Associated gaskets only)

Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Inspect per Class 1 (visual) only if valve is removed for other reasons.

4.2 Class 2 Equipment Inspection

Inspect the ball valve externally, noting any corrosion or lack of preservative coatings. Rotate the valve handle in place. Note any undue resistance to rotation. Initiate action for minor repairs as required. Tag with the inspection date and serial number, if applicable. Report on Form S-2.

4.3 Equipment Inspection Rate

a. Equipment Inspection Rate, (EIR-1) is not routinely applicable.

b. Equipment Inspection Rate, (EIR-2) is 2 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions

No routinely scheduled testing. Testing may be directed if reason is found to suspect the quality or condition of a particular valve or lot of valves. Test pressures will normally be 1.5 times the working pressure for that particular valve or assembly as stated in the applicable references. Report on Form S-5.

4.0 Equipment Exercise Instructions

Not routinely applicable except when associated with inspection and testing.

5.0 Minor Repair

If minor repairs are required as the result of inspection, or due to damage resulting from materials handling and storage, remove and replace.

6.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

VALVE ASSEMBLIES, BUTTERFLY
SSS 06

1.0 Application

National Stock Number,

Drawing Number or Part No. Description

Various Butterfly Valve Assemblies associated with Hoses and PRM piping

Notes: Includes gaskets.

2.0 Shelf Life Code SLC 0

SLC 9 (Associated gaskets only)

Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Inspect per Class 1 (visual) only if valve is removed for other reasons.

4.2 Class 2 Equipment Inspection

Inspect the butterfly valve externally, noting any corrosion or lack of preservative coatings. Rotate the valve handle in place. Note any undue resistance to rotation. Initiate action for minor repairs as required. Tag with the inspection date and serial number, if applicable. Report on Form S-2.

4.3 Equipment Inspection Rate

a. Equipment Inspection Rate, (EIR-1) is not routinely applicable.

b. Equipment Inspection Rate, (EIR-2) is 2 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions

No routinely scheduled testing. Testing may be directed if reason is found to suspect the quality or condition of a particular valve or lot of valves. Test pressures will normally be 1.5 times the working pressure for that particular valve or assembly as stated in the applicable references. Report on Form S-5.

6.0 Equipment Exercise Instructions

Not routinely applicable except when associated with inspection and testing.

7.0 Minor Repair

If minor repairs are required as the result of inspection, or due to damage resulting from materials handling and storage, remove and replace.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

VALVED FITTINGS AND ASSEMBLIES
SSS 07

1.0 Application

National Stock Number, Drawing Number or Part No.	Description
0DT23/64031PQ	Coupling, Valved Unisex with 4” Male Camlock
0DT23/64031MQ	Coupling, 3” Valved Unisex with 4” Female Camlock
0DT23/6432071Q	Coupling, 2” Valved Unisex with 3” Female Camlock
0DT23CMF7/6432062Q	Coupling 2” Valved Unisex with 3” Male Camlock
0DT23/64190	Tee, 3” Valved Unisex
33813/60264020SG	Reducer, 2” Camlock with 4” Female Camlock
00624/AE88038R	Coupling 2” Valved Unisex with 2” Male Camlock
00624/AE88050R	Coupling 2” Female Camlock with 2” Unisex valve
98255/810680-301	Adaptor Coupling 3 Unisex with 2” Unisex
98255/810681-301	Elbow Adaptor 3” Unisex with 2” Unisex
98255/810682-301	Adaptor 4” Female X 4” Female Camlock
33813/810117-301	Tee, 4” Valved Unisex

Notes: a. Gaskets included as applicable

b. Refer to SSS 05, and SSS 06 regarding Valves contained in assemblies.

2.0 Shelf Life Code SLC 0

SLC 9 (Associated gaskets only)

3.0 Type of Storage TSC-B

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Inspect per Class 1 (visual) only if item is removed for other reasons.

4.2 Class 2 Equipment Inspection

a. Inspect fittings and/or assemblies for corrosion. Inspect in detail for damage. Check for gasket cracking or damage. Check for missing parts. If minor repairs are necessary, remove and replace items. If no discrepancies are noted, represerve as necessary; repack and close container. Tag with inspection date. Report inspection on Form S-2.

b. Coordinate with inspections called for in SSS 05, and SSS 06 when valves are in assemblies.

4.3 Equipment Inspection Rate

a. Class 1 Equipment Inspection Rate (EIR-1) is not routinely applicable.

b. Class 2 Equipment Inspection Rate (EIR-2) is 2 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions

No routinely scheduled testing. Testing may be directed if reason is found to suspect the quality of a particular lot of fittings or assemblies. Test pressures will normally be 1.5 times the working pressure, or as stated in the applicable reference listed in Section 2. Report on Form S-5.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair

Minor repairs will not normally be required unless there is damage in storage. Remove and replace damaged parts. A badly scored gasket seating surface is reason to replace the seating element of the fitting.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

NON-VALVED FITTINGS AND ASSEMBLIES
SSS 08

1.0 Application

National Stock Number, Drawing Number or Part No.	Description
97403/13222E8219-1	Coupling, Rail, Tanker, NATO
33813/90007	Adapter, NATO, (NPT) G3A x 3-8
D9779/RN300/3-8 (NPSH)	Adapter, NATO, (NPSH) G3A x 3-8
D2274/850-300300-130	Adapter, NATO, Female Coupling Half, 3”
D2274/410-300300-130	Adapter, NATO, Male Coupling Half, 3”
D2274/853-300300-130	Adapter, NATO, Hose Coupling, G3A
D2274/832-300300-133	Adapter, NATO, Female Coupling Half, Tank Truck, G3
D2274/833-300300-130	Adapter, NATO, Male Coupling Half, Tank Truck, G3
33813/602640201	Reducer, 4” Female to 2” Male Camlock
58536/AA59326/12-1A-1	Coupling, 4” Female to 3” Male Camlock
33813/602630401	Coupling, 4” Male to 3” Female Camlock
33813/602640601	Reducer, 6” Male Camlock to 4” Female Camlock
98255/81682-301	Adaptor 4” Female with 4” female Camlock (new item)
98255/810681-301	Elbow Adaptor 3” Unisex Valve X 2” Unisex Valve

Notes: a. Gaskets included as applicable

2.0 Shelf Life Code SLC 0

SLC 9 (Associated gaskets only)

3.0 Type of Storage TSC-B

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Inspect per Class 1 (visual) only if item is removed for other reasons.

