

MARY KAY O'CONNOR PROCESS SAFETY CENTER TEXAS A&M ENGINEERING EXPERIMENT STATION

18th Annual International Symposium October 27-29, 2015 • College Station, Texas

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 that 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-today activities efficient.



Process Safety Compliance Does Not Mean Your Are Safe!

PSM Incomplete	PSM Complete	Process Safety Comprehensive
Audit Contractors	Audit Contractors	Leadership Communication Meeting
Emergency Planning/Response Employee Participation Hot Work	Emergency Planning/Response Employee Participation	Committee Signage Critical Indicators Organization Employee Participation Work Authority
Incident Investigation Management of Change Mechanical Integrity	Hot Work Incident Investigation Management of Change	Culture Policy Communication

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

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 Leadership Awareness "Job Done" Naiveté

Calendar Employee Deuticinetien	Shift Communications	
Employee Participation FAQ	Meetings 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	

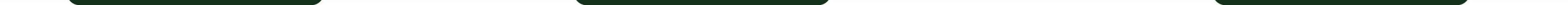
Action Management Chemical Contractors Emergency Human Factors Maintenance Management Mechanical Integrity Management of Change

Control

Permits Project Management Pre-startup Safety Review Reliability Security Process Safety Information Turnaround Work Order

Process Safety Standards Performance Mentality Leadership Engaged Organizational Reality

RISK



RISK