

MIL-L-3153D
21 December 1984
SUPERSEDING
MIL-L-3153C
19 November 1974

MILITARY SPECIFICATION

LAUNDRY AND DRY CLEANING MACHINERY AND EQUIPMENT,

PACKAGING OF

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

1. SCOPE

1.1 Scope. This document covers the preservation, packing, and marking for shipment of laundry and dry cleaning machinery and equipment for fixed laundry and dry cleaning installations.

2. APPLICABLE DOCUMENTS

2.1 Government documents. Unless otherwise specified, the following documents, of the issue in effect on date of invitation for bids, or request for proposal, form a part of this document to the extent specified herein.

SPECIFICATIONS

FEDERAL

QQ-S-781 - Strapping, Steel and Seals
UU-T-81 - Tags, Shipping and Stock

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: U.S. Army Natick Research and Development Center, Natick, MA 01760-5014 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

NO DELIVERABLE DATA REQUIRED BY THIS DOCUMENT

AREA PACK

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- PPP-B-585 - Boxes, Wood, Wirebound
- PPP-B-591 - Boxes, Shipping, Fiberboard, Wood-Cleated
- PPP-B-601 - Boxes, Wood, Cleated-Plywood
- PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner
- PPP-B-636 - Boxes, Shipping, Fiberboard
- PPP-B-640 - Box, Fiberboard, Corrugated, Triple Wall
- PPP-B-1055 - Barrier Material, Waterproofed, Flexible
- PPP-F-320 - Fiberboard: Corrugated and Solid Sheet Stock
(Container Grade) and Cut Shapes
- PPP-P-40 - Packaging and Packing of Hand Tools
- PPP-S-760 - Strapping, Nonmetallic, (And Connectors)
- PPP-T-60 - Tape, Pressure-Sensitive Adhesive, Paper
(For Carton Sealing)

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- MIL-V-3 - Valves, Fittings and Flanges (Except for Systems
Indicated Herein): Packaging of
- MIL-C-104 - Crates, Wood; Lumber and Plywood Sheathed, Nailed
and Bolted
- MIL-P-116 - Preservation-Packaging, Methods of
- MIL-B-197 - Bearings, Anti-Friction, Associated Parts, and
Sub-Assemblies; Packaging of
- MIL-L-2105 - Lubricating Oil, Gear, Multi-Purpose
- MIL-B-3180 - Boiler and Related Equipment, Packaging of
- MIL-F-3296 - Forges, Furnaces and Ovens (Exclusive of Space
Heating and Cooking), Packaging of
- MIL-C-3774 - Crates, Wood; Open 12,000-and 16,000-Pound Capacity
- MIL-E-16298 - Electric Machines Having Rotating Parts and
Associated Repair Parts, Packaging of
- MIL-D-16791 - Detergents, General Purpose (Liquid, Nonionic)
- MIL-E-17555 - Electronic and Electrical Equipment and Associated
Repair Parts, Preparation for Delivery of
- MIL-B-35078 - Loads, Unit: Preparation of Nonperishable
Subsistence Items; General Specification For
- MIL-B-43666 - Box, Shipping Consolidation
- MIL-P-46093 - Primer Coating Synthetic (for Brake Drums)
- MIL-C-52950 - Crate Wood, Open and Covered

STANDARDS

MILITARY

- MIL-STD-129 - Marking for Shipment and Storage
- MIL-STD-1186 - Cushioning, Anchoring, Bracing, and Waterproofing;
With Appropriate Test Methods

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(Copies of documents required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

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

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

D 3951 - Standard Practice for Commercial Packaging

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19013.)

(Technical society and technical association documents are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document shall take precedence.

3. REQUIREMENTS

3.1 Material. Material used for cleaning, preservation, packing and marking shall conform to the applicable documents as specified herein.

3.2 Disassembly and matchmarking.

3.2.1 Disassembly. The extent of disassembly shall be determined by the manufacturer. This determination shall be based on the need for protection of parts susceptible to damage during transit or storage, and for the reduction in cubage. Attaching hardware shall be replaced on one of the mating parts or placed in a cloth drawstring bag and the bag attached to one of the mating parts. Disassembly shall not be such that special skills or special tools, or both, other than those furnished, are required to place the equipment in operation.

