

INCH-POUND

MIL-DTL-29469A(MC)

2 April 1998

SUPERSEDING

MIL-C-29469(MC)

20 July 1994

## DETAIL SPECIFICATION

## CHAPLAIN'S KIT - COMBAT

This specification is approved for use by U.S. Marine Corps, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

## 1. SCOPE

1.1. Scope. This document establishes the requirements for a Chaplain's Combat Kit with carrying case.

## 2. APPLICABLE DOCUMENTS

2.1. General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to the Commander (PSE-D), Marine Corps Systems Command, Quantico, VA 22134-5010 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 9925

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## MIL-DTL-29469A(MC)

2.2. Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

## SPECIFICATIONS

## FEDERAL

- A-A-50199 - Thread, Polyester Core, Cotton or Polyester Covered
- A-A-50356 - Handkerchief, Men's or Women's
- A-A-52106 - Cloth, Twill or Plain Weave, Polyester and Polyester Blend
- V-T-285 - Thread, Polyester
- L-P-390 - Plastic Molding and Extrusion Material, Polyethylene and Copolymers (Low, Medium, and High Density)

## DEPARTMENT OF DEFENSE

- MIL-C-508 - Cloth, Oxford, Nylon, 3 Ounce
- MIL-W-4088 - Webbing, Textile, Woven Nylon
- MIL-T-5038 - Tape, Textile and Webbing, Textile, Reinforcing, Nylon
- MIL-H-9890 - Hardware, Individual Load Carrying Equipment: and Hardware, Miscellaneous
- MIL-W-17337 - Webbing, Textile, Woven Nylon
- MIL-R-20092 - Rubber or Plastic Sheets and Assembled and Molded Shapes, Synthetic, Foam or Sponge, Open Cell
- MIL-T-31000 - Technical Data Packages, General Specification for
- MIL-F-21840 - Fastener Tapes, Hook and Loop, Synthetic
- MIL-C-43734 - Cloth, Duck, Textured Nylon
- MIL-W-43668 - Webbing, Textile, Textured or Multifilament Nylon
- MIL-C-44031 - Cloth, Camouflage Pattern: Woodland, Cotton and Nylon

MIL-DTL-29469A(MC)

STANDARDS

FEDERAL

- FED-STD-4 - Glossary of Fabric Imperfections
- FED-STD-595 - Colors Used in Government Procurement
- FED-STD-751 - Stitches, Seams and Stitchings

DEPARTMENT OF DEFENSE

- MIL-STD-100 - Engineering Drawing Practices
- MIL-STD-973 - Configuration Management
- MIL-STD-2219 - Fusion Welding for Aerospace Applications

(Unless otherwise indicated, copies of the above specifications, standards, handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2.2 Other Government documents and publications. The following other Government documents and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DRAWINGS

- 14-1-164 - Chaplain's Kit, Combat (Assault), Illustration of Components
- 14-1-165 - Carrying Case, Sheet 1 of 2 (spec notes)
- 14-1-165 - Carrying Case, Sheet 2 of 2 (parts)
- 14-1-167 - Carrying Strap Quick Release, (male)
- 14-1-181 - Carrying Strap Quick Release, (female)
- 14-1-166 - Accessory Case
- 14-1-168 - Cross/Crucifix Assembly with Base
- 14-1-169 - Cross/Crucifix Adapter Assembly
- 14-1-170 - Cross/Crucifix (dimensions)
- 14-1-171 - Cross/Crucifix Adapter (dimensions)
- 14-1-178 - Cross/Crucifix, Base Assembly
- 14-1-179 - Cross/Crucifix, Base (dimensions)
- 14-1-180 - Cross/Crucifix, Bushing
- 14-1-172 - Chalice Assembly
- 14-1-173 - Chalice Adapter Assembly
- 14-1-174 - Chalice Cup
- 14-1-175 - Chalice Adapter
- 14-1-176 - Chalice, Intinction Cup
- 14-1-177 - Chalice, Paten

MIL-DTL-29469A(MC)

- 14-1-178 - Chalice, Base Assembly
- 14-1-179 - Chalice, Base (dimensions)
- 14-1-180 - Chalice, Bushing
- 14-1-182 - Pyx Assembly
- 14-1-183 - Pyx, Base
- 14-1-184 - Pyx, Lid
- 14-1-185 - Pyx, Ring
- 14-1-186 - Pyx, Hinge Pin
- 14-1-187 - Card, Prayer
- 14-1-188 - Card, Absolution and Anointing
- 14-1-189 - Protective Insert, Bottom
- 14-1-190 - Protective Insert, Top
- 14-1-191 - Cloth, Corporal
- 14-1-192 - Cloth, Purificator and Finger Towel
- 14-1-193 - Stole

(Copies of the drawings are available from the U.S. Marine Corps Systems Command, SSC, Quantico, VA 22134-5010)

2.3. Non-Government publications. The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS are the issues of the documents cited in the solicitation (see 6.2).

ANSI/ASQC Z1.4 - Sampling Procedures and Tables for Inspection by Attributes

(Application for copies should be addressed to The American National Standards Institute, 11 West 42nd Street, New York, NY 10036.)

ASTM A 240 - Standard Specification for Heat-Resisting Chromium and Chromium - Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels

ASTM D 1056-91 - Type II, Class A, Grade TBD, Suffix SCE-F2-TBD

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

## MIL-DTL-29469A(MC)

2.4. 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 takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

3.1. First article. When specified (see 6.2), a sample shall be subjected to first article inspection in accordance with 4.3.

