



HYDRAWRAP
STRUCTURAL COMPOSITE REPAIR SYSTEM



HYDRALine
Versatile Epoxy Based Products

Market:

Power & Utilities

Challenge:

Four risers that were part of a cooling water system at a power plant were showing signs of aging. Two were supply lines and two were return lines. There was extensive exterior corrosion and interior damage that was a result of frequent temperature changes. These risers were 72" in diameter and the damage was at the soil-to-air transition where the steel pipe met the bar-wrapped concrete pipe. The facility knew they needed to take action quickly when a leak was discovered.

Engineered Solution:

HydraWrap was chosen as it offers a structural repair that protects against corrosion. HydraLine was selected to be applied prior to the HydraWrap to address the divots in the surface.



Scope:

The exterior was to be repaired on all four risers and two of the risers were to be repaired internally. First, the surface was grit blasted and pressure washed. Then a rust inhibitor was applied. Next, polyethylene fibers were added to HydraLine to thicken the epoxy into a malleable paste. This was then molded into the surface to restore the contour of the pipe.

HydraTech Engineered Products, LLC

HydraTech Field Services, LLC

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HydraWrap fabric was then saturated with epoxy. Eight layers were applied to the interior repairs and four layers were applied to the exterior repairs. Finally, the exterior received a weatherproof coating. The entire installation process only took four days.

Solution:

HydraLine provided a smooth uniform surface so that HydraWrap could properly be applied and bring new life to this aging system. These four risers have no leaks, new strength, and a layer of protection against corrosion. The process was less expensive and more time efficient than replacement.



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