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Process Safety Compliance Does Not Mean You Are Safe?

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Abstract

Providing your facility with effective barriers to process hazards and risk involves more than just compliance with current process safety standards. Understanding specific process hazards and risk will provide a clear assessment that provides the site with the identification of appropriate layers of protection.

There are many tools that have been effectively used over the years to protect people, environment and property from process failures. Compliance regulations and standards have addresses some, but not all, of these tools. This presentation will illustrate the use of hazard/risk assessment and best practices to reduce the risk to an acceptable level.

The major topics are as follows

- Risk Assessment – Provide a force ranking of hazards/risk to establish priority.
- Leadership – Resources to provide leadership of process safety by the site to corporate management teams.
- Analysis – Descriptions of elements that can be used to analysis the process safety program vital signs and needs.
- Communication – Methods to be used to ensure the process safety program is know and understood.
- Competence – Elements that focus on keeping the workforce competent
- Control – Methods to manage and control critical elements that keep the program day-to-day activities efficient.

Process Safety Compliance Does Not Mean Your Are Safe!

PSM Incomplete

- Audit
- Contractors
- Emergency Planning/Response
- Employee Participation
- Hot Work
- Incident Investigation
- Management of Change
- Mechanical Integrity
- Operating Procedures
- Pre-startup Safety Review
- Process Hazard Analysis
- Process Safety Information
- Trade Secret
- Training

Poor PSM Regulations
Compliance Mentality
Lack of Leadership
Organizational Naiveté

RISK

PSM Complete

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Poor PSM Regulations
Compliance Mentality
Leadership Awareness
“Job Done” Naiveté

RISK

Process Safety Comprehensive

Leadership	
Communication	Meeting
Committee	Signage
Critical Indicators	Organization
Employee Participation	Work Authority
Culture	Policy
Communication	
Calendar	Shift Communications
Employee Participation	Meetings
FAQ	News/Alerts
Dashboards	
Analysis	
Audit	Inspections/Rounds
Culture	Observation
Facility Siting	Process Hazard Analysis
Human Factors	Risk Assessment
Incident Investigation	Troubleshooting
Inherently Safe Design	
Knowledge/Competency	
Crisis Management	Procedures
Certification	Scenario
Curriculum	Testing/Evaluation
Document Management	Training
Control	
Action Management	Permits
Chemical	Project Management
Contractors	Pre-startup Safety Review
Emergency	Reliability
Human Factors	Security
Maintenance Management	Process Safety Information
Mechanical Integrity	Turnaround
Management of Change	Work Order

Process Safety Standards
Performance Mentality
Leadership Engaged
Organizational Reality

RISK