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MILITARY SPECIFICATION

PUMPS AND PUMPING UNITS, CENTRIFUGAL, POWER-DRIVEN, FOR WATER, PACKAGING OF

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 This specification covers the requirements for methods, materials, and procedures for the preservation, packing, and marking of pumps and pumping units, centrifugal, power-driven, for water.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of this specification to the extent specified herein:

SPECIFICATIONS

Federal

QQ-S-781
TT-P-664

UU-T-81
PPP-B-601
PPP-B-621
PPP-B-636
PPP-B-640

PPP-C-650
PPP-P-40
PPP-T-75

- Strapping, Steel, and Seals.
- Primer, Coating, Synthetic, Rust-Inhibiting, Lacquer-Resisting.
- Tags, Shipping and Stock.
- Boxes, Wood, Cleated-Plywood.
- Boxes, Wood, Nailed and Lock-Corner.
- Boxes, Shipping, Fiberboard.
- Boxes, Fiberboard, Corrugated, Triple-Wall.
- Crates, Wood, Open and Covered.
- Packaging and Packing of Hand Tools.
- Tape, Preservation and Sealing.

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Military

- MIL-C-104 - Crates, Wood; Lumber and Plywood Sheathed, Nailed and Bolted.
- MIL-P-116 - Preservation-Packaging, Methods of.
- MIL-B-121 - Barrier Material, Greaseproofed, Water-proofed, Flexible.
- MIL-C-3774 - Crates, Wood; Open 12,000- and 16,000-Pound Capacity.
- MIL-E-10062 - Engines: Preparation for Shipment and Storage of.
- MIL-B-26195 - Boxes, Wood-Cleated, Skidded, Load-Bearing Base.

STANDARDS

Federal

- FED. TEST METHOD STD. No. 101 - Preservation, Packaging, and Packing Materials: Test Procedures.
- FED. STD. No. 356 - Commercial Packaging of Supplies and Equipment.

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- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-281 - Automobiles, Trucks, Truck-Tractors, Trailers and Trailer Dollies; Preservation and Packaging of.
- MIL-STD-1186 - Cushioning, Anchoring, Bracing, Blocking, and Waterproofing; with Appropriate Test Methods.

(Copies of specifications and standards required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

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3. REQUIREMENTS

3.1 Materials. Materials shall be as specified herein and in applicable specifications and standards. Materials not specified shall be selected by the supplier and shall be subject to all provisions of this specification. Materials shall be free of defects.

3.2 Caution. Type P-14 preservative shall be used on all interior surfaces of pumps, pumping units, water tanks, or any connecting components if they are to be used for potable water.

3.3 Preproduction pack. The supplier shall furnish a preproduction pack for examination and test within the time frame specified (see 6.2) to prove, prior to starting production packaging that the applied preservation, packing, and marking comply with the requirements of this specification. Examination and tests shall be as specified in Section 4 and shall be subject to surveillance and approval by the Government (see 6.3). The preproduction pack may be accomplished utilizing either the preproduction model or a production model. If the preproduction model is utilized, any preservation and packing shall be removed by the supplier at no expense to the Government, when requested by the Government, to facilitate comparison between the preproduction model and the production model.

3.4 Preservation. Preservation shall be Level A, B, or Commercial as specified (see 6.2).

3.4.1 Level A.

3.4.1.1 Pumps and pumping units weighing not more than 25 pounds. Pumps and pumping units weighing not more than 25 pounds shall have the interior surfaces coated with Type P-10 preservative, Type I, Grade 30, (see 3.4.1.2.3) by spraying or fogging through the suction and discharge-pipe taps while the pump is slowly actuated. Spraying or fogging shall continue long enough to assure complete coverage. Excess preservative shall be drained and the openings sealed with plastic caps or plugs as applicable. Each pump or pumping unit with the required repair parts, tools, and technical publications preserved as specified in 3.4.1.2.14, 3.4.1.2.15, and 3.4.1.2.16 shall then be preserved together in accordance with MIL-P-116, Method IA-14. The inner container shall be a close-fitting box conforming to PPP-B-636, Class Domestic, Variety SW, Grade 125 or 175, style optional. The outer container shall be a close-fitting box conforming to PPP-B-636, W6c or W5c.