4.2 Class 2 Equipment Inspection

Inspect fittings and/or assemblies. Inspect in detail for damage. Check for gasket cracking or damage. Check for missing parts. If minor repairs are necessary, remove and replace items. If no discrepancies are noted, represerve as necessary; repack and close container. Tag with inspection date. Report inspection on Form S-2.

4.3 Equipment Inspection Rate

a. Class 1 Equipment Inspection Rate (EIR-1) is not routinely applicable.

b. Class 2 Equipment Inspection Rate (EIR-2) is 2 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions

No routinely scheduled testing. Testing may be directed if reason is found to suspect the quality of a particular lot of fittings or assemblies. Test pressures will normally be 1.5 times the working pressure, or as stated in the applicable reference listed in Section 2. Report on Form S-5.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair

Minor repairs will not normally be required unless there is damage in storage. Remove and replace damaged parts. A badly scored gasket seating surface is reason to replace the seating element of the fitting. For minor repair information refer to the applicable reference listed in Section 2.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

FILTER SEPARATOR
SSS 09

1.0 Application

National Stock Number,

Drawing Number or Part No. Description

98255/810002 Filter Separator, frame mounted 600 GPM capacity

Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Inspection per Class 1 only in conjunction with other inspections.

4.2 Class 2 Equipment Inspection

a. Thoroughly inspect externally for damage or corrosion. Open filter separator and check the condition of the filter elements. Check other internals and the filter separator walls for corrosion. Check gasket conditions. Rotate all valves full open to full closed.

b. If minor repairs are necessary, remove and replace. Otherwise, initiate action to re-preserve. Tag with inspection date and serial number. Report on Form S-2.

4.3 Equipment Inspection Rate

a. Equipment Inspection Rate (EIR-1) is not routinely applicable.

b. Equipment Inspection Rate (EIR-2) is 5 percent per year.

c. Equipment inspection rates are subject to modification depending on inspection findings.

5.0 Equipment Testing Instructions

No routinely scheduled testing. Pressure test may be directed if work is done on pressure parts, in which case the hydraulic pressure test will be 225 psig. Remove the filter elements prior to a pressure test. Do not subject filter elements to water without subsequent replacement. Report on Form S-5.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair

If minor repairs are undertaken as the result of inspection, or due to damage resulting from materials handling and storage, remove and replace.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

HAND-HELD FIRE EXTINGUISHERS
SSS 10

1.0 Application

National Stock Number,

Drawing Number or Part No. Description

04JH1/PK20 Extinguisher, Fire, BC Fire, Type 1, Class 2, Size 20 LBS

2.0 Shelf Life Code SLC 0

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Conduct Class 1 inspection only if container is opened for other reasons.

4.2 Class 2 Equipment Inspection

a. Check carefully for corrosion, damage, leakage and lack of external preservation.

b. Check external preservation and charge pressure in each 20 lb. fire extinguisher. If pressure is low or extinguisher is corroded, remove, replace and turn over to appropriate agency for disposition.

c. Tag Hand Held Fire Extinguishers with inspection date. Report on Form S-2.

4.3 Equipment Inspection Rates

a. Class 1 Equipment Inspection Rate (EIR-1) is not routinely applicable.

b. Class 2 Equipment Inspection Rate (EIR-2) is 20 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions

Not routinely Applicable.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair

No minor repairs other than cleaning and re-preservation are to be undertaken on this equipment. If faulty or requiring recharge, turn over to the appropriate agency for disposition and replace with fully-charged equipment.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

METER ASSEMBLY
SSS 11

1.0 Application

National Stock Number,

Drawing Number or Part No.	Description
98255/810013-303	Flow Meter Assembly

2.0 Shelf Life Code SLC 0

SLC 9 (Gaskets Only)

Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instruction

4.1 Class 1 Equipment Inspection

Not routinely applicable. Inspect per class 1 (visual) only if in conjunction with other inspections.

4.2 Class 2 Equipment Inspection

a. Inspect entire assembly externally for corrosion, damage or other deterioration.

b. Do not remove or disassemble the meter.

c. Tag equipment with inspection date and serial number. Report on Form S-2.

4.3 Equipment Inspection Rate

a. Equipment Inspection Rate, (EIR-1) is not routinely applicable.

b. Equipment Inspection Rate, (EIR-2) is 10 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions

Not routinely applicable.

6.0 Equipment Exercise Instructions

Not routinely applicable.

7.0 Minor Repair

If minor repairs are undertaken as the result of inspection, or due to damage resulting from materials handling and storage, remove and replace. Repair work to the meter itself must be handled only in a meter shop qualified by the appropriate authority to perform such repairs.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

Engine and 600 GPM PUMP ASSEMBLY
SSS 12

1.0 Application

National Stock Number,

Drawing Number or Part No.	Description
98255/ 810380-301	Engine and 600 GPM Pumping Assembly

2.0 Shelf Life Code SLC 0

Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Conduct Class 1 inspection only in conjunction with other inspections.

