

PPP-P-1892
 December 31, 1974
 SUPERSEDING
 TT-P-143B
 March 13, 1970

FEDERAL SPECIFICATION

PAINT, VARNISH, LACQUER, AND RELATED MATERIALS:

PACKAGING, PACKING, AND MARKING OF

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE

1.1 This specification covers the requirements for the packaging, packing, and marking of paint, varnish, lacquer, and related materials for shipment and storage. Related materials include enamel, stain, and shellac; lacquer base aluminum, gold, bronze, and wood filler liquids; thinning, reducing and removing compounds; and liquid driers. This does not include pigments and powders, normally supplied in paper or cloth packages.

2. APPLICABLE DOCUMENTS

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

Federal Specifications:

QQ-S-781	-	Steel, Strapping, Flat and Seals.
PPP-B-591	-	Boxes, 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	-	Boxes, Fiberboard, Corrugated, Triple-Wall.
PPP-C-96	-	Cans, Metal, 28 Gage and Lighter.
PPP-D-705	-	Drum: Metal Shipping, Steel (Over 12 and Under 55 Gallon).
PPP-D-729	-	Drums, Shipping and Storage, Steel, 55-Gallon.
PPP-D-732	-	Drums, Metal, Reconditioned, 55-Gallon (For Shipment of Noncorrosive Material).
PPP-F-320	-	Fiberboard: Corrugated and Solid, Sheet Stock (Container Grade), and Cut Shapes.
PPP-P-704	-	Pails, Metal: (Shipping, Steel, 1 through 12 Gallon).
PPP-T-66	-	Tape: Pressure-Sensitive Adhesive, Vinyl Plastic Film.

Federal Standard:

Fed. Std. No. 123 - Marking for Domestic Shipment (Civil Agencies).

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, WA.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Standards:

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-147 - Palletized Unit Loads (40 Inches by 48 Inches 4-Way Partial and 4-Way Pallets).

(Copies of Military 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 a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

Code of Federal Regulations:

- 49 CFR 171-178 - Department of Transportation (Dot) Regulations for the Transportation of Explosives and Other Dangerous Articles by Land and Water.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, DC 20402. Orders should cite the latest edition and supplements thereto.)

American Society for Testing and Materials (ASTM) Standards:

- D 93 - Flash Point by Pensky-Martens Closed Tester.
- D 1310 - Flash Point of Volatile Flammable Materials by Tag Open-Cup Apparatus.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

National Motor Freight Traffic Association, Incorporated, Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

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3.9.1.2 Liquid unpigmented products. Liquid unpigmented products shall be packaged in the quantity specified (see 6.2) in containers conforming to PPP-C-96, type V, class 4, 1-gallon capacity or less. Metal screw cap closure is required. Inner friction metal seals are required and shall be rolled or tapped firmly into the screw neck, after cans have been filled, and seated so as not to damage liner pad or facing. Caps shall be secured by mechanical means or by cap wrenches. External plan B coating and side seam striping are required. Containers of 1/2-gallon capacity and above shall be provided with a formed bridge type handle or a wire handle, which shall be galvanized or otherwise protectively coated to resist corrosion.

3.9.1.3 Intermediate packaging. Cans of the same size and type material and of 1-pint capacity or less shall be intermediate packaged in fiberboard boxes conforming to PPP-B-636, grade W5c or W6c. Quantity and arrangement shall be as specified in table I. Unless otherwise specified (see 6.2), boxes shall be provided with fiberboard separators and full size top and bottom pads. Separators shall be placed between the tiers of 2- and 4-ounce cans. Full size top and bottom pads may be eliminated when cans are intermediate packaged in style CSSC, center special slotted boxes. Fiberboard separator pads and the full size top and bottom pads shall be of the same material as used in the box.

TABLE I. Intermediate packaging of cans

Container	Tiers	Rows	Number per row	Total number containers
2-ounce cans	2	3	8	48
4-ounce cans	1	4	6	24
4-ounce round friction plug cans	4	3	2	24
6-ounce oblong	1	3	4	12
8-ounce oblong	1	2	6	12
8-ounce round friction plug cans	1	3	4	12
1-pint cans (oblong)	1	2	6	12

3.9.2 Level B. The requirements of 3.9.1.1 and 3.9.1.2 shall apply for level B packaging except that exterior plan B coating and side seam striping are not required, and wire handles and balls shall not be required to be galvanized or otherwise coated to resist corrosion.

