Aecon Constructors

# Portlands Energy Project

**Client:**

Ontario Power Generation Inc.
(OPG) and TransCanada Corp.

**Engineer:**

SNC

**Joint Venture Partners:**

**Contract Value:**

$60 Million

**Project Location:**

Toronto, Ontario
Canada

**Project Description:**

The Portland's Energy Centre (PEC) will operate as a peaking station, producing power when its demand is at its highest. Two gas fired turbines will produce the heat to power the steam turbine, which will generate 550 megawatts of electricity, enough to provide power for 500,000 homes. PEC will also have the capability to operate as a district heating plant supplying steam and district heating for about three million square feet of residential or commercial buildings.

Aecon Constructors was awarded 3 separate contracts toalling $60 million to complete the Anchor Bolts Down civil components of the project. Aecon's work consists of dredging of existing outlet channel for cooling water discharge, installation of 96" cooling water intake and discharge pipe through the site and construction of underground utilities and major foundations. As part of the major foundations, Aecon is constructing an intake channel and pumphouse which includes excavation to a 16m depth below lake level and placement of 3500 m3 of concrete.

Aecon's work started in September, 2006 and will be complete by end of August, 2007. Peak man power for this phase of the work was about 250 workers.

**Major Quantities**

| | |
|---|---|
| - Concrete | 15,000 m3 |
| - 96" CWP | 300 lm |
| - Dredge Outlet | 2,200 m3 |
| - Excavation | 21,000 m3 |
| - Underground Piping | 6,000 lm |
| - Intake Cofferdam | 3,000 m2 |
| - Backfill Site | 25,000 m3 |

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