4.2 Class 2 Equipment Inspection

a. Inspectors and other personnel must be knowledgeable of the equipment. Review Department of the Army TM 10-4930-368-10, TM 10-4930-368-23 and references listed in Section 2.

b. Thoroughly inspect the engine and pump for corrosion, damage, adequacy of preservation and any deterioration.

c. Lubricate, represerve and repack, as required.

d. Tag the engine and pump assembly with the inspection date and serial number. Report on Form S-2.

4.3 Equipment Inspection Rates

a. Class 1 Equipment Inspection Rate, (EIR-1) is not routinely applicable.

b. Class 2 Equipment Inspection Rate, (EIR-2) is every 6 months or 50 percent per year.

c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions Not routinely applicable, except after major repair.

6.0 Equipment Exercise Instructions

6.1 Exercise Preparation

Thoroughly study the Technical Manual regarding operation and maintenance prior to beginning any exercise.

6.2 Class B Equipment Exercise

a. Conduct a thorough Class 2 inspection of the engine and pump.

b. Set up the engine and pump as if to operate.

c. Connect portable heavy duty external battery for power.

d. Mark the engine flywheel or alternator drive belt with a grease pencil so that the original degree of rotation is known.

e. With the integral starter, rotate the pump and engine 6 to 10 revolutions **in a start and stop action, not continuously, to avoid compression ignition.** Stop finally at a degree of rotation 90 degrees to 180 degrees different than that registered in d. above.

f. Externally inspect the engine, pump and all other parts thoroughly for breakage, corrosion and adequate preservation. Take action to correct deficiencies.

g. If operations were satisfactory, initiate action to process the engine and pump assembly for storage in accordance with the Technical Manual. Utilize and complete the U.S. Army Form DA 2258 as a guide to preserve as applicable.

h. Enter Condition Code, fill out Equipment Logbook and appropriate forms, and return to stock after final inspection.

i. Return the engine and pump to the properly preserved and packed condition. Upon completion of the exercise, preserve and restore pump to its original condition.

j. Tag the engine and pump assembly with exercise date and serial number. Report on Form S-3.

6.3 Class C Equipment Exercise

a. Conduct a thorough Class 2 inspection of the engine and pumping assembly.

b. Set up the pump and engine, de-processed and ready for operation, as described in the Technical Manuals. Use fully-charged utility batteries. Connect to fuel source and prime the pump.

NOTE:

ENSURE ELEMENTS FROM FILTER SEPARATOR ARE REMOVED

c. Start the engine and operate the pump under its own power, in accordance with the Technical Manual, at various speeds and discharge pressures for a period of 2-4 hours. Record all operating conditions.

d. Initiate action to correct any problems.

e. If operation was satisfactory, initiate action to process the pump assembly for storage in accordance with the Technical Manual. Utilize and complete the U.S. Army Form DA 2258 as a guide to preserve as applicable.

f. Enter Condition Code, fill out Equipment Logbook and appropriate forms, and return to stock after final inspection.

g. Tag the equipment with the exercise date and serial number. Report on Form S-3.

6.4 Equipment Exercise Rate

a. Class B Equipment Exercise Rate, (EER-B) is 10 percent per year.

b. Class C Equipment Exercise Rate, (EER-C) is 2 percent per year.

c. Inspection and exercise rates are subject to modification dependent on findings of the inspection and exercise program.

7.0 Pump Exercise

Pump exercising shall take place every 6 months in accordance with the following:

a. De-preserve batteries and connect batteries per section 3.

b. Remove priming port cap from pump and add 10-12 gallons of engine lubricating oil PE-15W/40 grade preservative (Note 18, Item 12).

NOTE

The priming port has a check valve ball. Use a funnel with a long enough spout to push down on the ball so preservation fluid cam be injected into the pump.

c. Turn engine over 2 revolutions but do not start engine.

d. Preserve batteries per section 3.

e. Preserve pump per section 3

8.0 Engine Exercise

Engine exercising shall take place every 12 months in accordance with the following:

a. De-preserve batteries and connect batteries per section 3.

b. Remove priming port cap from pump and add 10-12 gallons of engine lubricating oil PE-15W/40 grade preservative (Note 18, Item 12)

NOTE

The priming port has a check valve ball. Use a funnel with a long enough spout to push down on the ball so preservation fluid cam be injected into the pump.

c. Using an external fuel source run engine at idle for 5 minutes

CAUTION

Do not engage deadman switch as damage to the pump may occur.

d. Preserve batteries per section 3.
e. Preserve pump per section 3.
f. Preserve engine per section 3.

9.0 Minor Repair

Refer to TM 10-4930-368-10 and TM 10-4930-368-23.

10.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

NOZZLE ASSEMBLIES
SSS 13

1.0 Application

National Stock Number, Drawing Number or Part No.	Description
0DT23/64201CHV5	Aircraft Pressure Refueling Nozzle, D-1, with 2-inch Valved Unisex
0CMF7/64017E	CCR Nozzle, with 2" Valved Unisex
0CMF7/64199	Nozzle Assembly, 1.5-inch Automatic Shutoff with 2-inch Valved Unisex
0CMF7/64211	Nozzle Assembly, 1-inch Automatic Shutoff with 2-inch Valved Unisex

2.0 Shelf Life Code SLC-O
Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-B
Non-controlled temperature warehouse.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection
Not routinely applicable. Conduct Class 1 inspection only in conjunction with other inspections.

4.2 Class 2 Equipment Inspection
Inspect nozzles for evidence of moisture, corrosion, and damage. Check functionality of any valves, pivots, slides, etc. If there are problems, initiate clean up, preserve, replacement or repacking as appropriate. Preserve and repack if no discrepancies are noted. Tag equipment with inspection date. Report on Form S-2.

