



Kirkland Lake Peaking Power Plant

Location: Kirkland Lake, Ontario, Canada

Client: AECON Industrial

Gryphon Contact: Dominic Au

Project Summary Installation of a new peaking power plant (peaker plant) in the existing Kirkland Lake Generating Station.

The peaker plant consists of one GE LM2500 Plus gas turbine generator, gas turbine inlet air heating system, 13.8 kV generator output electrical system, 115 kV substation and overhead lines, 115 kV system intertie protection/communications, a new plant building, and other plant auxiliaries.

Project Services Acting as the engineer of an engineering, procurement, and construction (EPC) team, Gryphon provided all preliminary engineering and detailed engineering for the implementation of the peaker plant project. Detailed engineering included mechanical systems design, electrical systems design, relay co-ordination studies, ground potential rise study, equipment specifications, instrumentation specifications, control systems integration, and civil/structural design.

Gryphon's other duties include providing technical assistance for the coordination with Hydro One, and application for IESO (Independent Electricity System Operator of Ontario) connection assessment.



Gryphon International Engineering Services Inc.

80 King Street, Suite 404, St. Catharines, Ontario, Canada L2R 7G1

Phone: (905) 984-8383 Fax: (905) 984-8394

e-mail: gryphon@gryphoneng.com www.gryphoneng.com