No compromise on safety and performance

The Functional Safety Assessment service evaluates all available relevant information in order to assess the risks arising from the process and the use of the drive. Functional Safety Assessment also tells you if any changes are needed for an electrical drive application and its documentation to meet the EN ISO 13849-1 and EN IEC 62061 safety standards.

Functional Safety Assessment utilizes a wide range of ABB functional safety options for drives and solutions with safety functionality.

The service is delivered by a local ABB-certified drive service provider.

The service includes two main parts:
- Assessment and conclusion
- Commissioning the drive application with functional safety options

Value to customer

- Packaged delivery covers functional safety design, verification and commissioning work for the drive application that meet special regulatory and local safety requirements and standards.
- Improves safety functionality and productivity.
- ABB offers a comprehensive safety product portfolio, available for complete design and implementation.
- Cost savings through improved uptime, easy-to-use solutions and effective life cycle management

Service includes

Definition

- The customer completes a light Functional Safety questionnaire.
- The scope of the delivery coverage is based on the questionnaire and described in the service offer.
Assessment & design

- Risk assessment and evaluation principles according to standards, including risk reduction with functional safety design
- Safety integrity level and performance level calculations and reporting

On-site commissioning

- Validation of the drive application by an ABB-certified engineer and documentation including a risk assessment
- Detailed commissioning report
- Registering the drive in the ABB installed base

Service does not include

- Application engineering and installation
- Materials and spare parts
- Repair work
- Any update or upgrade work
- Declaration of conformity for the complete machine

Product coverage

- The Functional Safety Assessment service is available for ABB's ACS880 product family with an FSO module in the active life cycle phase.

Customer responsibilities

- Providing sufficient details for the safety-related technical inquiry.
- Ensuring the safety of the working area (zero energy state, grounding, safety interlocks).
- Ensuring free access to equipment for maintenance work during inspection.
- Providing qualified electricians if assistance is required during the commissioning work.
Other terms

- According the agreement by and between ABB and the customer.
- If any changes have been made to the safety functions during commissioning (changes after delivery from factory, e.g. to circuit drawings or safety configuration) they need to be documented in the drives installed base. All safety functions where the drive plays any role have been tested during commissioning and no deviations were detected in the safety functions, or the customer has accepted these detected deviations.
- All devices/components must be applied, operated and installed according to their technical specifications. The characteristic data for devices used in safety functions must correspond to the actual usage of the device.