



## WINNIPEG OFFICE:

### **SNC-LAVALIN INC. (SLI)**

148 Nature Park Way  
Winnipeg, Manitoba R3P 0X7

Telephone: (204) 786-8080 Fax: (204) 786-7934 E-mail: [jeff.rempel@snclavalin.com](mailto:jeff.rempel@snclavalin.com)

Website: <http://www.snclavalin.com>

ENTITY: Corporation (Member of the SNC-LAVALIN Group)

## OVERVIEW

SNC-LAVALIN INC. (SLI) is a subsidiary of SNC-LAVALIN GROUP INC., one of the ten largest engineering-construction firms in the world.

The SLI Winnipeg office provides expertise in a broad range of projects in Industrial, Agri-Industrial, Mining, Petro-Chemical, Institutional, Utility, Power and Commercial and can draw on the full technical expertise and other resources which reside within the SNC-Lavalin Group. In addition to planning, engineering and construction and project management for projects, SNC-Lavalin Capital Inc. and SNC-Lavalin Equity for project financing, are available to SLI clients.

## KEY PERSONNEL

J. Rempel, P. Eng.  
Vice President, Operations and Projects, Manitoba and Saskatchewan, Power

S. Tormey, P. Eng.  
Head Electrical, Commercial, Industrial, Mining, Instrumentation & Control, Power and Infrastructure, Winnipeg

R. Bean, P. Eng.  
Head of Civil / Structural Engineering, Winnipeg

R. Vercaigne, P. Eng.  
Head Agri-Industrial, Winnipeg

S. Norsworthy, P. Eng.  
Head Building Services, Winnipeg

## DESCRIPTION OF SERVICES

- Pre-Feasibility / Feasibility Studies
- Preliminary / Final Design
- Procurement Services
- Supervision / Inspection of Construction
- Construction Management
- Project Management
- Start-Up Operations / Commissioning
- Process Evaluation and Selection
- Design-Build / EPCM
- Project Financing

## FIELDS OF SPECIALIZATION

- Agriculture Engineering
- Building Science
- Electrical Engineering
- Energy
- Environmental
- Geotechnical & Hydrotechnical
- Industrial
- Mechanical Engineering
- Municipal
- Water Supply and Treatment
- Wastewater Management
- Planning
- Project Management
- Structural Engineering
- Water Resources Engineering & Management
- Instrumentation Engineering

## **TYPICAL PROJECT EXPERIENCE & CAPABILITY**

### Agri-Industrial

Food processing plants, seed plants, storage facilities, slaughter plants, oil seed crushing, distilleries, bio-diesel and ethanol plants.

### Building Science

Building design services and facility condition assessments. Complete coverage of all applicable disciplines including structural, foundation, mechanical, electrical and construction services including project management.

### Geotechnical

State-of the art geotechnical and geoenvironmental consulting services. Soil and rock mechanics, industrial waste management, liners and subsurface barriers, landfills, slope stability, foundation design and testing, geohazards and geomorphology, hydrogeologic modelling, geochemical laboratory, construction engineering, infrastructure design, materials testing, and design/build services.

### Electrical Engineering

Power and distribution system design covering high voltage systems (>100kV) down to low voltage distribution. A full spectrum of electrical engineering services are offered to satisfy all power supply needs for new or renovated facilities. Specialized expertise to support all industrial facility requirements. Additional services include power system analysis, protection systems including coordination, lightning protection, grounding, lighting, fire alarm and emergency power. In-house capability via computerized specialty software systems to perform detailed and comprehensive analysis of grounding installations, system protection, coordination, short circuit, arc-flash, load flow and system capacity.

### Energy

Detailed engineering capability for power utility systems including generation, power transmission and distribution including all associated support systems.

### Industrial

Detailed analysis and multi-disciplinary engineering capability to support all primary heavy industry facilities ranging from green field developments to existing plant betterment and rehabilitation projects.

### Instrumentation and Control

A full spectrum of electrical engineering services for instrumentation and control systems for new or renovated industrial, institutional, municipal and utility installations. Design capabilities include PLC, DCS and SCADA systems, primary instrument selection, control network development, equipment specifications, special applications including burner management and relay control, safety interlock systems and similar mission critical applications. Services also include detailed installation and wiring requirement development, application software development, system factory acceptance testing, system commissioning and start-up.

### Mechanical Engineering

Detailed engineering services to support boiler installations, heating, ventilation and cooling systems, energy recovery systems, compressed air systems, fan systems, pumping systems, conveying systems and performance/condition analysis for large machinery. Comprehensive piping design capabilities for heavy industrial applications including pipe stress analysis for new and retrofit installations.

### Mining Engineering

Specialized engineering capability to satisfy all facets of mine development and retrofit including facility layout, materials handling, crushing, milling and grinding, flotation, refinery, smelting, and processing.

### Municipal

Water supply and treatment, wastewater collection and treatment, and wastewater management design for main process and associated systems in utility and industrial installations, urban hydraulics and stormwater management, floodwater and pumpworks.

### Planning

Feasibility studies, cost estimates, analysis and scheduling for a wide variety of projects.

### Project Management / Construction Services

Project management services as a stand alone offering or as part of a comprehensive project undertaking utilizing current tools for cost control, scheduling and quality assurance. Comprehensive construction management services that employs proven methods and systems to maintain schedule, budget, installation quality and conformance to project requirements and objectives.

### Structural Engineering

Complete structural engineering services tailored to heavy industry requirements for foundations, structural steel, tank and equipment supports, industrial platforms, fall arrest systems and other specialized installations. Condition analysis of existing systems and development of remediation techniques to satisfy specific application circumstances.

### Water Resources Engineering & Management

Hydrotechnical engineering (hydrological and hydraulic studies), storm water management, drainage studies, flood management and inundation studies, erosion and sedimentation studies, scour studies, bridge hydraulics, dam breach studies, eco-hydraulics, and water quality management.