3.2. Materials and components. The materials and components used in the construction shall be in accordance with the drawings and parts lists indexed in Section 2.2.2 and this specification.

3.2.1 Material and material colors for carrier and accessory case. Material for construction of the carrier and accessory case shall conform to class 3 of MIL-C-43734, which is 1000 - denier type 440 cordura nylon material coated with water proofing substance to create finished weight of 12 oz., but not less than 11 oz. All material colors for the carrier and accessory case shall be in accordance with FED-STD-595. Acceptable colors chips are: 34082; 34083; 34084; 34086; 34088 or 34089.

3.2.2 Metal material. All metal material shall be type 304 corrosion resistant steel. When construction is complete, the chalice cup, intinction cup, paten, cup base, cross base, pyx base and pyx lid shall measure .040 +0 -.010. The cross material shall be stainless plate, type 304, .125 thick per ASTM A 240.

3.3. Design and construction. The design and construction shall be in accordance with the drawings listed in Section 2.2.2 and this specification. Tolerances for overall dimensions on components shall be in accordance with the manufacturer's commercial practice unless otherwise specified herein.

3.3.1 Major components list. The components of the chaplain's kit are designed to fit snugly in the carrying case in the quantities indicated:

## MIL-DTL-29469A(MC)

<u>Nomenclature</u>	<u>Quantity</u>	<u>Reference</u>
Bottle, wide mouth, plastic (2 oz.)	1	3.3.2.1
Bottle, wide mouth, plastic (4 oz.)	1	3.3.2.1
Bottle, plastic, press lock cap	1	3.3.2.2
Card, absolution and anointing	1	3.3.2.3
Card, prayer	1	3.3.2.4
Chalice (cup, base, intinction & paten)	1	3.3.2.5
Cloth, corporal	1	3.3.2.6
Cloth, purificator	1	3.3.2.7
Cloth, finger towel	1	3.3.2.7
Cross and crucifix	1	3.3.2.8
Oil stock	1	3.3.2.9
Pyx	1	3.3.2.10
Reconciliation stole	1	3.3.2.11
Stole	1	3.3.2.12
Carrying case	2	3.3.2.13
Accessory case	1	3.3.2.14
Container, priest bread	1	3.3.2.15
Insert, protective	1	3.3.2.16
List, parts	1	3.3.2.17

### 3.3.2 Description of components.

3.3.2.1. Bottle, wide mouth, plastic. The wide mouth clear plastic bottles with screw caps shall be of two or four ounce capacity.

3.3.2.2. Bottle/tube, plastic, with cap. The bottle/tube with press lock cap shall be of flexible, yet sturdy plastic and be capable of holding between 50 and 70 communion host/wafers.

3.3.2.3. Card, absolution and anointing. The absolution and anointing card shall measure 3-3/4 by 2-3/4 inches ( $\pm 1/8$  inch tolerance) and shall be made from 50 or 60 pound, gray color or off white color stock, using 12-pitch bold print (reduced by 30 percent), laminated on both sides with 5-mil (minimum plastic). Laminated border edges shall be at least 1/8 inch. The text for each side of this card shall be as shown on Drawing 14-1-188.

3.3.2.4. Card, prayer. The prayer card shall measure 5-3/16 by 4-3/16 ( $\pm 1/8$  inch tolerance), with a 1/8 inch minimum border. Corners are to be rounded, and shall be made from 50 to 60 pound, gray or off white color stock, using 12 pitch bold print, laminated on both sides, with 5-mil (minimum) plastic. Laminated

## MIL-DTL-29469A(MC)

border edges shall be at least 1/8 inch. The text shall be in accordance with Drawing 14-1-187.

3.3.2.5. Chalice assembly (cup, base, intinction cup and paten). The chalice assembly shall be made from corrosion resistant steel per 3.2.2 that allows for field use without requiring special protection or cleaning. It shall be constructed in accordance with the Drawings 14-1-172, 14-1-173, 14-1-174, 14-1-175, 14-1-176, 14-1-177, 14-1-178, 14-1-179, 14-1-180 (see Parts List 14-1-172 and 14-1-173). The exterior of the chalice shall be mill finished in a manner to prevent reflection, and the interior of the chalice cup, intinction cup and paten will be a polished finish. The paten shall fit securely over the opening of the chalice cup to prevent foreign matter from entering in windy conditions. The chalice and the paten shall have no markings.

3.3.2.6. Cloth, corporal. The cloth shall measure 17 inches square ( $\pm$  1/16 inch), have hemmed edges, color per acceptable color chips in paragraph 3.2.1, and conform to cotton material of A-A-50356. The cloth shall have a small black cross (1 inch high, 1/2 inch wide  $\pm$  1/16 inch), embroidered in the horizontal center, 6-1/4 inches from the bottom edge of the cloth using embroidery thread conforming to 150/2 denier rayon, bright luster, multifilament, black color, No. 67111 in accordance with Drawing 14-1-191.

3.3.2.7. Cloths, purificator and finger towel. The cloths, one for the purificator and one for the finger towel, shall be made from cotton material conforming to A-A-50356, color per acceptable color chips in 3.2.1, with a small black cross (no larger than 1 inch by 1/2 inch) embroidered in the center 5 inches from the top edge of the cloth. All edges shall be hemmed. Construction and material requirements for the cloths shall be in accordance with Drawing 14-1-192. They shall measure approximately 17 inches in length by 8-1/2 inches in width. Thread will be in accordance with 3.3.2.6 for the corporal.

