

MIL-H-24616(SH)

26 January 1983

## MILITARY SPECIFICATION

## HELMET, PHONETALKER MK 4 MOD 0

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 Scope. This specification covers the ballistic protective MK 4 MOD 0 phonetalker helmet.

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. Unless otherwise specified, the following specifications and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this specification to the extent specified herein.

## SPECIFICATIONS

## FEDERAL

- PPP-B-636 - Boxes, Shipping, Fiberboard.
- PPP-C-843 - Cushioning Material, Cellulosic.

## MILITARY

- MIL-P-116 - Preservation, Methods of.
- MIL-P-46166 - Plastic Laminates, Glass Reinforced (For Use in Armor Composites).

## STANDARDS

## FEDERAL

- FED-STD-406 - Plastics: Methods of Testing.

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 5523, Department of the Navy, Washington, DC 20362 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

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

2.1.2 Other Government documents and drawings. The following other Government documents and drawings form a part of this specification to the extent specified herein.

LAW ENFORCEMENT ASSISTANCE ADMINISTRATION

NIJ-STD-0106.01 - Standard for Ballistic Helmets.

(Application for copies should be addressed to Law Enforcement Standards Laboratory, National Bureau of Standards, Washington, DC 20234.)

DRAWINGS

NAVAL SEA SYSTEMS COMMAND (NAVSEA)

5590220 - Helmet, Phonotalker, MK 4 MOD 0.

5590225 - Kit, Pad Suspension.

5590227 - Shell, Helmet.

5590230 - Plate, Identification.

5590232 - Edge, Trim.

5590233 - Earphone Buffer Pad.

5590235 - Chinstrap Assembly.

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific acquisition functions should be obtained from the contracting 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. The issues of the documents which are indicated as DoD adopted shall be the issue listed in the current DoDISS and the supplement thereto, if applicable.

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC. AGENT

National Motor Freight Classification

(Application for copies should be addressed to the National Motor Freight Traffic Association, Inc., ATA TRAFFIC Dept., 1616 "P" Street, N.W., Washington, DC 20036.)

UNIFORM CLASSIFICATION COMMITTEE AGENT

Uniform Freight Classification Ratings, Rules and Regulations

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

(Industry association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

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

### 3. REQUIREMENTS

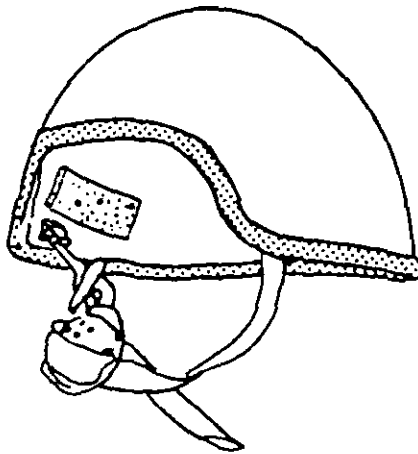
3.1 First article. When specified (see 6.2.1), a sample shall be subjected to first article inspection (see 4.3 and 6.4).

3.2 Materials. Materials used in the construction of the helmet shall be as specified herein and in the applicable specifications and drawings.

3.2.1 Helmet shell. The helmet shell shall be of nonmetallic reinforced plastic. Specific resin and fiber materials are not specified herein. Performance requirements of 3.4 shall govern material selection. MIL-P-46166 may be used for guidance in material selection.

3.3 Construction. The construction of the MK 4 MOD 0 phonetalker helmet shall be as specified herein and in applicable drawings.

3.3.1 Helmet, phonetalker MK 4 MOD 0. The MK 4 MOD 0 phonetalker helmet shall be constructed in accordance with Drawing 5590220 (see figure 1).



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FIGURE 1. Helmet phonetalker MK 4 MOD 0.