3.9.2.1 Plastic bottles. When specified (see 6.2), liquid unpigmented products shall be packaged in a high density polyethylene bottle, not to exceed one-gallon capacity. The closure cap shall be secured with a self-shrinking tape closure or with pressure-sensitive tape conforming to PPP-P-90. The tape shall extend from the top of the cap well down over the neck of the bottle. The length of the tape shall be not less than one and one-half times the circumference of the cap.

3.9.2.2 Intermediate packaging. Cans and plastic bottles of the same size and type material and of 1-pint capacity or less shall be intermediate packaged in fiberboard boxes conforming to PPP-B-636, class domestic, style RSC or CSSC. Quantity and arrangement shall be as specified in table I. Style RSC shall be provided with full size top and bottom fiberboard pads. Separators shall be placed between the tiers of 2 and 4 ounce cans and bottles. Separator pads and top and bottom pads shall be of the same material as used in the box.

3.9.3 Level C. Material shall be packaged in unit capacity containers as specified (see 6.2) in accordance with the supplier's commercial practice, providing that this insures protection for the material during shipment and provides for safe delivery at its destination.

3.10 Packing. Packing shall be level A, B, or C, as specified (see 6.2).

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3.10.1 General packing instructions for level A. The quantity and arrangement of unit and intermediate containers packed in a shipping container shall be as specified in table II. Protection of closures, handles, and balls shall be accomplished by providing cell spacers or buffer pads formed from scored sheets of fiberboard conforming to the material requirements of PPP-F-320, grade W6c fiberboard. The design, number, and arrangement of pads shall prevent movement of cans and provide clearance for the projecting closures, handles, and balls. Cell type partitions will not be required for oblong type containers and quart round and gallon round cans. When cans are arranged and packed for shipment with handles removed, the handles shall be packed and secured in the shipping container to prevent movement and damage during handling, shipment, and storage.

TABLE II. Exterior packing arrangement

Containers	Number of intermediate containers	Number per row	Rows	Tiers	Total number containers
2-ounce	4	1	2	2	192
4-ounce	4	1	2	2	96
6-ounce	6	1	3	2	72
8-ounce	6	1	3	2	72
1-pint oblong	4	1	2	2	48
1-pint round	-	6	4	2	48
1-quart	-	4	3	1	12
½-gallon	-	4	2	1	8
1-gallon round	-	2	2	1	4
1-gallon rectangular	-	3	2	1	6

3.10.2 Level A.

3.10.2.1 Cans. Cans, packaged as specified in the quantity and arrangement specified in table II shall be packed in close-fitting boxes conforming to PPP-B-591 (class II), PPP-B-601 (overseas type), PPP-B-621 (class 2), or PPP-B-636 (V3c, V3s, or V2s). For Army procurement, boxes conforming to PPP-B-636 shall not be used. The weight of contents shall not exceed 45 pounds for V3c and V3s containers. Boxes shall be closed and reinforced in accordance with the applicable box specification or appendix thereto, except that fiberboard boxes shall be reinforced with nonmetallic strapping or reinforced tape in lieu of steel strapping. Steel strapping when used shall conform to QQ-S-781, type 1, class B. When specified (see 6.2), intermediate fiberboard containers need not be overpacked. When intermediate containers are used as shipping containers, the closure and reinforcing requirements for shipping containers shall apply.

3.10.2.2 Liquid pigmented products. Liquid pigmented products shall be packed in the quantity specified (see 6.2) in containers conforming to the following:

3.10.2.2.1 Five-gallon pail. The 5-gallon pails shall conform to PPP-P-704, as applicable (see 3.3). Wire handles shall be galvanized or otherwise protectively coated to resist corrosion.