4.3 Equipment Inspection Rates
a. Class 1 Equipment Inspection Rate, (EIR-1) is not routinely applicable.
b. Class 2 Equipment Inspection Rate, (EIR-2) is 5 percent per year.
c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions Not routinely applicable.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair
Not routinely applicable. If item is unserviceable, remove and replace.

8.0 Preservation
Preservation shall be in accordance with Notes 11 and 12.

MISCELLANEOUS EQUIPMENT
SSS 14

1.0 Application

This Storage Serviceability Standard applies to non-deteriorating equipment not specifically covered by another SSS category. On assemblies that contain other items of equipment, refer to the SSS specifically for that item as necessary. For example, refer to SSS 05, or SSS 06 for the treatment of valves that are part of the assembly. The miscellaneous equipment category includes the following:

National Stock Number, Drawing Number or Part No.	Description
19207/13219E0462	Grounding Rod
0N54W/13-65SEI	Fuel Spill Control Kit
45152/3819249	Water Can, 5 Gallon
57AD8/101020	Drip Pan
39428/4204T4	Drip Pan
19207/11682336-1	NATO Intervehicle Cable and Plug Assembly

2.0 Shelf Life Code SLC-O

Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-O

Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection

Not routinely applicable. Conduct Class 1 inspection only in conjunction with other inspections.

4.2 Class 2 Equipment Inspection

Inspect components for evidence of moisture, corrosion, and damage. Check functionality of any moving parts. If there are problems, initiate clean up, preserve, replacement or repacking as appropriate. Re-preserve and repack if no discrepancies are noted. Tag equipment with inspection date. Report on Form S-2.

4.3 Equipment Inspection Rates

a. Class 1 Equipment Inspection Rate, (EIR-1) is not routinely applicable.
b. Class 2 Equipment Inspection Rate, (EIR-2) is 2 percent per year.
c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions Not routinely applicable.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair

Not routinely applicable. If item is unserviceable, remove and replace.

8.0 Preservation

Preservation shall be in accordance with Notes 11 and 12.

AVIATION PETROLEUM TEST KIT
SSS 15

1.0 Application

National Stock Number, Drawing Number or Part No.	Description
1SYQ5/78045-SP-100	Aviation Petroleum Test Kit

2.0 Shelf Life Code SLC-O
Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-O
Open Storage.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection
Not routinely applicable. Conduct Class 1 inspection only in conjunction with other inspections.

4.2 Class 2 Equipment Inspection
Inspect components for evidence of moisture, corrosion, and damage. Inspect case for deterioration and weather tightness. Remove and replace if discrepancies are found. preserve and repack if no discrepancies are noted. Tag equipment with inspection date. Report on Form S-2.

4.3 Equipment Inspection Rates

a. Class 1 Equipment Inspection Rate, (EIR-1) is not routinely applicable.
b. Class 2 Equipment Inspection Rate, (EIR-2) is 5 percent per year.
c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions Not routinely applicable.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair
Not routinely applicable. If item is unserviceable, remove and replace.

8.0 Preservation
Preservation shall be in accordance with Notes 11 and 12.

BATTERIES
SSS 16

1.0 Application

National Stock Number, Drawing Number or Part No.	Description
OWY95 /9750N7025	Battery, Dry Charged, ATPD 2206

2.0 Shelf Life Code SLC-9
Not inherently subject to deterioration if properly preserved and packed. Subject to damage if mishandled.

3.0 Type of Storage TSC-B
Non-controlled temperature warehouse.

4.0 Equipment Inspection Instructions

4.1 Class 1 Equipment Inspection
Not routinely applicable. Conduct Class 1 inspection only in conjunction with other inspections.

4.2 Class 2 Equipment Inspection
Inspect components for evidence of leaks, corrosion, and damage. Remove and replace if discrepancies are found. Preserve and repack if no discrepancies are noted. Tag equipment with inspection date. Report on Form S-2.

4.3 Equipment Inspection Rates

a. Class 1 Equipment Inspection Rate, (EIR-1) is not routinely applicable.
b. Class 2 Equipment Inspection Rate, (EIR-2) is 5 percent per year.
c. Equipment inspection rates are subject to modification dependent on inspection findings.

5.0 Equipment Testing Instructions Not routinely applicable.
If batteries are stored on the platform, check voltage and amperage across terminals. Remove and replace if voltage and amperage are not to requirements of ATPD 2206.

6.0 Equipment Exercise Instructions Not routinely applicable.

7.0 Minor Repair
Not routinely applicable. If item is unserviceable, remove and replace.

8.0 Preservation
Preservation shall be in accordance with Notes 11 and 12.

15.4 Schedules, Records, and Forms

Schedules

When available, existing Storage action plans and schedules should be used to schedule Storage Actions activities for the components of the PRM. A qualified Storage action plan will:

- Satisfy the requirements of the Storage Plan and subsequent revision of that plan. When applicable, the cyclic maintenance schedule may be revised based on qualified technical advice, findings during inspections, tests, and exercises. The plan data and the related SSS will be revised to reflect any subsequent changes that occur as soon as possible.
- Take into account the original packing date, or the last repacked date, and the date of the last Storage action on the particular equipment. Priority for cyclic maintenance will be assigned to equipment that has been longest in storage from the packing or repacking date without Cyclic Maintenance.
- Specify the particular system, subsystem, assembly, or module and container number that requires particular cyclic maintenance.
- Serve as the work order or work directive to the group executing cyclic maintenance. The work plan, to the extent possible, will take into account the location in storage so as to minimize materials handling requirements.

