

Quang-Tu Le, P.Eng.

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Education & Training

B.A.Sc.Mechanical Engineering, Laval University, Québec,P.Q.,1975

Completion of all Financial Courses of Certificate in Financial Management, H.E.C.,
Montreal University ,1996

Professional Training : Design of Gas Turbine Combined Cycle and Cogeneration
Systems - Sponsored by Thermoflow Inc., Houston, Texas, USA, 1998

Utilization of Thermoflow softwares (GT PRO, GT MASTER, PDE-Plant Design
Expert,PEACE-Plant Engineering and Construction Estimator) in the development
of the power plants with the Gas Turbine. Sudbury,MA, USA,2001

Languages

English, French,Vietnamese

Professional memberships

Corporation of Engineers of Quebec (OIQ)

Canadian Pulp and Paper Association -Technical Section- (CPPA)

Expertise summary

- Has a total of 20 years experience in Cogent Project Development, in Consulting engineering for Power Generation and Pulp and Paper industry.
- Has strong expertise in project definition, heat balance models and performance analysis in the area of conventional power plant and combined cycle power plant.
- Experience in project financing and economic analysis (pro formas NPV, IRR calculations, sensitivity analysis).
- Position held: design engineer, chief of discipline, project engineer, project manager, sales manager, engineering manager, vice-president.
- Has associated with following companies: Innergex Inc., CHI Energy Inc (now owned by ENEL), Westinghouse Canada Inc., Bechtel-Lavalin Inc.,Sandwell Inc., N.L.K. Consultants, H.A. Simons Ltd., Abitibi Inc.(Former Donohue Inc)., Kruger Inc.

Professional experience

INNERGEX INC.- Montreal, Canada (2000-2003)

Vice-president, Thermal Energy

Responsible for the development, design and construction of the cogeneration plants (conventional Rankine cycle and combined cycle). Innergex is a promoter, owner and operator of many hydropower plants in Quebec and Ontario. The company is owned by private and public pension funds and an affiliated investment company of a Canadian public bank.

Participation in the bid preparation for a 250 MW Combined Cycle power plant with Atco Power (Calgary) and Kruger Inc. as partners.

Preparation many feasibility studies of cogen gas fired power projects for various industries in Canada and USA.

CHI ENERGY INC.-Montreal,Quebec (1997-1999)

Engineering Manager

Served as the chief technical officer for CHI Energy Inc..CHI Energy Inc , acquired by ENEL in 2002. was a developer, owner, and operator of industrial energy facilities. CHI Energy provides an array of energy services, such as electricity, steam, hot water etc. to energy-intensive industries like Pulp & Paper, Chemical, Refining and Petrochemical.

Preparation many feasibility and economic studies of the cogeneration projects for Donohue Inc. 's mills (Amos, Baie-Comeau, Clermont, Matane) St-Laurent Paperboard Inc. (La Tuque) Alliance Inc. (Donacona), Abitibi-Consolidated Inc.(Grand Falls) Stone-Container Inc.(Portage-du Fort) etc..Most of these potential projects could be carried-out by an « energy partnership » with the off-balanced sheet financing.

Participation in the development of the St-Felicien biomass cogen plant. This power plant of 24 MW capacity was putted in service in winter 2001.The electricity is sold to Quebec-Hydro under a 25 year contract and a portion of steam is sold to the Alliance sawmill for lumber drying purposes.

WESTINGHOUSE CANADA INC. Montreal,Quebec.(1996-1997)

Sales manager

Representing the company for the sales of Power Generation Equipment (Gas Turbine, Steam Turbine) and Energy Services (Generators, Hydroelectric Power Plant, Transformers, Rectifiers, Exciters etc.).

SANDWELL INC. Montreal, Quebec.(1995-1996)

Project Engineer

Participation in the preparation of EPC proposal on the turnkey basis for a cogent plant of 35MW with new Package Boilers for Domtar Red Rock Inc.,Ontario.

NLK CONSULTINGS INC. Montreal, Quebec(1994-1995)

Project Engineer

Customer: Malette Kraft Pulp & Power Inc., Smooth Rocks Fall, Ontario.

Preparation a feasibility study to upgrade no 1 Recovery Boiler by replacing the existing Economizer with a new longflow, low odor design, replacing the existing wet-bottom Electrostatic Precipitator (ESP) with a modern, dry-bottom, high efficiency ESP and by installing the new black liquor concentrators to eliminate the existing direct contact cyclone evaporator.

Customer: Abitibi Price Inc., Fort Williams, Ontario.

Preparation a capital cost estimate for the installation of a new Package Boiler producing 150,000 lb/hr of steam at 160 psig &500 deg F and modification of existing steam, feedwater, natural gas, hydrogen gas piping system for a new 500 tons per day (TPD) Bleaching Chemical Thermo Mechanic Pulp (BCTMP) plant.