3.4.1.2 Pumps and pumping units weighing more than 25 pounds. Pumps and pumping units weighing more than 25 pounds shall be preserved and packaged as follows.

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3.4.1.2.1 Disassembly. Disassembly shall be limited to that necessary to safeguard parts vulnerable to damage and loss and to the removal of protruding parts that increase cubage. Bolts, nuts, washers, and pins involved shall be placed in one of the mating parts and secured to prevent their loss. Keys removed shall be secured in the keyway of the shaft.

3.4.1.2.2 Matchmarking. When necessary to facilitate reassembly, parts removed shall be matchmarked with cloth tags conforming to UU-T-81, Type A, and the marked tags attached to the mating parts. The information on the tags shall be applied with waterproof ink.

3.4.1.2.3 Preservatives. Preservatives specified herein shall conform to the applicable specifications listed in and shall be applied in accordance with MIL-P-116.

3.4.1.2.4 Unprotected surfaces. Unpainted exterior metal surfaces require the application of a contact preservative in accordance with MIL-P-116 and not specifically specified herein or in the end item specification shall be coated with preservative as follows.

3.4.1.2.4.1 Unfinished surfaces. Unfinished exterior metal surfaces shall be coated with Type P-1 preservative.

3.4.1.2.4.2 Machined surfaces. Exposed machined surfaces shall be coated with Type P-6 preservative and wrapped or covered with barrier material conforming to MIL-B-121, Type I, Grade A, Class 2, secured in place with tape conforming to PPP-T-75, Type II.

3.4.1.2.5 Water tanks. Interior surfaces of uncoated water tanks, except potable water tanks shall be fogged with Type P-10 preservative, Type I, Grade 30.

3.4.1.2.6 Single-stage pumps. Single-stage pumps shall be drained and dried. The interior surfaces of the casings and all parts within the casings shall be coated with Type P-10 preservative, Type I, Grade 30. Small general purpose pumps shall be coated by spraying or fogging the interior with the preservative, through the suction and discharge-pipe taps while the pumps are slowly actuated. Spraying or fogging shall continue long enough to insure complete coverage.

3.4.1.2.7 Multistage pumps. Multistage pumps shall be drained and dried. Internal surfaces of pumps having horizontally- and vertically-split casings shall be coated with Type P-10 preservative, Type I, Grade 30, by slushing. Excess preservative shall be drained and the threads of the drainplugs coated with the preservative and reinstalled.

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3.4.1.2.8 Openings. All threaded openings shall be sealed with threaded metal or plastic caps or plugs as applicable. All flanged openings shall be sealed with blind metal flanges, with barrier material conforming to MIL-B-121, Type I, Grade A, Class 2 placed between the flange face and the blind flange. All other openings shall be sealed with barrier material specified above, secured in place with tape conforming to PPP-T-75, Type II.

3.4.1.2.9 Gages and flow meters. Gages and flow meters removed from the pumps shall be individually preserved in accordance with MIL-P-116, Method IC-2, using a close-fitting box conforming to PPP-B-636, W6c or W5c.

3.4.1.2.10 Engine. The engine and engine accessories shall be preserved in accordance with the Level A requirements of MIL-E-10062, Type II, Method I, for units to be packed in containers. For units to be shipped uncrated (mobile), Type I, Method I, shall be used.

3.4.1.2.11 Electric motors. Electric motors shall have all openings sealed with tape conforming to PPP-T-75, Type II.

3.4.1.2.12 Drivebelts and pulleys. Drivebelts shall be removed or released from tension. Removed belts shall be preserved in accordance with MIL-P-116, Method IC-1 or IC-3. Unpainted pulley grooves shall be coated with primer conforming to TT-P-664.

3.4.1.2.13 Trailer chassis. Trailer chassis, with the pumps mounted shall be preserved in accordance with the Level A preservation and packaging requirements of MIL-STD-281.

