

Fiber Reinforced Plastic (FRP) Asset Fitness-For-Service Inspection

ACCURATE. RELIABLE. ACTIONABLE.

With innovative capabilities specially designed for FRP inspection, Premium Inspection and Testing Group's solutions utilize state-of-the-art technologies, modeling and analysis to help you pro-actively determine your asset's fitness-for-service.



BE IN THE KNOW

Do you know the structural integrity and remaining life of your FRP assets?

Are your current inspections helping you actively manage your assets?

Are you taking advantage of the latest in cutting-edge FRP analysis and inspection methods?

- ▶ Find out the estimated remaining asset life to avoid high costs of unplanned shutdowns and premature asset replacements
- ▶ Check the fitness for service of your asset
- ▶ Get recommendations for areas to be repaired or replacement timeline
- ▶ Define a timeframe for next inspection

EXCEPTIONAL SERVICE. DELIVERED.

Focused on providing you with the information that you need to make sound, engineering-based life cycle management decisions. Premium Group has personnel that are ASNT SNT-TC-1A and API 510, 653, 570 certified and specifically trained in FRP inspection and testing to provide safe, proven and efficient process resulting in accurate, reliable and actionable data on the condition of your asset, including modeling and analysis performed in partnership with the FRP reliability experts at UT Comp Inc.

ASK US ABOUT

How Premium Group can help you maximize the life of your FRP assets through use of advanced ultrasonic measurements and the latest analytical methods.

- ▶ Usable on new and in-service equipment – non-intrusive, no internal inspection required
- ▶ No need to shut down plant or take asset out of service for inspection
- ▶ Inspection can be performed on ground level or from existing structure – no building of scaffolding required
- ▶ Reporting on estimated remaining service life and rate of deterioration
- ▶ Cost-effective and fast Return on Investment

APPLICATIONS		TECHNOLOGIES/METHODS OFFERED	REGULATORY COMPLIANCE
Municipal	Water and wastewater piping and tanks	Specialized FRP Inspection with UT Comp modeling & analysis including Visual Inspection, Digital Radiography, and Ultrasonic Testing	Testing methodology supports compliance to regulations required by 29 CFR 1910.119 (j) Process Safety Management when FRP assets are covered under Appendix A.
Chemical Processing Mining, Refining, Pulp & Paper	Processing piping and tanks, duct work, scrubbers, ventilation systems, pressure vessels		
Transportation	Tank trucks, railway tanks, boat hulls		
Wind Energy	Wind turbine production materials		
Aerospace	Commercial and military aircraft materials		

COMPARISON OF FRP INSPECTION SOLUTIONS

Method	Equipment Operating	Maintains Structural Integrity	Internal Structural Changes	Safety Factor Updated	Repeatable	Reliable	Minimizes Confined Space Entry	Inspect Time
FRP Inspection with UT Comp	Capable	Capable	Capable	Capable	Capable	Capable	Capable	15-60 min
Visual Inspection	Capable	Capable	Possibly Capable	Possibly Capable	Capable	Capable	Capable	1-4 hours
Destructive Testing	Not Capable	Not Capable	Possibly Capable	Capable	Capable	Capable	Not Capable	2 days
Acoustic Emission	Not Capable	Capable	Possibly Capable	Not Capable	Possibly Capable	Possibly Capable	Capable	1 day
Digital Radiography	Capable	Capable	Possibly Capable	Not Capable	Capable	Capable	Capable	1-4 hours
Thermography	Capable	Capable	Possibly Capable	Possibly Capable	Possibly Capable	Possibly Capable	Capable	15-60 min
Ultrasonic Thickness Testing	Capable	Capable	Possibly Capable	Possibly Capable	Capable	Capable	Capable	15-60 min

■ Capable
 ■ Possibly Capable
 ■ Not Capable
 * Times may vary based on asset size and condition.



PREMIUM
INSPECTION & TESTING GROUP

14950 Heathrow Forest Parkway
Suite 370
Houston, TX 77032
(281) 310-5415
info@pitinc.com
www.pitinc.com



CAPITOL
ULTRASONICS
A PREMIUM GROUP COMPANY

2354 S. Acadian Thruway
Suites A-D
Baton Rouge, LA 70808
(225) 357-3671
www.capitolut.com



QCTL
TESTING LABORATORY
A PREMIUM GROUP COMPANY

21112 Scott Park Road
Davenport, Iowa 52807
(563) 391-8500 or (800) 391-8501
testlab1@att.net
www.testlab1.com