3.3.2.8. Cross and crucifix. The cross and crucifix shall be made from corrosion resistant steel, in accordance with 3.2.2, that will allow for field use without requiring special protection or cleaning. It shall be constructed in accordance with Drawings 14-1-168, 14-1-169, 14-1-170, 14-1-171 and 14-1-180. The base shall be constructed in accordance with Drawings 14-1-178, 14-1-179 and Parts List 14-1-168. The cross will accommodate both Catholic and Protestant religious usage

## MIL-DTL-29469A(MC)

(Catholic on one side and Protestant on the other side). When assembled, the cross and crucifix will measure approximately 6-1/2 inches ( $\pm$  1/4 inch) in height and consist of a base that allows display in an upright manner, and allow breaking down for storage in carrying case. The cross crucifix will have a mill finish to inhibit reflection. Etching will be in accordance with 3.5.2. Welding will be in accordance with 3.3.3.

3.3.2.9. Oil stock. The oil stock shall be made of metal as noted in 3.2.2. Dimensions shall be 1 inch in diameter, 3/4 inch in height ( $\pm$  1/16 inch), with same material screw cap which includes a cork liner inside the cap. The finger ring shall be attached by a welded clip to the bottom of the oil stock so that when the ring is closed against the oil stock the periphery of the ring does not extend more than 1/16 inch from the outer fringe edge of the oil stock. The exterior shall be of mill finish. The oil stock shall have no markings. Welding shall be in accordance with 3.3.3.

3.3.2.10. Pyx. The pyx shall be of sufficient size to hold between eight to 12 hosts, and be constructed of corrosion resistant steel per 3.2.2 that will allow for field use and require minimum cleaning. Exterior shall be of mill finish and the interior of polished finish. It shall be in accordance with Drawings 14-1-182, 14-1-183, 14-1-184, 14-1-185, 14-1-186 and Parts List 14-1-182. The pyx shall have no markings. Hinge may be welded or secured by metal fabrication. If welded on the base or cover of the pyx, it is recommended that the hinge be centered on the base to allow for welding. Welding shall be in accordance with 3.3.3.

3.3.2.11. Reconciliation stole. The reconciliation stole shall be white on one side and dark purple on the other with white trim on both sides. This can be accomplished by attaching a smaller piece of purple material upon a piece of larger whiter material. Material shall be of a durable, stain resistant polyester or nylon; white material is 1-3/4 inches wide; purple material is 1-1/2 inches wide; both purple and white pieces are 48 inches long. A gold cross shall be embroidered thru to include both sides on each end of the stole. The best side shall be purple. It is 1-1/2 inches long, with a cross bar of 1 inch, placed 1/2 inch from the top of the cross. Each cross shall be embroidered 4 inches from the relative bottom of each end of the stole, centered on each end of the stole. The crosses shall include an embroidered circle of the same thread of 1/2 inch diameter which



## MIL-DTL-29469A(MC)

is centered at the intersection of the four members of the cross. Four dots shall be embroidered with the same gold thread in the four segments of the cross. Placement of the dots shall be 1/2 inch from the center of the cross, centered between the members. A third but smaller cross, without the circle and dots, shall be embroidered at a point located in the center of the stole, at an equal distance from each end of the stole. Each member shall be of equal length, 3/4 inch long and 3/4 inch wide. Thread shall be an ASTM commercial nylon or rayon gold color embroidering thread.

3.3.2.12.Stole. The stole shall be of 3 oz. nylon oxford cloth conforming to type I, class 3 of MIL-C-508 and printed with standard Marine Corps four-color woodland camouflage conforming to MIL-C-44031, coated or uncoated. The sewing of the stole shall use polyester core thread conforming to 70/2 R or 3-ply, OD-7 color of A-A-50199. A black polyester cross with olive drab interior lining conforming to class 1, black color of A-A-52106 shall be woven into each end of the stole with embroidery done with embroidery thread conforming to 150/2 denier rayon, bright luster, multifilament, color, in accordance with Drawing 14-1-193.

3.3.2.13.Carrying case. The carrying case, including interior dividers and panel protectors, shall be made of material conforming to 3.2.1 and Drawings 165 (sheet 1 & 2). The nylon to reinforce the edges of the case and cover flap shall conform to type III, OD-7 color of MIL-STD-5038. The thread used for stitching shall conform to type I, class 1, subclass B of V-T-285 or ASTM commercial rayon or nylon color ODS-1. Stitching shall be size E for binding stitching and size F for other stitching. The interior of the carrying case will be lined with the same material as the exterior to create pockets to allow for the stiffeners to be inserted in the top, sides, and bottoms of the case in such a manner so as to ensure stiffeners will remain in place after the completion of the case.

3.3.2.13.1 Case dimension. The measurements for the carrying case shall measure 3-1/2 inches thick, 6-1/2 inches high, and 7 inches in length ( $\pm$  1/4 inch). The folding top shall have a cover lip with 2-1/2 inches ( $\pm$  1/4 inch) of overlap across the front. Each side of the cover lip shall taper from 2-1/2 inches in the front to 1 inch in the back ( $\pm$  1/4 inch). The cover flap of the case shall include a doubled and sewn pull strap, made of 1 inch wide nylon webbing conforming to type 3, OD-7 color per

## MIL-DTL-29469A(MC)

chip colors referenced in 3.2.1. The 1/2 inch pull strap shall be centered to the lower edge of the cover lip. The 1 inch wide by 5-3/4 inches long fastener tape (hook and loop) conforming to type II, class 1 OG 106 of MIL-F-21840 shall be sewn onto the underside of the cover lip (hook) and the corresponding front panel (loop) to secure case flap in closed position.