3.4.1.2.14 Repair parts. The preservative application criteria and applicable method(s) of preservation of MIL-P-116 shall be used to preserve repair parts.

3.4.1.2.15 Maintenance tools. Maintenance tools shall be preserved in accordance with the Level A requirements of PPP-P-40.

3.4.1.2.16 Technical publications. Technical publications shall be preserved together in accordance with MIL-P-116, Method IC-1 or IC-3.

3.4.1.2.17 Other components. Other components not specifically mentioned herein requiring protection from corrosion or physical or mechanical damage shall be preserved as specified for components of similar design and construction.

3.4.1.2.18 Consolidation. Components removed from the pumps and pumping units, maintenance tools, technical publications, and repair parts shall be

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consolidated. When a toolbox is furnished it shall be utilized as a container and the lid closed and secured. When a toolbox is not furnished or the components will not fit in the toolbox, they shall be consolidated in boxes. Wooden boxes conforming to PPP-B-601, Overseas Type, Grade B, style optional shall be used for pumps and pumping units that are to be shipped uncrated or units to be packed in crates; and fiberboard boxes conforming to PPP-B-636, W5c, shall be used for pumps and pumping units packed in wooden boxes.

3.4.2 Level B. Unless otherwise specified (see 6.2), Level B preservation (see 6.4), shall be as follows.

3.4.2.1 Pumps and pumping units weighing not more than 25 pounds. Pumps and pumping units weighing not more than 25 pounds shall be coated with preservative and openings sealed as specified in 3.4.1.1 for Level A. Each pump or pumping unit with required repair parts, tools, and publications preserved as specified in 3.4.1.2.14, 3.4.1.2.15, and 3.4.1.2.16 shall be placed together in a close-fitting box conforming to PPP-B-636, W6c or W5c. The contents shall be blocked or cushioned, as applicable, within the box to prevent movement or damage. The box shall be closed and sealed as specified for Method V in the appendix to the box specification.

3.4.2.2 Pumps and pumping units weighing more than 25 pounds. Pumps and pumping units weighing more than 25 pounds shall be preserved as specified for Level A with the following exception.

3.4.2.2.1 Gages and flow meters. Gages and flow meters removed from the pumps shall be individually preserved in accordance with MIL-P-116, Method III using a close-fitting box conforming to PPP-B-636, W6c or W5c.

3.4.2.2.2 Trailer chassis. Trailer chassis with the pump mounted shall be preserved in accordance with the Level B preservation and packaging requirements of MIL-STD-281.

3.4.3 Commercial. Unless otherwise specified, the engine coolant system (if applicable), fuel system, combustion chambers, and valves shall be preserved in accordance with the Level A requirements of MIL-E-10062, as specified for Type II, Method I. When specified (see 6.2), the engine and engine accessories shall be preserved in accordance with the suppliers standard commercial practice. The pumps, pumping units, and associated loose equipment, parts, and manuals shall be preserved in accordance with FED. STD. No. 356.

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3.5 Packing. Packing shall be Level A, B, or Commercial (see 6.2).

3.5.1 Level A.

3.5.1.1 Pumps and pumping units weighing not more than 25 pounds. Small pumps and pumping units weighing not more than 25 pounds, preserved as specified in 3.4, shall be packed together in a close-fitting box conforming to PPP-B-601, Overseas Type, Grade B, style optional, in quantities not to exceed the weight limitation of the box. The box shall be closed and strapped in accordance with the appendix to the box specification. The strapping shall conform to QQ-S-781, Class 1, Type I or IV, size as applicable, and unless otherwise specified shall be Finish B (see 6.2). When specified, Finish A strapping shall be used.

