

Joanne G. Phillips, M.Eng., P.Eng.

243 Lake Willow Road S.E., Calgary, Alberta, T2J 3T9, (403) 278-4597

Diversified project management and engineering experience in the environmental area, in the oil and gas and electric utility industries and self-employment. Principal strengths include excellent organizational abilities and communication skills, supported by perseverance in problem solving. Committed to the continual monitoring of new technology, business trends and opportunities through formal education, industry contacts and informal research.

Environmental Engineering Managed environmental compliance audit program including scheduling, hiring of consultants, ensuring protocols current, etc. (TransAlta, 1997/'98) Participated on compliance audit team and as lead auditor (TransAlta, 1998). Responsible for data collection and manipulation for the corporate Greenhouse Gas Action Plan (TransAlta, 1997/'98). Responsible for compiling various internal and external corporate environmental reports including Canadian Electricity Association's Environmental Commitment and Responsibility Program (TransAlta, 1997/'98). Experienced at researching environmental technologies from a technological and economic perspective in both an academic and corporate setting (M.Eng. course projects, 1994 – '98, TransAlta, 1997, various projects for Alberta Research Council, 2001 – ongoing).

Project Management Administered a wide variety of projects (with respect to project type, cost and design involvement). Coordinated a range of personnel, including engineers, drafters, consultants, specialists, purchasers, suppliers and inspectors. Having been presented with a specific problem or situation, have a strong ability to investigate the situation thoroughly, and describe in an organized fashion, the problem, the investigation undertaken, the actions being recommended to solve the problem and the reasons for recommending those actions (M.Eng. course projects, 1994 – '98, Contract work for TransAlta, 1999).

Leadership Skills Supervised an engineer, earth scientist and industrial hygienist (TransAlta, 1997/'98). Lead Auditor for environmental compliance audit of hydro generation facility (TransAlta, 1998). Former crew chief for a motorcycle roadracing team (1998/'89). Chairman of the Board of Vertigo Mystery Theatre (second largest theatre in Calgary by number of subscribers) (2001 – 2003) during its \$7.8 million capital campaign for its move from the Calgary Science Centre to below the Calgary Tower.

Electrical Engineering Designed a wide variety of electrical engineering projects such as PLC Systems (Shell, 1986/'87), RTU systems for pipeline SCADA (Shell, 1987/'88), and 138/25kV substations (TransAlta, 1990 – '93, High Time Industries, various projects since 2000). Involved in projects at all stages from preliminary study stage to project implementation; including design, cost estimating, drawing preparation, construction supervision and start-up. Designed and had CSA-approved a residential/commercial decorative wall sconce (Northern Lights Manufacturing Inc. (NLMI), 1998/'99). Preparing Operating Procedures for Interconnection Agreements (AltaLink, 2001 – present).

Operations Engineering Designed piping and environmental projects related to the day-to-day operations of oil fields, gas plants and compressor stations. Undertook special projects at these facilities as required (Shell, 1988 – '90).

Change Manager Committed to continual learning through formal education and personal research. Completed Master of Engineering while working full time (1994 – 1998). Pursuing PhD (Fall 2003 – current).

Self-starter Started NLMI, a company that designs and manufactures light fixtures from scratch and took it to the point of having a wall sconce CSA and UL approved within a year (NLMI, 1998/'99). The sconce was featured in the Fall/Winter 1999 Better Homes and Gardens® Kitchen & Bath Products Guide and NLMI was one of only ten manufacturers to be represented in the Calgary Robinson Lighting Spec. Room.

Education

University of Alberta Provisional Candidate for Doctor of Philosophy in Mechanical Engineering, Specialization in Project Management

Courses completed:

- Personality and Management
- Project Management Techniques
- Technology Commercialization
- Knowledge Management

Thesis topic: Energy Technology Foresight: Future Value of Environmental Technology Acceptance

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University of Calgary Master of Engineering, Specialization in Engineering for the Environment

Courses completed:

- Risk Analysis, Assessment and Management
- Sustainable Development
- Environmental Engineering Aspects of Air Pollution
- Advanced Environmental Law
- Environmental Science for Engineers
- Combustion Processes
- Environmental Aspects of Power Generation
- Research Project: Environmental Management Tools (2 credits)
- Environmentally Compliant Heavy Engine Fuels

University of Manitoba Bachelor of Science in Electrical Engineering

TransAlta Utilities Corporation

- Arthur D. Little Environmental, Health, and Safety Auditing: Fundamentals, Skills and Techniques
- Environmental Citizenship
- Various computer courses
- Power Reading
- Utility Pricing

Shell Canada Limited

- Short Course on Variable Speed Drives
- Production Fundamentals
- WHMIS - Introduction
- Aerial Rescue Methods
- H₂S Alive
- St. John's Ambulance First Aid
- Cardiopulmonary Resuscitation
- Driver Training

Memberships

- Association of Professional Engineers, Geologists and Geophysicists of Alberta
- Board of Directors – EnerGreen Foundation
- Canadian Institute of Energy

Publications

Lead author Paper No. 98-ICE-152 ICE-Vol. 31-3, 1998 Fall Technical Conference ASME 1998, "The Use of Dimethyl Ether as a Transportation Fuel – A Canadian Perspective", co-authors Graham T. Reader and Ian J. Potter.

Awards

Natural Sciences and Engineering Research Council (NSERC) Industrial Postgraduate Scholarship commencing September 1, 2003. The Award is for a 12-month period and was renewed for a second 12-month period as a result of satisfactory performance and continued support of the sponsoring company. The sponsoring company is the Alberta Research Council.

Employers

Jay Gee Projects Ltd. (March 2000 – present)

Vice President - Engineering – For company information see: www.jgpl.net

Clients of Jay Gee Projects Ltd. have included:

- TransAlta Corporation (business plan preparation, project management)
- High Time Industries Ltd. (138/25 kV substation design, quality management program)
- Alberta Research Council (reports on Emission Credit Trading and Geological Sequestration, Opportunities in Coal Mining and Transportation, Electrical Engineering Research Project)
- AltaLink (Interconnection Agreements)
- Power Pool of Alberta (project summaries)
- Alberta Electric System Operator (data gathering)

Northern Lights Manufacturing Inc. (July 1998 – June 2000)

Chief Executive Officer – Designed and manufactured lighting for commercial and residential applications.

TransAlta Utilities Corporation (May 1990 – July 1998)

Project Manager – Sustainable Development (10 months), *Pricing and Contracts Analyst* (10 months), *Research and Technologies Engineer* (formerly New Technology) (2.5 years), *Substations Engineer* (4 years)

Shell Canada Limited (May 1986 – May 1990)

Operations Engineer (2 years), *Control Systems Engineer* (1 year), *Electrical Engineer* (1 year)