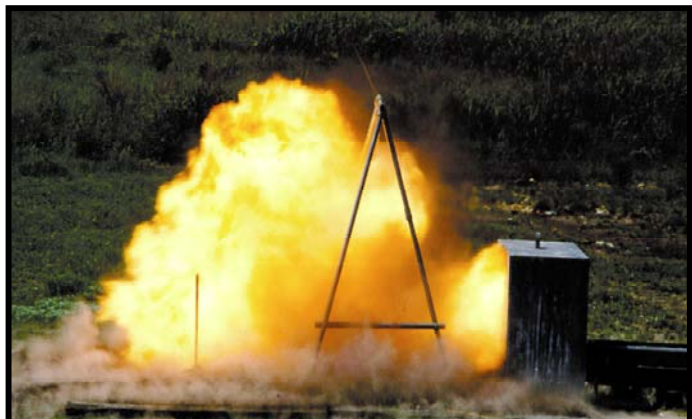


EXPLOSION EFFECTS AND STRUCTURAL RESPONSE TESTING

Baker Engineering and Risk Consultants, Inc. (BakerRisk) maintains the evaluation of explosions, their effects on structures, and development of methods to mitigate explosion hazards as a principal focus. A critical component of this effort is our test facilities, which provide our staff the necessary tools to perform experimental research and development.

BakerRisk has the trained staff and facilities to conduct explosion effects and related dynamic structural response testing. We conduct testing on a regular basis at our high explosive test range and our shock tube testing facility. BakerRisk has developed a unique testing facility within the industry and offers a wide range of capabilities including:

- Scale model testing
- Controlled blast load simulation
- High explosive testing
- Shock tube testing for structural test items up to 10 x 10 feet
- Blast load measurements with state-of-the-art data acquisition equipment
- Debris throw evaluation
- Fragmentation studies
- Shaped charge and special weapons testing
- Dynamic testing of structural components
- Window glass hazard evaluation and window film testing
- Specialty product testing
- Vessel bursts
- Forensic testing
- In situ testing



Explosion Testing and Simulation:

BakerRisk conducts testing for a variety of clients in government and industry. This includes explosion testing and material characterizations to determine explosion properties. Our testing capabilities include:

- Three shock tubes, including our largest which has a target area of 10 ft x 10 ft for large scale testing. The shock tubes are used to apply simulated blast loads on structural components.
- High explosive testing at our test range near San Antonio, Texas. Tests have been run in air, underground, and underwater.
- Vapor cloud explosion testing using test fixtures to produce flame acceleration through an array of obstacles.
- BakerRisk has established working relationships with various chemical and mechanical labs for reactivity, flammability, and detonation testing of products and materials.
- Library of equipment for in situ performance, operability and forensic testing.
- Patented flammability apparatus for measuring flammability and ignitability at elevated temperatures and pressures.



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