

INCH-POUND

A-A-59010

5 February 1999

SUPERSEDING

(See Section 7)

## COMMERCIAL ITEM DESCRIPTION

## NAVIGATION LIGHTS

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

## 1. SCOPE

1.1 Scope. This commercial item description covers 120-volt standard navigation lights for use on ships over 65 feet (20 meters) in length operating in international waters, and Navy unique lights that are modified standard navigation lights.

2. CLASSIFICATION. The light fixtures shall conform to the following types and styles.

2.1 Type.2.1.1 Standard Navigation Lights:

- (a) Masthead light (white, 6 nautical mile (nm) visibility).
- (b) Port side light (red, 3 nm visibility).
- (c) Starboard side light (green, 3 nm visibility).
- (d) Stern light (white, 3 nm visibility).
- (e) Towing light, (yellow, 3 nm visibility).
- (f) All-round white light (3 nm visibility).
- (g) All-round red light (3 nm visibility).
- (h) All-round green light (3 nm visibility).
- (i) All-round yellow light (3 nm visibility).
- (j) All-round flashing light (yellow, 3 nm visibility).

2.1.2 Navy Unique Lights:

- (a) Blue stern light (3 nm visibility). This light shall be the same as the standard stern light, except it shall have a blue lens.
- (b) All-round blue light (3 nm visibility). This light, commonly referred to as a contour approach light, shall be the same as a standard all-round light, except it shall have a blue lens.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commander, Naval Sea Systems Command, SEA 03Q, 2531 Jefferson Davis Highway, Arlington, VA 22242-5160.

AMSC N/A

FSC 6220

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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## 2.2 Style.

2.2.1 Style 1 - Single lamp, single lens fixture.

2.2.2 Style 2 - Double lamp, double lens fixture.

## 3. SALIENT CHARACTERISTICS

3.1 Basic Requirements. Standard navigation lights shall meet UL 1104 and be classified by Underwriters Laboratories Inc. in accordance with the International Regulations for Prevention of Collisions at Sea, 1972 (72 COLREGS). Navy unique navigation lights shall meet all of the requirements for standard navigation lights except for color. Navy unique lights shall be classified by Underwriters Laboratories Inc. to this document.

3.2 Electrical Requirements. Fixtures shall be designed to operate satisfactorily on a 120-volt, single-phase, ungrounded system. The insulation resistance between all current-carrying and noncurrent-carrying parts of the fixture shall be at least 1 megohm.

3.3 Color Specification of Navy Unique Lights. The chromaticity of blue Navy unique lights shall be within the boundary indicated below, as specified by SAE J578.

The boundaries of the area for the color "restricted blue" are indicated as follows:

$$\begin{aligned}y &= 0.07 + 0.81x \\x &= 0.40 - y \\x &= 0.13 + 0.60y\end{aligned}$$

## 4. REGULATORY REQUIREMENTS

4.1 Recovered Materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

## 5. QUALITY ASSURANCE PROVISIONS

5.1 Product Conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.2 Metric Products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of FED-STD-376 and all other requirements of this commercial item description are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request shall be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

## 6. PACKAGING

6.1 Preservation, Packing and Marking. The preservation, packing, and marking shall be as specified in the contract or order.

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## 7. NOTES

7.1 Ordering Data. Purchaser should specify the following:

- (a) Title, number and date of this commercial item description.
- (b) Number of fixtures required.
- (c) Type of fixture (e.g., all-round green light).
- (d) Style of fixture: (1 or 2).
- (e) Bid sample if required.
- (f) Packaging requirements.

7.2 Source of Documents.

7.2.1 UL Standard 1104 Marine Navigation Lights is available from Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062.

7.2.2 SAE J578 Color Specification is available from the Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096-0001.

7.2.3 FED-STD-376 Preferred Metric Units for General Use by the Federal Government is available from the Defense Automated Printing Service (DAPs), Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

7.2.4 72 COLREGS - The Code of Federal Regulations (CFR) is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. When indicated, reprints of certain regulations may be obtained from the Federal agency responsible for issuance thereof.

7.3 Potential Sources. Based on information available at the time this document was developed, the following manufacturers are believed to provide standard navigation light fixtures that comply with the salient characteristics of this commercial item description.

Manufacturer

Aqua Signal Corporation  
1680 East Fabyan Parkway  
Batavia, Illinois 60510  
Telephone (800) 287-4047  
Fax (800) 715-2628

PERKO  
16490 Northwest 13<sup>th</sup> Avenue  
Miami, Florida 33164-0510  
Telephone (305) 621-7525  
Fax (305) 620-9978

7.4 Supersession Data: This commercial item description supersedes MIL-DTL-24560A, dated 25 January 1999, in part, for new design.

Preparing Activity:  
Navy - SH  
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