3.3.2 Edge trim. The edge trim shall be constructed in accordance with Drawing 5590232.

3.3.3 Pad, earphone buffer. The earphone buffer pads shall be constructed in accordance with Drawing 5590233.

3.3.4 Chinstrap assembly. The chinstrap assembly shall be constructed in accordance with Drawing 5590235.

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3.3.5 Plate, identification. The identification plate shall be constructed in accordance with Drawing 5590230.

3.3.6 Shell, helmet. The helmet shell shall be constructed in accordance with Drawing 5590227.

3.3.7 Kit, suspension pad. The suspension pad kit containing 20 suspension pads shall be constructed in accordance with Drawing 5590225.

### 3.4 Performance.

3.4.1 Ballistic penetration. The helmet with suspension pads installed as specified in Drawing 5590220 (hereinafter called assembled helmet) shall withstand impact by a caliber 0.357 projectile without penetration when tested in accordance with 4.5.1.

3.4.2 Impact resistance. The assembled helmet shall withstand an impact energy of 40 foot-pounds when tested as specified in 4.5.2. There shall be no fracture or delamination of the helmet. The exterior finish shall show no flaking, peeling, loss of adhesion, or other failure of the finish except in the immediate area of the impact.

3.4.3 Water immersion. When tested as specified in 4.5.3, the helmet shell (shell only) shall not increase in weight more than 5 percent over dry weight. The helmet shell shall show no visible evidence of softening, peeling, or blistering as a result of the water immersion test.

3.4.4 Flammability. When tested as specified in 4.5.4, the helmet shall be self-extinguishing.

3.4.5 Tensile strength of chinstrap assembly. When tested as specified in 4.5.5, the helmet shall withstand a static load of  $100 \pm 2$  pounds on the chinstrap.

3.4.6 Adhesion of finish. When tested as specified in 4.5.6, any lifting of any of the finish squares shall be cause for rejection.

3.5 Weight. The weight of the helmet shell prior to application of protective coating, shall not exceed 56 ounces.

3.6 Marking. The helmet shall be marked for identification in accordance with Drawing 5590230.

## 4. QUALITY ASSURANCE PROVISIONS

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

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4.1.1 Certificates of compliance. When certificates of compliance are submitted, the Government reserves the right to check-test such items to determine the validity of the certification.

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

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

4.3 First article inspection. When required, the sample submitted in accordance with 3.1.2 shall be inspected for the provisions specified in 4.3.1 and 4.4.1 through 4.5.6. The contractor shall prepare a first article test report (see 6.2.2).

4.3.1 Dimensional examination of initial production of helmet shells. One shell produced from the mold the contractor intends to use in production shall be examined for all dimensional requirements. This examination shall be conducted on shells produced from the molds used prior to regular production of the shell. Any shell with a dimension not conforming to the specified requirement shall be rejected, and the applicable mold shall be reworked accordingly. If any mold is required to be reworked, a new shell shall be produced from that mold and the examination of the shell shall be repeated. If conformance of each mold with the specified dimensional requirements is established, the above examination shall be omitted for the duration of the contract, provided that the molds or molding process is not changed in any way. If any mold is changed or if the molding process is changed, the above examination shall be repeated on a shell produced incorporating the change(s), prior to its use in regular production.

4.4 Quality conformance inspection. Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated herein.

4.4.1 Inspection of components. Components and materials shall be inspected in accordance with all requirements of this specification. The acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5. The inspection level shall be level II as specified in MIL-STD-105.

4.4.1.1 Certification. The contractor shall prepare a certificate of compliance with each shipment or lot certifying that the manufacturing process, materials, molds, or dies have not been changed from that used in the initial production lot, or if changed, that first article inspection has been accomplished in accordance with 4.3 (see 6.2.2).

