



PROCESS SAFETY MANAGEMENT

Managing your Risk

Unforeseen incidents can cause business interruption, damage to property, and even loss of life. The prevention of accidents is critical for a smooth running operation. With over 20 years of experience, the **BakerRisk** team has the knowledge, skills and expertise necessary to assist companies in managing risks associated with hazardous and reactive materials.

OUR STAFF AVERAGES 25 YEARS
EXPERIENCE IN THEIR CHOSEN
FIELDS AND HAVE LED
MORE THAN 500
PROCESS HAZARD ANALYSIS
STUDY TEAMS

Baker Engineering and Risk Consultants is internationally recognized for its expertise in the fields of process safety management, fire protection, insurance risk engineering and explosion modeling.

The wealth and breadth of our staff's experience enables **BakerRisk** to efficiently analyze client facilities and provide practical recommendations for identifying, reducing, and controlling risks.

BakerRisk
Provides a single source
for ALL your process safety needs



*Do you have confidence in
the safety of your process?*



BakerRisk can help you evaluate the hazards, identify risk reduction opportunities, develop emergency response procedures, and prioritize mitigation strategies.

Is your company:

- Aware of current regulations?
- Applying good engineering practices?
- Optimizing expenditures?
- Providing a safe work environment?



**BAKER ENGINEERING AND
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About BakerRisk

Baker Engineering and Risk Consultants, Inc. is one of the world's leading explosion analysis, structural design, and risk engineering companies. BakerRisk provides comprehensive consulting, engineering, laboratory and range testing services to government agencies and private companies who are involved with dangerous, highly hazardous, reactive, or explosive materials.



Blast Effects & Explosion Testing



**Dynamic Structural Analysis
and Design**



Risk Engineering



Process Safety



Incident Investigations



**Reactive Chemicals Testing &
Management Systems**

www.BakerRisk.com

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SPECIALIZED ENGINEERING AND TECHNICAL SERVICES

PROCESS SAFETY MANAGEMENT

- Development and Implementation of Process Safety Management (PSM) Programs for OSHA compliance
- Facility Siting Studies
- PSM Compliance Audits
- Process Hazard Analysis (PHA), including HAZOP, FMEA, WHAT-IF, etc.
- Management of Change (MOC)
- EPA Risk Management Plan (RMP) development and submission
- Offsite Consequence Analysis

PROCESS SAFETY AND RISK MANAGEMENT

- Hazard Identification
- Consequence Assessment
- Event Probability Assessment
- Determination of Individual and Societal Risks
- Identification of Cost Effective Risk Reduction Measures

LOSS PREVENTION ENGINEERING

- Specification, Design and Testing of Emergency Systems for Onshore and Offshore facilities such as Emergency Shutdown Systems, Pressure Relief Systems, Gas and Fire Detection Systems

ADDITIONAL SERVICES

- Insurance Risk Engineering
- Integrity Management Plans For Pipeline Systems
- Assignment and Documentation of Safety Integrity Level (SIL) for Safety Instrumented Systems (SIS)
- Analysis and Design of Blast Resistance Structures
- Prediction of Explosion Consequences
- Accident Investigation and Litigation Support
- Reactive Chemicals Hazard Assessment
- Structural Response and Explosion Effects Testing
- Software Products, Technology Cooperative, and Training
- Reliability and Availability Studies