INCH-POUND MIL-S-24235B(SH) 21 August 1989 SUPERSEDING MIL-S-24235A(SH) 25 October 1977 (See 6.7)

MILITARY SPECIFICATION

STUFFING TUBES, METAL, AND PACKING ASSEMBLIES FOR ELECTRIC CABLES, GENERAL SPECIFICATION FOR

This specification is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

- 1. SCOPE
- 1.1 <u>Scope</u>. This specification covers metal stuffing tubes for passing electrical cables through decks and bulkheads and entering enclosed equipment on Naval ships and packing assemblies for stuffing tubes.
 - 2. APPLICABLE DOCUMENTS
 - 2.1 Government documents.
- 2.1.1 <u>Specifications, standards, and handbooks</u>. 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

FF-S-86 - Screw, Cap, Socket-Head. PPP-B-636 - Boxes, Shipping, Fiberboard.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 55Z3, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

<u>DISTRIBUTION STATEMENT A</u>. Approved for public release; distribution is unlimited.

MILITARY

MIL-P-116 - Preservation, Methods of.

MIL-R-6855 - Rubber, Synthetic, Sheets, Strips, Molded or

Extruded Shapes.

MIL-R-15624 - Rubber Gasket Material, 50 Durometer Hardness

(Maximum).

MIL-I-17214 - Indicator, Permeability; Low-Mu (Go-No Go).

MIL-E-17555 - Electronic and Electrical Equipment, Accessories,

and Provisioned Items (Repair Parts): Packaging

οf.

MIL-F-18240 .- Fastener, Externally Threaded, 250°F Self-Locking

Element for.

(See Supplement 1 for a list of associated specification sheets.)

STANDARDS

FEDERAL.

FED-STD-H28 - Screw-Thread Standards for Federal Services.

FED-STD-H28/2 - Screw-Thread Standards for Federal Services,

Section 2, Unified Inch Screw Threads - UN and

UNR Thread Forms.

MILITARY

MIL-STD-129 - Marking for Shipment and Storage.

MIL-STD-454 - Standard General Requirements for Electronic

Equipment.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)

2.2 <u>Non-Government publications</u>. The following documents 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).

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

B46.1 - Surface Texture Surface Roughness, Waviness and Lay. (DOD adopted)

(Application for copies should be addressed to the American National Standards Institute, 1430 Broadway, New York, NY 10018.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

D 2240 - Standard Test Method for Rubber Property - Durometer Hardness. (DOD adopted)

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

UNIFORM CLASSIFICATION COMMITTEE AGENT
Uniform Freight Classification Ratings, Rules and Regulations.

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

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated detail specifications or specifications sheets), 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 <u>Specification sheets</u>. The individual item requirements shall be as specified herein and in accordance with the applicable specification sheet. In the event of any conflict between the requirements of this specification and the specification sheet, the latter shall govern.
- 3.2 <u>First article</u>. When specified (see 6.2), a sample shall be subjected to first article inspection (see 6.4) in accordance with 4.3.
- 3.3 <u>Materials</u>. Materials shall be as specified (see 3.1). The contractor may select any material that will satisfactorily perform the intended function in the equipment and will otherwise comply with the requirements of this specification (see 6.2).

3.3.1 Metals.

- 3.3.1.1 <u>Dissimilar metals</u>. Dissimilar metals shall be in accordance with requirement 16 of MIL-STD-454.
- 3.3.1.2 <u>Brass parts</u>. Unless otherwise specified (see 3.1), the material for gland nuts, gland rings, and mounting hardware shall be a commercial grade of brass.
- 3.3.2 <u>Synthetic rubber parts</u>. Unless otherwise specified (see 3.1), synthetic rubber (neoprene) parts shall be molded class 1 as specified in MIL-R-15624.
- 3.3.3 <u>Recovered materials</u>. Unless otherwise specified herein, all equipment, material, and articles incorporated in the products covered by this specification shall be new and may be fabricated using materials produced from recovered materials to the maximum extent practicable without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw

materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this specification unless otherwise specifically specified.

