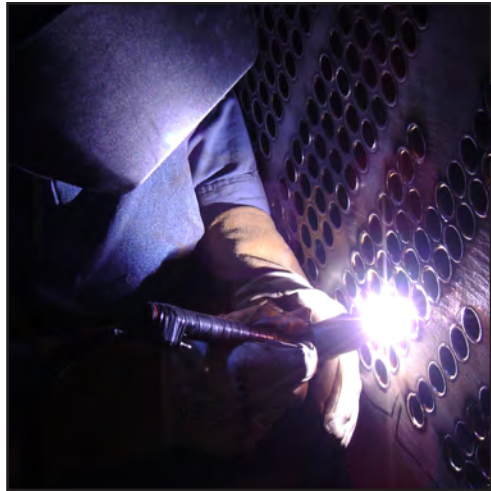


SNC-LAVALIN'S SECTORS OF EXPERTISE

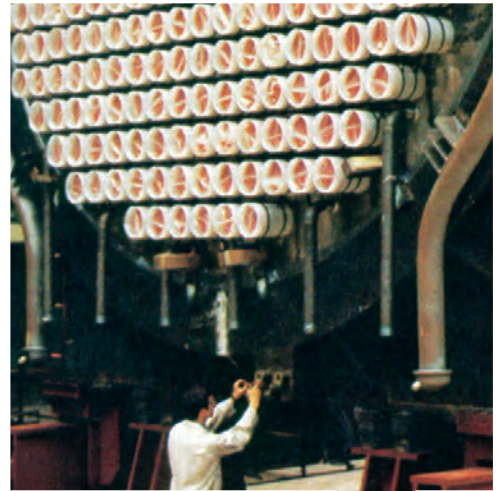
- Agriculture
- Agrifood
- Biopharmaceuticals
- Chemicals and Petroleum
- Environment
- Facilities and Operations Management
- Industrial and Manufacturing
- Infrastructure
- Mining and Metallurgy

Nuclear

- Pulp and Paper
- Power
- Telecommunications



NUCLEAR



NUCLEAR
PARTNERS
WORLDWIDE



SNC•LAVALIN
Nuclear

The Group of Companies

Founded in 1911, SNC-Lavalin is renowned for its world-class technical expertise, project and construction management, procurement and financial arrangement services. All services are delivered locally to clients across the world through its extensive international network of offices, partners and suppliers. SNC-Lavalin Nuclear, formerly CANATOM, has an extensive depth of expertise in Engineering, Procurement, and Construction (EPC) of the Balance of Plant (BOP) for new power stations, as well as major refurbishments, nuclear waste management, decommissioning and other major support services for the nuclear industry. SNC-Lavalin Nuclear is a wholly owned subsidiary of SNC-Lavalin Group.

- **Design Engineering** • **Project & Construction Management**
- **Procurement Services** • **Waste Management & Decommissioning**



Patrick Lamarre
President and CEO



Power for the Future

For over 40 years, SNC-Lavalin has brought forth the skills and experience to the Nuclear Industry synonymous with perfection. Worldwide, the company has contributed significantly to the progress and development of providing safe, reliable, cost effective, and environmentally-friendly energy to both commercial and residential users worldwide.

SNC-Lavalin understands the growing importance and value of nuclear power here at the dawn of the 21st century and is committed to advancing the world's technological growth sustainability for centuries to come.

Project & Construction Management

SNC-Lavalin has proven that it provides principal-developed and enhanced skills in project and construction management for the execution of its nuclear projects. Utilizing both common and unique experiences, SNC-Lavalin staff, with their unprecedented knowledge and understanding cover all aspects of management; from pre-project planning, through to project implementation, construction, and commissioning, to the post-contract completion phase.

SNC-Lavalin staff maturity and international experience results in harmonious and synergetic relationships between the client, the designer, the contractor and the workforce.

Recent Major Projects

BRUCE A UNITS 1 & 2 RESTART BALANCE OF PLANT REFURBISHMENT (2009)

SNC-Lavalin, together with its joint venture partner, were awarded the EPC contract for six aspects of the refurbishment:

- Mechanical Pumphouse
- Mechanical Reactor Building
- Condenser Replacement
- Instrumentation Replacement Upgrades
- DCS Upgrades & Programming
- Auxiliary Service Building

The project consisted of 76 individual scopes which included all disciplines of engineering from civil, mechanical and process to instrumentation & controls (I&C) and electrical.

