

GeoDesign was the geotechnical consultant for a new gas-fired turbine power plant owned by Siemens Power Corp. The power plant was constructed adjacent to the operating United Illuminating facility on the west side of Bridgeport Harbor.

We completed subsurface investigations and special inspections during drilled shaft installations. We performed borings, cone penetration tests, seismic cone tests and installed observation wells. Soil testing was performed for corrosive analysis (due to steel piles) and rock was tested for unconfined compressive strength.

Drilled shafts of 24, 30 and 60-inch diameters were drilled through soils and socketed into rock. We observed the completion of six load tests on the drilled shafts to confirm that they met design criteria.



*Drilled shaft being installed*



*Load testing a drilled shaft*

*Preparation of foundations*