4.4.2 Examination of helmet shell prior to application of protective coating. Prior to application of the protective coating as specified in Drawing 5590220, the helmet shell shall be examined for visual and dimensional defects. The defects shall be classified in accordance with table I. The lot size shall be expressed in units of helmet shells. The sample unit shall be one helmet shell. The inspection level shall be level I as specified in MIL-STD-105, and

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the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5 for major defects and 10.0 for total defects. Unless otherwise specified, defects are to be scored on an individual basis; that is, each dimension, wrinkle, pit, blister, and so forth.

TABLE I. Classification of visual defects of helmet shell prior to application of protective coating.

Examine	Defect	Classification	
		Major	Minor
Helmet shell (exterior and interior)	Any fabric fibers visibly cut or raised on the shell body	X	
	Any surface dent, depression, or area not smooth which seriously affects appearance or serviceability	X	
	Edge not smooth and even; that is, sharp, uneven, jagged, or ends of fibers exposed	X	
	Any surface dent, depression, or area not smooth which does not seriously affect appearance or serviceability		X
	Any delamination, pimple, or blister	X	
	Any evidence of cracking or crazing	X	
	Any evidence of dry spot, any area of nonresin flow or other molding deficiency	X	
	Any pleat, wrinkle, or crease longer than 1/2 inch but less than 1 inch		X
	Any pleat, wrinkle, or crease 1/2 inch or less in length that is not smooth		X
	Any pleat, wrinkle, or crease 1 inch or longer	X	
	Any repair or reworking	X	

4.4.3 Visual examination of the end item. The completed helmet assembly shall be examined for visual defects, and the defects shall be classified in accordance with table II. The sample unit shall be one helmet complete with all components. The lot size shall be expressed in units of complete helmets. The inspection shall be level II as specified in MIL-STD-105, and the AQL, expressed in terms of defects per hundred, shall be 2.5 major defects and 15.0 for total defects.

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TABLE II. Classification of visual defects.

Examine	Defect	Classification	
		Major	Minor
Finish on exterior, interior, and edge of helmet	Any scuffed area (fibers not cut or raised) or scratch		X
	Any scuffed area causing fibers to be cut or raised	X	
	Thin film (shell showing through)		X
	Finish wet or tacky to the touch	X	
	Aggregate omitted <sup>1/</sup>	X	
	Aggregate not uniformly distributed <sup>1/2/</sup>		X
	Aggregate overrun extending beyond edge onto interior surface of helmet		X
	Coating furrows, flakes, or peels (when assembly is scratched with fingernail)		X
	Blemish, such as peeling, blistering, or flaking	X	
	Not a smooth, uniform coating; that is, run or sag affecting an area more than 1 square inch <sup>2/</sup>		X
	Foreign matter imbedded in or appearing on the finish, such as dirt, stain, oil, or grease		X
	Color of finish not as specified		X
	Any repair or rework	X	
Hardware (general)	Any sharp edge or burr		X
	Any hardware component not finished as specified		X
	Hardware not properly secured		X
	Any component not as specified	X	

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TABLE II. Classification of visual defects. - Continued

Examine	Defect	Classification	
		Major	Minor
Kit, suspension pad	Omitted, quantity not as specified	X	
	Damaged or soiled pads	X	
	Colors not as specified for pads	X	
Chinstrap assembly	Any component incorrectly installed on helmet or incorrectly assembled	X	
Identifica- tion plate	Omitted, incorrect, illegible, or not as specified		X

1/ Applicable to exterior of helmet only.

2/ The helmet shall be examined from a distance of approximately 3 feet.

4.4.4 Weight examination of the helmet shell. The helmet shell prior to application of protective coating shall be examined for compliance with the weight requirement in 3.5. Any helmet shell exceeding the weight requirement shall be classified as a defect. The inspection level shall be level S-3 as specified in MIL-STD-105, and the AQL shall be 6.5, expressed in terms of defects per hundred units.