The Storage Plan schedule needs to include the following information:

a. Storage location.
b. Identification of equipment.
c. Pump-rack and Tank-rack number or serial number.
d. Time period in which Cyclic Maintenance is scheduled.
e. The specific Cyclic Maintenance required; i.e.:

EIR-1	(Equipment Inspection Rate 1)
EIR-2	(Equipment Inspection Rate 2)
ETR	(Equipment Test Rate)
EER-A	(Equipment Exercise Rate-A)
EER-B	(Equipment Exercise Rate-B)
EER-A/B	(Equipment Exercise Rate-Combination)
EER-C	(Equipment Exercise Rate-C)

f. Any special information.

Records

The group conducting cyclic maintenance will prepare the reports and maintain the records of cyclic maintenance actions and findings as called for in the Storage Serviceability Standards. The organization preparing the schedule and the cyclic maintenance records will promptly be furnished a copy of all such information at the end of each month.

In addition to these detailed records, the group conducting cyclic maintenance will prepare a monthly summary of cyclic maintenance and will promptly furnish a copy to the organization preparing the schedule. The monthly summary will contain the following information:

a. Identification of equipment.
b. Date on which action(s) was completed.
c. The specific Storage action(s) taken; i.e.:

EIR-1	(Equipment Inspection Rate 1)
EIR-2	(Equipment Inspection Rate 2)
ETR	(Equipment Test Rate)
EER-A	(Equipment Exercise Rate-A)
EER-B	(Equipment Exercise Rate-B)
EER-A/B	(Equipment Exercise Rate-Combination)
EER-C	(Equipment Exercise Rate-C)

d. The current (end of quarter) Quality Defect Code (QDC), and Condition Code (CC) if the condition is other than Condition Code A.

e. Any special notations needed for clarity.

The organization charged with the preparation of the monthly schedule will consolidate the information received to maintain a master record and publish it quarterly.

16) Preparation for Shipment

16.1 The MFS Transportability Report, December 2005, provides analyses and data related to shipment of the MFS through the transportation systems. The report reflects that the MFS can be safely shipped via various modes within the design weight and envelope configuration. The MFS modules may be shipped without any requirement for disassembly.

16.2 The MFS is capable of shipment by land, marine and specified air modes of transportation. Preparation of the PRM for both extended storage, after operation and shipment procedures and actions to ensure the platforms meet the transportability requirements of the selected mode. The primary purpose of the preparation procedures is to ensure the tanks, piping, pump and filtration vessels are properly inert, all power sources are made inoperative and all components are properly secured for protection from shipment stress loads and damage. Detailed procedures for accomplishing packing and preservation of system components are contained in Section 3.

16.3 The PRM has maintenance free batteries as power sources which must be disconnected and protected to prevent inadvertent arcing. Use of maintenance free batteries precludes measures for special packing and securing of hazardous electrolyte. Preparation procedures required for the batteries include:

a. Disconnect cables from battery terminals and wrap terminal connectors with barrier material and secure cables with ties or tape to the battery case or hold downs

b. Preserve and place protective barrier material over battery terminals and secure with tape

c. Inspect and tighten restraint devices to prevent movement of the batteries and secure battery case cover with fasteners provided.

16.4 The PRM pump engine has a fuel supply tank with multiple replenishment capability, including transfer fill line, conventional filler cap and venting mechanisms. Preparation procedures for the engine fuel system include:

Drain residual fuel from engine fuel tank and supply lines into an approved container. Purge tank of fuel vapors. Mist tank interior with approved Preservative Oil and replace and seal filler cap.

16.5 The PRM pump housing is equipped with a low point drain.

a. Drain the pump housing and connecting piping into an approved container from the low point drains. Purge pump housing and connecting piping of fuel vapors and dry interior.

b. Mist pump housing interior with approved Preservative Oil, drain excess from low point drain and replace drain plug.

16.6 Piping on the PRM may be drained of residual fuel through low point drains and inlet or discharge connections.

a. Drain residual fuel from piping into approved containers from low point drains or from the inlet and discharge connections. Purge piping of remaining fuel vapors and dry piping interior surfaces.

b. Close or replace all low point drain plugs and caps and plugs on inlet and discharge connections.

16.7 The Filter Separator assemblies on the PRM are equipped with sumps and low point drains to facilitate removal of residual fuel. However, the elements in the filter separator ill retain fuel that cannot be removed by draining and must be removed for most modes of shipment.

a. Close inlet and discharge valves on the filters separator and piping.

b. Drain the filter separator from the low point drains on the sumps of the housings.

WARNING

IF THE MFS **IS BEING PREPARED FOR SHIPMENT BY AIR, MARINE OR COMMERCIAL LAND TRANSPORTATION, OR LONG TERM STORAGE, FUEL WETTED ELEMENTS OF THE FILTER SEPARATOR UST BE REMOVED AND DISPOSED OF BY APPROVED METHODS. IF NEW ELEMENTS ARE NOT INSTALLED, PLACE WARNING TAG ON THE HOUSINGS "INSTALL ELEMENTS BEFORE PLACING** MFS **IN OPERATION".**

c. Remove, if required, and replace elements in the filter separator following instructions in TM 10-4930-368-23. Dispose of used elements using approved methods and containers.

d. Mist the interior of the filter separator with preservative oil, before installing new elements if applicable, allow any excess to drain from low points and close all valves.

16.8 All hoses, nozzles, valves and fittings in the issue manifold are evacuated of residual fuel by operation of the Eductor system mounted on the PRM. Instructions for operation of the eductor are shown on the operating plate affixed to the PRM and TM 10-4930-368-23. After evacuation of fuel, allow hoses and nozzles/valves tees to air dry. Affix dust caps and plugs on hoses and apply barrier material on ends and secure with tape. Secure all components in designated storage locations of the PRM and secure with tiedowns or other restraints as provided.

