



**Project Title:** Point Lepreau Nuclear Generating Station

**Client:** NB Power

## Project Description:

GEMTEC Limited has been involved with geotechnical assessment and geotechnical consultation work at the Point Lepreau Generating Station (PLGS) since 1989.

Our senior geotechnical specialist, Daryl P. DeMerchant, also served as the senior geotechnical engineer for all geotechnical and geological investigations for the 600 MW station prior to original construction. This work included:

- An assessment of bearing capacity for all structures including the reactor building
- Determining elastic constants for rock foundations
- Determining stabilization methods for rock excavations
- Assessing the cooling water tunnels
- Assessing seismic considerations and long-term geologic stability of the site

Since that time GEMTEC has been involved in numerous geotechnical and hydrogeological assessments for various infrastructure at the site as well as site design work. These assessments have included:

- Construction of new office and training building
- Service building extension
- Closure of Point Lepreau landfill
- Waste water lagoon
- Cannister site
- Radio active waste management area
- Retaining wall
- Fire fighting training area

GEMTEC has also provided construction services for various projects at the PLGS including; the re-design of the access for the Waste Management area; the Waste Water Lagoon reconstruction and the Sewage Treatment Retrofit.