3.5.1.2 Pumps and pumping units weighing more than 25 pounds and less than 1000 pounds. Pumps and pumping units weighing more than 25 pounds and less than 1000 pounds, preserved as specified in 3.4, shall be packed together or individually, as applicable, in a close-fitting box conforming to PPP-B-601, Overseas Type, Grade B, style optional, or PPP-B-621, Class 2, style optional. The gross weight shall not exceed the weight limitations of the box. The contents shall be blocked, braced, and anchored within the box in a manner to prevent free movement or damage, in accordance with MIL-STD-1186. Box closure and strapping shall be in accordance with the appendix to the box specification. The strapping shall conform to QQ-S-781, Class 1, Type I or IV, size as applicable, and unless specified shall be Finish B (see 6.2). When specified, Finish A shall be used.

3.5.1.3 Pumps and pumping units weighing more than 1000 pounds. Pumps and pumping units weighing more than 1000 pounds, preserved as specified in 3.4, shall be packed individually in a close-fitting crate conforming to MIL-C-104, Type I, Class 1 or 2, Style a, or in a close-fitting box conforming to MIL-B-26195, Type II, style and class optional; as applicable to the weight of the pump or pumping unit to be packed. Blocking, bracing, and anchoring of the contents to the crate or box base shall be in accordance with the appendix to the crate specification and in accordance with MIL-STD-1186.

3.5.1.4 Pumps and pumping units trailer mounted. Pumps and pumping units mounted on highway type trailers shall be shipped uncrated (mobile), consolidated components, accessories, and repair parts for each unit shall be positioned, and secured to the unit in such a manner as not to interfere with towing or lifting of the unit with slings. Pumps and pumping units mounted on nonhighway type trailers shall be packed as specified in 3.5.1.2 or 3.5.1.3 as applicable.

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3.5.2 Level B.

3.5.2.1 Pumps and pumping units weighing not more than 25 pounds. Small pumps and pumping units weighing not more than 25 pounds, preserved as specified in 3.4, shall be packed together or individually, as applicable, in a close-fitting wood box conforming to FPP-B-601, Domestic Type, style optional, or in a fiberboard box conforming to FPP-B-636, V3c, V11c, V13c, or V15c, or FPP-B-640, Class 2, style optional. The gross weight or size of each box shall not exceed the limitations of the applicable box specification. Box closure and strapping shall be in accordance with the appendix to the applicable box specification.

3.5.2.2 Pumps and pumping units weighing more than 25 pounds and less than 1000 pounds. Pumps and pumping units weighing more than 25 pounds and less than 1000 pounds shall be packed as specified in 3.5.1.2 except boxes shall be Domestic Type or Class as applicable. Box closure and strapping shall be in accordance with the appendix to the applicable box specification.

3.5.2.3 Pumps and pumping units weighing more than 1000 pounds. Pumps and pumping units weighing more than 1000 pounds, preserved as specified in 3.4, shall be packed individually in a close-fitting crate conforming to MIL-C-3774, Type I, Style A, or FPP-C-650, Type V, Style A, Class 1; in a close-fitting box conforming to MIL-B-26195, Type I, style and class optional, as applicable to the weight of the pump or pumping unit to be packed. Blocking, bracing, and anchoring of the contents to the crate or box base, and protection of the contents packed in an open crate with a full shroud, shall be in accordance with the appendix to the applicable crate specification and in accordance with MIL-STD-1186.

3.5.2.4 Pumps and pumping units trailer mounted. Pumps and pumping units mounted on highway type trailers shall be shipped uncrated (mobile). Consolidated components, accessories, and repair parts for each unit shall be positioned and secured to the unit in such a manner as not to interfere with towing or lifting of the unit with slings. Pumps and pumping units mounted on nonhighway type trailers shall be packed as specified in 3.5.2.2 or 3.5.2.3 as applicable.

3.5.3 Commercial. Pumps and pumping units, preserved as specified in 3.4, shall be packed in accordance with FED. STD. No. 356.

3.6 Marking.

3.6.1 Military. Marking for military levels of protection shall be in accordance with MIL-STD-129.

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3.6.2 Commercial. Marking for commercial packaging shall be in accordance with FED. STD. No. 356.

3.7 Workmanship. Workmanship shall be such as to provide maximum protection to the pumps and pumping units by application of the requirements specified herein, to prevent corrosion, deterioration, and mechanical or physical damage during handling, shipment, and storage.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Material inspection. The supplier is responsible for insuring that supplies and materials used are manufactured, examined, and tested in accordance with referenced specifications and standards.