BRUCE A UNITS 1 & 2 RESTART STEAM GENERATOR REPLACEMENTS EPC (2009)

SNC-Lavalin was awarded the EPC contract to replace the steam generators in Units 1 & 2.

The project involved the relocation of four steam drums each weighing 250 tonnes and the replacement of 16 old steam generators with new ones, each weighing 100 tonnes.

This was a first of its kind steam generator replacement for a CANDU-type reactor in the world. SNC-Lavalin developed an optimal removal and replacement methodology that allows the steam drum to be left in the reactor building during the process.

Major Achievements

SNC-Lavalin reached 1,000,000 person-hours without a lost-time injury on this project.

8 Steam Generators were replaced in Unit 1 in 72 days.

PEBBLE BED MODULAR REACTOR DEMO PLANT (2010)

The PBMR is a High Temperature Reactor (HTR), with a closed cycle, gas turbine power conversion system. The PBMR comprises mainly of a steel pressure vessel which holds the enriched uranium dioxide fuel encapsulated in graphite spheres. The system is cooled with helium and heat is converted into electricity through a turbine. Construction of the 165MW demonstration power plant is scheduled for completion in 2010. SNC-Lavalin is the EPCM sub-contractor to PBMR (PTY) Ltd.

GENTILLY-2 REFURBISHMENT (2010)

SNC-Lavalin was awarded the contract to manage the pre-project planning and estimating phase as part of an integrated team with Hydro Quebec for the preparation of the 2010 Refurbishment.



Proven Commitment

SNC-Lavalin Nuclear is the largest private sector nuclear engineering group in Canada and has been providing a complete range of services to the industry across the globe since 1966.

Internationally, SNC-Lavalin has worked for clients in the USA, South America, Asia, South Africa, and Europe.

SNC-Lavalin provides its clients with a complete range of engineering, procurement, construction management and support services to meet the challenges of any nuclear project.

As a wholly-owned subsidiary of SNC-Lavalin Group, SNC-Lavalin Nuclear has the resources and capabilities that extend to meet the needs of all their clients.

Operations Support to Nuclear Facilities

SNC-Lavalin is more than a major Project Management and EPC company. It is a center of excellence providing full service support to operating nuclear facilities, including waste management, and nuclear power plants. Through its shared resources with the SNC-Lavalin Group of Companies, SNC-Lavalin Nuclear is able to maintain a full suite of specialized experts. These resources are made available to serve the needs of the nuclear business on a dedicated basis.

SNC-Lavalin has a significant number of employees who have worked for extended periods at various nuclear facilities. As a result, they have a true understanding of the people, the processes and the culture so they can easily integrate their expertise and products with that of their customers needs.

Areas of support include:

Life extension	Outage support
Stress analysis	Process optimization
Piping design and modification	Optimization of power output
Seismic analysis	Obsolescence issues
Project management	General procurement
Training	

Major Refurbishments

SNC-Lavalin has developed the skills and experience necessary to undertake major refurbishment projects. The two most notable projects are the Bruce A Units 1 & 2 Restart Balance of Plant (BOP) Work and the Steam Generator Replacements of Bruce A Units 1 & 2.

SNC-Lavalin's mission is to continuously deliver projects with the highest degree of success. Refurbishment projects of significant size and scope are no exception.

To ensure the success of large complex refurbishment projects, SNC-Lavalin has acquired some of the best talent in the industry with very specialized skills.