4.4.5 Packing inspection. An examination shall be made to determine that preservation-packaging, packing, and marking comply with the requirements of section 5. Defects shall be as specified in table III. The sample unit shall be one shipping container fully prepared for delivery (except that it need not be closed). The lot shall be the number of containers offered for inspection at one time. The inspection level shall be level S-1 as specified in MIL-STD-105; the AQL shall be 2.5 defects, expressed in terms of defects per hundred units.

TABLE III. Packaging inspection.

Examine	Defect
Markings, exterior and interior	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application
Materials	Component missing, damaged, or not as specified
Workmanship	Helmets not wrapped as specified Bulged or distorted container
Content	Number of helmets per container is more or less than specified

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4.4.5.1 Inspection of shipping containers. When shipping containers are required to be in accordance with PPP-B-636, examination for defects in closure, waterproofing, and strapping shall be in accordance with the quality assurance provisions found in that specification.

4.5 Testing. Testing shall be accomplished in accordance with 4.5.1 through 4.5.6. The lot size shall be expressed in units of helmets. For all testing (except ballistic resistance), the inspection level shall be level S-2 as specified in MIL-STD-105, and the AQL, expressed in terms of defects for hundred units, shall be 2.5. For ballistic penetration the inspection level shall be level S-1 as specified in MIL-STD-105, and the AQL shall be 2.5, expressed in defects per hundred units.

4.5.1 Ballistic penetration. The ballistic penetration evaluation shall be conducted in accordance with type II test of NIJ-STD-0106.01 using type .357 magnum projectiles (dry test only).

4.5.2 Impact resistance. The following material is required:

- (a) Standard headform for the helmet.
- (b) An  $8.0 \pm 0.3$  pound iron ball  $4.0 \pm 0.5$  inches in diameter.
- (c) A fixed ball release apparatus designed for smooth, accurate release of the iron ball. An electromagnetic system is recommended.

The assembled helmet shall be mounted on the applicable size headform in a position similar to that in which it would be worn on the user's head. The pads shall be positioned as referenced on Drawing 5590220. The 8-pound ball shall be dropped vertically from a height of  $5 \pm .2$  feet (measured from the bottom of the ball to the helmet) to impact the center of the helmet crown. The helmet shall be examined for conformance with the requirements specified in 3.4.2.

4.5.3 Water immersion test. The dry weight of the helmet shell shall be determined prior to testing (plus or minus 0.5 ounce). The helmet shell shall then be immersed in seawater (seawater solution shall contain 3 percent sodium chloride and 0.5 percent magnesium chloride) at  $70 \pm 10^\circ\text{F}$  for a minimum of 16 hours. The helmet shall then be removed, air dried for  $12 \pm 1$  hours in a  $50 \pm 10$  percent relative humidity atmosphere at the same temperature, and weighed again. The exterior coating shall be examined for evidence of softening, blistering, or peeling.

4.5.4 Flammability. Specimens for this test may be cut from any portion of the shell. The test shall be conducted in accordance with method 2021 of FED-STD-406.

4.5.5 Tensile strength of chinstrap assembly. The chinstrap assembled onto the helmet, shall be tested by suspending the test unit by the center of the chinstrap assembly and applying a static load of  $100 \pm 2$  pounds to the interior of the helmet shell. This load shall be maintained for a minimum of 1 minute. If any portion of the chinstrap assembly tears, or separates from itself or the helmet shell, the test unit shall fail the test.

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4.5.6 Adhesion of finish. To test adhesion of finish, three parallel, straight lines shall be made 1/16 to 1/8 inch apart in any direction with a scribe held at  $30 \pm 5$  degrees to the surface tangent. These lines shall be crossed with three additional perpendicular lines 1/16 to 1/8 inch apart. This procedure produces squares which shall be inspected visually for the requirements of 3.4.6. A slight unevenness of the edges of any square shall not be considered cause for rejection.

