

## Photoluminescent Emergency Lighting For the MRAP Buffalo



Defense Holdings, Inc.® (DHi) has developed an Emergency Egress Photoluminescent (PL) Lighting Kit™ specifically for the MRAP Buffalo. Our objective is to provide the Warfighter with simple and highly reliable emergency markings using our AfterGlow® photoluminescent light sources to identify the locations of door latches and openings, grab bars and emergency equipment such as fire extinguishers in the absence of daylight and any other powered lighting.

When things go really bad and you've got to quickly orient yourself in a darkened vehicle and escape, **clear and reliable safety and egress markings are vital.**



Left-rear door of Cat II Cougar shown for comparison.

## Who is Defense Holdings, Inc.®?

DHi® is a dynamic small business dedicated to helping customers – in government or industry – manage high technology programs.

The DHi staff enjoys a reputation earned over many years for technical and managerial excellence. We support our customers with solutions to the complex problems of implementing and managing technology in a demanding and rapidly changing procurement environment.

Customer questions or concerns can be addressed to:

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Visit us on the web at [www.dh-inc.com](http://www.dh-inc.com)

**Arlington Corporate Headquarters:**  
1005 North Glebe Road, Suite 500  
Arlington, VA 22201-5718

## ISO 9001 Registered Since 2003

DHi has been recognized for its expert project management techniques and attention to detail. In 2003, and again in 2006, the company underwent a comprehensive audit of its Quality Management System (QMS) and its business practices, and was found to be in compliance with ISO 9001:2000 Quality Management System requirements. Our QMS requirements cover all aspects of project management and the quality control process that can have an impact on the consistency of our DHi services and products. DHi's ISO registration demonstrates that we have the appropriate infrastructure to facilitate further improvements in quality, including improvements in the effectiveness and efficiency of our support to our federal and commercial customers.



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Presents



**For Improved MRAP  
Buffalo Safety**



## Photoluminescent Emergency Lighting For the MRAP Buffalo



The DHi MRAP Buffalo™ Emergency Egress Photoluminescent (PL) Lighting Kit™ (Part Number **NLN131JBPE-KIT3Y**) contains:

- 25' of 1" wide, adhesive-backed AfterGlow® PL tape
- 25' of 1" wide, high-energy magnetic-backed AfterGlow® PL tape
- 50 Alcohol wipes for cleaning/preparing surfaces for installation
- Two AfterGlow® fire extinguisher marking labels

**National Stock Number 9390 01 573 0814**

To order, please contact

**Defense Holdings, Inc.** at  
1-877-AFT-GLOW (1-877-238-4569),  
via e-mail at [sales@afterglowdirect.com](mailto:sales@afterglowdirect.com), or  
via our websites at [www.afterglowdirect.com](http://www.afterglowdirect.com)  
or [www.dh-inc.com](http://www.dh-inc.com).

As an ISO registered company we welcome any feedback on our products and services, as well as any recommendations you may wish to share with us at [quality@dh-inc.com](mailto:quality@dh-inc.com).

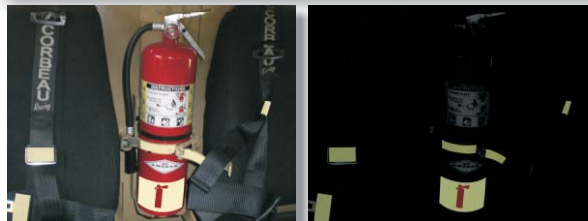
## MRAP Buffalo™ Emergency Egress Photoluminescent (PL) Lighting Kit™

DHi's MRAP Buffalo™ Emergency Egress Photoluminescent (PL) Lighting Kit™ is designed to provide the Warfighter with materials that can be easily installed in the vehicles. The Kit includes adhesive-backed PL tape, magnetic-backed PL tape, PL markings for the fire extinguishers, alcohol wipes to prepare the surfaces and detailed instructions on how and where to install the materials.

Our safety-grade PL materials are inert, waterproof, non-toxic, non-radioactive and can be charged over and over again. A full charge (8+ hours of luminance) on DHi's AfterGlow® Photoluminescent Materials is achieved by exposing the PL material to:

- 3-4 minutes of ultraviolet (black) light, or
- 7-8 minutes of direct sunlight, or
- 21-23 minutes of fluorescent light, or
- 24-26 minutes of incandescent light.

With the exception of the floor, light levels in the buttoned-up MRAP Buffalo during the day are sufficient to keep the PL materials fully charged. Once all light is removed, the fully-charged PL materials will provide adequate light for a minimum of 8 hours of visibility. Once fully-charged, DHi's AfterGlow® brand PL safety materials are readily visible underwater and through smoke.



## Photoluminescent Solutions For Other Dept. of Defense Applications

DHi's AfterGlow® Photoluminescent Safety Products are gaining wide success within the U.S. Department of Defense. In November 2004, DHi began fulfilling a \$6.5 M Federal contract to install revolutionary PL Low Location Exit Path Marking Systems (LLEPMS) in the Pentagon. DHi's state-of-the-art PL solution provides Pentagon military and civilian personnel with no-fail emergency signage, enabling them to locate building exits even under extreme adverse conditions such as the total loss of electrical power or severely reduced visibility due to heavy smoke.

Aircraft propellers are dangerous to anyone who approaches them on the ground. Spinning so fast that they're practically invisible, propellers are especially dangerous when light is low or visibility is limited. It's tragically easy to be distracted amid the noise and stress of flight operations, and people are struck and killed every year. DHi has addressed this problem by applying an innovative AfterGlo® PL safety paint onto propeller blades, creating a highly effective visual warning indicator: now the crew can see the propellers. This solution (patent pending) can also be used on helicopters and a wide array of civilian aircraft.

DHi's AfterGlow® safety signage is also being applied to some of the Navy's newest ships where tests have shown that our PL signs are five times brighter and glow five times longer than conventional Navy signage.