3.2.2 Matchmarking. Parts removed and mating parts on the equipment shall be matchmarked to facilitate reassembly. Matchmarking information shall be on shipping tags conforming to type A of UU-T-81, attached to mating parts. The marked tags shall be waterproofed as specified in MIL-STD-129.

3.3 Draining. All parts, such as tanks, water pipes, condensate lines and steam chests shall be completely drained and thoroughly dried with clean, dry compressed air.

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3.4 Preservation. Preservation shall be level A or Commercial as specified (see 6.2).

3.4.1 Level A. Preservation and unit packing shall be in accordance with MIL-P-116 and as specified herein.

3.4.1.1 Cleaning. All exposed, uncoated machined and critical operating ferrous metal surfaces, except corrosion resisting steel, shall be cleaned by process C-5. All other exposed, uncoated ferrous metal surfaces, except corrosion resisting steel, shall be cleaned process C-1.

3.4.1.2 Drying. Surfaces cleaned by process C-5 as specified in 3.4.1.1, shall be dried by procedure D-1, D-2, or D-3. Surfaces cleaned by process C-1 as specified in 3.4.1.1, shall be dried by any of the procedures specified in MIL-P-116.

3.4.1.3 Lubrication. All bearings and fittings requiring lubrication shall be lubricated to capacity with the manufacturer's recommended lubricant containing a rust inhibitor.

3.4.1.4 Application of preservative (general). Except as specified in 3.4.1.5, 3.4.1.6, 3.4.1.7, and 3.4.1.8, exterior unprotected ferrous contacting surfaces (surfaces that contact other surfaces in operation) cleaned and dried as specified in 3.4.1.1 and 3.4.1.2, shall be coated with type P-2 or P-6 preservative except as specified herein. Exterior unprotected ferrous non-contacting surfaces (surfaces that do not contact other surfaces in operation) cleaned and dried as specified in 3.4.1.1 and 3.4.1.2, shall be coated with type P-1 preservative.

3.4.1.5 Enclosed drive chains and gears. Enclosed chains which operate in lubricants shall be preserved by having the chain housing filled to the operating level with one of the following preservatives:

Operating lubricant Preservative lubricant

Lubricating oil (SAE 10, 30, or 50)
Gear lubricant (SAE 75, 80, 85, 90, or 140)
Lubricant other than above

P-10, grade as applicable
MIL-L-2105, grade as applicable
Manufacturer's approved operating lubricant

The drive mechanism shall be actuated to insure coating of all surfaces of the drive chain and gears.

3.4.1.6 Exposed drive chains. Drive chains, cleaned and dried as specified in 3.4.1.1 and 3.4.1.2, shall be coated with sufficient type P-3 preservative to assure penetration of the preservative to the inner surfaces of the rollers, pins and bushings. Excess preservative shall be drained off and the chains and sprockets then coated with type P-1 or P-19 preservative.

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3.4.1.7 Belts and pulleys. Drive belts shall be removed. Shafts and pulleys cleaned and dried as specified in 3.4.1.1 and 3.4.1.2, shall be coated with a thin film of primer conforming to MIL-P-46093. The belts shall be either replaced with tension relieved, or preserved Method IC-1.

3.4.1.8 Water tanks, cylinders, and piping. Threaded ends of pipe and fittings, cleaned and dried as specified in 3.4.1.1 and 3.4.1.2, except drain plugs, shall be coated with type P-1 preservative. Male threads shall be further protected with commercial type thread protectors. All openings of steam cylinders, water pipes and condensate lines shall be plugged with removable plastic plugs to prevent entry of moisture or foreign matter into the equipment. Interior surfaces of solvent tanks, cleaned and dried as specified in 3.4.1.1 and 3.4.1.2, shall be coated with type P-21 preservative and excess preservative drained. Glass lined tanks do not require application of a preservative. Drain plug threads shall be coated with type P-3 preservative prior to reinstalling. Preservative shall not be applied to neoprene or rubber hose. Preserved tanks shall be provided with tags indicating the following:

INTERIOR SURFACES COATED WITH TYPE P-21 PRESERVATIVE. FLUSH WITH 180°F FRESH HOT WATER. FLUSH UNTIL NO VISIBLE EVIDENCE OF PRESERVATIVE IS PRESENT.