3.3.2.13.2 Keepers. The carrying case shall be 2-1/4 inch nylon webbing strip on the back and the two sides, conforming to type VIIIC, class 2, OD-7 color of MIL-W-4088. The back shall include two standard keepers conforming to type X, black color of MIL-H-9890 on the back of the case for attachment to cartridge belt. The side webbing is for optional attachment of the accessory case. The webbing shall be sewn to the carrier positioned in the following manner: The center of the webbing shall be centered on the sides and back of the carrier.

3.3.2.13.3 Carrying strap. The case shall have a carrying strap of 1 inch webbing, per Drawing 14-1-167, in accordance with class 2 of MIL-W-17337, color per chips referenced in 3.2.1. The adjustable and detachable carrying strap shall have a minimum length of 40 inches with each end attached to a quick release fastener which is secured to the case with a strip of 1 inch wide webbing conforming to type III, color per 3.2.1, sewn on to the sides of the case (as noted in 3.3.2.13.2; also see Parts List 14-1-165). The ends of the straps shall be finished as shown in Drawing 14-1-167. The quick release female buckles shall be attached to the sides of the carrying case (see Drawing 14-1-181). Securing straps, with the female buckles, attached to the carrying case shall be long enough to allow them to be easily folded into the case, so that the top of the case covers them when it is closed. This is to keep them from "dangling" when the carrying strap is not used (i.e., when attached to the individual belt- "cartridge belt").

3.3.2.13.4 Stiffeners. The inside of the carrying case shall include polyethylene stiffeners. Front and back stiffeners size shall be 5x6 by 1/8 inches each. Others shall be in accordance with Drawing 14-1-165. Stiffeners shall fit into stiffener pockets (see 3.3.2.13).

3.3.2.13.4.1 Polyethylene stiffener. The stiffener shall be made from 0.040 + 0.007 inch thick, high density virgin polyethylene of natural color conforming to type I, class H, grade 3 of L-P-390, except the melt index shall be 0.10 to 1.0

## MIL-DTL-29469A(MC)

inclusive. The stiffener shall be fabricated from sheet stock or molded to size and all its edges finished smooth. The stiffeners fabricated from sheet stock shall be produced in such a manner that the long edges of the pieces shall be parallel with the direction of extrusion (the long edges) of the roll of material from which they are fabricated. All edges shall be smooth and free from cracks. All stiffeners shall be stitched on the inside of the carrying case. The dimensions of the stiffeners shall be as follows:

	<u>Inches</u>	<u>Numbers</u>
Front	5 x 6 x 1/8	1
Side	5-3/4 x 2-1/2	2
Back	5 x 6 x 1/8	1
Bottom	6 x 2-1/2	1
Top	6 x 3-1/4	1
Front lid	6 x 1-1/2	1

3.3.2.14.Accessory case. The Ecclesiastical accessory case shall be made of material in accordance with 3.2.1. Nylon tape conforming to type III, OD-7 color of MIL-T-5038 shall be used to reinforce the edges of the case and cover flap, and thread conforming to type I, class 1, subclass B of V-T-285 shall be used with size E for binding stitching and size F for other stitching. The accessory case shall have a standard webbing strip of 2-1/4 inches nylon webbing, conforming to type VIIIC, class 2, OD-7 color of MIL-W-4088 for attachment to the webbing on the side of the carrier, or the cartridge belt with an included standard keeper conforming to type X, black color of MIL-H-9890. The cover flap of the accessory case shall be held closed by fastener tape (hook and pile) conforming to type II, class 1, OG-106 color of MIL-F-21840. The accessory case shall be constructed in accordance with Drawing 14-1-166 and Parts List 14-1-166.

3.3.2.15.Container, priest bread. The priest bread container shall be a small metal (with mil finished exterior and interior) container that shall hold between 15 to 25 pieces of 2-3/4 inches priest size breads. Size shall be 3 inches in diameter  $\pm$  1/8, 7/8 inch in height  $\pm$  1/16.

3.3.2.16.Protective insert. The protective insert shall be sturdy, yet pliable foam conforming to type II, class 5, medium firm of MIL-R-20092 or ASTM D-1056-91, type II, class A, grade

## MIL-DTL-29469A(MC)

TBD, suffix SCE-F2-TBD. The measurements for the indented bottom protective insert shall be in accordance with Drawing 14-1-189. The indented is to fit the bottom of the two and four ounce bottles, the base of chalice, and the base of the cross and crucifix. The insert shall protect and stabilize contents, and also allow cushioning for individuals having suddenly fallen on the case in combat and field conditions. Insert shall be as thin as possible to save space and shall be made of a durable material.

3.3.2.17. Parts list. The laminated parts list shall measure 4 by 4-1/2 ( $\pm$  1/8 inch tolerance) with a 1/8 inch minimum border. Corners are to be rounded and shall be made from 50 to 60 pound gray or off white color stock using 12 pitch bold print, laminated on both sides, with 5-mil (minimum) plastic. Laminated edges shall be at least 1/8 inch. The Major Components List in 3.3.1 reflects items and quantities required for this parts list.

