



Process Safety Management

The Process Safety Management (PSM) section of OSHA gives general guidance on Process Safety, specifically addressing Process Hazard Analysis (PHA). OSHA relies on Recognized and Generally Accepted Good Engineering Practice (RAGAGEP), in the form of industry standards, to accomplish PSM. IEC 61511 is one of the most widely used industry standards which has been sanctioned by OSHA as satisfying RAGAGEP. It defines a Safety Lifecycle, where a Risk Assessment is the first step. Partner with Hargrove Controls & Automation to reduce risk and ensure compliance.

Performing PHA

We facilitate all forms of PHAs, including:

- HAZOP
- Failure Modes and Effects Analysis
- What-If
- Fault Tree Analysis
- Checklist
- Layers of Protection Analysis (LOPA)

Our Team is TÜV Rheinland certified in Functional Safety, and has many years of experience in all phases of the Safety Lifecycle, from Preliminary Risk Assessment, Conceptual Design, Supporting Documentation (SIL Calculations, Safety Requirement Specifications, etc.), programming, commissioning, and testing. We are actively involved in the Technical Committee 56 for the ANSI/IEC-61882 HazOp Application Guideline.



Take a Proactive
Approach to Safety.
Scan to learn more.

Benefits of a Quality PHA on the Lifetime of a Process:

- Reduced process safety incidents
- Reduced engineering costs
- Identification of Safety Critical Instrumentation, which may impact maintenance costs
- Compliance with OSHA requirements