- 3.4 <u>Design and construction</u>. The stuffing tubes, packing assemblies, and accessories (fitters and dummy plugs) shall be of the design, construction, and physical dimensions as specified (see 3.1).
- 3.4.1 <u>Small miscellaneous hardware</u>. Miscellaneous hardware such as screws and attachment chains shall be of a good commercial grade, corrosion-resistant or protected against corrosion. Self-tapping screws or other self-tapping devices shall not be used in the assembly of components.
- 3.4.2 <u>Threads</u>. Unless otherwise specified, threads shall be unified form (UN), class 2A or 2B as specified in FED-STD-H28 and FED-STD-H28/2. The nominal size and threads per inch shall be as specified in the applicable specification sheet.
- 3.4.3 <u>Gland nuts</u>. Gland nuts may be machined from wrought material or cast with an octagon-shaped head.
- 3.4.4 <u>Castings</u>. Cast components, such as split-type stuffing tube bodies or gland nuts, shall be free from cold shuts, blow holes, or any other imperfections that may in any way affect the strength or serviceability of the casting. Any fins or burrs on casting surfaces shall be removed.
- 3.4.5 <u>Forming and machining operations</u>. Forming and machining operations shall be completed before any specified plating or finish is applied.
 - 3.4.6 Sharp edges. Sharp edges and corners shall be given a slight radius.
- 3.4.7 <u>Surface finish of tube bodies and gland nuts</u>. Unless otherwise specified (see 3.1), machined tube bodies and gland nuts shall have a maximum surface roughness of 250 microinches. Surface finish shall be in accordance with ANSI B46.1. Cast surfaces need not be machined and shall have a surface texture commensurate with the type of casting.
 - 3.4.8 Pressureproof bulkhead stuffing tubes (submarines).
- 3.4.8.1 <u>Material control</u>. The contractor shall provide and maintain an objective quality evidence of chemical analysis and physical properties of material per heat from the mill, traceable from the part number on the final product (see 4.5 and 6.3).
 - 3.4.8.2 <u>Tube body</u>. For special applications requiring an extended tube body, the center section and the overall length dimension and material for submarine pressureproof bulkhead stuffing tubes shall be as specified (see 3.1 and 6.2).
 - 3.4.8.3 <u>Lock washer</u>. Lock washer edges shall have a radius of approximately 1/32 inch, applied by tumbling or other means.

- 3.4.9 <u>Ballast tank stuffing tubes</u>. Unless otherwise specified (see 6.2), ballast tank stuffing tubes shall be of the materials specified on the applicable specification sheet.
- 3.4.9.1 <u>Packing gland retainer screws</u>. Packing gland retainer (cap) screws shall be stainless steel in accordance with FF-S-86 and shall meet the torque requirements of MIL-F-18240.
- 3.4.10 <u>Enclosure stuffing tubes</u>. Unless otherwise specified (see 6.2), enclosure stuffing tubes shall be of the material specified on the applicable specification sheet.
- 3.4.11 <u>Deck and bulkhead stuffing tubes (surface ships)</u>. The material for the deck and bulkhead stuffing tubes shall be as specified on the applicable specification sheet.
- 3.4.11.1 Split tube body. A split-type tube body shall be cast as separate halves.
- 3.4.11.2 Gland nut. Cland nuts for split stuffing tube applications may be cast as two separate halves, or a whole gland nut may be halved by a 1/32 inch maximum saw cut for each half. Each half shall have its thread edges slightly chamfered to ensure proper mating with the stuffing tube assembly.
- 3.4.11.3 <u>Gland ring</u>. Gland rings shall be furnished split for split stuffing tubes. Whole gland rings may be halved by a 1/32 inch maximum saw cut for each half.
- 3.4.12 <u>Weather deck outlets</u>. Weather deck outlet components shall be nonmagnetic and of the materials specified on the applicable specification sheet.
- 3.4.12.1 Stuffing tube and stuffing tube cap assembly. The stuffing tube shall be coupled with the stuffing tube cap assembly by a 0.090 inch minimum, square, phosphor bronze wire. This coupling arrangement shall permit the stuffing tube cap assembly to rotate freely about the stuffing tube. The contractor may use another method of coupling the tube and cap, providing the strength of the joint is at least the equivalent of the present design.
- 3.4.12.2 <u>Cap assembly</u>. The cap assembly shall maintain integrity of the outlet when the electrical plug is removed. A chain, 9 inches in length, shall be securely attached to the cap by a method that will permit swivel movement of the cap.
- 3.4.12.3 <u>Nonmagnetic parts</u>. When tested as specified in 4.7.2, nonmagnetic metal parts shall indicate, prior to assembly, a permeability level less than 2.0.
- 3.4.13 <u>Packing assemblies</u>. A packing assembly shall consist of all the components specified on the applicable specification sheet. Unless otherwise specified (see 3.1), packing assemblies or prefabricated packing shall not be furnished as part of the stuffing tube assembly.