3.10.2.2.2 Sixteen-gallon drum. The 16-gallon drum shall conform to PPP-D-705, as applicable (see 3.3).

3.10.2.2.3 Thirty-gallon drum. The 30-gallon drum shall conform to PPP-D-705, as applicable (see 3.3).

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3.10.2.2.4 Fifty-five gallon drum. The 55-gallon drum shall conform to PPP-D-729, as applicable (see 3.3). When specified (see 6.2), the drum shall conform to PPP-D-732, as applicable (see 3.3). When applicable (see 3.3), 20/18 gage may be specified (see 6.2). When specified (see 6.2), the drum shall be equipped with an agitator in accordance with PPP-D-729.

3.10.2.3 Liquid unpigmented products. Liquid unpigmented products shall be packed in the quantity specified (see 6.2) in containers conforming to the following:

3.10.2.3.1 Five-gallon pail. The 5-gallon pails shall conform to PPP-P-704 as applicable (see 3.3). The pail closure shall be provided with an inner seal. Wire handles or balls shall be galvanized or otherwise protectively coated to resist corrosion.

3.10.2.3.2 Fifty-five gallon drum. The 55-gallon drum shall conform to PPP-D-729 as applicable (see 3.3). When specified (see 6.2), the drum shall conform to PPP-D-732, as applicable (see 3.3).

3.10.2.4 Palletization. When specified (see 6.2), pails or drums shall be palletized in accordance with MIL-STD-147.

3.10.3 Level B.

3.10.3.1 Cans and plastic bottles. The quantity and arrangement of unit and intermediate containers shall be as specified in 3.10.1, except that fiberboard conforming to PPP-F-320, class domestic, grade 200, shall be used as cell spacers and buffer pads. The cans or plastic bottles shall be packed in close-fitting boxes conforming to PPP-B-591 (class 1), PPP-B-601 (domestic type), PPP-B-621 (class 1), PPP-B-640 (class 1), or PPP-B-636 (class domestic). When specified (see 6.2), class weather resistant fiberboard boxes shall be used. For Army procurement, fiberboard boxes used must be class weather resistant. Boxes shall be closed as specified in the applicable specification appendix, except that strapping of PPP-B-636 boxes is not required. When specified (see 6.2), intermediate fiberboard boxes shall be used as shipping containers, in which case the closure and reinforcing requirements for shipping containers shall apply.

3.10.3.2 Pails and drums. Pails and drums for liquid pigmented and liquid unpigmented products shall be as specified in 3.10.2.2 and 3.10.2.3, respectively.

3.10.3.3 Palletization. When specified (see 6.2), pails or drums shall be palletized in accordance with MIL-STD-147.

3.10.4 Level C. Material, packaged as specified in 3.9, shall be packed in containers which will insure acceptance by carrier at lowest rates and safe delivery at destination. Shipping containers shall comply to the Uniform Freight Classification Rules or National Motor Freight Classification Rules, as applicable.

3.11 Marking.

3.11.1 Civil agencies. In addition to the markings specified in 3.11.3 and any special markings required by the contract, purchase order (see 6.2) or applicable commodity specification, each unit, intermediate, and shipping container shall be marked in accordance with Fed. Std. No. 123.

3.11.2 Military agencies. In addition to the markings specified in 3.11.3 and any special markings specified by the contract, purchase order (see 6.2), or applicable commodity specification, each unit, intermediate, and shipping container or palletized unit load shall be marked in accordance with MIL-STD-147.

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3.11.3 Special marking. The following special marking shall be applied to unit, intermediate, and shipping containers, unless otherwise indicated below:

Specification number.
 Net weight in container (unit container only).
 Color designation and no. (if applicable).
 Formula number, when applicable.
 Manufacturer's Qualified Products List designation, when applicable.
 Manufacturer's name.
 Manufacturer's batch number.
 Date of manufacture (month and year).
 Contractor's name and address.
 Contract number.
 Purchase order number (shipping container only).
 Mixing and thinning directions and application instructions (if applicable)
 (except on intermediate and shipping boxes).
 "This Side Up" in bold letters on top panel (shipping containers only).

3.11.4 Warnings. Warning markings or labels required by the Manufacturing Chemists Association Manual L-1 shall be applied to unit and intermediate containers.

3.11.5 Coatings containing lead. All containers with coating materials which contain lead compounds in excess of 0.5 percent by weight (calculated as lead metal) in the total nonvolatile content shall be marked with the following warning notice:

"Caution: This coating contains toxic lead compounds. Do not use on interior surfaces, porches or exterior surfaces of any items of furniture, machinery, or appliances to which children may be commonly exposed. Adequate precautions should be taken when spraying."