## 5. PACKAGING

5.1 Preservation-packaging. Preservation-packaging shall be level A or C as specified (see 6.2.1).

5.1.1 Level A, helmet. Each helmet with suspension pad kits and instruction booklet placed inside (see 6.3) the shell shall be completely wrapped in 1/4-inch thick cellulosic cushioning material conforming to type II, class B of PPP-C-843. The cushioning pad shall measure 28 inches in length by 24 inches in width. To wrap the helmet assembly, the crown of the helmet shall be placed in the center of the pad with the visor (front edge) facing the smaller dimension of the pad. Each corner of the cushioning pad shall then be folded to the inside of the helmet.

5.1.2 Level A, replacement components. Replacement components are the chinstrap assembly, suspension pad kit, earphone buffer pad, edge trim and tie holder plate. Replacement components except suspension pad kit shall be packaged in accordance with MIL-P-116 method 1A-16. Suspension pad kits shall be packaged in accordance with Drawing 5590225. Replacement components shall be packaged one part or assembly per unit package. When unit packaged as a set, or in quantities greater than one, each item shall be wrapped or cushioned to prevent direct surface contact with the surface of adjacent parts.

5.1.3 Level C. Helmets or components shall be preserved-packaged to provide adequate protection from physical damage during shipment from the supply source to the first receiving activity. The package and quantity per package shall be the same as that normally used by the contractor for retail distribution.

5.2 Packing. Packing shall be level A, B, or C as specified (see 6.2.1).

5.2.1 Level A, helmets. Ten helmets preserved-packaged as specified in 5.1 shall be packed in a fiberboard shipping container conforming to style RSC-L, grade V2s of PPP-B-636. The inside of each shipping container shall be fitted with a box liner conforming to type CF, class weather-resistant, variety DW, grade V15c of PPP-B-636. Helmet assemblies shall be packed five in length, two in width, and one in depth within the shipping container. During the packing operation, the wrapped helmets shall be nested with the back of the helmet resting on the bottom of the shipping container. Inside dimensions of each container shall approximate 22 inches in length, 20-1/2 inches in width, and 11-1/2 inches in depth. Approximate dimensions are furnished as a guide only. Each shipping container shall be closed in accordance with method III, waterproofed in accordance with method V, and reinforced as specified in the appendix of the container specification.

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**5.2.2 Level A, replacement components.** Replacement components shall be packed in overseas-type shipping containers conforming to PPP-B-636. Chinstrap assemblies shall be packed 50 to a container. Dimensions shall approximate 12 inches in length, 12 inches in width and 6 inches in depth. Suspension pad kits shall be packed 100 to a container. Inside container dimensions shall approximate 27 inches in length, 22 inches in width and 25 inches in depth. Earphone buffer pads shall be packed 100 to a container. Inside container dimensions shall approximate 11 inches in length, 9 inches in width and 3 inches in depth. Edge trims shall be packed 50 to a container. Inside container dimensions shall approximate 16 inches in length, 16 inches in width and 10 inches in depth. Tie holder plates shall be packed 100 to a container. Inside container dimension shall approximate 8 inches in length, 8 inches in width and 4 inches in depth. Approximate dimensions are furnished for guidance only. Each shipping container shall be closed in accordance with method III, water-proofed in accordance with method V, and reinforced as specified in the appendix of the container specification.

**5.2.3 Level B, helmets.** Ten helmets preserved-packaged as specified in 5.1 shall be packed in a fiberboard shipping container conforming to style RSC-L, type CF (variety SW) or SF, class domestic, grade 275 of PPP-B-636. The inside of each container shall be fitted with a box liner conforming to type CF, class domestic, variety DW, grade 275 of PPP-B-636. Helmets shall be packed five in length, two in width and one in depth within a shipping container. During the packing operation, the wrapped helmets shall be nested with the back of the helmet resting on the bottom of the shipping container. Inside dimensions of each container shall approximate 22 inches in length, 20-1/2 inches in width, and 11-1/2 inches in depth. Approximate dimensions are furnished as a guide only. Each shipping container shall be closed in accordance with method II as specified in the appendix of PPP-B-636.

