



## **CHPP-Composite Helical Pipe Pile** 3-Leg 300 ft. SST (Self Support Tower)

A microwave tower was destroyed by hurricanes Katrina and Rita in Port Sulfur, LA. New foundations were required as general practice is to not reuse any foundations from a failed tower.

The ultimate load per tower leg was 2,000 KIPS with a 2:1 safety factor. Drilled shaft and driven “H” piles were considered.

The Composite Helical Pipe Pile was selected as the best choice for this project over drilled shaft or driven “H” pile by providing the lowest total installed cost.

A total of 20 helical piles were installed at each of the three tower legs to a depth of 32ft. and to 20,000 ft-lbs. Ultimate installing torque. The piles were filled with concrete for increased strength.



Lightweight and maneuverable equipment installed helical piles



New tower installed on the 60 CHPP helical piles



The three CHPP helical piles installed



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