3.11.6 Flash point. In addition to the markings required above, each shipping container that contains a material having a flash point (see note) of 200° F. or less shall be marked with the flash point of the material, expressed in both degrees Fahrenheit and centigrade, i.e., "Flash Point ____° F., (____° C.)". These markings shall be not less than one-half inch high and shall be placed on the same side of the shipping container as the identification marking.

NOTE: Those liquids having a flash point of 90° F. or less shall be tested in accordance with ASTM D 1310, "Method for Test for Flash Point of Volatile Materials by Tag Open-Cup Apparatus." Those liquids having a flash point from 81° through 200° F. shall be tested in accordance with ASTM D 93, "Method for Test for Flash Point by Pensky-Martens Closed Tester".

3.12 Workmanship. All operations involved in the packaging, packing, and marking of paint, varnish, lacquer, and related materials shall be performed in accordance with good practice and in such a manner as to meet all requirements specified herein.

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 that supplies and services conform to prescribed requirements.

4.2 Classification of inspection. This specification provides for the following inspections:

- (a) First article inspection (see 4.3).
- (b) Quality conformance inspection (see 4.4).

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4.3 First article inspection. First article inspection shall consist of all the examinations and tests specified herein.

4.4 Quality conformance inspection. All packaging, packing, and marking shall be examined and tested to determine conformance to the requirements specified herein. Except as required by referenced specifications, inspection lots and sampling shall be in accordance with MIL-STD-105, inspection level I. Major and minor defects listed in table III shall be inspected using an Acceptable Quality Level (AQL) of 1.5 and 2.5 defects per hundred units respectively. Critical defects listed in table III shall be inspected using an AQL of 0.015 defects per hundred units.

TABLE III. Classification of defects in accordance with MIL-STD-105

Categories	Defects
Critical:	
1	Warning marking or labels not provided to protect personnel from burns, toxicity, asphyxiation, or explosion, when required (see 3.11.4, 3.11.5, and 3.11.6).
Major:	Containers:
101.	Container not type specified (see 3.2, 3.9, and 3.10).
102.	Container metal thickness (cans only) not in accordance with established commercial practices for type of container and product container (see 3.9.1.1 and 3.9.1.2).
103.	Closure not the type specified; not tight when required (see 3.9 and 3.10). (a) Screw cap. (b) Multiple friction plug. (c) Lug cover. (d) Tight head plug and vent.
104.	Size (capacity) not as specified (see 3.9 and 3.10).
105.	Inner seal (metal friction type) not sealed; damaged (see 3.9.1.2).
106.	Gasket missing, not seated, or damaged (see 3.9).
107.	Gaskets not of material compatible with the product contained (see 3.6).
108.	Marking (as to content) not as specified, incomplete, or illegible; damaged (see 3.11.3).
109.	Container coating (internal) not compatible with product contained; external coating damaged (see 3.6).
110.	Product container (cans) not all of same type and capacity (see 3.9.1 and 3.9.2.1).
111.	Arrangement of product containers not as specified (see 3.9.1 and 3.9.2.1).
112.	Intermediate package not as specified (see 3.9.1.2 and 3.9.2.1).
113.	Separators or pads missing or not of the specified material (see 3.9.1.2 and 3.9.2.1).
Major:	Packing:
114.	Product containers not all of same type and capacity (see 3.10.1 and 3.10.3).
115.	Arrangement of product containers not as specified (see 3.10.1 and 3.10.3).
116.	Separators, buffer-pads, or cell spacers not as specified; closures, handles, or bails not protected (see 3.10.1 and 3.10.3).
117.	Intermediate packages not arranged as specified; quantity not as required (see 3.10.1 and 3.10.3).
118.	Intermediate fiberboard boxes (when authorized as level A shipping containers) not closed, banded, or strapped as specified herein (see 3.10.3.1).
119.	Intermediate fiberboard boxes (when authorized as level B shipping containers) not closed as specified herein (see 3.10.3.1).
120.	Commercial packing (level C) (when specified) not conforming to carriers' rules and regulations; does not insure safe delivery at destination (see 3.10.4).

