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# Omniglow Corporation

June 19, 1998

Docket Management Facility  
USCG-1998-3473 - 11  
U.S. Department of Transportation, Room PL-401  
400 Seventh Street SW  
Washington, D.C. 20590-0001

DEPT. OF TRANSPORTATION  
DOCKET SECTION  
98 JUN 25 PM 12: 19

RE: Emergency Response Plans for Passenger Vessels

Dear Sir or Madam:

Omniglow is anxious to work with the United States Coast Guard to help ensure passenger safety in the case of an emergency evacuation.

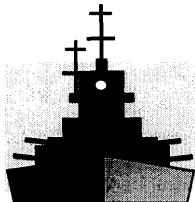
We believe that Omniglow lightsticks can be used in passenger vessel emergency evacuation plans.

The attached document provides information about Omniglow products. It also explains how our products can be utilized during an emergency response situation.

The USCG has approved the Omniglow Personnel Marker Light (PML). Please find a copy of our Certificate of Approval No. 161.012/2/1 enclosed.

We hope that you consider incorporating our products into your emergency response plan ruling. I have enclosed some **product** samples for your review.

*Protection at Sea*



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June 19, 1998  
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Thank you in advance for your consideration. If you have any questions, please do not hesitate to call.

Sincerely,

George F. Egan  
National Sales Director  
**(413) 858-2576**

/kls

cc: F. Kaplan      K. Foster  
D. Heitler      R. Laibl  
C. Rudzinski    S. Ellrich  
K. Scott        F. Odom  
C. Coughlin



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## **Emergency Evacuations**

Emergency evacuations involving fire **and/or** smoke create a setting that can lead to injury and even death. A passenger vessel fire necessitates an evacuation of all passengers and crewmembers in a quick and effective manner. Through education and proper training, an evacuation plan using Omniglow lightsticks is the USCG's best line of defense against potential tragedy and fatality. There are several areas in which Omniglow lightsticks and other safety products can assist in the effective evacuation of passengers.

### **1. Evacuating Passengers**

The 10-inch high intensity yellow SAFETYGLOWB Lightstick should be used by crewmembers to direct individuals to the appropriate evacuation areas. The lightstick produces a bright, 360-degree, instantaneous light that is extremely visible from a distance of ½ mile. This lightstick can help assist crewmembers establish control of their passengers, help prevent panic, and speed evacuation egress.

### **2. Lighting Emergency Exit Doors and Windows**

The SNAPLIGHTB Emergency Evacuation (S.E.E.®) System is the most cost efficient, maintenance free emergency lighting system on the market. The S.E.E. system produces sufficient light to illuminate a passenger's path to an emergency exit door or window. The S.E.E. System unit is easily identifiable in complete darkness because of its photoluminescent panel. The S.E.E. System comes equipped with two portable lightsticks. You can remove one for portable light and leave the other in place for stationary light.

### **3. Lighting Stairwell, Walkways and Corridors**

Crewmembers can place two 10-inch high intensity lightsticks with magnetic holders on each side of the stairwells. This ensures lighted walkway and corridors for passengers exiting compartments and stairwells, helping to reduce the risk of a slip, trip, or fall, while increasing the speed of evacuation.

### **4. Marking Safety Zones**

A safe zone should be designated to serve three purposes: (1) to identify if any passengers are missing; (2) to help reduce injury to passengers and crewmembers; (3) to coordinate the response from medical teams.

Omniglow LIGHTSHAPE® Markers can mark the way (and light the way) to a designated safe zone. LIGHTSHAPE Markers can also be worn by crewmembers for personnel identification.



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Other uses for the LIGHTSHAPE Markers are:

- a) Color-code hazardous zones
- b) Indicate stairwells and exits
- c) Mark previously searched areas

## **5. Passenger Identification**

Omniglow P.M.L.® Personnel Marker Lights can be attached to clothing and life vests for quick identification of passengers and crewmembers. They can also be attached to buoys. They are visible up to 1 mile and can be seen 3 miles from the air.

## **6. Emergency Signaling**

Omniglow CYALUMEB S.O.S. Signal or Safety Light was designed for search and rescue at sea. The S.O.S. Light is attached to an 18" tether to enable twirling in a circle of light. Its primary function is to alert nearby ships or planes that help is needed. The S.O.S. Light is visible up to 1 mile and can be seen 3 miles from the air.



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## **Answers to Key Questions Regarding Lightsticks**

### **Maintenance of Lightsticks**

Lightsticks are 100% maintenance-free and have a shelf life from two to four years depending on the lightstick.

### **Storage of Lightsticks**

Lightsticks are waterproof, and require no special storage conditions or disposal requirements.

### **Inspection of Lightsticks**

The corrugated boxes and the foil containers are labeled with expiration dates. As with a fire extinguisher inspection program, lightstick inventory should be visually inspected, and the product should not exceed its expiration date.

