

UNCLASSIFIED**MILITARY LASER SAFETY COMMITTEE**

Ministry of Defence

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**LASER SAFETY CLEARANCE CERTIFICATE**

EQUIPMENT: Laser Rescue Flare

REFERENCE NUMBER: MLSCC/0477/01/01

ISSUE DATE: 25/06/2009

EXPIRY DATE: 26/06/2014

1. The Military Laser Safety Committee (MLSC) has considered the safety aspects of the Laser Rescue Flare. The purpose is to ensure that the procedures to be employed satisfy the current safety standards for the protection of personnel against hazards from laser radiation.
2. The MLSC has taken into account the information supplied and confirms that the laser used in the Laser Rescue Flare is a Class 3R laser. Class 3R lasers present a direct hazard to the human eye or without the use of viewing aids (binoculars).
3. The Laser Rescue Flare can be hazardous to the eye for a distance, known as the Nominal Ocular Hazard Distance (NOHD), of 2.6 m. In addition, there is an extended hazard distance (known as Extended NOHD) of 18 m.
4. This certificate is valid from 25/06/2009 to the 25/06/2014
5. The MLSC has, based on the best available information at this time agreed that a laser safety clearance certificate shall be issued to cover the Laser Rescue Flare, subject to the equipment being operated according to the procedures previously outlined in the references below. The certificate will be automatically invalidated if the procedures or the parameters are changed without prior MLSC consultation and approval.
6. This certificate does not absolve all involved from taking the proper precautions for their own safety and that of others in accordance with current Health and Safety legislation.

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References:

- A. Document: Greatland Laser Rescue Flare Laser Hazard Analysis
Reference: 8240.2-Ser G72
Dated: June 06,
By: S Zimmerman, Naval Surface Warfare Center.

- B. MDTAP/477 -Technical Assessment, By: DESWPNS-DOSG-MLSC, Dated:
25/06/2009

- C. File: DOSG/23/316, Dated: 24/06/09

Matt Flower
DES Wpns DOSG MLSC
Military Laser Safety Committee

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LASER SAFETY CLEARANCE CERTIFICATE TECHNICAL
ASSESSMENT

EQUIPMENT		Laser Rescue Flare	
REFERENCE NUMBER		MLSCC/477/01/01	
ISSUE DATE		25/07/2009	
EXPIRY DATE		25/07/2014	
TECHNICAL DATA			
Wavelength	532 nm	Beam Divergence	31 x 1.1 mrad
Beam Diameter	1.1 mm - Circular	CW or Pulsed	CW
Output Power/energy	5 mW	Pulse width	N/A
PRF	N/A	Classification	3R
AEL	5 mW	MPE	25.5 Wm ⁻²
NOHD	2.6 m	ENOHD _(10 x 50)	18 m
ENOHD _(10 x 80)	29 m	ENOHD _(10 x 120)	44 m
OD	0.8		
Comments			
ENOHD is calculated using 90 % transmission through the Binoculars			

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