



ENGINEERING SAFETY CONSULTANTS

The Global Provider of Functional Safety Expertise and Technical Consultancy

Certificate of Conformity to IEC 61508 and Specific Requirements of IEC 62061 Safety Integrity Level (SIL) 3

Functional Safety of Safety-Related Programmable Electronic Systems

The **Generic Winch System** has been assessed (P104_Generic Design_62061_(3.0)) and is considered suitable for use in SIL 3 Safety Functions based on the design and requirements stated in the Performance Winch Safety Design Document (STS-GV-0001i) and the assumptions, data provided, and conditions given in the subsequent documents:

- Automation system Test documentation (STS-TD-00011f);
- Application – Process of Generic Design Document to Specific Projects (STS-AP-0001b);
- Internal Review Template (STS-IR-0001a);
- Lists of Pars used for Generic Winch System Design (STS-LP-0001c);
- Prior used, Verified Software Modules (STS-SD-0001e);
- STL Competency Register (STS-CR-0001d);
- SIL Verification Report (P104_SV001_(4.0));
- Renewal letter from TAIT Technologies UK, signed by Alec Gass, Head of Mechanical Engineering, dated 16th September 2019.

This certificate can cover project-specific systems only if the system's requirements and design fully comply with Generic Design Document (STS-GV-0001i) and the subsequent documents listed above.

The details of the Winch System and the scope of the assessment are outlined below:

A High Demand SIL 2 System monitored by a Low Demand SIL 1 System giving an Overall SIL 3 Safety Functions assessment comprising of:

- Random Hardware Failures;
- Safe Failure Fraction;
- Systematic Capability;
- Assessment of Components and Subsystems;
- Established Common Cause Factors;
- Systematic Capability of Hardware and Software.

System designed and manufactured by: TAIT Technologies UK Ltd, 9 Falcon Park, Neasden Lane, London, NW10 1RZ

Managing Director: Kenneth G L Simpson

Member of IEC 61508 Maintenance Committee (TC 65/SC 65A/MT 61508-1-2)

Assessment Date: February 2015

Renewal Date: September 2019, valid to September 2021

Certificate: P104_CT001 rev. 4

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