



Brampton Cogeneration Energy Plant

Location: Brampton, Ontario, Canada

Client: Brampton Cogeneration Inc.

Gryphon Contact: Dominic Au

Project Summary

The new energy plant is located in the Algonquin Peel (AP) existing municipal refuse incinerator facility located in Brampton, Ontario. The existing plant has five municipal solid waste fired incinerators, each generating about 20,000 lb/hr of steam at 600 psig / 650°F, and one 9.3 MW steam turbine generator. The new facility supplies steam from the existing incinerators and a new natural gas fired boiler to a nearby paper mill.

This project involved the installation of a new natural gas fired package boiler producing a maximum of 150,000 lb/hr of 250 psig saturated steam, and auxiliaries including steam pressure reduction/desuperheating station, deaerator, boiler feedwater pumps, condensate pumps, condensate tank, water treatment system, condensate polishing system, plant control system, and electrical auxiliaries. The project also involved the installation of 2000 feet of mostly underground steam and condensate lines along the Bramalea Road for supplying steam to the Norampac Paper Mill.

Project Services

Gryphon provided the following Services:

- Detailed engineering for the complete project, including equipment layout, piping design, building modifications, access platforms, and equipment foundation design.
- Detailed design for medium and low voltage electrical systems.
- Preparation of equipment bid specifications and bid review for all major equipment and plant auxiliaries.
- Technical coordination with the installation contractors.
- Detailed design for a system of steam supply and condensate lines, approximately 2000 feet each in length, from the energy plant to the paper mill. The pipelines consist mostly of direct buried pre-insulated piping plus a 200 feet span pipe bridge and 450 feet of major road crossing.



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