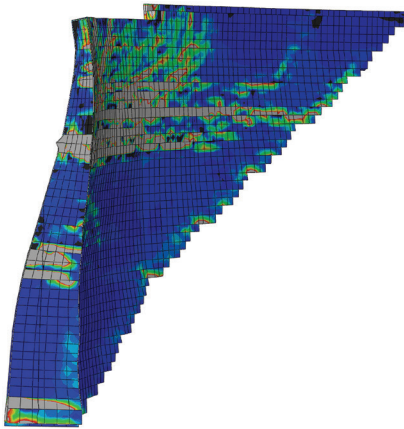




Structural Integrity
Associates, Inc.®

HYDRO POWER

INTEGRATED ENGINEERING SOLUTIONS



CONCRETE STRUCTURAL ANALYSIS

- Non-linear Finite Element Analysis of Dams and Intake/Outlet Structures
- Proprietary Non-Linear Concrete Constitutive Material Model, Validated by many Large Scale Structural Lab Tests
- Dam Stability Analysis
- Structural Seismic Vulnerability Evaluation of Existing Infrastructure and Assessment of Retrofit Concepts.
- Thermal/Stress Analysis for New Construction, Mass Concrete

PENSTOCK INSPECTION AND EVALUATION

- Wall Loss Evaluations Using Phased Array and Ultrasonic Techniques
- Advanced Finite Element Analysis
- Fracture Mechanics
- Fatigue Life Assessment

SPECIALTY INSTRUMENTATION

- Displacement Monitoring
- Vibration/Dynamic Characteristics
- Frequencies of Vibration and Mode Shapes
- Long Term Health Monitoring

SOIL FRAGILITY

- Probabilistic Risk Assessment of Soil Fragility Liquefaction
- Lateral Spreading
- Soil Displacements
- Slope Stability

MATERIALS & METALURGY LAB

- Evaluate Material Type and Properties
- Concrete Degradation Assessment: Alkali Silica Reaction (ASR) and Freeze-Thaw

SEISMIC EQUIPMENT QUALIFICATION

- Test Plans, Product Similarity Evaluation
- Shake Table Testing (AC 156, IEEE 344, IEEE 382, BelCor, etc...)
- Analysis of Passive Equipment
- Experience Database of Thousands of Previously Tested Equipment Types

TERRORIST THREATS

- Structural Evaluation of Blast and Aircraft Impact Scenarios
- Evaluation of Safe Standoff Distances
- Window and Glazing Evaluation



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