



## Prioritizing Infrastructure & Steam Piping Inspection

Structural Integrity's approach to effectively managing high temperature high energy piping systems is to employ a fully integrated, multi-disciplined programmatic approach. Through the use of advanced Non Destructive Examination techniques, SI can develop and implement a program intended to ensure safe and reliable operation of your steam plant systems and critical components. SI specializes in industrial steam plant piping inspections in buried and tunnel piping which meet or exceed all regulatory compliance regulations. SI has developed HEP programs for tunnel and steam piping for the Architect of the Capitol, DOD, and other federal agencies.

We can help high temperature high energy piping systems with our expertise and experience in following areas:

### TRADITIONAL & PRIORITIZED PIPING INSPECTION PROGRAMS

- High Risk Zones/Services
- Tunnels/Vaults
- Personnel Traffic
- Vehicular Traffic
- Environmental Impact
- Underground
- High Risk Services
- Natural Gas, Fuel Oil
- Steam
- Piping Materials vs. Components

### PIPING COMPONENTS

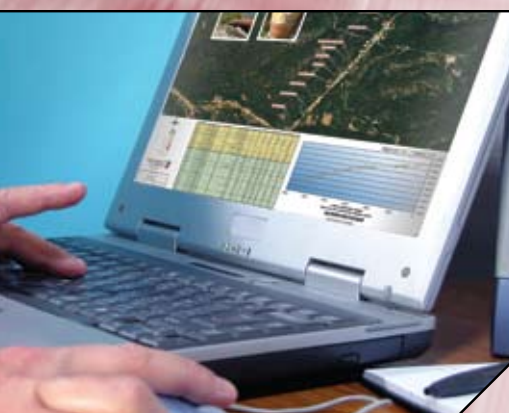
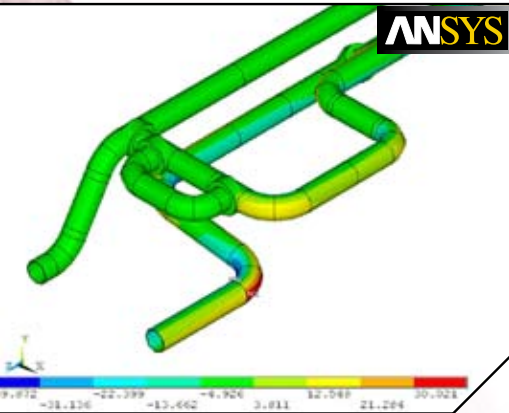
- Couplings
- Expansion Joints
- Hangers, Anchors, Supports
- Specifications & Quality Control

### DAMAGE MECHANISMS

- Corrosion
- External (protection system failure)
- Internal (water chemistry issues)
- Corrosion under insulation
- MIC (Microbial induced)
- Erosion
- Flow induced
- Particulate
- Stresses
- Low cycle thermal fatigue (start-ups/shut-downs)
- Primary pressure (wall loss)

### PROGRAMS

- VINDEX Inspection Prioritization Program - Understanding "WHERE" to Look
- Walk downs
  - Leaks/Exceptions
  - Hangers, Supports, Anchor inspections
  - Specification issues
  - As-built design
- Stress Analysis
- Apply the Non Destructive Examination "Toolbox"
  - Surface Examinations
  - Volumetric Examinations
  - Metallurgical Examinations
  - Screening Technologies



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