Application Profile

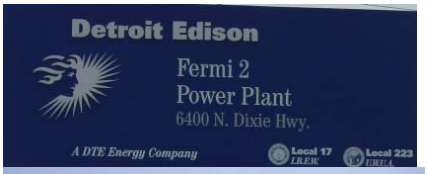
Project: Detroit Edison, Fermi 2 Power Plant, DTE Energy® Company
Marley Class Cooling Tower, Detroit, MI

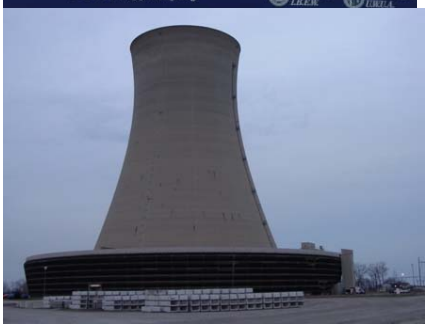
Polyurea Applicator: IWC, Detroit, MI
Inspection / Project Monitoring by Primeaux Associates LLC,
& Polyurea Coating Systems, Inc.

Polyurea System Applied: REA 303, V-tac Group, Inc., Michigan

Substrate / Area: Concrete Water Inlet Room, approx 600 ft^2

Date: November, 2004





The water inlet room on the upper edge for the Marley Cooling tower at the Fermi 2 nuclear power plant was experiencing some erosion issues due to the 250,000 gal/ min water inlet from the 3-foot diameter pipe. Steel panels had been used to help protect the concrete structure but tend to erode away under the force or water and solids and vibrations encountered. The REA 303 systems was chosen due to the excellent abrasion resistance properties and the high resilience and movement capabilities of the material.

Prior to installation of the REA 303 system, the concrete was cleaned / prepared. This work involved the use of heated HP WC (high pressure water cleaning) exposing that profile that was present. ProntoPrime™, a 2-part polyurethane primer system was then roller applied. The REA 303 system was then installed at a minimum average thickness of 100 mils (2.5 mm). Termination bars were imbedded at the edges of the application to insure permanent installation of the coating system under the high flow rate of water that can lead to edge lifting. Ambient temperature during this work was 40°F, 4.5°C.

During the 18 month inspection and service at the site following the installation work, the applied REA 303 system was found to be in excellent condition with no delamination from the concrete or any erosion.

PDA MEMBER

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