3.3.3 Metal working and welding. Passivating of metal is not required as long as 304 stainless steel is used. Metal parts shall be cleaned of all residue before welding and all residue and discoloration shall be cleaned after welding. All welding shall be silver braising or fusion welding in accordance with class C of MIL-STD-2219.

3.4. Construction, carrier and accessory case. The construction of the carrier and accessory case shall conform in all respects to the drawings listed in 2.2.2 and as specified herein. All raw edges shall be overedged.

3.4.1 Stitches, seams, and stitching. Stitches, seams, and stitching types listed below shall be in accordance with FED-STD-751.

For all stitching except overedge stitching	Stitch type 301, 8 to 10 stitches per inch with 3/16 minimum gage.
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3.4.1.1. Automatic stitching. Automatic stitching machines may be used to perform any of the stitch patterns, provided the requirements for the stitch pattern, stitches per inch, and size and type of thread are met; and at least three tying, overlapping, or backstitches are used to secure the ends of stitching.

## MIL-DTL-29469A(MC)

3.4.1.2. Type 301 stitching. Ends of stitching shall be backstitched or overstitched not less than 1 inch except where ends are turned under or caught in other seams and stitching. Thread tension shall be maintained so that there shall be no loose stitching resulting in loose bobbin or top thread, or excessively tight stitching resulting in puckering of the materials sewn. The lock shall be imbedded in the materials sewn.

3.4.1.2.1 Repairs of type 301 stitching. Repairs of type 301 stitching shall be as follows:

a. When thread breaks or bobbin run-outs occur during stitching, the stitching shall be repaired by restarting the stitching a minimum of 1 inch (1/2 inch for box-x and W-W stitching) back of the end of the stitching.

b. Thread breaks or two or more consecutive skipped or run-off stitches noted during inspection of the item (in-process or end item) shall be repaired by overstitching. The stitching shall start a minimum of 1 inch in back of the defective area (1/2 inch on box-x and W-W stitching), continue over the defective area, and continue a minimum of 1 inch (1/2 inch on box-x and W-W stitching) beyond the defective area onto the existing stitching. Loose or excessively tight stitching shall be repaired by removing the defective stitching without damaging the materials and restitching in the required manner.

c. When making the repairs, the ends of the stitching are not required to be backstitched.

3.4.1.3. Bartacks. Bartacks shall be as specified on the applicable drawing and as follows:

<u>Length + 1/16 inch</u>	<u>Width + 1/32 inch</u>	<u>Stitches per bartack</u>
1/2 inch	1/8 inch	28
3/4 inch	1/8 inch	42

Bartacks shall be free from thread breaks and loose stitching.

3.4.1.4. Thread ends. All thread ends shall be trimmed to 1/4 inch maximum length.

## MIL-DTL-29469A(MC)

3.4.2 Fusing of ends of nylon material, taping and webbing. All raw ends of nylon material, tape, and webbing shall be fused. The apparatus used to fuse the tape ends shall be capable of providing sufficient heat to provide a smooth edge and with the cut ends of the tape yarns all fused together.

3.4.3 Parts list. A parts list shall be included in the carrying case containing the component parts of the kit in accordance with 3.3.2.17.

3.4.4 Etching. The etching shall be by means of a chemical, electrical or mechanical etching process. The cross corpus dimension shall be 2-3/8 inches ( $\pm 1/16$  inch) the length of the body (head to foot), and 2-1/4 inches ( $\pm 1/16$  inch) the width (outstretched hands and arms). The scroll with "INRI" above the corpus shall be 3/8 inch in height and 5/8 inch in width. Etching of the corpus and scroll as noted in Drawing 14-1-170. Etching on the opposite (Protestant) side of the cross shall have "IHS", with outlining, etched as noted in Drawing 14-1-170.

3.4.5 Repairs. Repairs such as mends, darns, patches or splices are not permitted on the case.

3.5. Replacement of defective components. During the spreading, cutting and manufacturing process, components having material defects or damages that are classified as defective in 4.4.2 shall be removed from production and replaced with nondefective and properly matched components.

3.6. Workmanship. Cloth components shall be clean and free of holes, cuts, tears or other defects. Webbing and tapes shall have no frayed or scalloped edges. Thread tension shall be maintained so that there shall be no loose stitching and seam allowances shall be maintained so that no runoffs, twists, pleats or open seams shall result. All thread ends shall be trimmed to 1/2 inch or less. Care shall be taken in sewing to see that no needle chews occur. Metal components shall be free of burrs, sharp edges, or corroded areas and shall not be broken or malformed.

3.7. Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and

## MIL-DTL-29469A(MC)

maintenance requirements, and promotes economically advantageous life cycle costs.

#### 4. VERIFICATION

4.1. Classification of inspection. The inspection requirements specified herein are classified as follows:

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

4.2. Inspection conditions. Unless otherwise specified, all inspections shall be performed in accordance with the provisions set forth in ANSI/ASQC Z1.4.

4.3. First article inspection. When a first article is required (see 6.3), it shall be examined for the defects specified in 4.4.2.1 and 4.4.2.2. The presence of any defect shall be cause for rejection of the first article.

