



Robert D. (Bob) Swift, P.Eng., FEC

Bob is a professional engineer with over 30 years of heavy industrial engineering experience. He has an extensive background providing technical and maintenance support for coal and gas-fired thermal generating plants, having spent over 20 years stationed in operating facilities. Bob has supervised electrical and instrumentation maintenance departments, as well as managed mechanical engineering design departments. He has also managed multi-discipline field technical support teams comprised of engineering and trades personnel. His project background includes leading multi-discipline engineering design, cost estimates, due diligence and independent engineer reviews, thermal plant capital improvements, and information systems projects. Bob has led the development of engineering department quality assurance programs, standards, and procedures, and has developed and managed project-specific quality plans for engineering design work.

Education Bachelor of Science, Mechanical Engineering (University of Saskatchewan), 1978

Quality Management Systems Foundation Training (Ashbrooke Quality Assurance International Limited, Port Coquitlam, British Columbia), 2013

Project Management (Project Management Institute), 2002

Cogeneration Turbine & Boiler Technology (ThermoShare), 2002

Boiler Tube Failure Reduction / Cycle Chemistry Improvement Program (Electric Power Research Institute), 2002

Corporate Executive Program (University of Alberta, School of Business), 2001

Turbine Steam Path Engineering for Operations and Maintenance Staff (Turbo-Technic Services), 2001

Problem Solving and Decision Making (Kepner-Tregoe), 2000

Various technical and management courses and seminars including vibration analysis, steam turbines, control valve application, organized files and records, supervision and management, project management, interpersonal managing skills, presentation skills, and computer applications.

Professional Associations Association of Professional Engineers and Geoscientists of Alberta (APEGA) – Professional Member and Member of Discipline Committee

Awards 2011 Fellow of Engineers Canada

2013 Fellow of Geoscientists Canada (Honorary)

Experience 2013 to 2015
QA/QC Consultant, Oil & Gas (contract position)
Stantec Consulting Ltd, Edmonton, AB

Assist with the development and execution of the Quality Management programme for the Oil & Gas sector in the Edmonton office. This includes developing standard work practices and project quality management plans. Also includes identifying, analyzing and addressing non-conformances and opportunities for improvement, and managing and reporting quality related issues raised by clients.

2011 to 2013
Senior Engineer, Mechanical (contract position)
Stantec Consulting Ltd, Edmonton, AB

This includes recruitment, quality assurance, project management and business development.

Seconded to Stantec's Regina office to manage the engineering design of the Power Island balance of plant portion of the SaskPower Boundary Dam Unit 3 Refurbishment and Carbon Capture & Sequestration project.

2009 to 2011
Profit Centre Manager, Power (contract position)
Stantec Consulting Ltd, Edmonton, AB

Manager of the Power profit centre offices in Edmonton, AB and Vancouver, BC. This includes business planning, budget development and management, recruitment, staff development, quality assurance, project assignments, project management and business development.

Project Manager for the design of a General Electric LM6000 gas turbine test facility.

2006 to 2009
Manager, Mechanical Engineering (contract position)
Stantec Consulting Ltd, Edmonton, AB

This includes recruitment, staff development, quality assurance, project assignments, project management and business development.

Project Lead for Independent Engineer review of two biomass-fired generating stations.

Manage a variety of projects including the preliminary design and capital cost estimates for multiple simple-cycle gas turbine and co-generation facilities.

2003 to Present

President & Senior Engineer

R.D. Swift & Associates Consulting Inc, Stony Plain, AB

Lead mechanical engineer responsible for balance-of-plant during Independent Engineer review of coal-fired generating station.

Lead mechanical engineer for feasibility review and capital cost estimate for construction of a new coal-fired, advanced supercritical generating station.

Lead mechanical engineer for preliminary design and capital cost estimate for the construction of a new natural gas fired five-on-one combined cycle generating plant.

Home Energy Advisor for the Natural Resources Canada EnerGuide for Houses program.