### **Will a lightstick explode?**

The answer is "NO".

Detailed information about chemical light can be provided upon request including the following:

- ◆ Available fluorescer colors
- ◆ Duration versus brightness
- ◆ Duration and brightness versus temperature
- ◆ Brightness versus color
- ◆ Available tube dimensions and lengths

## **History of Chemical Light and Omniglow Corporation**

In 1963, the United States Government funded a research program to develop a chemical that would generate light. The Omniglow Corporation holds many significant United States patents for chemical light chemistry and devices.

In 1996, Omniglow manufactured and delivered over 90 million chemical light devices worldwide. 10 million of those devices were purchased and delivered to the United States Military.



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### **How Chemical Light Works**

Omniglow Corporation produces chemical lighting devices by combining two chemicals: an oxalate and an activator. A sealed glass vial contains one chemical. Sealed plastic tubing contains the other chemical. The sealed glass vial is placed into the sealed plastic tubing. To activate, bend the plastic tubing to break the glass vial. The two liquids will mix and light will result.

### **Shelf Life of Omniglow Lightsticks**

All the products illustrated in the emergency evacuation plan have a shelf life of 2 to 4 years.

### **Maintenance, Storage, and Disposal of Omniglow Lightsticks**

Omniglow lightsticks are 100% maintenance free. There are no special shipping, handling, storage, or disposal issues with Omniglow lightsticks. Lightsticks should be stored at each passenger emergency exit. They can also be stored in each electrical panel and/or in every first aid kit.

### **Inspection of Omniglow Lightsticks**

The corrugated boxes and the foiled containers are labeled with expiration dates. In conjunction with a fire extinguisher program, lightstick inventory should be visually inspected, and the product should not exceed its expiration date. The SNAPLIGHT Emergency Evacuation (S.E.E.) System contains inspection date stickers which an inspector can initial and date indicating that the system has not been activated.

### **Compliance Codes**

Compliance codes require that components not be highly toxic, corrosive or irritant in terms of the definition and tests in the Code of Federal Regulations, Title 16, Part 1500 (Federal Hazardous Substance Act). Omniglow lightstick products meet and exceed all requirements under Title 16, Part 1500, of the Code of Federal Regulations.



U.S. Department of Transportation  
United States Coast Guard

# Certificate of Approval

COAST GUARD APPROVAL NO: 161.012/2/1

EXPIRES: AUGUST 2, 1999

PERSONAL FLOTATION DEVICE LIGHT

OMNIGLOW CORPORATION  
20-C PIMENTEL COURT  
NOVATO, CA 94949

Snaplight PML Personnel Marker **Light**, chemically activated personal **floation** device light.

Power source is a chemical lightstick with expiration date 4 years from date of manufacture. Lightstick dated by Omniglow Corporation.

Identifying Data: UL Test Report MQ 317 **77TA427** dtd 30 Nov 78, MQ 1164 92 RT 7586 dtd 10 **Dec** 92, and MQ1164 **94RT4130** dtd 13 June 94.

**Omniglow** Marker Lt. dwg dtd 23 Apr 92, Tube & Cover dwg dtd 11 **May 92**, Handle dwg dtd 8 May 92, Safety Pin dwg dtd 10 **Dec** 92, Cap dwg dtd 14 **May 92**, and **American** Cyanamid Co. dwg. 1886-A-1, issue A dtd 15 **Sept** 77.

The PML with the molded handle manufactured by Omniglow Corp., West Springfield, MA 01090 must be marked with approval no. **161.012/2/0** and the PML with the riveted handle manufactured by Omniglow Corp., **Navato**, CA 94949 must be marked with approval no. **161.012/2/1**.

This certificate supersedes **approval no. 161.012/2/1** dtd 20 **Dec** 93 to show extension of service life from 3 to 4 years.

\*\*\* END \*\*\*

**THIS IS TO CERTIFY THAT** the above named manufacturer has submitted to the undersigned satisfactory evidence that the items specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 2ND DAY OF  
AUGUST 1994, AT WASHINGTON D.C.

R. L. MARKLE  
CHIEF, SURVIVAL SYSTEMS BRANCH  
BY DIRECTION OF THE COMMANDANT, U.S.C.G.

# AVAILABILITY OF NON-SCANNABLE ITEMS

USCG-98-3473

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**Docket / Document Number**

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**Old Docket Number, If any**

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(3) CYALUME S.O.S. LIGHTS

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(3) SAFETY GLOW LIGHT STICKS

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(3) SNAP LIGHTS

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(2) LIGHT SHAPES

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**Name / Description of Item(s) non-scannable**

**MAY BE VIEWED IN** USCG HQ, 2100 2nd Street, S.W.

Washington, D.C., Room 3406, G-LRA

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**Agency / Office Name / Room Number / Contact Person (if any)**

**during the hours of** 9:30 a.m. to 3:30 p.m.