

MIL-H-85047A(AS)  
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 SUPERSEDING  
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MILITARY SPECIFICATION

HELMET ASSEMBLY, HGU-34/P

This specification is approved for use by the Naval Air 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 requirements for the HGU-34/P Helmet Assembly components.

PRK - 37/P	Helmet Shell Assemblage
EEK - 4/P	Helmet Visor Assemblage
PRK - 40/P	Helmet Liner Assemblage

1.2 Classification. The helmet component assemblages shall be furnished in two sizes, medium and large.

2. APPLICABLE DOCUMENTS

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

SPECIFICATIONS

FEDERAL

NN-P-530	-Plywood, Flat Panel
UU-P-268	-Paper, Kraft, Untreated, Wrapping
PPP-B-576	-Box, Wood, Cleated, Veneer, Paper Overlaid
PPP-B-591	-Box, Fiberboard, Wood Cleated

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Engineering Specifications and Standards Department (Code 93), Naval Air Engineering Center, Lakehurst, NJ 08733, 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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## SPECIFICATIONS

## FEDERAL (Continued)

PPP-B-601 -Box, Wood, Cleated, Plywood  
 PPP-B-621 -Box, Wood, Nailed and Lock Corner  
 PPP-B-636 -Box, Shipping, Fiberboard  
 PPP-C-795 -Cushioning Material, Flexible Cellular, Plastic  
 Film for Packaging Application  
 PPP-T-60 -Tape, Packaging, Waterproof

## MILITARY

MIL-L-10547 -Liners, Case and Sheet, Overwrap, Water Vaporproof  
 or Waterproof, Flexible  
 \* MIL-V-85374 -Visors, Shatter Resistant

## STANDARDS

## MILITARY

MIL-STD-105 -Sampling Procedures and Tables for Inspection by  
 Attributes  
 MIL-STD-129 -Marking for Shipment and Storage  
 MIL-STD-130 -Identification Marking of U.S. Military Property

## DRAWINGS

## NAVAL AIR SYSTEMS COMMAND

954AS200 -Parts Index, Medium HGU-34/P  
 954AS201 -Parts Index, Large HGU-34/P  
 954AS202 -HGU-34/P Helmet Assembly  
 954AS300 -PRK-37/P Helmet Shell Assemblage

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## DRAWINGS

## NAVAL AIR SYSTEMS COMMAND (Continued)

954AS400 -EEK-4/P Helmet Visor Assemblage  
 954AS500 -PRK-40/P Helmet Liner Assemblage

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following document forms a part this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

## AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

Z24.22-1957 -Measurement of the Real-Ear Attenuation of Ear Protectors at Threshold, Method for

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

## 3. REQUIREMENTS

3.1 Qualification. The helmet component assemblages furnished under this specification shall be products which are qualified for listing on the applicable qualified products list at the time set for opening of bids (see 4.3, 4.3.1, and 6.3). In addition, the retention of the qualification for the helmet component assemblages on the applicable qualified products list shall be dependent on periodic verification of continued compliance with the requirements of this specification (see 4.3 and 4.3.2).

3.2 First article. When specified (see 6.2), the contractor shall furnish sample unit(s) for first article inspection and approval (see 4.4).

3.3 Materials. Materials used in the construction of the helmet component assemblages shall conform to the applicable specification and shall be as specified herein and on the applicable drawings.

3.4 Construction. The helmet assemblages shall be constructed in accordance with the following drawings:

- a. Helmet Shell Assemblage (PRK-37/P) -954AS300
- b. Helmet Liner Assemblage (PRK-40/P) -954AS500
- c. Helmet Visor Assemblage (EEK-4/P) -954AS400

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\* 3.4.1 Molding. Molded components shall be molded in such a manner as to produce no distortion or warpage. Molding materials shall be such as to produce maximum strength and maximum weight.

\* 3.4.2 Lenses. The lenses shall be in accordance with MIL-V-85374.

### 3.5 Performance.

#### 3.5.1 PRK-37/P Helmet Shell Assemblage.

3.5.1.1 Penetration resistance. The helmet shell assemblage, when tested as specified in 4.6.3.1, shall not exhibit electrical contact between the test striker and the conducting surface of the headform.

3.5.1.2 Sound attenuation. The helmet shell assemblage, when tested as specified in 4.6.3.2, shall provide the sound attenuation specified in Table I.

