



## ENGINEERING SAFETY CONSULTANTS

*The Global Provider of Functional Safety Expertise and Technical Consultancy*

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### Certificate of IEC 61508 Safety Integrity Level (SIL) 2 Capability

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#### ***Functional Safety of Safety-Related Programmable Electronic Systems***

The **Gulf Lights Electrical Engineering WLL, Emergency Lighting and Central Power Supply System** has been assessed and is considered capable for use in a low demand Safety Function up to SIL 2, with respect to random hardware failures, architectural constraints and systematic capability.

The assessment was carried out to determine compliance with IEC 61508 with regards to:

- Random Hardware Failure (Predicted failure rate per year 2.1E-04);
- Architectural Constraint (Type B, 90% - <99%, HFT = 0);
- Systematic Capability of SC 2.

The assessment was based on the assumptions and data provided in:

- **ESC Ltd Report: G062\_GI001 rev. 1.**

Based upon the ESC Report G062\_GI001 rev. 1, it can be considered that the Emergency Lighting and Central Power Supply System is SIL 2 capable.

**Assessment Date: March 2019**

**Expiry Date: March 2021**

**Certificate: G062\_CT001 rev. 1**

Managing Director: Kenneth G L Simpson

Member of the IEC 61508 committee

ENGINEERING SAFETY CONSULTANTS LTD  
is ISO9001-certified by Global Group, itself a  
UKAS-accredited ISO9001 certification  
body

Reg: 12Q12086

ENGINEERING SAFETY CONSULTANTS LTD  
Tuition House  
27-37 St George's Road Wimbledon London SW19 4EU UK  
Telephone/Fax: +44 (0)20 8542 2807  
E-Mail: [info@esc.uk.net](mailto:info@esc.uk.net) Web: [www.esc.uk.net](http://www.esc.uk.net)  
Registered in England and Wales: 7006868  
Registered Office: 27-37 St George's Road Wimbledon London SW19 4EU