#### 4.4. Conformance inspection.

4.4.1 In-process inspection. Inspection shall be made at any point or during any phase of the manufacturing process to determine whether cut lengths, cut parts, markings for location of components, and location of assembled component parts are in accordance with specified requirements. In addition, inspection shall be made to assure that the working patterns conform to the government patterns in all respects. Whenever nonconformance is noted, correction shall be made to the parts affected and lot in process. Parts which cannot be corrected shall be removed from production.

4.4.2 Examination of the end item. The end item shall be examined for defects listed in 4.4.2.1 and FED-STD-4, Section III. The sample unit shall be one kit.

4.4.2.1. General defects. General defects shall be classified as follows:

## MIL-DTL-29469A(MC)

Examine	Defects	Classification	
		Major	Minor A B
Fabric	a. Hole, cut, tear, smash, broken or missing yarn, or open place clearly visible at normal inspection distance (approximately three feet).	101	
Tape and webbing	a. Not firmly and tightly woven; edges frayed or scalloped.	102	
	b. Multiple floats.		201
	c. Any cut, hole, tear or smash.	103	
	d. Abrasion mark, stub, broken end or pick.		202
	e. Ends not fused as specified (as required).		203
Metal hardware	a. Broken or malformed failing to serve intended purpose, corroded area, burr or sharp edge.	104	
	b. Finish omitted, partially omitted or not as specified: - on brass or aluminum components. - on steel components.		204
	c. Not assembled as specified (unless otherwise classified herein).	105	
	d. Not specified type, size, or style.	106	
		107	
Open seam	a. 1/2 inch or less.		205
	b. More than 1/2 inch.	108	
NOTE: A seam shall be classified as open when one or more stitches joining a seam are broken, or when two or more consecutive skipped or runoff stitches occur.			
Raw edge (on edge required to be finished)	a. More than 1/2 inch in length when securely caught in stitching.	109	



## MIL-DTL-29469A(MC)

Examine	Defects	Classification	
		Major	Minor A B
NOTE: Raw edge not securely caught in stitching shall be classified as an open seam.			
Runoff (see open seam)			
Seam and stitch type	a. Wrong seam or stitch type.	110	
Bartacks	a. One or more bartacks omitted.	111	
	b. Any bartack not as specified or not in specified location.		206
	c. Loose, incomplete, or broken stitching.		207
Stitch tension	a. Loose, resulting in a loose bobbin or top thread.		208
	b. Excessively tight, resulting in puckering of material.		209
Stitches per inch	a. One stitch less than minimum specified.		210
	b. Two or more stitches less than minimum specified.	112	
	c. One or more stitches in excess of maximum specified.		211

NOTE: Variation in the number of stitches per inch caused by the operator's speeding up the machine and pulling the materials in order to sew over heavy places or heavy seams, or in turning corners shall be classified as follows:

- a. Within the minor defect classification - no defect
- b. Within the major defect classification - minor defect

Thread breaks, skipped stitches or runoffs	a. Not overstitched as specified.		212
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NOTE: Thread breaks or two or more consecutive skipped or runoff stitches not overstitched shall be classified as open seams.

## MIL-DTL-29469A(MC)

Examine	Defects	Classification	
		Major	Minor A B
Ends of stitching	a. Not secured as specified.		213
Rows of stitching	a. Any row missing except on hanger webbing.	113	
	b. On hanger webbing stitch patterns (applicable each pattern): - one row of stitching omitted.		214
	- two or more rows of stitching omitted.	114	
Components and assembly	a. Any component part omitted or not as specified or any required operation omitted (unless otherwise classified herein).	115	
	b. Needle chews.	116	
	c. Any mend, darn, patch, or splice.	117	
Binding	a. Loosely applied but not exposing raw edge of material.		215
	b. Loosely applied exposing raw edge of material.	118	
Marking label	a. Omitted, illegible, incorrect, or misplaced.		216
	b. Omitted, illegible, misplaced, date not as specified.		217
	c. Not green.		218
Location	a. Drilled.	119	
Markings	a. Printed marking more than 1/32 inch in width.		219
Cleanness	a. Any spot or stain clearly noticeable.		220
Thread ends	a. Not trimmed to 1/4 inch maximum length.		221

## MIL-DTL-29469A(MC)

4.4.2.2. Dimensional examination. Examination shall be made for compliance with all dimensions shown on the drawings which can be examined on the end item, including stitch margins and gauge, excluding reference dimensions. Any dimension exceeding the applicable tolerance shall constitute a defect. The lot size shall be expressed in units of kits. The sample unit shall be one kit.

## 5. PACKAGING

5.1. Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of material is to be performed by Department of Defense (DoD) personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department of Defense Agency, or within the Military Department's Systems Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

## 6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1. Intended use. The chaplain's kit is intended to meet requirements for religious services under combat conditions. The kit is provided with a support strap to be worn over the shoulder or attached to the wearer's belt by the two standard clip fasteners on the back of the kit.

6.2. Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of the specification.
- b. Issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.2).
- c. Packaging requirements (see 5.1).
- d. When a first article is required (see 3.1).
- e. Number of kits in first article (see 3.1).
- f. Any Government furnished material to be provided.

MIL-DTL-29469A(MC)

6.3. Parts lists (PLs). PLs 14-1-164 through 14-1-168; 14-1-172 and 14-1-173; 14-1-181 and 14-1-182; and 14-1-192 identify/describe kit components, quantity required, and reference the drawing/document number. In the event of conflict between these parts lists and the text of this specification the text of this specification will govern.