4.2 Classification of inspections. Inspections shall be classified as follows:

- (a) Preproduction pack inspection (see 4.3).
- (b) Quality conformance inspection (see 4.4).

4.3 Preproduction pack inspection.

4.3.1 Examination. The preproduction pack shall be examined for the defects specified in 4.4.1. Presence of one or more defects shall be cause for rejection of the preproduction pack.

4.3.2 Tests. The preproduction pack for Level A or B shall be tested in accordance with 4.3.2.1 or 4.3.2.2 as applicable to the gross weight of the box or crate. Failure of the applicable test shall be cause for rejection.

4.3.2.1 Boxed pumps or pumping units not exceeding 200 pounds gross weight. Boxed pumps or pumping units not exceeding 200 pounds gross weight shall be subjected to the free-fall drop test in accordance with Test Method No. 5007, Procedure E of FED. TEST METHOD STD No. 101.

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4.3.2.2 Boxed or crated pumps or pumping units exceeding 200 pounds gross weight. Boxed or crated pumps or pumping units exceeding 200 pounds gross weight shall be subjected to the guided-impact test (railroad-car) in Appendix A to MIL-STD-1186. The test car shall strike a string of five empty cars with draft gear extended and the brakes set, at a speed of not less than 10 miles or more than 11 miles per hour.

4.3.3 Basis for rejection. Any shifting of contents, loosening or breaking of holddowns, ties, stays, blocking or bracing, or any visual damage to the contents shall constitute failure of the preproduction pack and shall be cause for rejection. In addition, the pump or pumping unit shall be subjected to the operational test(s) specified in the end item specification; any malfunction contributable to the preproduction pack test shall be cause for rejection.

4.4 Quality conformance inspection.

4.4.1 Inspection stages. Inspection shall be in two stages as follows:

- (a) The first stage shall include inspection of materials, methods, containers, and marking within the shipping container.
- (b) The second stage shall include inspection of materials, shipping container, and marking.

4.4.2 Unit of product. For the purpose of inspection, a unit of product for the first stage of inspection shall be a complete pack with the shipping container top not in place or not closed. For the second stage of inspection, a unit of product shall be a completed pack prepared for shipment.

4.4.3 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.4.4 Examination. Samples selected in accordance with 4.4.3 shall be examined for the defects marked "X" for the applicable level in Table I. Acceptable Quality Level (AQL) shall be 2.5 percent defective.

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Table I. Classification of Defects

Defect	Level		
	A	B	Commercial
101. Materials, methods, and containers not as specified. Each incorrect material, method, or container shall constitute one defect (3.1, 3.4, 3.5).	X	X	X
102. Unspecified type preservative applied to surfaces of components that would contact potable water (3.2).	X	X	X
103. Disassembly not as specified (3.4.1.2.1, 3.4.2.2).	X	X	-
104. Matchmarking not as specified (3.4.1.2.2, 3.4.2.2).	X	X	-
105. Matchmarking information not applied with water-proof ink (3.4.1.2.2, 3.4.2.2).	X	X	-
106. Unprotected metal surfaces not coated with preservatives as specified (3.4.1.2.4.1, 3.4.1.2.4.2, 3.4.2.2).	X	X	-
107. Preserved machined surfaces not wrapped or covered with barrier material, and the wraps or covers not secured with tape as specified (3.4.1.2.4.2, 3.4.2.2).	X	X	-
108. Interior surfaces of uncoated water tanks not coated with preservative as specified (3.4.1.2.5, 3.4.2.2).	X	X	-
109. Single-stage pumps not preserved as specified (3.4.1.2.6, 3.4.2.2).	X	X	-
110. Multistage pumps not preserved as specified (3.4.1.2.7, 3.4.2.2).	X	X	-
111. Openings not sealed as specified (3.4.1.2.8, 3.4.2.2).	X	X	-
112. Removed gages and flow meters not preserved as specified (3.4.1.2.9, 3.4.2.2.2).	X	X	-
113. Engine and engine accessories not preserved in accordance with the referenced document (3.4.1.2.10, 3.4.2.2, 3.4.3).	X	X	X
114. Openings into electric motors not sealed as specified (3.4.1.2.11, 3.4.2.2).	X	X	-
115. Drivebelts not removed or released from tension (3.4.1.2.12, 3.4.2.2).	X	X	-
116. Unpainted pulley grooves not coated with primer as specified (3.4.1.2.12, 3.4.2.2).	X	X	-
117. Trailer chassis not preserved in accordance with the referenced document (3.4.1.2.13, 3.4.2.2.2).	X	X	-

