

**A&G Industrial Services, Inc.**

**508-591-8400**

# Piping and Tank Repair & Refurbishment

*Global Solutions for Fiber  
Reinforced Polymer Systems*

INSPECTION

DESIGN

ENGINEERING

INSTALLATION

REPAIR



## Piping and Tank Repair & Refurbishment

Since 1998, **A&G Industrial Services** has been designing and installing reliable and cost-effective Fiber Reinforced Polymer (FRP) systems for piping, tanks, and fatigued structures. These infrastructure repairs and upgrades are often installed while your system in-service or with minimal of down-time. A&G's staff of inspectors, engineers, and application experts are ready to assist your team by offering a full-range of services from inspection, design, repair, engineering and complete turn-key installation. We are professionally committed to protecting your assets with our experience and our state-of-the-art carbon fiber wrap systems. Let our team of specialists work collaboratively to ensure you get the best solutions to protect your process and assets by the correction and prevention of corrosion, fatigue, and erosion with the use of carbon fiber composites.

### INSPECTION

Our advanced inspection techniques and data analysis help to intelligently identify and rank the severity of at-risk areas within your system. A & G engineers utilize data to determine root cause, define failure populations and identify repair/replacement strategies to manage your areas before they fail.

### DESIGN

Each FRP repair or FRP replacement design is project specific and based on the extent of your preexisting corrosion, life cycle forecast, budget, and outage windows. A & G has conducted years of Research and development with FRP Systems and Carbon Fiber Wraps and has successfully designed and installed a variety of repair and full replacements for piping, tanks and fatigued structures, often times while the systems are still in operation.

*If every crew was as awesome as this one my life would be a cake walk. Your guys do not mess around. Extremely professional, very safety conscious and the housekeeping is out of this world. We really enjoyed having A&G onsite, and look forward to working with you again in the future.*

**Sam Ward**  
**Maintenance Technician**  
**Exelon Power**



## ENGINEERING

Let our staff engineers create a project specific design for your aging piping, tanks, and concrete structures. Our engineers are skilled in investigation support, application, material development & testing and structural reinforcement calculations. A & G's engineers will provide your team with a system vulnerability analysis, identification of potential failures, proven engineered repair/replacement options, durations and estimated installation costs based on your design life.

## INSTALLATION

Since 1998, A&G Industrial Services has been installing reliable and cost-effective Fiber Reinforced Polymer (FRP) systems for piping, tanks, and fatigued structures. These infrastructure repairs and upgrades are often installed while your system in-service or with minimal of down-time.

- Turn-Key
- Online - Offline - Outage Scheduled
- All team members are certified in each installation process and are authorized via our standard QC program
- 30+ Year Life Extensions for your systems
- Internal repairs can be done without excavation
- Encapsulates existing coatings including asbestos containing materials, lead, coal tar or other mastics
- Our uniquely designed installation processes can be utilized on multiple arrays including flat surfaces, elbows, Ts or nipples and on multiple sizes both in vertical and horizontal orientation
- Eliminates emergency repair costs

## REPAIR

- Emergency Response capabilities
- External repairs can be installed on live leaks
- Internal repairs can be done without excavation
- Less downtime than traditional repairs
- Repair cracks, leaks, holes, dents, thin areas and fatigued structures

*A&G Industrial Services provided the highest quality, most cost-effective solution to our plant coatings needs.*

*They are at the top of our list of contractors to provide tank lining and nuclear service level coatings applications and maintenance.*

*This company provided a turnkey package that covered quality control, planning, work package development and implementation.*

*The work crew and supervision were first class, highly skilled, and accommodating to plant restrictions and requirements.*

*Most of all they are a pleasure to work with.*

**Andrew Patrzalek**  
**Engineer**  
**Ginna Nuclear**  
**Power Plant**

**Industries Served**

Power Generation  
Utilities  
Petrochemical  
Gas & Oil  
Mining  
Municipal  
Waste Water  
Nuclear Generation  
Pulp & Paper  
Manufacturing

**A&G Experience****Piping Systems**

Cooling Tower Piping  
Circulating Water Piping  
Gate Valve Piping  
Natural Gas Lines  
Oil, Petroleum, Crude Lines  
Electrical Feeder Conduit  
Prestressed Concrete Pipes  
Ductal Iron Pipes  
Heat Exchangers

**Tanks**

Chemical Storage  
Water Storage  
Concrete Tanks  
Fiber Glass Tanks  
Wood Tanks  
Silos  
Cyclones  
Ballast  
Secondary Containments

**Structural Repairs**

Bridge Decks & Piers  
Concrete or Steel Columns  
Pilings Above & Below Water  
Wind Load Reinforcement  
Floor & Wall Reinforcement  
Support Beam Reinforcement  
Parking Garage Decks  
Seismic Reinforcement  
Standards For Nonmetallic  
Historical Reinforcement  
Stack Reinforcements

**R&D Testing**

High Pressure Piping System Designs  
ASME PCC2  
ASME N-871 Code Case  
ASME B31  
ISO 24817  
DOT  
API  
CSA Z662

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