



# PROVIDING SOLUTIONS TO MANAGE HAZARDS AND RISKS



# Our Services

BakerRisk provides a broad scope of services, employing our vast experience and highly trained staff to assist clients in solving problems in a timely fashion. We pride ourselves in our ability to keep your facility safe to operate now and in the future. Our areas of expertise include:

## Specialized Testing and R&D

### Process Safety

### Incident Investigation Services

### Materials Engineering

### Blast Effects Engineering

### Structural Engineering

### Specialized Testing and R&D

- Testing Facilities
- Joint Industry Research and Development
- Materials Testing
- Dispersion Testing
- Jet Fire Testing
- Combustion Properties
- Vapor Cloud Explosion Testing
- Custom Test Services
- Structural Component Testing
- Air Tightness Testing
- High Pressure Testing
- Firewater Testing
- DLG Testing and Integrity

### Process Safety

- Facility Siting/Quantitative Risk
- HAZOP/HAZID/PHA
- SIS/SIL/LOPA/FMEA
- Insurance Risk Engineering
- Fire Protection and Loss Prevention Engineering
- Compliance Auditing
- Fire Safety Studies
- Flare and PSV Analysis
- Safety Critical Equipment Reviews
- Hazardous Area Classification
- Offshore Risk
- Maintenance Process Improvement

### Incident Investigation Services

- Testing of Components
- Event Reconstruction
- Root Cause Analysis
- Expert Litigation Support
- Site Management Support

### Materials Engineering

- Materials Engineering
- Materials Engineering Testing
- Materials Asset Integrity
- Third Party Evaluation and Testing
- Chemical and Energetic Material Hazards

### Blast Effects Engineering

- Explosion Hazards and Mitigation
- Dust Hazard Analysis (DHA) and Evaluations
- High Pressure Containment Analysis
- Specialized Testing
- Computational Fluid Dynamics

### Structural Engineering

- Protective Building Analysis and Design
- Blast Resistant Retrofit
- Government Facility Design
- Pressure Testing Hazard Mitigation
- Explosives Facility Safety
- Offshore Hazard Assessment
- Toxic and Thermal Analysis
- Equipment Damage Assessment
- Product Development



# Why choose BakerRisk?



Baker Engineering and Risk Consultants, Inc. (BakerRisk®) provides our clients cost-effective solutions to manage their risk exposures. For over thirty years, BakerRisk's clients have benefitted from the knowledge and experience of our professionals, our innovative research programs, and our customized engineering analyses.



BakerRisk utilizes these unique capabilities to provide quality engineering, R&D, investigation, and testing services to industries and government agencies handling explosive, flammable, reactive, and toxic materials.



## Client Sectors

FERTILIZER | GAS PRODUCTION | GOVERNMENT | INSURANCE | LEGAL |  
REFINING | TRANSPORTATION | AEROSPACE | AGRICULTURE | EXPLOSIVES



# About Us

BakerRisk has utilized its testing services and joint-industry R&D programs to develop cutting-edge capabilities to contend with the various hazards encountered in the processing industries. With a large scale shock tube facility for assessing the blast response of structural members and a 2,000 acre jet fire and vapor cloud explosion test site, BakerRisk is continuously expanding its knowledge-base, tools, and methodologies. Our professional staff leverages this knowledge to help our clients understand their risks to people and property from fires, explosions, and toxic hazards.

At BakerRisk, our custom blend of experienced staff and superior expertise provides the highest quality of technical risk management services. BakerRisk is a recognized industry leader, providing comprehensive solutions to help our clients manage their hazards and risks.







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