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Table I. Classification of Defects (Cont'd)

Defect	Level		
	A	B	Commercial
118. Maintenance tools not preserved in accordance with the referenced document (3.4.1.2.15, 3.4.2.2).	X	X	-
119. Components requiring preservation and not specifically mentioned, not preserved as specified for similar components (3.4.1.2.17, 3.4.2.2).			
120. Consolidation not as specified (3.4.1.2.18, 3.4.2.2).	X	X	-
121. Pumps or pumping units packed together or separately exceeds the limitations of the box (3.5.1.1, 3.5.1.2, 3.5.1.3, 3.5.2.1, 3.5.2.2, 3.5.2.3).	X	X	-
122. Strapping not as specified (3.5.1.1, 3.5.1.2).	X	-	-
123. Blocking, bracing, and anchoring not in accordance with the referenced document and as specified (3.5.1.2, 3.5.1.3, 3.5.2.2, 3.5.2.3).	X	X	-
124. Securing of components to mobile pumps not as specified (3.5.1.4, 3.5.2.4).	X	X	-
125. Contents not protected with a full shroud as specified (3.5.2.3).	-	X	-
126. Marking missing, illegible, incorrect, or incomplete (3.6).	X	X	X

5. PREPARATION FOR DELIVERY

(This section is not applicable to this specification.)

6. NOTES

6.1 Intended use. It is intended that this specification cover the preservation, packing, and marking requirements of pumps and pumping units and shall be used for reference in Section 5 of equipment specifications or for direct reference in contracts or orders, or in the preparation of packaging data sheets.

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6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Time frame required for submission of the preproduction pack (see 3.3).
- (c) Level of preservation and packing required (see 3.4 and 3.5). Level B preservation (see 3.4.2 and 6.4) is intended to provide limited but economical protection and should be specified only when it is determined the pumps and pumping units will be held in covered storage.
- (d) When Level B preservation is other than specified (see 3.4.2 and 6.4).
- (e) When engine and engine accessories shall be preserved in accordance with the suppliers standard commercial practice (see 3.4.3).
- (f) When other than Finish B strapping is required (see 3.5.1.1 and 3.5.1.2).

6.3 Preproduction pack. Any changes or deviations of production packs from the approved preproduction pack will be subject to the approval of the contracting officer. Approval of the preproduction pack will not relieve the supplier of his obligation to preserve, pack, and mark the pumps and pumping units in accordance with this specification.

6.4 Level B preservation. Level B preservation (see 3.4.2) has been developed for use by the Army and Air Force for the specific conditions specified in 6.2(c). For Navy procurements, details of Level B preservation when required, should be developed at the time of procurement when all conditions are known.

6.5 Ecology. Environmental pollution measures are contained in Natick Laboratories Technical Report 7.5-33 FEL.

Custodians:

Army - ME
Navy - YD
Air Force - 84

Preparing activity:

Army - ME
Project No. 4320-0256

Review activity:

Army - SM

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NOTE: This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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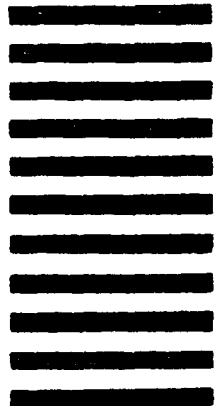
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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

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c. Reason/Rationale for Recommendation:			
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7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
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