6.4. Bottles, plastic. A suggested source of supply for plastic bottles specified in 3.3.2.1 and 3.3.2.2 is the Nagle Company, P.O. Box 365, Rochester, New York 14602.

6.5. Quick release fastener. A suggested source of supply for quick release fastener snap end, as specified in 3.3.2.13.3 is ITW Nexus 230 Gerry Drive, Wood Dale, IL 60191.

6.6. Subject term (keyword) listing.

Chalice  
Cross  
Crucifix  
Stole

6.7. Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Preparing Activity  
Navy - MC  
Project No. 9925-N260

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-164	REVISION DATE: 94-05-09
LIST TITLE CHAPLAIN'S KIT, COMBAT (ASSAULT)			APPROVAL:	REV AUTH NO.	SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	1	14-1-165	E	14-1-165	Carrying Case
2	1	14-1-166	D	14-1-166	Accessory Case
3	1	14-1-174	C	14-1-174	Chalice Cup
4	1	14-1-178	C	14-1-178	Base, Cross/Crucifix or Chalice
5	1	14-1-182	C	14-1-182	Pyx
6	1	MIL-DTL-29469 NAVY (MC)		MIL-DTL-29469 NAVY(MC) 3.3.2.9	Oil Stock
7	1	MIL-DTL-29469 NAVY(MC)		MIL-DTL-29469 NAVY(MC) 3.3.2.15	Container, Priest Bread
8	1	Nagle Co.		Nagle Part # 625-09050 or equal	Bottle, Plastic, with Cap, Communion Host/Wafers
9	1	Nagle Co.		Nagle Part # 54-002 or equal	Bottle, Wide Mouth, Plastic (2 oz)
10	1	Nagel Co.		Nagle Part # 54-004 or equal	Bottle, Wide Mouth, Plastic (4 oz)
11	1	14-1-168	D	14-1-168	Cross and Crucifix
12	1	14-1-188	C	14-1-188	Card, Absolution and Anointing
13	1	14-1-187	C	14-1-187	Card, Prayer
14	1	14-1-189	D	14-1-189	Protective Insert, Bottom
15	1	Deleted		Deleted	Top Insert Deleted
16	1	MIL-DTL-29469 NAVY(MC)		MIL-DTL-29469 NAVY(MC) 3.3.2.11	Reconciliation Stole
17	1	14-1-192	D	14-1-192	Finger Towel, Cloth
18	1	14-1-192	D	14-1-192	Purificator, Cloth
19	1	14-1-191	D	14-1-191	Corporal, Cloth
20	1	14-1-193	D	14-1-193	Stole

PL 14-1-164. Chaplain's Kit, Combat (Assault).

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-165	REVISION DATE: 94-05-09
LIST TITLE CARRYING CASE				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	AR	MIL-C-43734		MIL-C-43734 Class 3; not less than 11 oz. 1000 denier type 400 cordura, nylon, water proof coated certification standard, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Basic Material, Including Interior Pocket Dividers
2	AR	MIL-T-5038		MIL-T-5038 type III, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Nylon Binding Tape
3	AR	MIL-W-4088		MIL-W-4088 2-1/4" type IIIC, class 2, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Nylon Webbing Tape
4	AR	MIL-W-4088		MIL-W-4088 2-1/4" type IIIC, class 2, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Nylon Webbing Tape
5	2	14-1-181	C	14-1-181	Carrying Strap, Quick Release, Female
6	2	14-1-167	C	14-1-167	Carrying Strap, Quick Release, Male
7	1	L-P-390		L-P-390, type I, class W, grade 3	Polyethylene Stiffener
8	1	L-P-390		L-P-390, type I, class W, grade 3	Polyethylene Stiffener
9	1	L-P-390		L-P-390, type I, class W, grade 3	Polyethylene Stiffener
10	AR	MIL-C-43734		MIL-C-43734	Inside Divider Pocket
11	AR	MIL-C-43734		MIL-C-43734	Inside Divider Pocket
12	1	L-P-390		L-P-390, type I, class H, grade 3	Polyethylene Stiffener
13	AR	MIL-T-5038		MIL-T-5038, type III, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Nylon Binding Tape
14	1	L-P-309		L-P-309, type I, class H, grade 3	Polyethylene Stiffener
15	1	L-P-390		L-P-390, type I, class H, grade 3	Polyethylene Stiffener
16	AR	MIL-F-21840		MIL-F-21840, type II, class 1, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Fastener Tape, Hook
17	AR	MIL-F-21840		MIL-F-21840, type II, class 1, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Fastener Tape, Hook
18	AR	V-T-285		V-T-285, type I, class 1, subclass B, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Polyester, Thread

PL 14-1-165. Carrying Case.

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-166	REVISION DATE: 94-05-09
LIST TITLE ACCESSORY CASE				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	AR	MIL-C-43734		MIL-C-43734 Class 3; not less than 11 oz. 1000 denier type 400 cordura, nylon, water proof coated certification standard, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Basic Material
2	AR	MIL-W-4088		MIL-W-4088 2-1/4" type IIIC, class 2, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Nylon Webbing Tape
3	AR	MIL-T-5038		MIL-T-5038 type III, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Nylon Binding Tape
4	AR	MIL-F-21840		MIL-F-21840 type II, class 1, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Fastener Tape, Hook
5	AR	MIL-F-21840		MIL-F-21840, type II, class 1, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Fastener Tape, Loop
6	AR	V-T-285		V-T-285, type I, class 1, subclass B, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Polyester, Thread

PL 14-1-166. Accessory case.

