

CASE STUDY

Sewaran 7 Power Plant

Woodbridge, New Jersey

HISTORY

The coastline of New Jersey is dotted with industrial parks and is home to many utility company power plants. These power plants are situated close to water because they need water for cooling the condensers that produce high quality steam that runs the turbines.

PROBLEM

New Jersey was reminded of the vulnerability of the location of such power plants when Hurricane Sandy swept through the eastern seaboard, wreaking havoc with the tides and causing major flooding.

SOLUTION

One of several flood mitigation projects that Nucor Skyline has contributed to was the Sewaran 7 Power Plant retaining wall in Woodbridge, NJ. This plant, owned and operated by PSEG Fossil, is situated very close to the shoreline, and needed protection from the storm tide surges.

Nucor Skyline provided up to 19,000 tons of Z-shaped sheet piles, 18" x .625 OD pipe piles and fabricated bent caps for this large construction job on the coast.

The sheet piles were driven to an elevation of 20 feet above sea level to protect the facility from the rising tides.

Many of the products used for this project were produced domestically, which saved the customer time, as well as money.

**PROJECT PARTNERS**Owner

PSEG Fossil (subsidiary of PSEG Power) – Woodbridge, NJ

General Contractor

American Pile – Branchburg, NJ

Ferreira Construction – Branchburg, NJ

PRODUCTS

Z-shaped Sheet Piles: 4,520 tons

Fabricated Bent Cap: 18 x .625 – 14,000 tons

PROJECT TIME FRAME

March 2016 through July 2018