

PIPING SYSTEMS

Carbon Fiber Engineered Solutions has developed a life extension and repair program for aging piping and other infrastructure. Our engineered systems are designed to be installed internally or externally above or below ground and in vertical or horizontal configurations. External repairs can be performed on live systems, eliminating costly shutdowns and interrupted service. Using both proven and innovative techniques our professional crews install engineered solutions designed to restore system reliability and extend the life of your system.

Our engineered carbon fiber solution is the only composite carbon fiber piping system that meets ASME PCC-2 Repair of Pressure Equipment and Piping requirements and has been successfully installed on a myriad of piping systems throughout the country.

Water	Piping	Stainless Steel	Nipples
Sewer	Penstocks	Plastic	Elbows
Oil	Conduit	Cast Iron	Flanges
Gases	Culverts	Cement	Barrels
Chemicals	Carbon Steel	Tees	

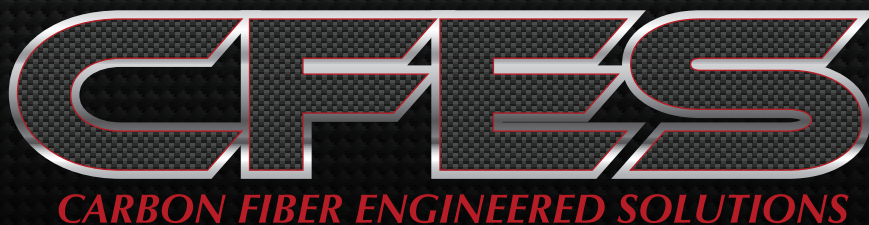
PROBLEM:

A large coastal power plant's low pressure salt water cooling system was nearing end of life. The existing coating had failed and several repairs attempts were made but none were successful. Large holes were present throughout the system and much of the piping was below minimum wall.



SOLUTION:

Carbon Fiber Engineered Solutions installed our engineered system within the window of a planned shutdown. Our solution restored the design parameters of the system, stopped the leaks, returned system reliability and added 30+ years of maintenance free life.



CARBON FIBER ENGINEERED SOLUTIONS

9 Main Street, Suite 401

Sutton, MA 01590

774-773-9873

www.CarbonFiberES.com

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ADVANTAGES:

- Increases system reliability and availability
- A faster cost effective alternative for pipe replacement or traditional barrel repairs
- No shutdown or hot work required for installation
- Creates a corrosion resistant pipe around your existing feeder that is designed for 1,000 psi.
- Adds 30+ year of maintenance free life to your system
- Eliminates emergency repairs
- Eliminates gas and oil leaks
- Eliminates environmental remediation and reporting
- Encapsulates existing coatings including asbestos, lead, coal tar or other mastics
- Our uniquely designed processes conforms to any shape and can be utilized on various pipe configurations including elbows, Ts, nipples, welds or straight sections
- Used to stiffen piping in excavations allowing for support removal/replacement
- Our composite systems are installed over mechanical clamps and traditional barrel repairs
- Minimal change in weight of your existing system