3.4.1.8.1 Fuel tanks and lines. Fuel tanks and lines shall be flushed with a P-10, grade 30 preservative.

3.4.1.9 Electric motors. Detached motors weighing up to 40 pounds shall be preserved in accordance with the level A requirements of MIL-E-16298. Detached motors weighing over 40 pounds and motors attached to parent equipment shall be preserved and unit packed in accordance with the alternative method of MIL-E-16298. Totally enclosed motors shall require no preservation other than that specified in 3.4.1.3.

3.4.1.10 Ironers, presses, and formers. Ironing and pressing surfaces of ironers, presses, and formers, cleaned and dried as specified in 3.4.1.1 and 3.4.1.2, shall be coated with type P-2 preservatives. When padding on rolls and bucks is removed for shipment, it shall be preserved and unit packed to afford adequate protection against deterioration and damage. When rolls and bucks are shipped with padding in place, the padding shall be completely covered with nominal 0.003 inch plastic sheet. The plastic sheet shall be sealed and secured with pressure sensitive tape. Each press head shall be fastened down with 1/2 by 0.020 inch or thicker steel straps conforming to QQ-S-781 or nonmetallic strapping conforming to type II or III of PPP-S-760. When press is shipped with padding in place, a strip of fiberboard shall be placed under each strap to prevent rupture of the plastic sheet cover.

3.4.1.11 Technical literature. Technical literature shall be preserved Method IC-1.

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3.4.1.12 Accessories, repair parts, miscellaneous equipment and tools.

Accessories, repair parts, miscellaneous equipment and tools shall be preserved and unit packed in accordance with the requirements of the following documents as applicable:

Electrical equipment (except motors)	MIL-E-17555
Bearings	MIL-B-197
Valves, fittings and flanges	MIL-V-3
Hand tools	PPP-P-40
Water heater	MIL-B-3180
Water pumps	P-21 to interior surfaces
Storage racks	Method III of MIL-P-116
Fire extinguisher	Method III of MIL-P-116
Oil and gas fired heating devices	MIL-F-3296

3.4.1.13 Protection of preservative. Surfaces coated with type P-2 preservative, from which preservative might be removed by contact with other parts of the equipment or packing materials, shall be covered, wrapped, or bagged with greaseproof barrier material in accordance with Method I.

3.4.1.14 Securing. All doors, covers and lids shall be secured in a closed position. Parts that are free to move shall be secured in a fixed position in such a manner as to prevent movement or vibration during transit.

3.4.1.15 Sealing. Exposed ends of electrical wiring, sockets, terminals and openings into switches, control and junction boxes and other equipment shall be sealed with tape conforming to type III or IV, class 1 of PPP-T-60. All name and instruction plates on the equipment shall be covered with tape specified herein.

3.4.1.16 Disassembled parts, tools and accessories. Disassembled parts, tools and accessories, preserved as specified herein, shall be unit packed in a snug-fitting fiberboard or nailed wood box or boxes conforming to style optional, type CF, or SF, class domestic of PPP-B-636, or class 1, style 2 or 4 of PPP-B-621, respectively. Weight and dimensional limitations of PPP-B-636 shall not be exceeded. Weight of contents of nailed wood boxes shall not exceed 120 pounds. Contents shall be adequately blocked, braced and cushioned as required to prevent movement or damage during transit. Individual parts or accessories exceeding 120 pounds, preserved as specified herein, shall require no further packing.

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3.4.1.16.1 Weather-resistant fiberboard container. When specified (see 6.2), the shipping container shall be a grade V3c, V3s or V4s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with method IV as specified in the appendix of the box specification.

3.4.2 Commercial. The laundry and dry cleaning equipment, accessories, repair parts and tools shall be preserved in accordance with ASTM D 3951.

3.5 Packing. Packing shall be level A, B or Commercial as specified (see 6.2).

3.5.1 Level A packing.

3.5.1.1 Equipment not exceeding 65 pounds, except as specified in 3.5.1.4. A single unit of equipment with accessories and parts, not exceeding 65 pounds, preserved as specified in 3.4, shall be packed in snug-fitting fiberboard shipping container conforming to style optional, grade V2s of PPP-B-636. Fiberboard pads or forms of material conforming to type CF or SF, class weather-resistant, grade V3c or V3s of PPP-F-320 shall be used as required to prevent movement or damage of contents during transit. Each shipping container shall be closed method III, waterproofed method V and reinforced as specified in the appendix of PPP-B-636. Fiberboard is acceptable for level A packing only when utilizing a unitized load configuration of MIL-L-35078 to include sheathing, strapping, capping and other supplemental protections or in lieu thereof an appropriate consolidated container of MIL-B-43666.