Lead mechanical engineer responsible for balance-of-plant during Independent Engineer review of natural gas fired combined cycle / cogeneration facility.

2001 to 2002

Director, Generation Process Optimization

EPCOR, Edmonton, AB

Identified and investigated opportunities for revenue increases or cost reductions; developed department business plan and budget; and, managed a multi-discipline team of engineering and technical specialists.

Started up a new department including preparing a business plan and operating budget, developing the organizational structure, defining position roles and responsibilities, and recruiting staff.

Developed and documented a standard seven-phase process for completing engineering projects which was adopted as a Technical Services department standard.

1999 to 2001

Manager, Mechanical Engineering

EPCOR, Edmonton, AB

Developed and implemented a capital improvement program for the generating stations; and, managed a multi-discipline engineering and technical team.

Managed a successful transition to a new contract engineering services provider with minimal impact on project schedules and budgets. Integrated new seconded contract employees into the Mechanical Section team.

Recognized for leadership and strong customer focus, and for reinforcing that attitude of customer service throughout the team.

1997 to 1999

**Manager, Technical Support Systems
EPCOR, Edmonton, AB**

Managed processes to support the activities of a multi-discipline engineering team; developed and documented procedures and standards; and, managed assigned projects.

Led the detailed organization and planning of a successful and profitable Summer Meeting of the IEEE Power Engineering Society, for over 1300 delegates from 33 countries. This included scheduling approximately 400 meetings and technical sessions in 5 venues during the week.

Managed a successful company employee's United Way campaign, exceeding the campaign target by over 20%. The United Way of the Edmonton Capital Region used our campaign plan as an example for training Employee Campaign Chairs from other companies.

Managed the development of Year-2000 contingency plans for all EPCOR business units, resulting in an incident-free transition. The City of Edmonton and the Edmonton Police Service adopted the contingency planning process developed for EPCOR as a basis for their Year-2000 contingency planning.

Designed the organization and process for the Year-2000 operations centre, later adopted for the corporate emergency operation centre.

Recognized for leadership and organizational skills by management and project team members.

1992 to 1997

**Generation Technical Superintendent
Edmonton Power, Edmonton, AB**

Managed multi-discipline field engineering and technical support teams; and, managed assigned projects.

Enabled the sharing of technical expertise between the generating stations through effective work planning.

Developed and implemented a process for effectively managing the justification and control of capital expenditures. This formed the basis of the capital project justification process used throughout EPCOR Generation.

Led the development of a 5-year capital improvement plan for the Genesee Generating Station, resulting in improved budgeting and long-term resource planning.

Performed detailed evaluation and testing of EMPAC work management software, which was selected for implementation at all EPCOR Generation facilities.

Management Chair of the Genesee Generating Station Health, Safety & Environment Committee.

1990 to 1992

**Operations Engineer, Boundary Dam Power Station
SaskPower, Estevan, SK**

Lead a multi-discipline engineering and technical team; supervised technical trades personnel; coordinated the use of computer equipment in the plant; and, managed assigned projects.

Developed a PC-based budget preparation and reporting system for the plant, requiring less work to implement requested changes during budget development, and improved budget tracking and performance.

Managed a project to convert the power plants to the corporate inventory system, allowing standardized inventory reporting and inventory sharing between the plants.

1978 to 1990

**Plant Engineer, Boundary Dam Power Station
SaskPower, Estevan, SK**

Identified and analyzed station operating and maintenance problems and provided engineered solutions; prepared designs and specifications for project manpower, equipment and materials; supervised contractors; supervised electrical trades personnel responsible for all electrical maintenance activities; and, managed assigned projects.

Supervised the replacement of a 66 MW generator stator, including all commissioning tests.

Managed a \$2M asbestos removal project to a successful completion.

Trained station mechanical staff in basic vibration analysis, balancing and reverse dial indicator alignment.

Management Chair of the station Occupational Health & Safety Committee.