- 3.4.13.1 Molded parts. Flash shall be removed from molded parts and the width of the flash edges made thereby shall be not greater than 1/32 inch.
- 3.4.13.2 <u>Grommets</u>. Unless otherwise specified (see 6.2), grommets shall be molded of synthetic rubber (neoprene) and shall have the durometer hardness specified on the applicable specification sheet when tested as specified in 4.7.1.
- 3.4.13.3 <u>Grommet plates, split washers, and gland rings</u>. Edges of grommet plates, split washers, and gland rings shall have a radius of approximately 1/32 inch to prevent cable or grommet damage. This may be accomplished by tumbling at the option of the contractor.

3.5 Marking.

- 3.5.1 <u>Metal parts</u>. Metal parts shall have the information shown on the applicable specification sheet permanently marked in 1/8-inch high letters by stamping, engraving, or a similar process.
- 3.5.2 <u>Molded parts</u>. Molded parts shall have the information shown on the applicable specification sheet molded in 1/8-inch high letters. The contractor may elect to indelibly stamp nylon washers in lieu of molding. Molded assemblies and parts may be marked in accordance with the applicable superseded drawing where the tooling has been built with identification markings of the superseded drawing, except the marking of this specification shall be used when the tooling requires reworking or replacing. When marked in accordance with the superseded drawing, the assemblies and parts shall be indelibly stamped with the applicable part number of this specification.
- 3.6 Workmanship. Stuffing tubes shall be finished in a workmanlike manner and shall be free from cracks, chipped edges or surfaces, uneven surfaces, dents and heat marks. Threaded parts shall show no evidence of cross threading, mutilation, or detrimental or hazardous burrs. All welds and brazes shall be free of defects such as cracks, porosity, undercuts, voids, and gaps. There shall be no burn-through. Fillets shall be uniform and smooth. Angular or thickness misalignment, warpage, or dimensional change due to heat from the operation shall be within permitted tolerances. There shall be no damage to adjacent parts resulting from the welding or brazing. They shall be free from burrs and from unsightly finish caused by chipping, filing, or grinding without subsequent buffing or polishing. Packing assemblies shall be free of voids, pin holes, flash or other imperfections which may impair their serviceability.

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 (examinations and tests) 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 this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

- 4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of the manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.
- 4.2 <u>Classification of inspections</u>. The inspection requirements specified herein are classified as follows:
 - (a) First article inspection (see 4.3).
 - (b) Quality conformance inspection (see 4.4).
 - (c) Material control objective quality evidence (see 4.5).
- 4.3 <u>First article inspection</u>. First article inspection shall be performed on sample units which have been produced with equipment and procedures normally used in production. Acceptance shall be allowed for sizes of the individual parts that make up the stuffing tube assembly of the type tested and accepted (see 4.3.2).
- 4.3.1 <u>First article inspection report</u>. An inspection report shall be prepared (see 6.3).
- 4.3.2 <u>Sample size</u>. Two stuffing tubes of each type shall be subjected to first article inspection. One tube shall be one of the two smallest sizes and the other tube shall be one of the two largest sizes specified on the applicable specification sheet.
- 4.3.3 <u>Inspection routine</u>. The samples shall be subjected to the inspections specified in table I in the order shown.

TABLE I. First article inspection.

Inspection	Requirement	Test method
Visual and dimensional examination	3.1, 3.3, 3.4, 3.5, and 3.6	4.6.1
Durometer hardness 1/	3.4.13.2	4.7.1
Permeability 2/	3,4,12.3	4.7.2

- 1/ Required only for synthetic rubber (neoprene) grommets.
- 2/ Required only for weather deck outlets.

- 4.4 Quality conformance inspection.
- 4.4.1 <u>Inspection of product for delivery</u>. Inspection of product for delivery shall consist of groups A and B inspection.
- 4.4.1.1 <u>Inspection lot</u>. An inspection lot shall consist of a complete assembly or a part covered by a single specification sheet (see 3.1) that is produced under essentially the same conditions, and offered for inspection at one time.
- 4.4.2 <u>Group A inspection</u>. Group A inspection shall consist of the inspection specified in table II.

TABLE II. Group A inspection.