3.5.1.2 Equipment not exceeding 1000 pounds, except as specified in 3.5.1.4. A single unit of equipment with accessories and parts not exceeding 1000 pounds, preserved as specified in 3.4, shall be packed in wood-cleated plywood or nailed wood shipping containers conforming to overseas type of PPP-B-601, or class 2, style 2, 4, or 7, type 3 load of PPP-B-621, respectively. Shipping containers shall be provided with skids as required, in accordance with the applicable container specification. Contents shall be secured as specified in 3.5.1.6. The top, sides, and ends of shipping containers conforming to style 7 of PPP-B-621 shall be lined with waterproof barrier material conforming to PPP-B-1055, with all joints having a 4-inch minimum single lap. The contents of shipping containers conforming to style 2 or 4 of PPP-B-621 shall be waterproofed in accordance with the appendix of MIL-C-52950. Each shipping container shall be closed and strapped in accordance with the appendix of the applicable container specification.

3.5.1.3 Equipment exceeding 1000 pounds, except as specified in 3.5.1.4. A single unit of equipment with accessories and parts exceeding 1000 pounds, preserved as specified in 3.4, shall be packed in a sheathed, nailed wood crate conforming to type I, class 1 or 2, style a of MIL-C-104. Contents shall be secured as specified in 3.5.1.6. When specified (see 6.2) a crate conforming to type II of MIL-C-104 shall be used.

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3.5.1.4 Transporters, mobile carts, truck tubs, stationary tubs or garment racks. Multiple like units may be packed together provided the weight and dimensional requirements of the box specification are not exceeded.

a. Net weight up to 65 pounds. Transporters, mobile carts, truck tubs, stationary tubs, or garment racks not exceeding 65 pounds, preserved as specified in 3.4 shall be packed as specified in 3.5.1.1.

b. Net weight up to 200 pounds. Transporters, mobile carts, truck tubs, stationary tubs, or garment racks not exceeding 200 pounds, preserved as specified in 3.4, shall be packed in a snug-fitting wood-cleated plywood, wirebound or cleated fiberboard shipping container conforming to overseas type style optional of PPP-B-601, style 1, 2 or 3, class 3 use of PPP-B-585 or class 2 of PPP-B-591. The contents of each shipping container shall be waterproofed in accordance with the appendix of MIL-C-52950. Contents shall be secured as specified in 3.5.1.6. Closure shall be in accordance with the appendix of the applicable container specification.

c. Net weight not exceeding 1000 pounds. Transporters, mobile carts, truck tubs, stationary tubs or garment racks not exceeding 1000 pounds, preserved as specified in 3.4, shall be packed in an open wood crate conforming to type I, II, IV or V, style A of MIL-C-52950. Weight and dimensional limitations shall apply. Contents shall be secured as specified in 3.5.1.6 and shall be waterproofed in accordance with the appendix of the crate specification.

3.5.1.5 Disassembled components, tools and accessories. Items, preserved as specified in 3.4.1.16 shall be packed with the parent item in an unused portion of the shipping container. Unpacked individual parts or accessories, exceeding 120 pounds, shall be packed either with the parent item as specified for preserved items, or in containers as specified in 3.5.1.2 or 3.5.1.3 as applicable. Water-proofing and securing as specified therein shall apply.

3.5.1.6 Securing. Equipment shall be secured within each shipping container by means of cushioning, bolting, blocking and bracing in accordance with MIL-STD-1186. Equipment having non-detachable casters or wheels shall be blocked to provide a minimum of 1-inch clearance between the interior base or end of the container and the casters or wheels.

3.5.2 Level B packing.

3.5.2.1 Equipment not exceeding 275 pounds. A single unit or multiple units of equipment, with accessories and parts not exceeding 275 pounds, preserved as specified in 3.4, shall be packed in a snug-fitting fiberboard shipping container conforming to style optional, class domestic of PPP-B-636, except that weight and dimensional limitations shall not be exceeded; or class 1 style E of PPP-B-640. Fiberboard pads or forms of material shall conform to type CF or SF, class domestic, minimum grade 200 of PPP-F-320, as required to prevent movement or damage of the contents during transit. Closure shall be in accordance with the appendix of the applicable container specification.

