



## **CHPP-Composite Helical Pipe Pile** 250 ft. Guyed Tower

A 250 ft. guyed tower was installed in Creole, Louisiana. The tower is located in a coastal area and the primary constrain was a high water table.

The total ultimate compression load at the tower base was 600 KIP. Drilled shaft and driven piles were considered but the Composite Helical Pipe Pile was selected as the best choice for this project providing a cost effective installation.

A cluster of 10 helical piles was installed to a depth of 70 ft. with a 12,000 ft-lb ultimate installing torque. The piles were filled with concrete providing additional strength.

When hurricane Rita passed through the area, many structures were destroyed or severely damaged but this tower remained standing and operational.



Cluster of CHPP helical piles installed for the Tower foundation



Concrete pad poured over the CHPP piles



Completed pad