TABLE I. Mean sound attenuation value minus one standard deviation, in DB. 1/

	Frequency (Hertz)								
	<u>125</u>	<u>250</u>	<u>500</u>	<u>1,000</u>	<u>2,000</u>	<u>3,000</u>	<u>4,000</u>	<u>6,000</u>	<u>8,000</u>
Minimum * acceptable	7	8	20	30	35	40	40	40	40

1/ Values represent the amount of hearing protection expected for 84 percent (mean minus one standard deviation) of the users.

\* 3.5.1.3 Adhesion of finish. The finish of the helmet shell, when tested as specified in 4.6.3.3, shall not show any evidence of lifting of any of the squares.

\* 3.5.1.4 Weight (shell). The helmet shell assemblage, when tested as specified in 4.6.3.4, shall not exceed 1.70 pounds for the medium size and 1.75 lbs. for the large size.

#### 3.5.2 PRK-40/P Helmet Liner Assemblage.

3.5.2.1 Impact energy attenuation. The helmet liner, when tested as specified in 4.6.4.1, shall meet the following requirements.

3.5.2.1.1 400 g requirement. The acceleration of the test headform shall not exceed 400 g's.

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3.5.2.1.2 200 g requirement. Accelerations of the test headform in excess of 200 g's shall not exceed a time duration of 2 milliseconds (ms) above the 200 g level.

3.5.2.1.3 150 g requirement. Accelerations of the test headform in excess of 150 g's shall not exceed a time duration of 4 ms above the 150 g level.

3.5.2.2 Weight (liner). The helmet liner assemblage, when tested as specified in 4.6.4.2, shall not exceed 0.60 pound for medium size and .65 pound for large size.

### 3.5.3 EEK-4/P Helmet Visor Assemblage.

3.5.3.1 Windblast resistance. The helmet visor assemblage, when tested as specified in 4.6.5.1, shall not rise, loosen or show evidence of material failure.

3.5.3.2 Weight (visor). The helmet visor assemblage, when tested as specified in 4.6.5.2, shall not exceed .70 pounds for the medium size and .80 pounds for the large size.

3.6 Identification of product. Each helmet component assemblage shall be identified in accordance with MIL-STD-130 and shall have a permanent type label applied in accordance with the applicable drawing.

3.7 Workmanship. Workmanship shall be in accordance with the high grade practices for the process involved. The helmet component assemblages shall be cleaned and finished and shall completely meet the quality conformance levels specified in Section 4 (see 4.5).

## 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, 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.

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

- a. Qualification inspection. Qualification inspection consists of tests and examinations performed on samples submitted for approval as qualified products. (See 4.3.)

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- b. First article inspection. First article inspection consists of tests and examinations performed on samples which are representative of the production item after award of contract to determine that the production item conforms to the requirements of this specification. (See 4.4.)
- c. Quality conformance inspection. Quality conformance inspection consists of tests and examinations performed on individual products or lots with the requirements set forth in this specification. (See 4.5.)

4.3 Qualification inspection. Qualification inspection shall consist of the examinations and tests specified in Table II.

TABLE II. Qualification inspection.

Inspection	Requirement paragraph	Test method paragraph
Visual and dimensional examination		4.6.1
Penetration resistance	3.5.1.1	4.6.3.1
Sound attenuation	3.5.1.2	4.6.3.2
Adhesion of finish	3.5.1.3	4.6.3.3
Weight (shell)	3.5.1.4	4.6.3.4
Impact energy attenuation	3.5.2.1	4.6.4.1
Weight (liner)	3.5.2.2	4.6.4.2
Windblast resistance	3.5.3.1	4.6.5.1
Weight (visor)	3.5.3.2	4.6.5.2

\* 4.3.1. Qualification inspection samples. The qualification inspection samples shall consist of:

- |    |       |             |          |                          |
|----|-------|-------------|----------|--------------------------|
| a. | 4 Ea. | Medium Size | PRK-37/P | Helmet Shell Assemblages |
| b. | 4 Ea. | Large Size  | PRK-37/P | Helmet Shell Assemblages |
| c. | 4 Ea. | Medium Size | PRK-40/P | Helmet Liner Assemblages |
| d. | 4 Ea. | Large Size  | PRK-40/P | Helmet Liner Assemblages |
| e. | 4 Ea. | Medium Size | EEK-4/P  | Helmet Visor Assemblages |
| f. | 4 Ea. | Large Size  | EEK-4/P  | Helmet Visor Assemblages |