16.9 PRM Platform accessories. Various accessory components are mounted into specially designed fixtures equipped with securing devices. Other components are placed on the platform floor or on top of other components or.

a. Fire extinguishers, ground rods and water cans are stored in fixtures with captive locking pins or tie downs to prevent movement; check installation and tightness of these devices and that the accessories are properly seated.

b. Hoses for the issue manifold and drip pans are stored on the platform floor thoroughly dry all hoses, affix dust caps and covers and apply barrier material and secure with tape. Position the hoses and drip pans in designated locations and secure with tie downs provided to prevent movement.

c. All nozzles, adapters, tees and valves are stored in the enclosure storage cabinet at the front of the-PRM. Each component is placed on a bracket or shelf and secure with tie downs. Replace all dust caps and plugs where applicable. Inspect tie downs for tightness to prevent movement.

16.10 The engine and 600GPM pump assembly, filter separator, eductor and piping of the PRM are mounted on a removable skid platform for ease of maintenance and replacement. The skid platform is secured to the flatrack with ISO connectors; inspect for tightness to prevent movement.

17) Tiedowns

Tiedown points on the structure of the Pump Rack Module are utilized as provisions for strapping components to the module during transportation and storage.

18) Lubricants, Fluids and Materials

The table below and on pages 75 to 79 lists the lubricants, fluids and materials that may be used in preserving and packing the PRM system.

ITEM NUMBER	NATIONAL STOCK NUMBER	ITEM NAME, DESCRIPTION, CAGE, PART NUMBER	U/M or U/I
1	6850-01-571-9640	Antifreeze, ethylene glycol, green 1 gal. bottle AA52624-1A (58536)	GL
	6850-01-383-4068	Antifreeze, type II, biodegradable and phosphate free - purple, 1 Gal bottle AA52624-2A (58536)	GL
2	6850-01-464-9137	Antifreeze, Multi-Engine Type, 5 gal (58536) A-A-52624-2A	CO
3	8135-00-132-9589	Barrier Material, Grease proof, Water vapor proof, Flexible, foil, heavy duty, Smooth, Class I, 600 ft L X 3 ft W (1V793, P/N HD-100) MIL-PRF-131	RO
	8135-00-292-9719	Barrier Material, Grease proof, Water vapor proof, Flexible, foil, heavy duty, Smooth, Class I, 600 ft L X 3 ft W (2Y087, P/N FOIL-O-RAP 2175B) MIL-PRF-131	RO
	8135-00-292-9728	Barrier Material, Grease proof, Water vapor proof, Flexible, foil, heavy duty, Smooth, Class I, 600 ft L X 3 ft W (0CA16, P/N CADPAK P-131) MIL-PRF-131	RO
	8135-00-810-4075	Barrier Material, Grease proof, Water vapor proof, Flexible, foil, heavy duty, Smooth, Class I, 600 ft L X 3 ft W	RO

ITEM NUMBER	NATIONAL STOCK NUMBER	ITEM NAME, DESCRIPTION, CAGE, PART NUMBER	U/M or U/I
		(20208, P/N VF-131) MIL-PRF-131	
4	8135-00-142-9004	Cushioning Material, Packaging, 250 ft L X 48 in. W X 0.5 in. T, (81348) PPP-C-795	RO
	8135-00-142-9021	Cushioning Material, Packaging, 500 ft L X 48 in. W X 0.188 in. T, (81348) PPP-C-795	RO
	8135-01-061-2262	Cushioning Material, Packaging, 45 ft L X 48 in. W X 0.188 in. T, (81348) PPP-C-795	RO
	8135-01-245-8463	Cushioning Material, Packaging, 250 ft L X 48 in. W X 12 in. T, (81348) PPP-C-795	RO
5	8135-00-129-9523	Cushioning Material, Packaging, Polypropylene Plastic, 450 ft L X 24 in. W X 0.125 in. T, Type 1 (81348) PPP-C-1797	BD
	8135-00-300-4905	Cushioning Material, Packaging, Polypropylene Plastic, 225 ft L X 30 in. W X 0.250 in. T, Type 1 (81348) PPP-C-1797	BD
	8135-01-286-6449	Cushioning Material, Packaging, Polypropylene Foam, Perforated every 12 in., 225 in. L X 72 in. W X 0.250 in. T, Type 1 (81348) PPP-C-1797	RO
6	8135-00-989-9889	Cushioning Material, Packaging, 200 ft L X 24 in. W X 0.250 in. T, Grade 2, Class C, Style 1, Size L (58536) A-A-1898	RO
	8135-00-849-7847	Cushioning Material, Packaging, 100 ft L X 36 in. W X 1.0 in. T, Grade 2, Class A, Style 1, Size J (58536) A-A-1898	RO
7	9140-00-286-5285	Diesel Fuel, DF-A grade, bulk (58536) A-A-52557	DR
	9140-01-412-1311	Diesel Fuel, winter diesel fuel, DF1 low sulfur grade, bulk (58536) A-A-52557-1	GL
	9140-01-413-7511	Diesel Fuel, summer diesel fuel, DF2 low suffer grade, bulk	GL