Project Experience

Canadian Projects

Hydro Quebec - Gentilly-2

- Engineering of Reactor and Service Building
- BOP Engineering and Supply

New Brunswick Power - Point Lepreau

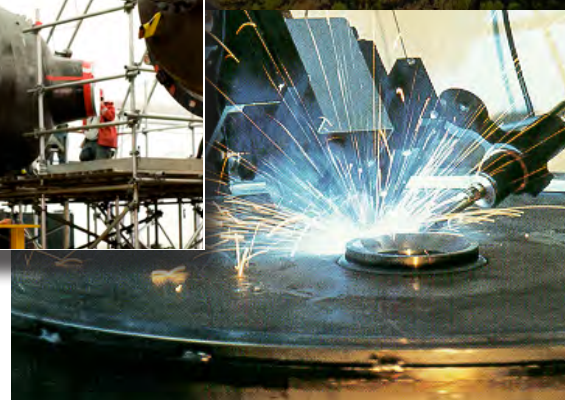
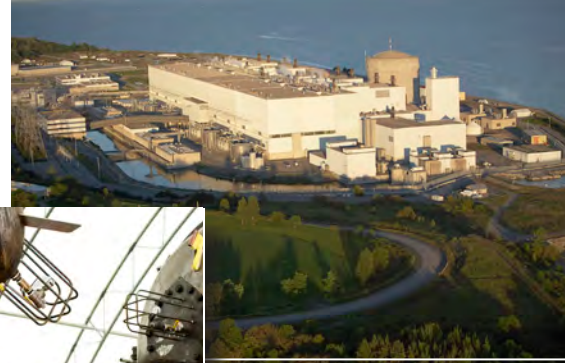
- Engineering of Reactor and Service Building
- BOP Engineering and Supply

Ontario Power Generation - Darlington and Pickering

- Electrical System Expansion
- Environmental Qualification (EQ) Closure & Component Replacement

Bruce Power

- Steam Generator Replacements (SGR) at Bruce A Units 1 & 2 (EPC)
- Balance of Plant (BOP) for Restart of Units 1 & 2
- Refurbishment Feasibility Study



The depth of SNC-Lavalin's experience has been key to achieving quality and ensuring safety.



International Projects

Qinshan 1 & 2 (China)

- BNSP Civil and Structural Design
- NSSS and BNSP Construction Management and Equipment Supply

Wolsong 1-4 (Korea)

- BNSP and BOP Civil and Structural Design
- Construction Management and Equipment Supply

Embalse-Cordoba (Argentina)

- Engineering of Reactor and Service Building

Cernavoda 1 & 2 (Romania)

- Equipment Supply
- Project Management, BNSP Design

KANUPP (Pakistan)

- BOP Civil and Structural Design

RAPP 1 & 2 (India)

- BOP Civil and Structural Design

Pebble Bed Modular Reactor Demonstration Plant (South Africa)

- Design and Project/Construction Management

Specialty Projects

Sudbury Neutrino Observatory

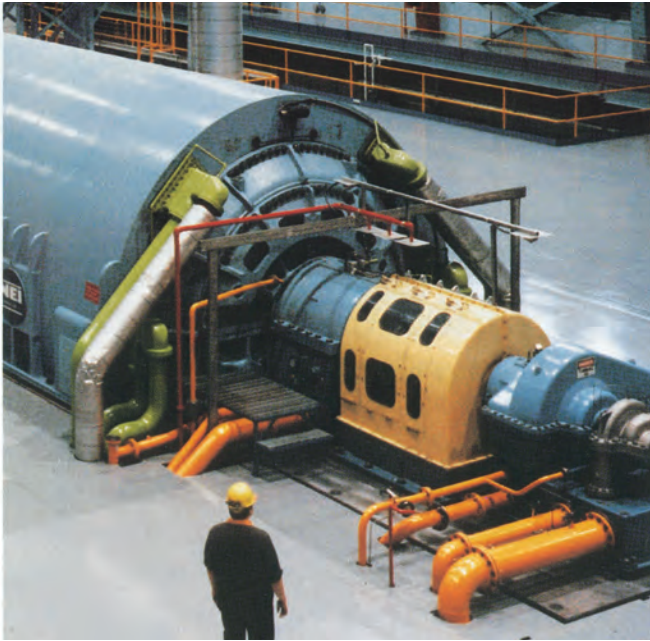
- Design and Project/Construction Management

Ontario Power Generation

- In-Station Used Fuel Dry Storage

Bruce Power

- Bruce Used Fuel Dry Storage (BUFDS)



Design Engineering

Developed from decades of experience, SNC-Lavalin has undertaken major design responsibilities for many of the nuclear power plants found within Canada as well as around the world.

