



Security Engineering

- Explosives Testing
- Blast Analysis, Design & Mitigation
- Retrofit & Structural Systems
- Progressive Collapse
- Extreme Load Designs
- Force-Protection Systems
- Perimeter Barrier Design
- Test Range Design & Support
- Product Evaluation & Testing
- Facility Vulnerability Assessments

Security Risk Management

- Force-Protection Systems
- Perimeter Barrier Design
- Forensic Analysis
- Design & Construction Services

Physical/Electronic Security

- Security Criteria Development
- ISC Security Design Criteria (ISC)
- Unified Facility Criteria (UFC)
- Program & Standards Development
- Code Analysis
- Design & Construction Services

Computer Sciences

- GIS Capabilities
- Secure Website Design & Hosting
- Custom Software Development

Training

- Workshops
- AIA Accredited Courses
- CD/Web Based Training

ARA is an industry leader in developing sound and cost effective solutions to complex and customized security problems in an integrated and comprehensive manner. We are scientists, engineers, advisors and practitioners in the security engineering field. Our projects are international in scope for both the public and private sector.

Explosive Effects - ARA provides expert blast consulting, design/engineering, testing, training and project support. Our analyses, calculations and narratives for major structural components related to blast include walls, windows, floors, roof systems, and overall building response to blast. ARA engineers provide technical advice in every aspect of explosives threat and type.

Security Risk Assessments - A core expertise is risk and vulnerability assessments. Our certified security professionals utilize ARA's Federal Security Risk Management methodology developed and customized for various Federal agencies, and enhanced by incorporating criteria from the Building Security Council and Building Security Rating System. We are adept at applying any desired assessment system.

Physical Security - We develop site-specific design criteria and work with developers, constructors, architects, engineers and other security experts to recommend solutions and training for any building layout, facilities campus or venue including perimeter fencing and barrier systems. ARA has the capability to test all related systems and structures.

Electronic Security Design and Installation - As part of ARA's integrated systems approach, ARA offers electronic security design and installation services including: access control, intrusion detection and alarm systems, closed circuit television and intercom systems, emergency assistance stations and all specifications and training of systems and operations as required.

Disaster Planning and Management - ARA provides organization-wide or project-specific disaster planning and management services. Our event simulation and evacuation modeling capabilities are unsurpassed, with ARA's computer simulation tool, Event Simulator (E-Sim) uniquely suited to model egress and ingress information during scenarios otherwise impossible to test. E-Sim events also predict human movement and health status during an evacuation.

Computer Sciences - ARA manages web-sites and develops customized software to support all of the work we do from blast to security risk management. We have produced state of the art interoperable tools including DM-Planner, EM -Planner and Federal Security Risk Planner (FSR-Planner) to assist organizations, cities and the Federal government in planning, preparing, responding to and recovering from emergencies.

Training - ARA offers personal, classroom and on-line training for all of our capabilities and services.

Science • Engineering • Security

Solutions For Government & Industry

Selected Clients

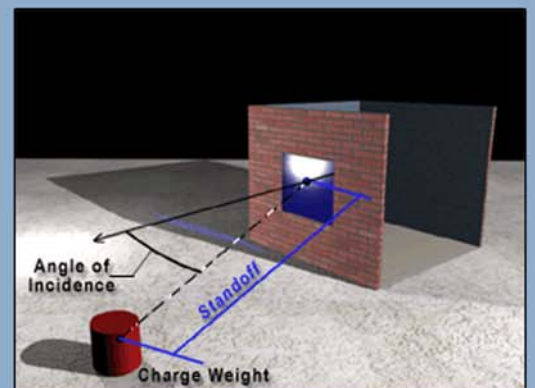
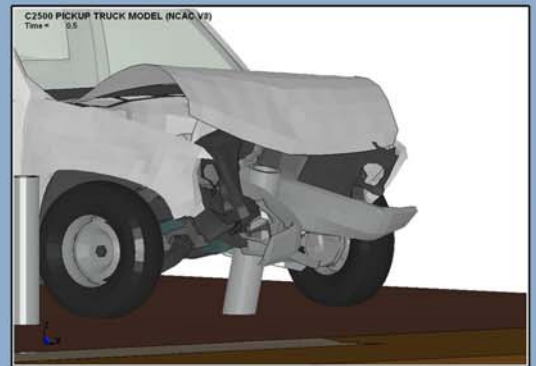
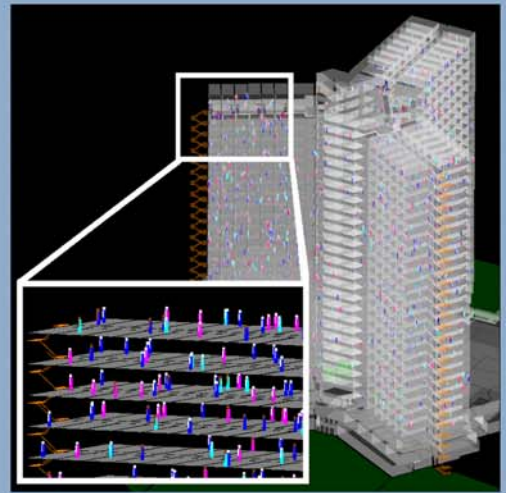
- Architect of the Capitol
- Bureau of Alcohol, Tobacco, Firearms and Explosives
- Defense Threat Reduction Agency
- Defense Advanced Research Projects Agency
- Department of Agriculture
- Department of Commerce
- Department of Defense
- Department of Homeland Security
- Department of Justice
- Department of State
- Department of Transportation
- Federal Aviation Administration
- Federal Protective Service
- General Services Administration
- Internal Revenue Service
- Library of Congress
- National Park Service
- Office of Personnel Management
- Smithsonian Institution
- Social Security Administration
- Technical Support Working Group
- US Army Engineering and Research Development Center
- US Capitol Police

Test Facilities

- Denver Titan Test Site
- Large Scale Test Site (LSTS)
Energetic Materials Research & Testing Center (EMRTC), Socorro, NM
ARA operated
- Pecos Full-Scale Research and Testing Facility
Pecos, TX

expanding the realm of

POSSIBILITY[®]



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