ITEM NUMBER	NATIONAL STOCK NUMBER	ITEM NAME, DESCRIPTION, CAGE, PART NUMBER	U/M or U/I
		(58536) A-A-52557-2	
8	6850-00-281-1985	Dry-cleaning Solvent, Type 1, 1 gal (58536) A-A-59601	GAL
9	9150-01-197-7689	Grease, Automotive and Artillery, P-11, 6.5 lb (81349) MIL-PRF-10924	CN
	9150-01-197-7691	Grease, Automotive and Artillery, P-11, 120 lb (81349) MIL-PRF-10924	DR
	9150-01-197-7692	Grease, Automotive and Artillery, P-11, 35 lb (81349) MIL-PRF-10924	CN
	9150-01-197-7693	Grease, Automotive and Artillery, P-11, 14 oz. (81349) MIL-PRF-10924	CA
10	6850-00-295-7685	Lubricant, Silicone, 10 lb (81343) SAE-AS8660	LB
	6850-00-880-7616	Lubricant, Silicone, 8 oz. (81343) SAE-AS8660	TUBE
11	9150-01-152-4118	Lubricating Oil, Engine, antifoam and anti-wear and corrosion resistive OE/HDO 15W/40 Grade, 5 gal, Tactical Service (81349) MIL-PRF-2104	CN
	9150-01-152-4119	Lubricating Oil, Engine, antifoam and anti-wear and corrosion resistive OE/HDO 15W/40 Grade, 55 gal, Tactical Service (81349) MIL-PRF-2104	DR
	9150-01-178-4725	Lubricating Oil, Engine, antifoam and anti-wear and corrosion resistive OE/HDO 15W/40 Grade, 24 qts per box, Tactical Service (81349) MIL-PRF-2104	QT
12	9150-01-293-2772	Lubricating, Oil Engine, PE-15W/40 Grade Preservative, 55 gal (81349) MIL-PRF-21260	DR
	9150-01-293-7696	Lubricating Oil, Engine, PE-15W/40 Grade Preservative, 5 gal (81349) MIL-PRF-21260	CN
	9150-01-359-8567	Lubricating Oil, Engine, PE-15W/40 Grade Preservative (81349) MIL-PRF-21260	GL
13	9150-01-035-5390	Lubricating Oil, Gear, 75W, 1 qt can (81349) MIL-PFR-2105	QT

ITEM NUMBER	NATIONAL STOCK NUMBER	ITEM NAME, DESCRIPTION, CAGE, PART NUMBER	U/M or U/I
	9150-01-035-5391	Lubricating Oil, Gear, 75W, 5 gal (81349) MIL-PFR-2105	CN
14	9150-00-231-6689	Lubricating Oil, General Purpose, 1 qt can, corrosion and oxidation resistant (81349) MIL-PRF-32033	QT
	9150-00-231-9045	Lubricating Oil, General Purpose, Type V Class 4 (81349) MIL-PRF-32033	GL
	9150-00-273-2389	Lubricating Oil, General Purpose, corrosion and oxidation resistant (81349) MIL-PFR-32033	CN
	9150-00-281-2060	Lubricating Oil, General Purpose, 55 Gallon drum (81349) MIL-PFR-32033	DR
	9150-00-836-8641	Lubricating Oil, General Purpose, Plastic Bottle, 0.5 oz/Bottle (81349) MIL-PFR-32033	DZ
15	9150-00-231-9062	Lubricating Oil, General Purpose, 5 gal (81349) MIL-PRF-32033	CN
	9150-00-458-0075	Lubricating Oil, General Purpose, 16 oz. corrosion and oxidation resistant (81349) MIL-PRF-32033	CN
16	9150-00-402-2372	Lubricating Oil, Internal Combustion Engine, Arctic Service, 5 gal (81349) MIL-PRF-46167	CN
	9150-00-491-7197	Lubricating Oil, Internal Combustion Engine, Arctic Service, 55 gal (81349) MIL-PRF-46167	DR
17	8010-00-616-4009	Paint, Heat Resisting, olive drab, 1 gal can (81349) MIL-P-14105	GL
	8010-00-877-6415	Paint, Heat Resisting, gray, 1 gal can (81349) MIL-P-14105	GL
	8010-01-235-2693	Paint, Heat Resisting, green, 1 qt can (81349) MIL-P-14105	QT
	8010-01-235-2694	Paint, Heat Resisting, brown, 1 qt can (81349) MIL-P-14105	QT
	8010-01-235-2695	Paint, Heat Resisting, brown, 1 gal can (81349) MIL-P-14105	GL

ITEM NUMBER	NATIONAL STOCK NUMBER	ITEM NAME, DESCRIPTION, CAGE, PART NUMBER	U/M or U/I
	8010-01-235-4164	Paint, Heat Resisting, green, 1 gal can (81349) MIL-P-14105	GL
	8010-01-235-4165	Paint, Heat Resisting, black, 1 qt can (81349) MIL-P-14105	QT
	8010-01-235-4166	Paint, Heat Resisting, black, 1 gal can (81349) MIL-P-14105	GL
18	8010-00-161-7275	Primer Coating, 5 gal can (1MH89) SSPC-PAINT 25	CN
	8010-00-292-1127	Primer Coating, 1 gal can (1MH89) SSPC-PAINT 25	GL
	8010-00-936-8372	Primer Coating, pressurized spray can (1MH89) SSPC-PAINT 25	PT
19	7920-00-205-1711	Rags, Wiping, Grade B, 50 lb	BE
20	7510-00-118-1213	Tape, Pressure Sensitive Adhesive, Black, Plastic, Type 2 Class 1, 72 yds L X 1 in. W (81346) ASTM D 5486/D 5486M	RO
	7510-00-281-2700	Tape, Pressure Sensitive Adhesive, Natural, Clear, Type 1 Class 2, 60 yds L X 3 in. W X.00033 in. T (81346) ASTM D 5486/D 5486M	RO
	7510-00-551-2902	Tape, Pressure Sensitive Adhesive, Natural, Plastic, Clear, Type 1 Class 2, 72 yds L X 0.750 in. W (81346) ASTM D 5486/D 5486M	RO
21	7510-00-117-5520	Tape, Pressure Sensitive Adhesive, Black, Plastic, Type 2, moisture, oil and heat resistant, 36 yds L X 2 in. W X 0.0090 in. T (0H583) SAE-AMS-T-22085	RO
	7510-00-852-8180	Tape, Pressure Sensitive Adhesive, Black, Type 2, moisture, oil, grease, weather and heat resistant, 36 yds L X 2 in. W X 0.0090 in. T (0H583) SAE-AMS-T-22085	RO
	7510-01-446-4516	Tape, Pressure Sensitive Adhesive, Black, Type 2, Moisture, heat and oil resistant, 36 yds L X 0.5 in. W X 0.0090 in. T (0H583) SAE-AMS-T-22085	RO

