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/ASME/1-1999/1994
  - 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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