

## Kapuskasing and Nipigon Enhanced Combined Cycle Power Plant Expansion



**Location:** Nipigon, Ontario - Kapuskasing, Ontario

**Client:** TransCanada Power

**Gryphon Contact:** Dominic Au

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**Project Summary** Expansion of two TransCanada Power (TCP) Enhanced Combined-Cycle Power Plants to incorporate one additional once through steam generator (OTSG) and associated steam and feedwater lines for each plant to increase plant power output. The Nipigon Power Plant feedwater and condensate systems were also modified extensively to accommodate the new operating conditions.

**Project Services** Gryphon provided the following Services:

- Evaluate existing process system to determine modifications required.
- System process design, plant layout, civil/structural design, and detail design of mechanical systems, piping systems, and control system upgrade.
- Detail design of the steam turbine bypass system including the steam energy dispersion device.
- Complete procurement services for all equipment and long delivery piping materials.
- Prepare bid documents, bid evaluation, and technical coordination of construction contract.



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