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- |          |                  |                  |
|----------|------------------|------------------|
| g. 9 Ea. | 30003/954AS51Q-1 | Fitting Pad Sets |
| h. 9 Ea. | 30003/765AS232-1 | Earseal Sets     |

The qualification samples shall be forwarded as specified in 6.3. The samples shall be plainly identified by securely attached tags marked with the following information:

Sample submitted by (name) (date) for qualification inspection in accordance with the requirements of this specification under authorization (reference authorizing letter and number) (see 6.3).

**4.3.2 Retention.** The retention of qualification shall consist of verification to determine compliance of the qualified helmet component assemblage with the requirements of this specification.

Every two years each manufacturer shall be requested to forward to NADC certification signed by a responsible official of management, attesting that the listed product(s) is still available from the listed plant, can be produced under the same conditions as originally qualified; i.e., same process, materials, construction, design, manufacturer's part number, or designation; and meets the requirements of the current issue of the specification. Failure to provide the certification will be cause for removal from the QPL. After completion of the certification review, the QPL shall be reprinted to show the date of validation.

**4.4 First article inspection.** First article inspection shall consist of the following examinations and tests:

- a. Visual and dimensional examination
- b. Weight

**4.4.1 First article samples.** Unless otherwise specified, as soon as practicable after award of the contract or order, the manufacturer shall submit first article samples, of the applicable helmet assemblage(s) in the following sizes and quantities:

- |          |             |          |                          |
|----------|-------------|----------|--------------------------|
| a. 2 Ea. | Medium Size | PRK-37/P | Helmet Shell Assemblages |
| b. 2 Ea. | Large Size  | PRK-37/P | Helmet Shell Assemblages |
| c. 2 Ea. | Medium Size | PRK-40/P | Helmet Liner Assemblages |
| d. 2 Ea. | Large Size  | PRK-40/P | Helmet Liner Assemblages |
| e. 2 Ea. | Medium Size | EEK-4/P  | Helmet Visor Assemblages |
| f. 2 Ea. | Large Size  | EEK-4/P  | Helmet Visor Assemblages |

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The samples shall be representative of the construction, workmanship, components and materials to be used during production. When a manufacturer is in continuous production of the helmet component assemblages from contract to contract, submission of further first article inspection samples on the new contract may be waived at the discretion of the procuring activity (see 6.2). Approval of the first article inspection sample or waiving of the first article inspection does not preclude the requirements for performing the quality conformance inspection. The first article inspection samples shall be furnished the Government as directed by the contracting officer (see 6.2.1).

4.4.1.1 Upon the completion of the first article inspection, all the applicable inspection reports, and when applicable, recommendations and comments pertinent for use in monitoring production shall be recorded (DID No. DI-T-5329). One helmet component assemblage of each size, shall be returned to the manufacturer for use in monitoring production. The other assemblage(s) will be consumed or destroyed in the first article inspection and shall not be considered as part of the quantity to be delivered under contract. (See 6.2.2.)

4.5 Quality conformance inspection. The sampling and inspection levels shall conform to MIL-STD-105. Quality conformance inspection shall consist of the following:

- a. Visual and dimensional examination
- b. Packaging

4.5.1 Sampling.

4.5.1.1 Inspection lot. An inspection lot shall be expressed in units of helmet component assemblages made under essentially the same conditions and from the same materials. The sample unit shall be one helmet component assemblage.

4.5.1.1.1 Packaging. An inspection lot shall be expressed in units of one fully prepared shipping container, containing a helmet component assemblage fully prepared for delivery, made from essentially the same materials and components. The sample unit shall be one shipping container, containing a helmet component assemblage, fully prepared for delivery with the exception that it need not be sealed.

4.5.1.2 Sampling for tests and examination of helmet component assemblages. The sample size, acceptance criteria, tests and examinations required for the helmet component assemblage shall be as specified in Table III.



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TABLE III. Quality conformance inspections.

Inspection	Test method paragraph	Sample size	Acceptance criteria
Visual and dimensional examination	4.6.1	Every unit for critical defects. Inspection Level II for minor defects.	Reject all units with any critical defects and an Acceptable Quality Level of 15.0 defects per 100 units for minor defects.
Packaging	4.6.2	Inspection Level S-2	An acceptable Quality Level of 2.5 defects per 100 units.