Client : Spruce Falls Inc., Kapuskasing,Ontario.

Preparation a budget construction for the expansion of existing thermo-mechanical pulp (TMP) plant by installing a new screening line and by modifying the existing reject refining system.

Client : Rainy Rivers Forest Product, Kenora, Ontario.

Detailed engineering for a hydrosulfite bleach plant of the 400 TPD groundwood mill.

Client : Zerotech Technologies Inc., Vancouver, British Columbia.

Preparation a capital cost estimate for the installation of a zero effluent treatment plant at Kruger Deinking plant, Bromptonville, Quebec.

MONTREAL WASTER TREATMENT PLANT, Montreal, Quebec.(1991-1994)

Plant Engineer

Responsible for process, mechanical and piping design of development and maintenance projects.

BECHTEL-LAVALIN INC

Design Engineer

Client: .- ALUMAX LAURELCO SMELTER LTD, Deschambeault, Quebec.(1990-1991)

Responsible for process and mechanical design of the liquid pitch facility and heat transfer medium system. The liquid pitch system (400 deg F & 100 psig) and the thermal oil system (600 deg F & 300 psig) were design according to ANSI/ASME B31.3 Chemical and Petroleum Refinery Piping.

H.A.SIMONS LTD (1989-1990)

Project Engineer

Client : Domtar Inc.,Lebel sur Quévillon, Quebec.

Preparation a study to improve Chlorine and Sulfur Dioxide (SO₂) feeding system for the Kraft mill. The storage tanks, evaporators and piping system were modified according to Chlorine Institute Standards.

Client : Scott Paper Ltd., Crabtree, Quebec.

Responsible for process and mechanical design, supervision and coordination with all disciplines on the detailed engineering for the 165 TPD deinking plant.

SANDWELL INC. (1987-1988)

Project Engineer

Quebec & Ontario Paper Inc., Baie Commeau, Quebec.

Preparation a construction budget and detailed engineering for modifications in the groundwood high yield sulfite pulping and Opco department. Steam, water and pulp piping were modified under ASME B31.1 code.

Domtar Inc., Lebel sur Quevillon, Quebec.

Preparation a capital cost estimate study for an 800 TPD brownstock screening system.

Domtar Inc., Red Rock, Ontario.

Preparation a capital cost estimate study on a turkey basis for an 800 TPD brown stock washing line.

CIP Inc., La Tuque, Quebec.

Preparation a capital cost estimate study on a turkey basis for an 850 TPD bleach plant.

Bowater Mersey Paper co., Liverpool, Nova Scotia.

Preparation the technical specifications for a new TMP plant including main refining system, heat recovery unit and reject refining system.

Domtar Inc., Donacona, Quebec.

Preparation capital cost estimates study for the construction of a primary effluent treatment system.

Reed Inc., Quebec, Quebec.

Preparation the Mechanical and Piping Standards for the design of a 600 TPD CTMP plant. The pipe thickness, components, welding and installation procedures were prepared according to ASME B31.1 and ASTM Standards.

Steelco Inc. Lachine, Quebec.

Responsible for the piping design of a new pickling facility.

KRUGER INC. , Bromptonville, Quebec.(1986-1987)

Plant Engineer

Assisted mill personal during construction and start-up of a new TMP plant consisting of three refining lines having 600 TPD capacity with heat recovery unit.

ROCHE & ASSOCIATES INC., Quebec, Quebec.(1984-1986)

Chief of Discipline

Responsible for Mechanical and Piping design in the construction of two Waste water treatment plants for the Communate Urban of Quebec.

DONOHUE INC.. St-Felicien, Quebec.(1979-1984)

Mill Engineer

Preparation the economic study and supervise the construction of a Cogent plant of 30 MW capacity. The plant was started in 1981, has a 25% return on investment. Also responsible for the design and installation of various process equipment in different areas in the mill: Digester, Bleach plant, Washing, Chemical unloading, Steam Plant- Concentrator, Boilers etc.

QUEBEC INDUSTRIAL RESEARCH CENTRE, Quebec, (1976-1979)

Design Engineer

Design the Woodworking Machines used by Small and Medium Manufactures. Also responsible for analysis and evaluation of various process using the wood waste for combustion and thermal energy in the Pulp and Paper industry.

LAVAL UNIVERSITY, Quebec, Quebec.(1975-1976)

Research Engineer

Analysis and evaluation the performance of an experimental model of Aerolian turbine- vertical type- in the wind tunnel.

Technical publications

Author of “ Cogeneration at Donohue St-Félicien Pulp Mill. “ published in Forest and Paper magazine - January 1983