

EUR21_33 – DELIVERING A PERIODIC FUNCTIONAL SAFETY ASSESSMENT IN THE OPERATIONAL PHASE

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Abstract – Historically, the way in which safety instrumented systems have been operated and maintained can vary significantly. Essentially whatever methodologies are deployed within the operation, the use of a proper lifecycle management approach will be required to maintain the necessary levels of risk reduction.

When modifications are applied to the SIS over time, the requirements for change management, impact assessment and functional safety assessment will need to be implemented. The basis of safety will need to be re-evaluated and the safety requirements updated along with the current 'As Built' documentation.

IEC 61511 recognises that 'periodic functional safety assessment' within the O&M lifecycle phases is required to support the successful management and delivery of the necessary risk reduction requirements and this paper will identify what is reasonable and practicable to include and assess while operating, maintaining, modifying and testing this important layer of protection.