Inspection	Requirement	Test method
Visual and dimensional examination	3.1, 3.3, 3.4, 3.5, and 3.6	4.6.1

4.4.3 <u>Group B inspection</u>. Group B inspection shall consist of the inspections as specified in table III with samples selected from inspection lots that have passed group A inspection.

TABLE III. Group B inspection.

Inspection	Requirement	Test method
Durometer hardness <u>l</u> /	3.4.13.2	4.7.1
Permeability <u>2</u> /	3.4.12.3	4.7.2

- 1/ Required only for synthetic rubber (neoprene) grommets.
- 2/ Required only for weather deck outlets.
- 4.5 Material control objective quality evidence.
- 4.5.1 Each HY-80 and HT bulkhead pressureproof stuffing tube shall be accompanied by material control objective evidence that the material conforms to all the requirements of the applicable specification sheet. The following information shall be a part of the objective evidence:
 - (a) Military part number (for example M24235/1-000).
 - (b) Contract number.
 - (c) Contractor's identity.
 - (d) Material certification with a statement to the effect that objective evidence is on file in support of material identification and heat treatment, traceable from the lot (see 3.4.8.1).

- (e) Signature or symbol of contractor's inspection.
- (f) Signature or symbol of the Defense Contract Administration Services Management Area (DCASMA) representative.
- 4.5.1.1 The contractor shall pack one copy of the objective quality evidence with the item and retain a duplicate copy on file. The cognizant inspection service is authorized to withhold shipment until the required objective quality evidence is in accordance with this specification. Failure to provide acceptable objective quality evidence shall be cause for rejection of the material.
- 4.5.1.2 Material control objective quality evidence in support of product quality shall be maintained by the contractor until completion of the contract and then turned over to the designated Government representative.

4.6 Examination.

4.6.1 <u>Visual and dimensional examination</u>. Samples shall be visually examined to verify that the materials, design, construction, physical dimensions, marking and workmanship are as specified in the applicable requirements (see 3.1, 3.3, 3.4, 3.5 and 3.6).

4.7 Tests.

- 4.7.1 <u>Durometer hardness</u>. Sample grommets shall be subjected to the type A durometer test specified in ASTM D 2240 to verify compliance with the requirements of 3.4.13.2.
- 4.7.2 <u>Permembility</u>. Weather deck outlet metal parts shall be tested with a low-Mu permeability indicator conforming to MIL-I-17214 to verify compliance with the value specified in 3.4.12.3.
- 4.8 <u>Inspection of packaging</u>. Except when industrial packaging is specified, the sampling and inspection of the packaging shall be as specified in groups A and B quality conformance inspection requirements of MIL-P-116. The sampling and inspection of the packing and marking for shipment and storage shall be as specified in the quality assurance provisions of the applicable container specification as specified in section 5 and the marking requirements of MIL-STD-129.

5. PACKAGING

(The packaging requirements specified herein apply only for direct Government acquisition. For the extent of applicability of the packaging requirements of referenced documents listed in section 2, see 6.5.)

- 5.1 Packaging. Packaging shall be level A or C, as specified (see 6.2).
- 5.1.1 <u>Level A</u>. Each stuffing tube or part shall be packaged as specified in MIL-E-17555.

- 5.1.2 <u>Level C</u>. Stuffing tubes and parts shall be individually packaged in accordance with the contractor's commercial practice to assure carrier acceptance and adequate protection against physical damage during shipment from the supply source to the first receiving activity.
 - 5.2 Packing. Packing shall be level A or C as specified (see 6.2).
- 5.2.1 <u>Level A</u>. Stuffing tubes and parts, packaged in accordance with 5.1 and as specified (see 6.2) shall be packed in fiberboard boxes conforming to type CF, class weather resistant, variety SW, grade W5C or W6C, style RSC of PPP-B-636. Box enclosure and reinforcement shall be accomplished in accordance with the appendix of PPP-B-636.
- 5.2.2 <u>Level C</u>. Stuffing tubes and parts, packaged in accordance with 5.1 and as specified (see 6.2), shall be packed in accordance with the contractor's commercial practice to assure carrier acceptance and adequate protection against physical damage during shipment from the supply source to the first receiving activity. Minimum requirements shall be in compliance with Uniform Freight Classification Rules.
- 5.3 <u>Marking</u>. In addition to any special marking required (see 6.2) or as specified herein, interior and exterior shipping containers shall be marked in accordance with MIL-STD-129.
- 5.3.1 <u>Package containing neoprene parts</u>. Packages containing neoprene parts shall contain the cure date and precautionary markings as specified in MIL-R-6855.

