

Nuclear Waste Storage Facility Building #3 Pickering, Ontario



Pre-assembled carpet roll removed from flatbed and positioned inside Building 3

Alberici Constructors, Ltd. was awarded the contract by Ontario Power Generation (OPG) to engineer, procure and construct a 6,000 square metre nuclear waste storage facility at the OPG nuclear facility in Pickering, Ontario. The design required that the building store approximately 450 dry fuel storage containers individually weighing 70 tons. Each container housed 384 fuel bundles, for a total capacity of over 184,000 fuel bundles.

The building is a steel framed structure and required 300mm thick concrete wall panels to protect the surrounding area from radiation. Salit Steel pro-

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Pre-assembled mat rolled into position to accommodate poured-in-place floor construction for supporting dry storage containers

vided 300 tonnes of steel that was placed in the floor slab to support the nuclear waste containers. Salit worked with the contractor and engineer, NA Engineering Associates Inc. to apply 75 tonnes of pre-assembled reinforcement in the carpet roll method for the building floor.

The Pickering Waste Management Facility consists of structures designed to safely store used nuclear fuel in Dry Storage Containers (DSCs) and reactor re-tubing components in Dry Storage Modules (DSMs).