Working exclusively in the nuclear and related fields, SNC-Lavalin specializes in civil and structural design, the nuclear island, balance of nuclear steam plant, the turbine island and auxiliary systems. SNC-Lavalin has thousands of person-years of experience in the design of new builds and modifications, the implementation of improvements, and the execution of life extension projects at existing plants.

SNC-Lavalin draws from its vast pool of civil, mechanical, and electrical designers with varying specialties including site investigation, seismic analysis, hydraulic analysis, probabilities, risk assessment, reliability, cost and economic impact, and environmental concerns.

The Electrical, Instrumentation and Control and Human Factors group at SNC-Lavalin specialize in various facets of CANDU station designs and core individuals have acquired experience in other nuclear facilities from research reactors to PWR and BWR types as well as VVER and RBMK reactor types. The highly skilled staff skills include nuclear station electrical distribution, specifications for electrical equipment, full scope electrical analysis, safety related and other instrumentation, environmental qualification of electrical equipment and circuits, and Human Factor Analysis to mention a few.

The SNC-Lavalin metrology department uses state of the art, high precision laser measurement tools to obtain 3D images of equipment and plants. Using a variety of spatial analysis techniques, equipment is certified, adjusted, aligned, repositioned and machined to an accuracy of up to 0.005". Additionally, 3D models and subsequent animations are created to investigate interferences and optimize transportation and rigging paths.

Quality Assurance

Developed through decades of experience, SNC-Lavalin has designed a meticulous Quality Assurance program which provides the safety and care that exemplifies the excellence that is expected from SNC-Lavalin. This program covers all work associated with a nuclear facility, from conceptual design through operations to decommissioning. It ensures that the multiple phases of work required to design, construct, commission and operate a nuclear power plant, together with the requirement to maximize public safety, are continuously considered.

As such, SNC-Lavalin has actively participated in the development of national standards for the Canadian Nuclear Industry for more than 40 years. Working in close collaboration with the Canadian Standards Association and the Canadian Nuclear Association, SNC-Lavalin staff continues to further develop and update these standards.

Furthermore, throughout our involvement in many projects in the USA and other parts of the world, we have acquired significant knowledge and experience in the setting up and maintenance of quality programs that comply with multiple regulatory and jurisdictional requirements.

SNC-Lavalin's Quality Assurance department has conducted quality audits of numerous nuclear plants, consulting engineering organizations, and equipment manufacturers.

SNC-Lavalin quality program is ISO 9001:2000 Registered.

Accepted to CSA N286.2 (Design) and CSA Z299.1, OGP
Accepted to CSA N286.1 (Procurement), CSA N286.2 (Design),
CSA N286.3 (Construction) by Bruce Power for the Balance of Plant Project.

Our staff maturity and international experience delivers a harmonious and synergetic relationship with the client, the designer, the contractor and the work force.



Waste Management & Decommissioning

The management of radioactive waste is a vital activity associated with operating and decommissioning of nuclear power reactors. With the recent establishment of the Canadian based Nuclear Waste Management Organization (NWMO), along with the research and development of nuclear waste management and remediation, the Canadian waste management industry has begun to progress waste at an accelerated rate. SNC-Lavalin has led the Canadian industry in Waste Management and continues to lead the nuclear industry in nuclear waste remediation and management projects.

SNC-Lavalin staff have designed both wet and dry types of waste storage facilities and have conducted studies regarding thermal conductivity, water migration, and canister emplacement for a repository site.



Procurement Services

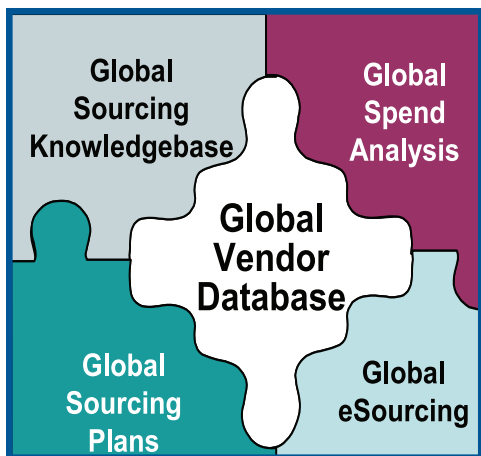
With extensive experience, SNC-Lavalin's procurement team provides a wide array of skills and capabilities such as supplier qualification, purchasing, expediting and transportation to site, QA (including quality surveillance) and procurement contract administration.

