



Safety instrumented systems

IMS SIS

A comprehensive solution for managing the safety instrumented systems (SIS) lifecycle in compliance with International Electrotechnical Commission (IEC) 61508 and IEC 61511.

IMS SIS offers flexibility to use hazard and operability (HAZOP), layers of protection analysis (LOPA) and safety instrumented function (SIF) design verification capabilities either as standalone modules or as part of an integrated workflow. When used together, information flows seamlessly between each stage of the process, helping teams reduce manual effort and improve efficiency across safety studies.

The proof test scheduling module can be connected directly to a computerized maintenance management systems (CMMS), ensuring continuous synchronization of proof test scheduling data. To support the full SIS lifecycle, proof test results can be recorded in the condition history module and used to support future rate data studies.



With IMS SIS, you can:

- Carry out HAZOP and LOPA studies or import existing studies to use for future SIF design efforts
- Design SIFs and perform design verification calculations to determine the minimum required testing intervals on the equipment tag level
- Export testing intervals resulting from the SIF design verification calculations to your CMMS
- Create custom reports
- Create SIF equipment testing procedures and feedback testing results into the condition history module
- Create user-specific dashboards

The benefits

Improve efficiency and consistency across the SIS lifecycle

- Reduce project execution time for safety studies by integrating HAZOP, LOPA and SIF design verification modules
- Establish a single point of entry across multiple disciplines
- Configure a role-based access to support different users, responsibilities and workflows
- Maintain complete revision management across all IMS SIS modules to support projects and management of change processes
- Access to an exclusive failure rate database and a complete library for initiating events and barriers developed through years of industry experience and collaboration with Shell

Octave's partner Cenosco also provides the training and consulting services needed to support successful implementation and adoption.

Get in touch to request a full demo of IMS SIS.

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