

Services We Provide

- Benchmarking
- Auditing of quality control processes
- Root-cause failure analysis and expert witness testimony for litigation support
- Expert review of operating procedures and risk management plans
- Compliance assessment and identification of variances, discrepancies, gaps, and areas of concern
- Due diligence for mergers and acquisitions (M&A)
- Customized training

Areas of Focus

Regulatory

- Codes and standards
- Jurisdictional support

Risk Management

- Risk tolerance and mitigation
- License to operate
- Quality assurance/quality control

Best Practices

- Alignment with industry benchmarking

Subject Matter Expertise

- Integrity management
- Asset lifecycle tracking industry practices and code requirements
- GIS and field data collection
- Plastic pipes and fusion
- Welding/fusion qualification
- Metallurgy
- Statistical sampling and analysis

Customized and Confidential Technical Consulting

KNOWLEDGE-BASED SERVICES ENHANCE OPERATIONAL PERFORMANCE AND REDUCE RISK

Gas Technology Institute (GTI) is an independent third party that performs work in confidence for the natural gas industry.

Leveraging our unique industry knowledge, access, proprietary databases, and models—combined with seven decades of experience—we can identify and minimize risk. We can provide expert review of operating procedures and develop custom-



ized programs to help ensure company standards and practices align with industry-accepted approaches and are in compliance with regulatory requirements.

GTI offers a unique combination of utility expertise, detailed analysis of regulatory, technical, and business issues, plus testing and technical services to deliver a comprehensive examination. We provide unbiased and credible scientific data that helps to frame the discussion and guide decision making.

Success Stories

For a large utility, GTI performed a root-cause failure analysis on plastic pipe system components and reviewed fusion procedures and processes for regulatory compliance.

“I would highly refer GTI because they have phenomenal technical expertise, are responsive and available on short notice, and are very customer-service oriented. They are excellent communicators and excellent at managing the project.”

A codes and standards review for a midwest utility assessed internal quality assurance and control programs and helped align their compliance program with state and federal requirements.

“GTI has been excellent to work with. There are several reasons why, but I’ll point out the high level of technical competence and expertise, and the project management is very efficient. The entire team is very responsive, very professional, and easy to work with. Our project manager was very good about communicating the right level of information. He didn’t overwhelm me with details, but gave me the information I needed, and delivered a fine product. GTI is on the top of my list to refer to colleagues in the industry.”



Gas Distribution and Transmission Assets

Areas of Examination

- City gate station and district regulator design, operations, maintenance, and condition
- Valve maintenance
- Damage prevention
- Transmission records, asset condition, and inspection history
- ACV/RCV status
- Capacity and pressure
- Transmission/distribution integrity management plans
- Regulatory compliance program review
- Jurisdictional determination review
- Plastic pipe materials
- Qualification of plastic fusion processes
- Atmospheric corrosion
- Cathodic protection
- SCADA and communications
- GIS systems
- Trenchless technology
- LNG facilities
- Steel pipeline materials and welding procedures
- Coatings

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For a group of utilities in the northeast, GTI developed a technical white paper outlining the fundamental principles behind a corrosion issue that was of concern to their regulator and performed a statistical analysis on the utilities' inspection data. The white paper established a common understanding of the issue and served as a starting point for a productive discussion with the regulator.

“GTI did an outstanding job on this report! It is exactly what we needed to frame the issue with our regulator. Please pass along our sincere appreciation to your principal investigator.”

A participant in GTI's Quality Audit Program, which provides natural gas utility operators with a mechanism to collaboratively audit supplier's quality management systems, also comes to GTI to analyze failures.



“GTI has strong technical expertise and a good reputation. With their qualifications, I think they employ half of the PhDs on the planet. We had a failure on a particular type of fitting and sent it to them for analysis with a short timeframe and they turned it around very fast. I like the attention to detail on their reports, and they're good with follow-up questions and explaining what is needed. They are flexible and do an excellent job of getting the work done.”

A utility located in the northeast is using GTI's Field Skills Training Program, along with a customized field tablet learning tool, to promote consistent practices and train contractor crews on both fundamental processes and company-specific requirements.

“We want to maintain a consistent approach to ensuring safety, quality, and compliance, and GTI was a natural partner to help us develop a standardized training program. They are highly skilled and very knowledgeable, and I consider them the go-to technical resource for the industry.

Because of the nature of differences in infrastructure, procedures may be different from operator to operator. The tablet learning tool was developed to help students understand where and when the procedures are more specific than core principles and to serve as a quick reference when the crew is on site.”

One west-coast company has been working with GTI on a corrosion monitoring and mitigation program, sending samples to our labs for quantitative polymerase chain reaction (qPCR) testing, and is pleased with the results.

“I find GTI responsive, timely, and collaborative, and they offer a good value. We want a rapid turnaround because we're using the results to make decisions. They've been great—they're very good at keeping us up to date, quick with turnaround, and getting reports out in a timely manner.”