SNC-Lavalin's a Global Procurement Group of senior procurement professionals are dedicated to maximizing procurement performance across all SNC-Lavalin's projects, through the constant development and company-wide dissemination of:

- Global sourcing strategies;
- State-of-the-art procurement systems;
- Project procurement operational excellence.

The Global Procurement Group possesses in-depth expertise in all main sourcing categories required in an EPC project (structural steel, concrete, electrical equipment, vessels, heat exchangers, piping, valves, pumps, automation, etc.) on a worldwide basis.

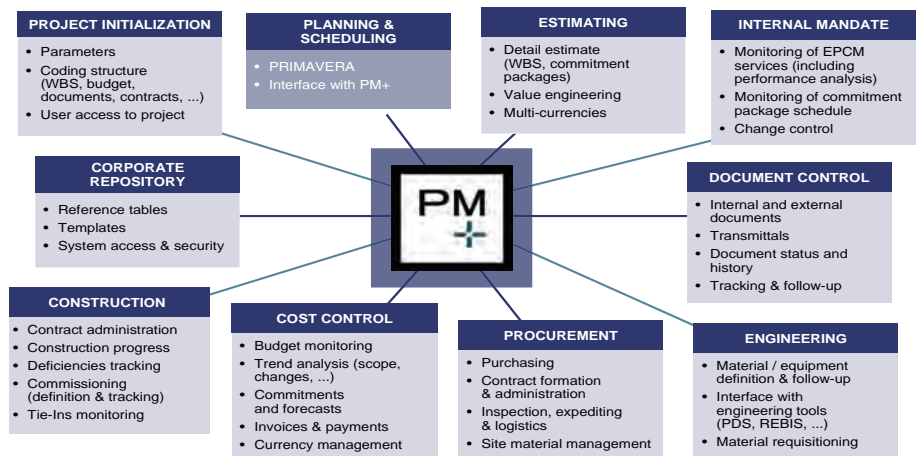
SNC-Lavalin's Global Procurement System (GPS) is a comprehensive tool that provides SNC-Lavalin with the unique ability to fully optimize the sourcing process by providing a fully digital, web-based environment.



PM+

Using a state-of-the-art integrated Project Management System to generate status reports, graphics, trends and forecasts in all major areas of project control, SNC-Lavalin performs with an efficiency which surpasses its competition. Our system utilizes a computerized, on-line, interactive database to provide managers with the latest information on all aspects of the project. Users access the system via work stations connected to a local area network.

The SNC-Lavalin Project Management system handles all aspects of engineering management, document control, procurement and materials management, construction management, estimating and cost control. In addition to its standard features, the system architecture provides flexibility which allows us to accommodate requirements specific to a particular project and the specific needs of each client.





SNC•LAVALIN
Nuclear

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WE CARE



NOUS VEILLONS

SNC-Lavalin's WE CARE Statement reinforces four core values which have formed the cornerstone of our culture for nearly 100 years, and which remain key factors in our ability to achieve growth year after year. WE CARE values are related to the wellbeing of our employees, health and safety, the environment and sustainable development of the communities where we live and work worldwide.

OUR EMPLOYEES

We care about our employees, their personal growth, career development and general well being. Our employees are our most important asset, and we are committed to providing a positive working environment, benefits packages and programs that are competitive with leading companies in the industry.

HEALTH AND SAFETY

We care about the health and safety of employees, the individuals who work under our supervision, and about the safety of the end users of our expertise. We strive to be a world leader in safety not only because this gives us a competitive advantage but, more importantly, because we value our people.

COMMUNITIES

We take our responsibility as a global citizen seriously, and care about the host communities where our employees live and work. Our goal is to ensure lasting benefits are felt in these communities long after we leave a project site.

ENVIRONMENT

We care about the environment, and conduct our business in an environmentally responsible and sustainable manner. We take care to protect the local flora and fauna when we build a project. When we can, we go a step further and work to improve these environments.

WE CARE values are continually supported and promoted through programs and initiatives developed at the corporate, business unit/division, project team and individual employee levels.