

**Project** 3M London Steam Piping System Review and Registration

**Location** London, Ontario, Canada

**Client** 3M Canada

**Gryphon Contact** Denis Pakkala

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**Project Summary** The 3M Canada manufacturing plant, located in London, Ontario, includes three natural gas fired saturated steam boilers for providing process steam for steam heating in the manufacturing plant. The boilers are installed in a dedicated powerhouse building and the steam distribution and condensate return piping is run throughout the manufacturing plant.

**Project Services** Gryphon provided engineering services to review and assess the existing steam and condensate system. Gryphon prepared the application for TSSA registration of the complete steam and condensate piping systems in the Powerhouse and throughout the manufacturing plant. Gryphon's engineering services included:

- Field check and preparation of as built system flow diagrams for the application to TSSA for piping system registration.
- Preparation of cost estimate of total project cost for 3M budgeting purposes and schedule to complete TSSA registration.
- Review of piping system safety valve set points and capacity, pipe supports, and review of piping system for CSA B51 and ASME B31.1 code compliance.
- Review of piping material and wall thickness tests.
- Stress analysis of large bore steam mains piping systems as required
- Preparation of TSSA application.



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