4.6 Inspection methods.

4.6.1 Visual and dimensional examination. Every helmet component assemblage shall be examined visually and dimensionally to determine conformance to this specification and the applicable drawings. The classification of defects in Table IV shall be used to classify the defects found.

TABLE IV. Classification of defects for visual and dimensional examination of the helmet shell assemblage.

Defect	Major	Minor
a. Any component missing, malformed, fractured or otherwise damaged	X	
b. Any component not as specified	X	
c. Any functioning part that works with difficulty	X	
d. Any component loose or otherwise not retained	X	
e. Any molded component warped, distorted or cracked	X	
f. Improper positioning of holes	X	
g. Label or identification tag missing	X	

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**TABLE IV. Classification of defects for visual and dimensional examination of the helmet shell assemblage (Continued).**

Defect	Major	Minor
h. Helmet shell trim, drill and contour dimensions not in accordance with applicable drawings specified on drawing 954AS200 or 954AS201	X	
i. All visible dimensions, other than the helmet shell trim, drill and contour dimensions, not as specified		X
j. Surface unclean, rough, nicked or other flaws		X
k. Color not as specified		X
l. Surface cracks in finish of helmet shell or visor		X
m. Material imperfections not affecting serviceability		X

**4.6.2 Packaging inspection.** Each of the fully prepared shipping containers, containing helmet component assemblages, selected as a sample unit from the lot, shall be visually examined to determine that the packaging, packing, and marking conform to this specification and the applicable drawing. The list of defects in Table V shall be used to define the defects.

**TABLE V. List of defects for packaging.**

Item	Defect
Contents	More than one helmet component assemblage in the same container.
Exterior and interior marking	Missing, incomplete, incorrect, illegible; of improper size, location, sequence, or method of application; exterior and interior marking different.
Packaging and packing material	Inadequate application of the components such as incomplete closure of unit package, intermediate package, case liners, container flaps, loose strap-pings, etc.; bulging or distortion of containers.
Exterior and interior weight or content	Number per container is more or less than required; gross or net weight exceeds the requirements.

#### 4.6.3 PRK-37/P Helmet Shell Assemblages.

##### 4.6.3.1 Penetration resistance test.

4.6.3.1.1 Test preparation. A helmet shell assemblage of each size shall be fitted with a helmet liner assemblage of the same size. The helmet shell and liner shall then be placed on a rigidly mounted headform whose surface shall be electrically conductive. The helmet shell shall be positioned so that the test striker will impact the outer surface of the helmet shell anywhere above the reference plane in a direction essentially perpendicular to the outer surface of the helmet shell.

4.6.3.1.2 Test striker. The test striker shall have a weight of 6.625  $\pm 0.1$  pounds (3.0  $\pm 0.045$  kilograms). The point of the test striker shall have an included angle of 60  $\pm 0.5$  degrees and a cone height of 1.5 inches (38mm). The striking point of the test striker shall have a minimum hardness of 60 Rockwell (Scale C) and a radius of 0.0197  $\pm 0.004$  inch (0.5  $\pm 0.1$  mm). The test striker or at least the striking tip shall be electrically conductive.

\* 4.6.3.1.3 Test. Each size helmet shell shall be subjected to a minimum of two (2) impacts from the test striker in a guided free fall from a height of 1m  $\pm 5$ mm (39.4  $\pm 0.2$  inches) onto the outer surface of the helmet shell in accordance with 4.6.2.1. The impacts shall be at least 3 inches (76mm) apart and shall be located no less than 3 inches (76mm) from the center of any impact points. The drop height shall be measured from the striker point. The helmet shell assemblage shall pass the requirements specified in 3.5.1.1.

4.6.3.2 Sound attenuation. The attenuation of the helmet shell assemblage shall be measured in accordance with the American National Standards Institute (ANSI) standard Z24.22-1957. The helmet shell assemblage of the appropriate size for the subject, shall be fitted with a helmet liner assemblage of the same size. The communications cord opening in the earcup grommet shall be plugged with RTV compound. A subject shall be fitted with a helmet shell and liner assemblages using liner and earcup fitting pads to obtain a tight fit without being uncomfortable to the subject. Each subject shall use a new fitting pad set and earseals when fitted with the helmet and liner assemblages. The helmet shell assemblage shall then be subjected to the attenuation specified in Table L. The helmet shell assemblage shall pass the requirements specified in 3.5.1.2.

