

Functional Safety Management and the ABB Functional Safety Management Technical Authority



ABB's objectives are to ensure safety applications are implemented in accordance with the IEC 61508/IEC61511/ IEC 62061/IEC 61800-5-2 safety standards.

ABB's Functional Safety Management Technical Authority (FSM TA) is tasked with developing consultancy services, functional safety management, competency requirements and assessment procedures for ABB's Safety Execution Centres (SEC's) wishing to implement safety instrumented systems (SIS). In doing so, the FSM TA are integral to the ABB Safety Execution Centres (SEC) becoming third party certified in order to provide additional client "safety related assurance" for our safety instrumented system (SIS) solutions and service.

How the FSM TA can help our Customers

As part of our mandate to maintain the accredited third party certification for ABB Design, Engineering and Operations & Maintenance Functional Safety Management System (FSMS) in accordance with the IEC 61508/11 safety related standards, we provide functional safety management and independent technical authority consultancy and training services delivered to asset owners and safety supply chain organisations. These services are delivered by TUV certificated FS Experts & Engineers to assist our customer organisations in achieving functional safety life cycle compliance.

Services

FSM TA Services include:

- Undertaking the role of Independent Functional Safety Authority for either the Asset Owner/EPC or other organisations within the Supply Chain
- Performing Independent Functional Safety Audits and Assessments
- Developing and Assessing Safety Requirement Specifications (SRS)
- Undertaking End User and Supply Chain Functional Safety Management gap assessments and gap closure development
- Implementing SIL Verification and Proof Test Method Reviews for New or Existing Safety Instrumented Functions
- Undertaking SIS operation and maintenance Benchmarking & Fingerprint assessments to support continued safe operation
- Delivering Cybersecurity risk assessments and defining security life cycle management requirements in accordance with IEC 62443
- Providing a wide range of Industry leading Functional Safety related Technical Training courses



Benefits of Engagement with the FSM TA

The ABB FSM TA provides functional safety services which are truly independent from the client's management and technical organisation and activities and in meeting the "Independence" requirements stated within IEC 61508 Ed2: Part 1, clause 8.2.15.

These services provide a pragmatic and cost effective approach to establishing if functional safety has been achieved, particularly in those instances where stakeholders are not fully up to speed with the detailed technical nuances of IEC 61508/IEC 61511/IEC 62061 and IEC 61800-5-2.

Our resources have TUV Rheinland FSExpert and FSEngineer certification and are represented on a number of Safety Standards Maintenance Committees and Industry Safety Bodies/ Institutions, combined with many years Asset Owner and Systems Integration Experience on a number of Technology Platforms.

Our solutions are proven to deliver technical robustness, operational excellence and sustainable business improvement. We prefer to work in partnership with our customers where we deliver benefits together and we transfer relevant skills to our customers for ongoing improvement.

Assured and certified products, services, delivery and execution.

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