



Structural Integrity
Associates, Inc.®

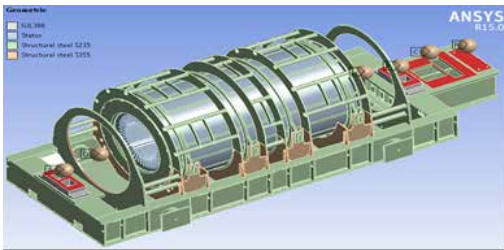
STRUCTURAL ENGINEERING

CRITICAL STRUCTURES AND FACILITIES

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 NQA-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**



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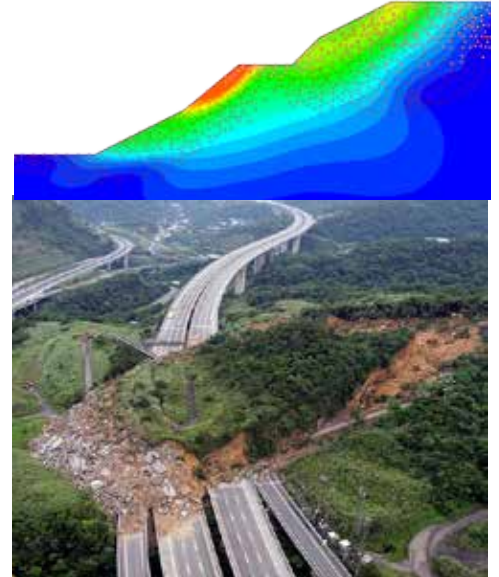
1-877-4SI-POWER
1-877-474-7693



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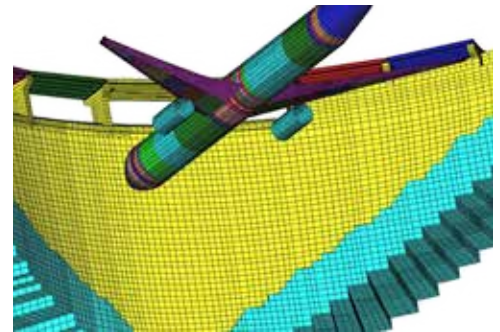
SEISMIC ANALYSIS

- 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

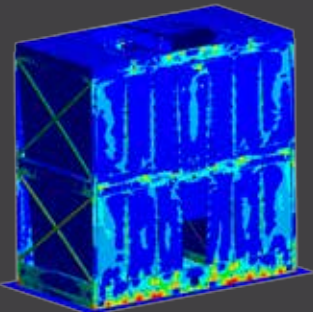


Impact Simulation

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



844.TRU.0200 | TRUCompliance.com



Air Handling Unit Awaiting Seismic Testing

Please contact **Philip Voegtle, PE, SE** at **619-354-5676** or pvoegtle@structint.com for more information on our services.