



## ENGINEERING SAFETY CONSULTANTS

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

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# Random Hardware Reliability and Systematic Assessment Certificate

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

The **TAIT Technologies UK, 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 Gavin Wells, Director of Global Service and Support, dated 12<sup>th</sup> July 2022.

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: Simon Burwood  
Member of IEC 61508 (MT61808-1-2) & IEC 61511 (MT61511) Maintenance Committees  
Assessment Date: February 2015  
Renewal Date: July 2022, valid to July 2024  
Certificate: P104\_CT001 rev. 5

### **ENGINEERING SAFETY CONSULTANTS LTD**

2<sup>nd</sup> Floor, Exchequer Court, 33 St. Mary Axe,  
London, EC3A 8AA UK

Telephone: +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: 33 St. Mary Axe, London, EC3A 8AA