ITEM NUMBER	NATIONAL STOCK NUMBER	ITEM NAME, DESCRIPTION, CAGE, PART NUMBER	U/M or U/I
22	7510-00-053-0942	Tape, Pressure Sensitive Adhesive, Black, Plastic, Type 4, 60 yds L X 1 in. W X 0.0080 in. T (81346) ASTM D5330/D5330M	RO

19) Shipping Weights and Dimensions

Non - Reduced		Reduced		Weights	
a. Length	240.00 In	**a**. Length	240.00 In	**a**. Weight	18,300 Lbs
b. Width	96.00 In	**b**. Width	96.00 In	**b.** BII Weight	25 Lbs
c. Height	102.00 In	**c.** Height	102.00 In	**c**. Total Weight	18325 Lbs
d. Cube	1360.000	**d**. Cube	1360.000	Ship Tons	34.00

20) Forms

The following forms are to be used during the completion of the storage and Serviceability Standards. See Note 15 and applicable Storage Serviceability Standard for correct form.

CONTAINER/BOX

EXTERNAL INSPECTION REPORT

SUB SYSTEM _____ NO._____ NSN _____

ASSEMBLY _____ NO._____ NSN _____

Container Box/Crate No.	Date Inspected	Condition	Insp. Initials	Action Recommended	Action Complete	
					Initial	Date

REMARKS: _____

_____

_____

_____

_____

_____

_____
SIGNATURE

DATE ISSUED: _____

REPORT SERIAL NO.: _____ FORM S-1

EQUIPMENT AND MATERIALS INSPECTION

SUB SYSTEM _____ NO. _____ NSN _____.

ASSEMBLY _____ NO. _____ NSN _____.

LOCATION IN STORAGE_____ARRIVAL IN STORAGE DATE _____.

COMPONENT/PART

DESCRIPTION _____

NSN _____

SERIAL NUMBER IF APPLICABLE _____

ACTION REQUIRED

SSS NO. _____

TYPE OF INSPECTION _____

SPECIAL INSTRUCTIONS: _____

_____

_____

DATE REQUIRED _____ DATE OF ACTION _____

REMARKS: _____

_____

_____

_____

_____

LAST PREVIOUS INSPECTION DATE _____

QUALITY DEFECT CODE (AS INSPECTED) _____

RECOMMENDED CONDITION CODE _____

REPRESERVATION COMPLETE DATE _____

REPACKING COMPLETE DATE _____

RETURNED TO STORAGE DATE _____

_____

SIGNATURE

DATE ISSUED: _____

REPORT SERIAL NO.: _____ FORM S-2

EQUIPMENT EXERCISE REPORT

SUB SYSTEM _____ NO. _____ NSN _____.

ASSEMBLY _____ NO. _____ NSN _____.

CONTAINER NO. _____ LOCATION IN STORAGE _____.

COMPONENT/PART

DESCRIPTION _____ NSN _____.

SERIAL NO.: _____.

ACTION REQUIRED

SSS NO. _____.

SPECIAL INSTRUCTIONS: _____

_____

_____

DATE REQUIRED _____ DATE(S) OF EXERCISE

REMARKS: _____

_____

_____

_____

_____

_____

_____

POST EXERCISE INSPECTION COMPLETE DATE: _____

*REPRESERVATION COMPLETE DATE: _____

*REPACKING COMPLETE DATE: _____

RETURNED TO STORAGE DATE: _____

_____

SIGNATURE

DATE ISSUED: _____

REPORT SERIAL NO.: _____

*SEPARATE REPORT S-5 REQUIRED FORM S-3

PRESERVATION AND PACKING REPORT

SUB SYSTEM _____ NO. _____ NSN _____

ASSEMBLY _____ NO. _____ NSN _____

TRICON NO. _____ OF ___

COMPONENT(S)/PARTS

DESCRIPTION(S)	NSN(S)

ACTION ☐ PRESERVATION ☐ PACKING

APPLICABLE SSS NO.'S _____ DATE REQUIRED _____

REMARKS: _____

PRESERVATION COMPLETE DATE: _____

PACKING COMPLETE DATE: _____

PLACED TO STORAGE DATE: _____

_____

SIGNATURE

DATE ISSUED: _____

REPORT SERIAL NO.: _____ FORM S-4

TEST REPORT

SUB SYSTEM _____ NO. _____ NSN _____.

ASSEMBLY _____ NO. _____ NSN _____.

CONTAINER NO. _____ LOCATION IN STORAGE _____.

ARRIVAL IN STORAGE DATE _____

COMPONENT/PART

DESCRIPTION _____

NSN _____

SERIAL NO. IF APPLICABLE _____

ACTION REQUIRED

SSS NO. _____

SPECIAL INSTRUCTIONS: _____

_____

_____

DATE REQUIRED _____ DATE OF ACTION _____

REMARKS: _____

_____

_____

_____

_____

_____

_____

LAST PREVIOUS TEST DATE _____

QUALITY DEFECT CODE (AS INSPECTED) _____

RECOMMENDED CONDITION CODE _____

REPRESERVATION COMPLETE DATE _____

REPACKING COMPLETE DATE _____

RETURNED TO STORAGE DATE _____

_____

SIGNATURE

DATE ISSUED: _____

REPORT SERIAL NO.: _____ FORM S-5