

## Goreway Station power plant

**Location**

Brampton, Ontario

**General contractor**

Sithe Global

**Engineering firm**

SNC Lavalin

**Distributor**

Multiurethanes Ltd.

**Product used**

Azo-Grout™ 443 by  
Azon



**Figure 1** Goreway Station power plant under construction.

**Situation**

The Goreway Station power plant is one of Ontario's biggest construction projects. Engineering, procurement and construction of the plant will cost more than \$1 billion with construction scheduled to be complete by the end of 2008. The natural gas-fired 875 MW power plant project will be Canada's largest combined cycle power station and Ontario's first new major power station to be built in 25 years.<sup>1</sup>

During construction, the power plant was experiencing leaking concrete construction joints within various underground chambers and control rooms, as well as leaking underground utility ductwork for electrical service lines for plant maintenance operations.

**Action plan**

Multiurethanes was asked to assist SNC by devising methods to quickly and permanently resolve water infiltration problems at the new power plant. Multiurethanes submitted a plan of polyurethane injection utilizing Azo-Grout™ 443.

Once the plan was approved, specialized injection equipment and experienced technical personnel were provided on the job site during the injection process.

**About the product**

Azo-Grout™ 443 by Azon is a medium viscosity, water-activated hydrophobic polyurethane grout that is used in various concrete construction applications to permanently resolve common water infiltration problems.

**Outcome**

Water inflow problems were successfully overcome through systematic injection of concrete structural joints and through sealing around the utility ductwork associated with the underground vaults.

<sup>1</sup>Versace, Vince. "Electrifying project shocks all." Daily Commercial News and Construction Record online. 11 July 2007. 9 January 2008 <<http://www.dcnonl.com/article/id23578>>.

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**Figure 2** Preparing to enter the leaking manhole vaults during the injection process.



**Figure 3** Close-up of the injection site.

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