4.6.3.3 Adhesion of finish. With a scribe held at a 30° angle, make three (3) parallel, straight lines 1/16 inch (2 mm) apart in any direction on the outer surface of the helmet shell. Then cross these lines with three (3) additional perpendicular lines 1/16 inch (2 mm) apart. The squares produced by this procedure shall be inspected visually and shall pass the requirements specified in 3.5.1.3.

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4.6.3.4 Weight (shell). The complete helmet shell assemblage shall be weighted on a scale capable of weighing to the nearest 0.01 pounds. The helmet shell assemblage shall meet the requirements specified in 3.5.1.4.

4.6.4 PRK-40/P Helmet liner assemblage.

4.6.4.1 Impact energy attenuation. The impact energy attenuation test shall consist of determining the imparted acceleration to an appropriately instrumented standard headform dropped in a vertical guided fall upon a fixed rigid steel anvil base.

4.6.4.1.1 Test preparation. The helmet liner assemblage of each size shall be fitted into a helmet shell assemblage of the same size. The helmet shell and liner shall then be placed on a standard headform so that the reference plane on the helmet is coincident with the reference plane of the headform, prior to each drop. The helmet and liner shall be secured to the headform and cross arm by its retention system so as to maintain this position during free fall.

4.6.4.1.2 Headform. The test headform shall be of low resonance magnesium alloy (K-1A) and shall weigh  $11 \begin{matrix} +0.2 \\ -0.0 \end{matrix}$  pounds ( $5 \begin{matrix} +0.091 \\ -0.0 \end{matrix}$  Kg) including the supporting arm.

4.6.4.1.3 Hemispherical steel anvil. The hemispherical steel anvil shall have a 1.9 inch (48mm) radius and shall be backed up with a solid mass of at least 300 pounds which shall be faced with a steel plate 1 inch (25.4mm) minimum thickness and 1 foot<sup>2</sup> (0.1m<sup>2</sup>) minimum surface area.

\* 4.6.4.1.4 Test procedure. The helmet shell and liner, mounted on the headform as specified in 4.6.2.1, shall be adjusted to a height of  $1m \pm 5mm$  ( $39.4 \pm 0.2$  inches) above the hemispherical steel anvil. The helmet shell and liner shall then be single impacted upon the hemispherical steel anvil in a free fall at not less than 4 sites on the helmet. The impact sites shall be above the reference plane and separated from each other by a distance not less than one-sixth of the maximum circumference of the helmet and over an area covered by a fitting pad. Each size helmet liner shall pass the requirements specified in 3.5.2.1.

4.6.4.2 Weight (liner). The weight of the complete helmet liner assemblage shall be weighed on a scale capable of weighing to the nearest 0.01 pounds. The helmet liner assemblage shall meet the requirements specified in 3.5.2.2.

4.6.5 EEK-4/P Helmet Visor Assemblage.

4.6.5.1 Windblast resistance. With the visor in the fully deployed (down) position there shall be a minimum gap between the lower edge of lens and

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the oxygen mask. The headform shall then be secured to the test platform and exposed to windblast velocities of 452  $\pm$  45 KEAS at each of the attitudes listed below:

- a. head on/head up
- b. rotated 45° starboard/head up
- c. head on/tilted 45° aft
- d. rotated 45° port/tilted 45° aft

The time of exposure to this maximum range shall be 300  $\pm$  50ms, and the rise time to reach the peak velocity shall be 80  $\pm$  20 ms. The total windblast duration shall be at least 3.0 seconds. The visor assemblage shall pass the requirements specified in 3.5.3.1.

4.6.5.2 Weight (visor). The weight of the complete helmet visor assemblage shall be weighted on a scale capable of weighing to the nearest 0.01 pounds. The helmet liner assemblage shall meet the requirements specified in 3.5.3.2.

## 5. PACKAGING.

5.1 Preservation and packaging. Preservation and packaging shall be Level A or C, as specified by the procuring activity (see 6.2).