6. NOTES

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

- 6.1 <u>Intended use</u>. Stuffing tubes are intended for use in making watertight electrical cable penetrations through hulls, decks, bulkheads and into electrical equipment.
- 6.2 <u>Acquisition requirements</u>. Acquisition documents must specify the following:
 - (a) Title, number, and date of this specification.
 - (b) Title, number, and date of the applicable specification sheet and the type, size and part number.
 - (c) Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1 and 2.2).
 - (d) When first article inspection is required (see 3.2).
 - (e) Selection of material (see 3.3, 3.4.9 and 3.4.10).

- (f) Dimensions for special applications requiring extended tube bodies and material for submarine pressureproof bulkhead stuffing tube (see 3.4.8.2 and the applicable specification sheet).
- (g) When grommets are not to be molded of synthetic rubber (see 3.4.13.2).
- (h) Level of packaging, packing and marking, if other than specified (see 5.1, 5.2, and 5.3).
- 6.3 Consideration of data requirements. The following data requirements should be considered when this specification is applied on a contract. The applicable Data Item Descriptions (DID's) should be reviewed in conjunction with the specific acquisition to ensure that only essential data are requested/provided and that the DID's are tailored to reflect the requirements of the specific acquisition. To ensure correct contractual application of the data requirements, a Contract Data Requirements List (DD Form 1423) must be prepared to obtain the data, except where DOD FAR Supplement 27.475-1 exempts the requirement for a DD Form 1423.

Ĵ.

Reference Paragraph	DID Number	DID Title	Suggested Tailoring
3.4.8.1 and 4.5	UDI-H-26373	Records objective quality evidence: for submarine safety/material certification.	
4.3.1	DI-T-4902	First article inspection report	••••

The above DID's were those cleared as of the date of this specification. The current issue of DOD 5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL), must be researched to ensure that only current, cleared DID's are cited on the DD Form 1423.

6.4 <u>First article</u>. When first article inspection is required, the contracting officer should provide specific guidance to offerors whether the item(s) should be a preproduction sample, a first article sample, a first production item, a sample selected from the first ____ production items, a standard production item from the contractor's current inventory (see 3.1), and the number of items to be tested as specified in 4.3. The contracting officer should also include specific instructions in acquisition documents regarding arrangements for examinations, approval of first article test results, and disposition of first articles. Invitations for bids should provide that the Government reserves the right to waive the requirement for samples for first article inspection to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract. Bidders should not submit alternate bids unless specifically requested to do so in the solicitation.

- 6.5 <u>Sub-contracted material and parts</u>. The packaging requirements of referenced documents listed in section 2 do not apply when material and parts are acquired by the contractor for incorporation into the equipment and lose their separate identity when the equipment is shipped.
 - 6.6 Subject term (key word) listing.

Dissimilar metals Gland nut Grommet Permeability

6.7 <u>Changes from previous issue</u>. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Preparing activity: Navy - SH (Project 5975-N626)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL (See Instructions – Reverse Side)		
1. DOCUMENT NUMBER	2. DOCUMENT TITLE STUFFING TUBES	, METAL, AND PACKING ASSEMBLIES FOR
MIL-S-24235B(SH)	ELECTRIC CABLES, GENERAL SPEC	IFICATION FOR
3a NAME OF SUBMITTING ORGAN		4. TYPE OF ORGANIZATION (Mark one)
		VENDOR
		USER
b. ADDRESS (Street, City, State, ZIP	Code)	1 <u> </u>
		MANUFACTURER
		OTHER (Specify):
	<u></u>	
5. PROBLEM AREAS		i i
a. Paragraph Number and Wording:		
		!
ł		
		j
		1
		Į.
		' l
b, Recommended Wording:		
	•	
i i		i
		i
g. Rasson/Rationals for Recomme	andasian.	
e. Remon/Rationals for Recomme	nospon.	
i		
ľ		t
1		į
1		I
S. REMARKS		· · · · · · · · · · · · · · · · · · ·
Ē		
Ī		Į
1		
<u> </u>		ł
1		1
i		
Ī		i
ſ		1
ł –		l l
7s. NAME OF SUBMITTER (Last, Fi	rrt, MI) - Optional	5. WORK TELEPHONE NUMBER (Include Area
		Code) — Optional
c. MAILING ADDRESS (Street, City,	State, ZIP Code) — Optional	8. DATE OF SUBMISSION (YYMMDD)
l .		