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TABLE III. Classification of defects in accordance with MIL-STD-105 (con.)

Categories	Defects
	Shipping containers:
121.	Not conforming to the applicable specification (see 3.10).
122.	Not filled (see 3.12).
123.	Closing and strapping (level A) not as specified (see 3.10.2.1).
124.	Steel strapping not the type specified (see 3.10.2.1).
125.	Palletized unit loads (when authorized for pallets and drums) not palletized as specified (see 3.10.2.4 and 3.10.3.3).
126.	Closing of boxes (level B) not as specified (see 3.10.3.1).
127.	Plastic bottle closure not as specified (see 3.9.2.1).
	Minor:
201.	Dents, scratches, not clean (see 3.2 and 3.12).
202.	Closure damaged (burrs, sharp edges) (see 3.12).
203.	Evidence of rust or corrosion (see 3.2 and 3.12).
204.	Bail or handle missing or damaged (see 3.10.2.2.1 and 3.10.2.3.1).
205.	Marking of unit container incorrect, incomplete, not legible (see 3.11).
206.	Marking of intermediate container incorrect, incomplete, not legible (see 3.11).
207.	Marking on shipping container incorrect, incomplete, not legible (see 3.11).

4.5 Leakage. Filled unit containers shall be sampled and inspected for signs of leakage. The containers shall then be inverted for a period of ten minutes and again inspected for signs of leakage. Sampling shall be in accordance with MIL-STD-105 at inspection level II with an AQL of 1.5 defects per hundred units.

5. PREPARATION FOR DELIVERY

This section is not applicable to this specification.

6. NOTES

6.1 Intended use. It is intended that this specification be used for direct reference in contracts or orders and be used for reference in section 5 of commodity specifications for the packaging, packing, and marking of paint, varnish, lacquer, and related materials.

6.2 Ordering data. Purchasers should select the preferred options permitted herein, and include the following information in procurement documents:

- (a) Title, number and date of this specification.
- (b) Whether first article inspection is required (see 3.1).
- (c) Name and address of first article inspection laboratory (see 3.1).
- (d) Whether containers other than new are authorized (see 3.2).
- (e) Applicable level of packaging and level of packing required (see 3.9 and 3.10).
- (f) Type and capacity of unit containers (see 3.9.1.1, 3.9.1.2, 3.9.3, 3.10.2.2, and 3.10.2.3).
- (g) When fiberboard separators and top and bottom pads are not required (see 3.9.1.2).
- (h) Whether agitators are required (see 3.10.2.2.4).
- (i) When intermediate packages need not be overpacked (see 3.10.2.1 and 3.10.3.1).

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- (j) Which type and class of pail is required (see 3.10.2.2.1).
- (k) When drums conforming to PPP-D-732 may be used (see 3.10.2.2.4 and 3.10.2.3.2).
- (l) Which type of drum is required and whether a 20/18 gage is authorized (see 3.10.2.2.4).
- (m) Whether shipping containers should be palletized (see 3.10.2.4 and 3.10.3.3).
- (n) When a class weather-resistant fiberboard box is required for level B (see 3.10.3.1).
- (o) Whether additional markings are required (see 3.11.1 and 3.11.2).
- (p) Whether plastic bottles may be used (see 3.9.2.1).

MILITARY INTERESTS:

Custodians:

Army - ME
Navy - AS
Air Force - 84

Review Activities:

Army - AT, MR, ME
Navy - SH, CG, YD

User Activities:

Army - EL

CIVIL AGENCY COORDINATING ACTIVITIES:

AEC
DMS
FPI
HEW - FDA
NASA - JFX

PREPARING ACTIVITY:

GSA - FSS

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See Section 2 of this specification to obtain extra copies and other documents referenced herein. Price 35 cents each.

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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DEPARTMENT OF THE ARMY



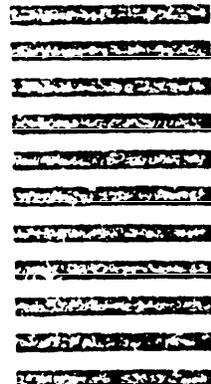
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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER		2. DOCUMENT TITLE	
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)	

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