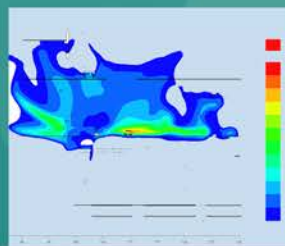
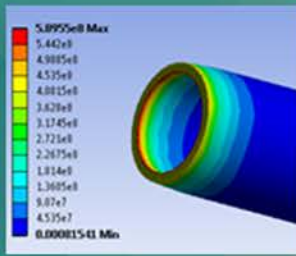


# SafeQ Services

An Overview of our Services and Solutions



[www.safeqservices.com](http://www.safeqservices.com)



[contact@safeqservices.com](mailto:contact@safeqservices.com)



+1 (346) 280 5597

***“We work on the forefront of innovation and technology to improve safety and reliability of your assets”***

## Process Safety & Risk Management

SafeQ Services provides process safety and risk management services encompassing a wide range of analyses and studies. We provide audit and consulting services for OSHA PSM, and EPA RMP program development. We facilitate process hazard analysis namely HAZOP, HAZID and What-If studies. Engineers at SafeQ Services have many years of experience across various industries in performing hydrocarbon release modeling, dispersion, explosion, fire, toxic consequence and risk analysis. Based on modeling of physical effects and risk assessment, we facilitate risk reduction workshops, and develop performance standards for safety critical elements. We develop Safety Case and similar studies, Bow-Tie analysis, and hazards & effects registers or risk registers.



## Well Integrity & Barrier management

SafeQ Services provides verification studies for barrier adequacy and integrity, well integrity during drilling and post drilling, well abandonment studies, failure and reliability analysis services. We also facilitate Failure Mode and Effects Analysis (FMEA) studies, Risk assessment workshops and Root Cause Analysis, to name a few.



## Reliability & Asset Integrity

Our services in reliability and asset integrity involve different tools and techniques. We facilitate Failure Mode and Effects Analysis (FMEA) workshops, Reliability Centered Maintenance (RCM) studies, Root Cause Analysis, Spare Parts assessment studies, Reliability, Availability and Maintainability (RAM) studies, Production Assurance studies, Layers of Protection Analysis (LOPA), Safety Integrity Level (SIL) determination and verification studies.

## Training

We offer courses on Process Safety, Process Hazard Analysis, Risk Assessment, Asset Integrity Management, Well Integrity, New Technology Qualification, and Machinery Safety.



***“We provide solutions that accommodate tomorrow’s needs”***

## Process Safety & Risk Mgmt

- > OSHA PSM Program & Audit
- > Process Hazard Analysis (PHA: HAZOP, HAZID, What-If)
- > Facility Siting study
- > Fire & Explosion analysis
- > Gas Dispersion analysis
- > Toxic Dispersion study
- > Flare Radiation study
- > Vent Dispersion study
- > Quantitative Risk Analysis (QRA)
- > Dropped Object Study
- > Design Accidental Load (DAL)
- > Safety Critical Element & Performance Standards
- > Bow-Tie analysis
- > Safety Case
- > High Integrity Pressure Protection Systems (HIPPS)
- > Management of Change (MOC)
- > Pre-Startup Safety Reviews (PSSR)
- > Fire and Gas Detector Location
- > Alarm Rationalization

## Reliability & Asset Integrity

- > Fault Tree Analysis (FTA)
- > Event Tree Analysis (ETA)
- > Failure Mode Effects & Criticality Analysis (FMECA)
- > Reliability Block Diagram (RBD)
- > Reliability, Availability and Maintainability (RAM) study
- > Production Assurance study
- > Safety Integrity Level (SIL)
- > Layer of Protection Analysis (LOPA)
- > Failure Investigation and Root Cause Analysis (RCA)
- > Reliability Centered Maintenance (RCM)
- > Spare Parts Analysis
- > Risk Based Inspection (RBI)
- > Remaining Useful Life (RUL) analysis

## Well Integrity & Barrier Mgmt

- > Barrier Verification study
- > Well Abandonment study
- > Well Integrity during and post-Drilling
- > Remaining Useful Life (RUL)
- > Casing Failure analysis
- > Casing Degradation study
- > BOP and BOP control system Reliability analysis
- > Bow-Tie analysis
- > Quantitative Risk Analysis (QRA)
- > Qualitative Risk Analysis (HAZOP, What-if, FMEA)
- > New Technology Qualification

## Machinery Safety

- > Conformity Assessment
- > Guards & Interlocks Assessment
- > Machinery Risk Assessment
- > Risk Reduction Workshop
- > PLr / SIL Assessment for Functional Safety
- > Safety Distance Calculation

### Design (FEED & Detail)

- ✓ Review and Verification
- ✓ Project Risk Assessment
- ✓ PHA, HAZID, HAZOP
- ✓ Risk Assessment
- ✓ Safety Critical Elements
- ✓ Performance Standards
- ✓ New Technology Qualification
- ✓ Reliability Assurance Studies
- ✓ Asset Integrity Framework

### Construction

- ✓ Training Services
- ✓ Site safety Audits

### Operations

- ✓ Asset Integrity Management
- ✓ Risk Management
- ✓ Real Time Monitoring
- ✓ Predictive Analytics

Design

Fabrication

Installation

Production

Decom

### Procurement

- ✓ Vendor Audit and Qualification
- ✓ Conformity Assessment
- ✓ OEM Design Review
- ✓ New Technology Qualification
- ✓ AIM Baseline Studies

### Commissioning

- ✓ PHA Validation Studies
- ✓ Pre-Startup Safety Review
- ✓ Risk Validation Studies

### Revamp & Modification

- ✓ Management of Change
- ✓ PHA Revalidation
- ✓ Risk Revalidation

### Decommissioning

- ✓ Risk Assessment



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