



Port Colborne Central Utilities Plant Installation

Location: Port Colborne, Ontario, Canada

Client: Jungbunzlauer

Gryphon Contact: Dominic Au

Project Summary

Construction of a new central utilities plant including a 10 MW cogeneration plant consisting of two Solar Turbines Taurus 60 gas turbine generators, HRSGs with supplemental firing; water supply pumping station; demineralized water treatment plant; and compressed air plant. The project also involved a complete in-plant 13.8 kV distribution system which is connected to the utility through a 13.8 KV to 27.6 KV transformer.

This central utilities plant supplies all utilities including power, heating and process steam, and compressed air for the entire new citric acid production facility. High reliability for these services is essential to prevent interruption of the production process.

Project Services

Gryphon initially carried out a feasibility study to evaluate best options for supplying power and steam to the new citric acid production facility.

Subsequently, Gryphon provided detailed engineering for the construction of the central utilities plant including:

- Mechanical and piping systems design.
- Civil/structural, building, and architectural design.
- Technical specifications, bid evaluations, and contract coordination for major equipment.
- Technical specifications and technical coordination for construction contracts.
- Technical assistance for seeking permits and approvals including environmental permits, building permits, piping system registration, and electrical system compliance.
- Technical assistance to the electrical engineering, procurement, and construction contractor for the design of the plant electrical system, unit and interconnection protection relay co-ordination studies and settings, preparation of the application for the IESO 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

1273-0909