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-167	REVISION DATE: 94-05-09
LIST TITLE CARRYING STRAP, QUICK RELEASE, MALE				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	1	MIL-W-43668		MIL-W-43668 Webbing type III CG MIL-DTL-29469 NAVY(MC) 3.2.1	Carrying Strap
2	2	Nexus (Cage code 02768)		Nexus (Cage code 02768)	Male Buckle
3	AR	V-T-285		V-T-285, type I, class 1, subclass B, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Polyester, Thread

PL 14-1-167. Carrying strap, quick release, male.



## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-168	REVISION DATE: 94-05-09
LIST TITLE CROSS AND CRUCIFIX ASSEMBLY				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	1	14-1-170	D	14-1-170	Cross and Crucifix
2	1	14-1-178	C	14-1-178	Base, Cross and Crucifix

PL 14-1-168. Cross and crucifix assembly.

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-172	REVISION DATE: 94-05-09
LIST TITLE CHALICE ASSEMBLY				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	1	14-1-174	C	14-1-174	Cross and Crucifix
2	1	14-1-178	C	14-1-178	Base, Cross and Crucifix
3	1	14-1-176	C	14-1-176	Intinction Cup, Chalice
4	1	14-1-177	C	14-1-177	Paten, Chalice

PL 14-1-172. Chalice assembly.

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-173	REVISION DATE: 94-05-09
LIST TITLE CHALICE ADAPTER ASSEMBLY				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	1	14-1-174	C	14-1-174	Chalice Cup
2	1	14-1-175	B	14-1-175	Chalice Adapter

PL 14-1-173. Chalice adapter assembly.

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-181	REVISION DATE: 94-05-09
LIST TITLE CARRYING STRAP, QUICK RELEASE, FEMALE				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	AR	MIL-W-43668		MIL-W-43668 1" webbing, type III, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Carrying Strap
2	2	Nexus (Cage code 02768)		Nexus (Cage code 02768)	Female Buckle
3	AR	V-T-285		V-T-285, class 1, subclass B, CG MIL-DTL-29469 NAVY(MC) 3.2.1	Polyester, Thread

PL 14-1-181. Carrying strap, quick release, female.

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-182	REVISION DATE: 94-05-09
LIST TITLE PYX ASSEMBLY				APPROVAL:	REV AUTH NO. SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION
1	1	14-1-183	C	14-1-183	Pyx, Base
2	1	14-1-184	C	14-1-184	Pyx, Lid
3	1	14-1-185	C	14-1-185	Pyx, Ring
4	1	14-1-186	B	14-1-186	Pyx, Hinge Pin

PL 14-1-182. Pyx assembly.

## MIL-DTL-29469A (MC)

PARTS LIST		U.S. MARINE CORPS SYSTEMS COMMAND QUANTICO, VA 22134-5010		PL 14-1-192	REVISION DATE: 94-05-09	
LIST TITLE STOLE				APPROVAL:	REV AUTH NO.	SHEET: 1 OF: 1
NO	QTY ROD	DRAW/DOC NUMBER	SIZE	IDENTIFICATION	NOMENCLATURE/DESCRIPTION	
1	1	MIL-C-508		MIL-C-508 type 1, class 3	Panel, Right Hand Cloth, Oxford Nylon, 3 oz., Print per MIL-C-44031, Woodland Camouflage	
2	1	MIL-C-508		MIL-C-508 type 1, class 3	Panel, Left Hand Cloth, Oxford Nylon, 3 oz., Print per MIL-C-44031, Woodland Camouflage	
3	AR	A-A-50199		A-A-50199 CG MIL-DTL-29469 NAVY(MC) 3.2.1	Thread, 70/2 or 3-ply	
4	AR				Thread, Embroidery, 150/2 Denier Rayon or Polyester Color-Black	
5	AR				Thread, Embroidery, 150/2 Denier Rayon or Polyester, CG MIL-DTL-29469 NAVY(MC) 3.2.1	

PL 14-1-192. Stole.

## MIL-DTL-29469A (MC)

<b>STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL</b>		
<b>INSTRUCTIONS</b>		
<p>1. The preparing activity must complete blocks, 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.</p> <p>2. The submitter of this form must complete blocks 4, 5, 6, and 7.</p> <p>3. The preparing activity must provide a reply within 30 days from receipt of the form.</p> <p>NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of 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.</p>		
<b>I RECOMMEND A CHANGE:</b>	1. DOCUMENT NUMBER MIL-DTL-29469A	2. DOCUMENT DATE (YYMMDD) 98 02 05
3. DOCUMENT TITLE	CHAPLAIN'S KIT - COMBAT	
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (Last, First, Middle Initial)	b. ORGANIZATION	
c. ADDRESS (include Zip Code)	d. TELEPHONE (Include Area Code) (1) Commercial (2) DSN (if applicable)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY		
a. NAME COMMANDER, MARCORSYSCOM, PSE-D	b. TELEPHONE (include Area Code) (1) Commercial (2) DSN (703) 784-4584 278-4584	
c. ADDRESS (Include Zip Code) 2033 BARNETT AVE, SUITE 315, QUANTICO, VA 22134-5010	<b>IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:</b> Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340, DSN 289-2340	

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Previous editions are obsolete.