**5.2.3.1 Weather-resistant fiberboard containers.** When specified (see 6.2.1), the shipping container shall be a grade-V3c, -V3s, or -V4s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with method III as specified in the appendix of that specification.

**5.2.4 Level B, replacement components.** Replacement components, preserved-packaged as specified in 5.1, shall be packed in containers in accordance with PPP-B-636, Class Weather Resistant. Chinstrap assemblies shall be packed 50 to a container. Dimensions shall approximate 12 inches in length, 12 inches in width and 6 inches in depth. Suspension pad kits shall be packed 100 to a container. Inside container dimensions shall approximate 27 inches in length, 22 inches in width and 25 inches in depth. Earphone buffer pads shall be packed 100 to a container. Inside container dimensions shall approximate 11 inches in length, 9 inches in width and 3 inches in depth. Edge trims shall be packed 50 to a container. Inside container dimensions shall approximate 16 inches in length, 16 inches in width and 10 inches in depth. Tie holder plates shall be packed 100 to a container. Inside container dimension shall approximate 8 inches in length, 8 inches in width and 4 inches in depth. Approximate dimensions are furnished for guidance only. Containers shall be closed in accordance with method II as specified in the appendix of PPP-B-636.

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5.2.5 Level C. Helmets, or components preserved-packaged as specified in 5.1 shall be packed in a manner to insure carrier acceptance and safe delivery to destination at the lowest transportation rate. The quantity per shipping container shall be the same as that normally used by the contractor for retail distribution. Containers shall comply with Uniform Freight Classification or National Motor Freight Classification Rules, as applicable.

5.3 Marking. In addition to any special marking required by the contract (see 6.2.1), shipping containers shall be marked in accordance with MIL-STD-129.

## 6. NOTES

6.1 Intended use. The helmet is used in conjunction with the Ship Service Sound-Powered Telephone System Headset-Chestset, type SA or its approved equivalent and is intended to protect the head from fragmentation and from impact. Replaceable foam pads provide for size adjustment.

6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) When a first article sample is required (see 3.1).
- (c) Selection of applicable levels of preservation-packaging and packing (see 5.1 and 5.2).
- (d) Whether weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.3.1).
- (e) Any special marking requirements (see 5.3).

6.2.2 Data requirements. When this specification is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL), the data requirements identified below shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved CDRL incorporated into the contract. When the provisions of DAR 7-104.9 (n)(2) are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this specification is cited in the following paragraphs.

<u>Paragraph no.</u>	<u>Data requirement title</u>	<u>Applicable DID no.</u>	<u>Option</u>
4.3	First article inspection report	DI-T-4902	----
4.4.1.1	Certificate of compliance	DI-E-2121	----

(Data item descriptions related to this specification, and identified in section 6 will be approved and listed as such in DoD 5000.19L., Vol. II, AMSDL. Copies of data item descriptions required by the contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center or as directed by the contracting officer.)

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6.2.2.1 The data requirements of 6.2.2 and any task in section 3, 4, or 5 of the specification required to be performed to meet a data requirement may be waived by the contracting/acquisition activity upon certification by the offeror that identical data were submitted by the offeror and accepted by the Government under a previous contract for identical item acquired to this specification. This does not apply to specific data which may be required for each contract, regardless of whether an identical item has been supplied previously (for example, test reports).

6.3 Standard samples. Standard samples of the MK 4 MOD 0 phonetalker helmet or components, when furnished, are solely for providing guidance and information to the contractor. Variation from the specification may appear in the samples, in which case the specification shall govern.

6.4 First article inspection. Invitations for bids should provide that the Government reserves the right to waive the requirement for samples for first article inspection as to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who which to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract.

Preparing activity:  
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DOCUMENT IDENTIFIER (Number) AND TITLE

MIL-H-24616(SH)

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