5.1.1 Level A. Unless otherwise specified, each helmet component assemblage shall be packed in a unit container in accordance with PPP-B-636, Class Weather Resistant. The container shall be designed to enclose the helmet component assemblage in a snug, glove-like fit to prevent motion of the helmet component assemblage or component parts during shipment; cushioning material used to cushion and prevent such motion shall conform to PPP-C-795.

5.1.2 Level C. The helmet component assemblage shall be individually packaged in a manner that will prevent physical damage or environmental deterioration during transit from the shipping point to the original consignee.

5.2 Packing. Packing shall be Level A, B or C as specified by the procuring activity (see 6.2). Insofar as practicable, shipping containers shall effect a close fit, contain identical quantities and be of uniform dimensional configuration. Unless otherwise specified, the gross weight of each packed container shall not exceed 50 pounds.

5.2.1 Level A. The helmet component assemblage packaged in fiberboard containers as specified in 5.1.1 shall be packed in overseas type exterior containers conforming to PPP-B-591, PPP-B-601, PPP-B-621 or PPP-B-576. Plywood, when used, shall conform to Type I or II, Class 2, of NN-P-530. Each exterior shipping container shall be furnished with case liners,

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material conforming to UU-P-268 and fabricated in accordance with MIL-L-10547. A case liner for PPP-B-636, Glass Weather Resistant containers, is not necessary when all seams and closures are sealed with water resistant tape conforming to PPP-T-60.

5.2.2 Level B. The helmet component assemblage packaged as in 5.1.1 shall be packed in domestic type exterior containers conforming to PPP-B-591, PPP-B-601, PPP-B-621 or PPP-B-576. Unless otherwise specified, the unit container, with the seams and joints sealed in accordance with the appendix of PPP-B-636 may be used as the shipping container.

5.2.3 Level C. When this level of packing is required, the helmet component assemblage shall be packed to insure that the shipment arrives satisfactorily at destination. The shipment shall conform to the applicable carriers rules and regulations in effect at the time of shipment.

5.3 Marking. Unit packages, and intermediate containers shall be marked in accordance with MIL-STD-129.

## 6. NOTES AND CONCLUDING MATERIAL

6.1 Intended use. The helmet component assemblages covered by this specification are intended for use by naval air crews. When properly assembled and fitted, the completed helmet assembly provides protection against head, eye and face injury.

### 6.2 Ordering data.

6.2.1 Procurement requirements. Procurement documents should specify the following:

- a. Title, number, and date of this specification
- b. Desired quantity and size of the following:
  - PRK-37/P Helmet Shell Assemblage
  - PRK-40/P Helmet Liner Assemblage
  - EEK-4/P Helmet Visor Assemblage
- c. Number of first article samples to be submitted if other than specified in 4.4.1.
- d. Selection of applicable levels of packaging and packing (see 5.1, 5.2 and 5.3).

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**6.2.2 Data requirements.** When this specification is used in a procurement which incorporates a DD Form 1423 and invokes the provisions of 7-104.9(n) of the Armed Services Procurement Regulations, the data requirements identified below will be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirements List (DD Form 1423) incorporated into the contract. When the provisions of ASPR-7-104.9(n) are not invoked, the data specified below will be delivered by the contractor in accordance with the contract requirements. Deliverable data required by this specification is cited in the following paragraphs:

<u>Paragraph</u>	<u>Data Requirement</u>	<u>Applicable DID</u>
4.4.1.1	First Article Inspection Reports	DI-T-5329 - Inspection Test Reports

**6.3 Qualification.** With respect to products requiring qualification, awards will be made only for products which are, at the time set for opening of bids, qualified for inclusion in the applicable Qualified Products List whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or orders for the products covered by this specification. The activity responsible for the Qualified Products List is the Commander, Naval Air Systems Command, Department of the Navy, Washington, DC 20361; however, authorization for qualification of products shall be obtained from the Commander, Naval Air Development Center, Warminster, Pennsylvania 18974, (Code 603). Prior to submission of the samples for qualification inspection, the manufacturer shall submit a request to the Naval Air Development Center (Code 603) indicating a date on which the samples can be forwarded and also request an authorization number to accompany the samples.

**6.4 First article.** When a first article is required, it shall be tested under the appropriate provision of 7-104.55 of the Armed Services Procurement Regulation. The first article should be a preproduction sample. The contracting officer should include specific instructions in all procurement instruments, regarding arrangements for examinations, test and approval of the first article.

**6.5 Changes from previous issue.** The margins of this specification are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.