



## ENGINEERING SAFETY CONSULTANTS

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

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

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

The **Midmac Contracting Company WLL, Clean Agent Fire Suppression System (FM200)** 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 4.0E-03);
- Architectural Constraint (SIL 2 in terms of Route 2<sub>H</sub>, HFT = 0);
- Systematic Capability of SC 2.

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

- **ESC Ltd Report: G062\_GI003 rev. 1.**

Based upon the ESC Report G062\_GI003 rev. 1, it can be considered that the Clean Agent Fire Suppression System (FM200) is SIL 2 capable.

**Assessment Date: March 2019**

**Expiry Date: March 2021**

**Certificate: G062\_CT003 rev. 1**

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Member of the IEC 61508 committee

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