



SOUTHWEST RESEARCH INSTITUTE



## Blast Containment Design

Containment structures are required for explosives processing, testing and demilitarization. Southwest Research Institute® (SwRI®) has the expertise in blast effects, field testing, numerical modeling, fabrication, and environmental monitoring needed to solve unique blast containment problems. The Engineering Dynamics Department staff can handle a containment problem from conceptual design through fabrication, proof testing, and installation.

### Capabilities

- Blast -resistant design
- Explosives testing
- High-speed data recording
- High-speed photography
- Design-build capability
- Dynamic finite element analysis (FEA)
- Hydrocode analysis
- Heavy structural fabrication

### Experience

- Design, fabrication and testing of portable demilitarization container
- Design, fabrication and testing of 22-lb high explosives (HE) test chamber
- Chamber life extension studies
- Containment design for melt-pour HE production facilities
- Development of TOW missile shields for Bradley fighting vehicle

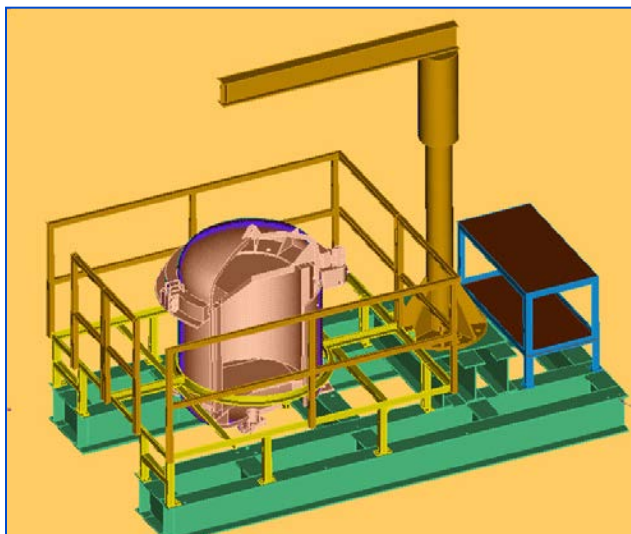


D004935

Los Alamos  
National  
Laboratory (LANL)  
blast chamber

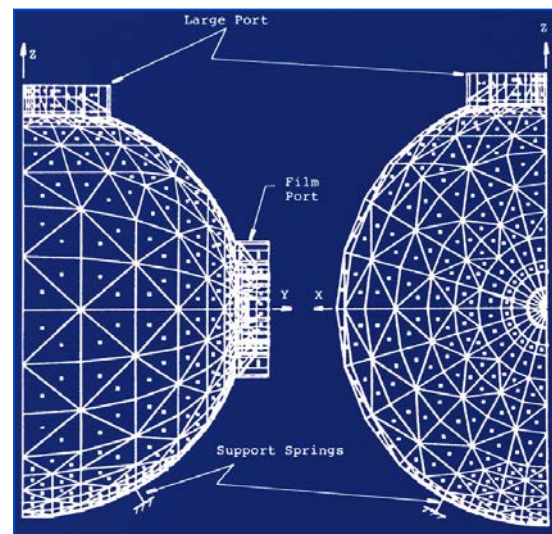


D004933



CAD model  
of portable  
blast chamber  
for munitions  
disposal

D005130



FEA grid  
of LANL  
spherical test  
vessel

D005012





*The SwRI Engineering Dynamics Department provides solutions for blast containment problems including blast-resistant design, fabrication, and verification testing. SwRI engineers also address environmental concerns related to explosions such as noise abatement and pollution control.*

## We welcome your inquiries.

For more information, please contact:

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## SOUTHWEST RESEARCH INSTITUTE

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