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3.5.2.1.1 Weather-resistant containers for equipment not exceeding 275 pounds. When specified (see 6.2), shipping containers shall conform to style RSC, grade V3c, V3s, or V4s of PPP-B-636 or class 2, style optional of PPP-B-640. The size and weight limitations of the respective document shall not be exceeded. Each shipping container shall be closed in accordance with the appendix of the applicable container specification for the class specified herein.

3.5.2.2 Equipment not exceeding 400 pounds. A single unit of equipment with accessories and parts not exceeding 400 pounds, preserved as specified in 3.4, shall be packed in a snug-fitting wood-cleated fiberboard or plywood, or nailed wood shipping container conforming to class I, style A or B of PPP-B-591; domestic type, style A or B of PPP-B-601; or class 1, style 2, 4 or 7 of PPP-B-621. Shipping containers shall be provided with skids, as required, in accordance with the applicable container specification. Contents shall be secured as specified in 3.5.1.6.

3.5.2.3 Equipment not exceeding 1000 pounds. A single unit of equipment with accessories and parts not exceeding 1000 pounds, preserved as specified in 3.4, shall be packed in wood-cleated plywood or nailed wood shipping containers conforming to domestic type, style A or B of PPP-B-601 or class 1, style 2, 4 or 7 of PPP-B-621. Each shipping container exceeding 250 pounds gross weight shall be provided with skids as specified in 3.5.1.2, and the contents secured as specified in 3.5.1.6.

3.5.2.4 Equipment not exceeding 4000 pounds. A single unit of equipment with accessories and parts not exceeding 4000 pounds, preserved as specified in 3.4, shall be packed in a wood crate conforming to any type and style, except type III, of MIL-C-52950. Contents shall be secured as specified in 3.5.1.6. Equipment exceeding dimensional limitations of MIL-C-52950 shall be packed in containers as specified in 3.5.2.5.

3.5.2.5 Equipment not exceeding 12,000 pounds. A single unit of equipment with accessories and parts not exceeding 12,000 pounds, preserved as specified in 3.4, shall be packed in a wood crate conforming to type I, style A of MIL-C-3774. Contents shall be secured as specified in 3.5.1.6. When specified (see 6.2), a crate conforming to type II of MIL-C-3774 shall be used.

3.5.2.6 Equipment not exceeding 20,000 pounds. A single unit of equipment with accessories and parts not exceeding 20,000 pounds, preserved as specified in 3.4, shall be packed in a sheathed, nailed wood crate conforming to type I, class 1 or 2, style a of MIL-C-104, except that waterproof barrier material shall not be required. Contents shall be secured as specified in 3.5.1.6. When specified (see 6.2), a crate conforming to type II of MIL-C-104 shall be used.

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3.5.2.7 Disassembled components, tools and accessories. Items, preserved as specified in 3.4.1.15, shall be packed with the parent item in an unused portion of the shipping container. Individual parts or accessories that have not been unit packed, exceeding 120 pounds, shall be packed either with the parent item as specified for unit packed items, or in containers as specified in 3.5.2.2, 3.5.2.3, 3.5.2.4, or 3.5.2.5, as applicable. Securing shall be in accordance with 3.5.1.6.

3.5.2.8 Shrouds. Contents of all open type crates shall be provided with a full height shroud in accordance with the appendix of the applicable crate document, except that the material may be nominal 0.004 inch thick plastic sheet. All seams shall be heat sealed.

3.5.3 Commercial packing. Equipment, detached components, accessories, and parts, preserved as specified in 3.4, shall be packed in accordance with ASTM D 3951.

3.6 Marking. In addition to any special marking required by the contract or purchase order, interior packages and shipping containers shall be marked in accordance with MIL-STD-129 or ASTM D 3951. Set marking requirements shall apply when detached components, accessories, or parts are packed separate from the parent item.

3.6.1 Precautionary marking. Special handling marking requirements in MIL-STD-129 applicable to fragile items, arrows, and words "UP", "THIS SIDE UP" and "CENTER OF BALANCE" shall apply.

3.7 Workmanship. Preservation, packing, and marking shall conform to the quality and grade of product established by this document.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor 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 document where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Component and material inspection. In accordance with 4.1 above, components and materials shall be inspected in accordance with all the requirements of referenced documents unless otherwise excluded, amended, modified, or qualified in this document or applicable purchase document.

