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| Document number: | E057_CT002 rev. 4 |
| Dated: | 24-Jan-25 |
| Expiry date: | 24-Jan-27 |

# IEC 62061 Functional Safety Capability Statement

## TAIT Towers, Siemens Based Navigator Performance Automation System

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| Manufacturer: | TAIT Towers<br>401 W Lincoln Avenue, Lititz, PA 17543 |
| Product: | Navigator Performance Automation System |
| Model: | Siemens Based |

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| Application: | Systems consist of a combination of parts which are SIL 3 High Demand, and parts which are High Demand SIL 1 systems monitored by a Low Demand SIL 2 system, giving an overall SIL 3 system |
| Safety Function: | Refer to Section 5.2 of E057_SV003_Rev. 7 for each Safety Related Control Function (SRCF) Loop |
| Applied standard: | IEC 61508 Ed2 2021 |
| Systematic Capability: | Suitable up to SIL 3 |
| Applicable report: | Functional Safety Plan (Issue 2.1, October 2020)<br>Maintenance Mode Hazardous Risk Assessment (Revision 1.2, October 2020)<br>Operation Mode Hazardous Risk Assessment (Revision 1.3, October 2020)<br>Safety Requirement Specification (Issue 2.1, October 2020)<br>Internal Verification Checklist (Revision 1.2, October 2020)<br>List of Parts (Revision 2, September 2020)<br>Software Design Specification Siemens Axis Safety and Motion PLC (Issue 1.2, October 2020)<br>Software Requirements Specification and Design Document for the Safety PLC and Navigator Control System (Issue 1.1, October 2020)<br>Siemens Software Configuration Document (Issue 1.1, October 2020)<br>Navigator Software Configuration Document (Issue 2, October 2020)<br>Software Verification Testing Plan (Issue 2.1, October 2020)<br>Software Verification Testing Checklist (Version 2.1, October 2020)<br>Operation and Maintenance of Safety Systems (Issue 2.1, October 2020)<br>Validation Plan (Issue 2.1, October 2020)<br>Validation Checklist (Version 2, October 2020)<br>Modification Procedure (Issue 1, February 2017)<br>Competency Register (Issue 2, August 2020) |

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Competency and Training Register Spreadsheet (Version 7, August 2020)
Navigator Software Corrective Action Procedure (Issue 2, August 2020)
Safety Commissioning Manual (Issue 2.1, October 2020)
Safety Critical Software (Issue 2.1, September 2020)
Navigator High Performance Automation System Functional Safety Assessment (E057_FSA _62061 Rev. 5, January 2025)
Navigator High Performance Automation System – Siemens Simatic S7 Safety Functions SIL Verification (E057_SV003_Rev. 7, January 2025)
Functional Design Specification (Siemens) (Issue 2.1, October 2020)

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The TAIT Towers, Siemens Based Navigator High Performance Automation System has been assessed and is considered suitable for use in SIL 3 Safety Functions based on the design and requirements stated in the Functional Design Specification (Issue 2.1, October 2020) and the assumptions, data provided, and conditions given in the subsequent documents listed above.

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