We exist to solve complex multi-disciplinary problems, leveraging advanced technologies, that increase the resiliency, performance, and longevity of high value assets.

OVERVIEW

■ Engineering Consulting Firm
  • Founded in 1983
  • Employee-owned corporation
  • Experts in prevention and control of structural and mechanical failures
  • Strong participation in industry codes and standards activities
  • Strong involvement with and support of EPRI (BWRVIP, MRP, WRTC, etc.)

■ Senior Technical Staff with Extensive Industry Experience
  • Highly involved in regulatory issues and interaction with U.S. NRC

■ Full time staff of approximately ~300; large percentage have advanced degrees and Professional Engineering licenses

■ Quality Assurance
  • Compliant with: 10 CFR 50, Appendix B; 10 CFR 21; and ANSI/ASMENQA-1-1989/1994
  • ISO 17025 certified (NDE)

ADVANCED STRUCTURAL ANALYSIS

■ Mass Concrete
  • Heat of Hydration
  • Shrinkage
  • Cracking

■ Non-Linear Concrete Performance
  • Concrete Aging and Degradation Modeling
  • ASR, AAR
  • Shrinkage
  • Prestress Losses

■ Fragility - Structures, Systems, Components

■ Pressure Vessels

■ Rotating and Reciprocating Equipment Supports and Foundations

■ Fluid-Structure Interaction (FSI)

■ Liquid Storage Tanks - Extreme Events
SEISMIC ANALYSIS

- Seismic Probabilistic Risk Assessment (SPRA)
- Time History Analysis
- Non-Linear Concrete Performance
- Seismic Vulnerability Assessment
- Retrofit Efficacy Evaluation
- Soils-Structure Interaction (SSI)
- Soil fragility
- In-Structure-Response Spectra (ISRS)
- Equipment Analytical Qualifications

SHOCK, BLAST AND IMPACT ENGINEERING

- Blast
  - Blast Wave Propagation
  - Anti-Terrorism Force Protection
  - Progressive Collapse Evaluations
  - Deflagration Events
  - Confined Detonations

- Shock
  - Equipment Fragility
  - Equipment Isolation Systems

- Impact
  - Aircraft Impacts
  - Vehicular Impacts
  - Tornado Borne Missiles
  - Load Drops

QUALIFICATION AND CERTIFICATION

Structural Integrity’s Qualification & Certification Division, TRU Compliance, is Capable of Handling Wind and Seismic Qualification of Structures, Systems and Components.

- Seismic Qualification of Structures, Systems and Components
  - Analytical
  - Testing – Shake Table
  - ICC-ES AC 156, IEEE 344 & 693
  - OSHPD OSP & OPA, CAN 2-1708A.5, IBC 1708.4

- Wind Qualification of Structures, Systems and Components

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