



THE ASCE PITTSBURGH SECTION GEO-INSTITUTE CHAPTER Presents

MICROPILE APPLICATION THREE MILE ISLAND

Presented by: Mr. James Pease, P.E., M.ASCE

Attendance at this technical presentation qualifies participants for 1.0 PDH

Two steam generators were scheduled to be replaced at the Three Mile Island (TMI) Nuclear Generating Station. The generators were to be delivered from Port Deposit, Maryland to the site south of Harrisburg, PA on specially designed transport vehicles. The transport configuration was 153 feet long, 24 feet high and 17.5 feet wide with a total weight of 825 tons. Two bridges along the required haul route were inadequate to support the loads from the transports. The first bridge was an old stone arch bridge that was only one lane wide. At the second bridge the transport had to be reconfigured and the generators had to be temporarily supported by gantry cranes. A fast-track micropile design and construction was performed in the complex geologic setting to provide the added support at both bridges so that the transport could safely travel across the bridges. Mr. Pease will give a presentation on the geotechnical design, construction of the micropiles and the results of load testing performed.

Mr. Pease, P.E. is a Senior Project Manager in Hayward Baker's Palmyra, Pennsylvania office and was the design engineer for the Three Mile Island Project. Mr. Pease has a Bachelors Degree in Civil Engineering from Syracuse University and is a member to ASCE. Mr. Pease has 20 years of experience in soil improvement with extensive experience in micropiles, compaction grouting, vibro piers, and stone columns. Mr. Pease also has extensive experience in the application of ground improvement methods to karst terrain and has also worked on numerous forensic geotechnical engineering projects.

DINNER RESERVATIONS ARE REQUIRED – PLEASE RSVP BY Friday, November 4, 2011

Date: Thursday November 10, 2011

**Time: 6:00 PM Open Bar
7:00 PM Dinner
8:00 PM Presentation**

**Place: Gaetano's Restaurant
1617 Banksville Road
Pittsburgh, PA 15216
(412) 343-6640**

**Cost: \$25 for members of the ASCE
Pittsburgh Section
\$35 for Non-members
Free for Student members**

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