



Geopier SRT® New Madrid Power Plant

New Madrid, Missouri

Geopier SRT® installed to stabilize repeatedly failing slopes along the banks of a raw water pond

Description: The New Madrid Power Plant includes a raw water pond, which stores water for use in plant operations and is approximately 23 acres in size. The pond gathers water from the nearby Mississippi River, which is then retained by a rectangular-shaped levee surrounding the pond. A series of three slope failures occurred over several years along a 1,000-foot long stretch of the levee's embankment, which consists of clayey fill. These failures were likely a result of rapid draw-down of the pond, and involved multiple failed attempts to repair the slopes with earthwork re-grading operations.

Geopier Solution: The slide was fixed using the Geopier SRT® method, providing the New Madrid Power Plant with a long-term slope repair option and an overall cost savings of \$1,000,000. The solution involved minimal re-grading, and six rows of Plate Piles, each three inches in width and ranging from 10 to 14 feet in length. Production rates varied from 90 to 192 Plate Piles per day; a total of 1500 Plate Piles were installed in 12 days.



PROJECT HIGHLIGHTS

Project:

New Madrid Power Plant

System:

Geopier SRT® system

Installation:

1500 Plate Piles