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4.3 Preparation and packaging examination. Each end item shall be examined for defects as listed below. Presence of one or more defects shall be cause for rejection of the end item presented. To facilitate inspection, it is recommended that the examinations for the defects listed below be performed at in-process stages in lieu of disassembling the preserved, and packed item.

<u>Examine</u>	<u>Defect</u>
Disassembly	Detachable parts and accessories not removed to prevent damage (when specified) Attaching hardware not replaced on mating part, or in cloth bag Cloth bag not attached to mating part (when specified) Special tools missing (when specified)
Matchmarking	Tags with information not attached to mating parts
Draining	Water or excess moisture in water containing parts
Bearings and fittings	Not lubricated to capacity with rust inhibited lubricant
Gears and drive chains	Housing not filled to proper operating level with lubricant specified with in housings
Belt and pulleys	Belt tension not relieved
Tanks, cylinders and piping	Thread protectors missing Openings not plugged as specified Tags missing from preserved tanks
Electric motors rolls and bucks	Not preserved as specified Plastic film cover missing Plastic film cover not sealed and secured as specified Plastic film less than thickness specified
Press head	Fastened down with less than two steel straps Fiberboard strip missing under strap
Doors, covers and lids	Not secured in a closed position Free moving parts not secured in fixed positions
Sealing, exposed ends of wire, sockets, terminals, switch openings, junction boxes, nameplates etc.	Not sealed or covered with tape as specified

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<u>Examine</u>	<u>Defect</u>
Disassembled parts, tools and accessories (boxed)	Weight of contents and dimensions exceed allowable limits Contents not blocked, braced, and cushioned as specified
Levels A and B equipment	
Fiberboard containers cleated ply-wood containers	Equipment not secured in position with fiberboard pads or forms
Skids	Missing when required
Waterproof barrier	Missing (Level A)
Disassembled components tools etc.	Unit packed item packed separate from parent item
Securing	Incorrect type and size of bolt (when required) Additional skids missing when required One or more washers or lockwashers missing One or more nuts missing Nuts not drawn tight Blocking and bracing insufficient to prevent movement of equipment Clearance less than 1 inch between outermost points of equipment and container (except casters) Cushion and padding missing between blocking and finished surfaces Blocking not securely nailed in position Supplemental cleats missing when required
Shroud (level B) open type crates	Not full height of container Less than thickness specified Seams not heatsealed Missing
Marking	Omitted; incomplete; incorrect; illegible, improper size, location, sequence, or method of application Precautionary markings not as specified

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4.4 Examination of shipping containers. When containers are required in accordance with PPP-B-585, PPP-B-591, PPP-B-601, PPP-B-621, PPP-B-636, and PPP-B-640, and MIL-C-52950 examination for closure and strapping shall be in accordance with the applicable document.

5. PACKAGING

5.1 Not applicable.

6. NOTES

6.1 Intended use. This document is intended for the preparation for the delivery of laundry and dry cleaning machinery and equipment (for fixed installations).

6.2 Ordering data. Acquisition documents should specify the following:

- (a) Title, number, and date of this document.
- (b) Selection for the applicable levels of preservation and packing (see 3.4 and 3.5).
- (c) When weather-resistant fiberboard shipping containers are required for level A and level B shipment (see 3.4.1.16.1 and 3.5.2.1.1).
- (d) When bolted crates are required (see 3.5.1.3, 3.5.2.5 and 3.5.2.6).

6.3 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes.

Custodians:

Army - GL
Navy - YD

Preparing activity:

Army - GL

Project No. PACK-0775

Review activities:

Army - MD, SM
DLA - GS

INSTRUCTIONS: In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (**DO NOT STAPLE**), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

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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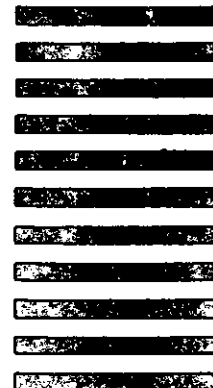
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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)*

1. DOCUMENT NUMBER MIL-L-3153D		2. DOCUMENT TITLE Laundry and Dry Cleaning Machinery and Equipment, Packaging Of	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
		<input type="checkbox"/> USER	
		<input type="checkbox"/> MANUFACTURER	
		<input type="checkbox"/> OTHER (Specify): _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	