

# miriton project profile

## SNC Lavalin ProFac

## 1200 Vanier Boiler Plant

Ottawa, Ontario

### Project Statistics

Description:	Repair and Upgrade
Project budget	\$800,000

### Responsibilities

The 1200 Vanier complex in Ottawa relies on a central steam plant for its domestic hot water, heating water and steam throughout the campus. This twelve hundred boiler horsepower central heating plant consists of four high-pressure steam boilers that required replacement of two units and the correction of a number of issues that severely limited the operation of the steam plant.

Services Provided:

- ▣ Mechanical and electrical design and engineering.
- ▣ Site investigations and post tender support.



### Project Objectives

To replace equipment that had come to the end of its service life.

To determine the cause of on-going problems with the plant then correct.

To upgrade the boiler plant to one that is reliable, efficient and modern.



### Challenges, Solutions and Successes

Because the plant was to remain in operation throughout the year, a detailed plan of implementation was developed with the client. This plan included modifying and relocating a steam header to allow just one boiler to function during the summer, pre-purchasing of steam boilers and systems, and the careful planning of short duration shut-downs.

The existing single flue system with double stack had never operated correctly despite numerous attempts to correct its draft problems. Miriton designed a solution and an implementation strategy for the flue replacement and reconfiguration.

A detailed controls strategy was developed and refined in consultation with the operators and manufacturers. The control system now gives the operators fully automated control where none had existed before.

The design and installation of the new boiler system, the new chimney system and a central boiler control system were all carried out in time for the heating season and are operating successfully without limitation.