



Structural Engineering

We Take A Closer Look

Structural Engineering Services

- Bridge Inspections
- Exposed Structures
- Lightning Protection
- Materials/Mechanical Testing
- Safety Engineering
- Scaffold Inspections
- Seismic Shaker
- Storm Structural Damage

Structural Assessments

- On-site Load Testing
- Material Testing & Weld Testing
- Special Inspections Per The International Building Code
- Seismic Testing Lab (AC 156, IEE 344)
- Vibration Analysis
- Design Certification, & Inspection of Fall Protection
- Design Certification, & Inspection of Suspended Access Systems
- Building Façade Inspections
- Tower Analysis
- Finite Element Analysis

Structural Forensic Analysis

- Property Loss Studies
- Construction Errors
- Inspection of Corrosion, Cracking, etc. of Structural Materials

Structural Retrofit

- Modifications to Gravity & Lateral Framing System
- Reinforcement for New Machinery
- Reinforcement for New Fall Protection System

Applied Technical Services
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Consulting Engineering

Industrial Services

We provide engineering services for tank and vessel integrity programs for companies that can have confidence in minimized unscheduled downtime, safety and environmental risks and at the same time maximize the benefits of their inspection dollars.

Services include:

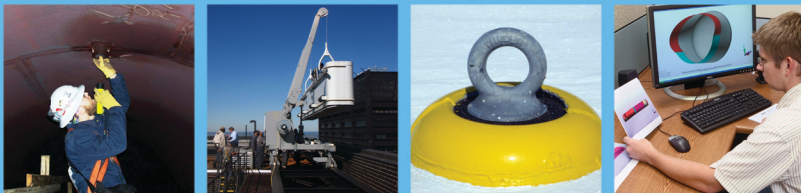
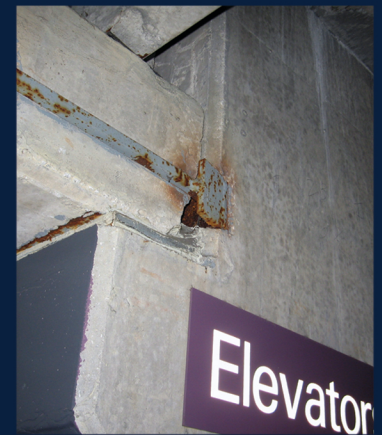
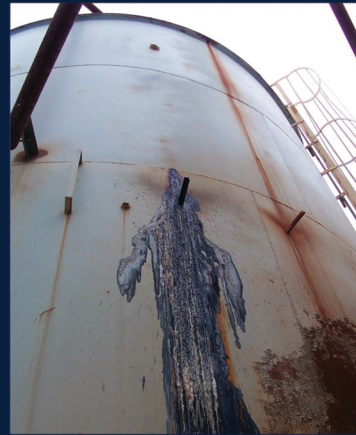
- Mechanical Integrity / Fitness-For-Service Evaluations (FFS)
- API 653 / 510 / 570 Inspection Services of Pressure Vessels, Piping, Storage Tanks, and Boilers
- NACE Coating Inspection Services
- Corrosion and Materials Engineering
- Risk Based Inspection Services
- Design and Repair Design Services
- Turn-key Outage and Project Management Services

Commercial Services

We have licensed Professional Engineers (P.E.'s) on-staff to evaluate and certify the compliance of your equipment which provides you with unmatched piece of mind. ATS stays at the forefront of building maintenance technology which benefits our landlord and property management clients by reducing risks and costs

Services Include:

- Fall Protection & Façade Access Evaluations
- OSHA Compliance Certifications
- IWCA Compliance Certifications
- Retrofits & Refurbishment
- Custom Designs
- Turn Key Projects
- Structural Evaluations
- Condition Surveys



Reliability Services

Reliability of your assets is essential to remain competitive in today's economic climate. ATS Reliability Services translates into improved safety, product quality, productivity, and efficiency.

Unplanned downtime of equipment costs industry millions of dollars in process and service interruptions each day. ATS Reliability Services will help you develop and sustain a comprehensive reliability program to prevent failure from occurring. ATS Reliability Services can significantly reduce costs by minimizing production interruptions, service losses and eliminating unnecessary repair.

Services Include:

- Preventive Maintenance (PM) program development
- Failure Modes and Effects Analysis (FMEA)
- Reliability Centered Maintenance (RCM)
- Predictive Maintenance (PdM) program development
- On-site Condition Monitoring and Vibration Analysts
- On-site Workforce Development & Training by CMRP Professionals
- Failure Analysis & Elimination / Laboratory Evaluation Services

Other Engineering Services

Our ATS mechanical, civil, structural, industrial, metallurgical and materials engineers provide complete engineering support in all areas of engineering from complex problem solving, product / process improvement, design evaluation, machine / system, failure analysis, custom machinery design and project management. Our engineers are experienced, hands-on field professionals with focus on practical problem solving.

Services Include:

- Finite Element Analysis (FEA)
- Machine Design
- Failure Analysis
- Solid Modeling (SolidWorks)
- Process Improvement
- Reverse Engineering
- Insurance Subrogation
- Expert Witness Services
- Registered Professional Engineers (NCEES)

Certifications

- API-653, API-510, and API-570
- STI SP001 Certified Inspectors
- AWS Certified Welding Inspectors
- NACE Certified Coating Inspectors
- Registered Professional Engineers