



CARBONSEAL™
INDUSTRIAL COMPOSITE SYSTEMS
STEEL PIPE PROJECT



STEEL RISER WASHINGTON PIPE REPAIR & STRENGTHENING

12 of the steel riser pipes that were part of the circulating cooling system at this oil refinery showed signs of below-grade leaking, and required repair.



PROBLEM

- » The steel riser pipes had corroded severely due to exposure to moisture and oxygen, resulting in pitting and leaking
- » The pipes were 3/4-inch thick and could no longer maintain a rating of 60psi
- » The plant wanted to avoid any downtime while repairing the 12 risers



INSTALLATION

- » The pipes were excavated to a depth of 10 feet
- » An abrasive blast was used to clean the pipes to white metal
- » Voids and pits were filled with an
- » Carbon fabric was saturated and wrapped around each pipe



CONCLUSION

- » HJ3's CarbonSeal™ system saved the client 50% over replacement or alternative repairs
- » The carbon fiber system was impermeable to pressurized water at a 200psi rating
- » The installation was completed within one week with no downtime!

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