

Greg Fleming, P. Eng.



EDUCATION

Post Secondary

Bachelor of Engineering: Mechanical Discipline
Memorial University of Newfoundland, May 2003

Bachelor of Science: Major Physics - Minor Mathematics
Memorial University of Newfoundland, May 1999

PROFESSIONAL EXPERIENCE

January 2010 – Present

Nalcor (Consultant) – Marine Crossings Project Manager (Lower Churchill Project)

The Lower Churchill Project is a hydro-electric generation project that contemplates export of power to Newfoundland via the Strait of Bell Isle.

- Responsible for overall delivery of the Strait of Bell Isle (SOBI) marine crossing scope.
- Responsible for Nalcor's interest in the Cabot Strait marine crossing scope.
- Both scopes include EPIC of subsea cables and associated equipment, landfalls, and subsea protection up to and including terminations at the transition compound locations on each side.

February 2010 – December 2010

Nalcor (Consultant) – Scope Manager (Lower Churchill Project)

- Management and successful completion of the Strait of Bell Isle (SOBI) conceptual marine crossing scope. Currently at the concept engineering phase, the SOBI is the single most critical and highest risk component for power export to Newfoundland, and hence project success. Work includes management of a multidisciplinary package team to achieve concept development and selection, and risk identification and mitigation in a 9 month period, and hence meet the project DG2 gate milestone target.

- Management and successful completion of the four “Early Works” scopes, prior to EPCM engagement, on the project schedule critical path to ensure the first power target is achieved. Scopes include E&P for a bridge, barge and ferry for southside river access, E&P for an accommodations complex, detailed engineering for construction power, and procurement of transformers for construction power. Scopes are achieved via management of several multidisciplinary package teams, and external contractors and consultants.

November 2009 – February 2010

Husky Energy – Senior Project Management Engineer (Development Group)

The Development Group is a department in the Husky Energy East Coast Organization that is responsible for concept development via a gated process for exploitation of new reservoirs, and engineering and development of leading edge technologies.

- Management of a multidisciplinary team to deliver concepts for development of the White Rose core area.
- Responsible for development of processes required to transition through development phases.
- Responsible for compilation of the Request to Proceed (RTP) documentation to acquire budgets necessary to execute subsequent phases.

October 2007 – November 2009

Husky Energy – Senior Project Engineer (North Amethyst Project)

The North Amethyst Project is the first subsea tie-back to an FPSO facility subsea production system in North America. The project was successfully complete during Q3 2009, capturing 70 mmbbls of recoverable reserves 5.5 km from the nearest subsea facilities.

- Responsible for Rock Berm selection as flowline protection, and management of scope development, engineering, contract evaluation, supply, and offshore scope execution.
- Responsible for subsea weak link design, and management of qualification testing, performance, selection, manufacturing, delivery and installation.
- Responsible for managing transportation of all equipment from the fabrication contractor facility to the marine mobilization base.
- Responsible for generation and real time modification of the contract offshore installation schedule and associated logic and sensitivities to promote efficient installation.
- Responsible for subsea installation System Integration Testing (SIT) scope, planning, and execution.
- Responsible for subsea Ancillary Equipment including management of the installation contractor, associated sub-contractors, site inspection, procurement, and final documentation.

- Responsible for Misalignment Flange qualification testing and performance verification.
- Responsible for equipment final handover requirements to the installation contractor.

January 2007 – October 2007

Husky Energy – Facilities Engineer (SeaRose Tie-Back Project)

- Provide direct support to the Project Manager - setup and execution of project management processes for this SeaRose Tie-Back Project.
- Responsible for setup and handover of systems including TQ, MOC, Interface, and technical procedures for the FEED stage of the project.
- Generation and successful owner approval of SeaRose Tie-Back Long Lead Item Procurement and North Amethyst Project Sanction Decision Support Packages totaling \$1.8 billion CAD.
- Generation of Topsides Modification Design Basis and other key governance documents.
- Involvement in preparing and evaluating ITT's for the EPCI stage of the project.

October 2005 – January 2007

Petro-Canada – Facilities Engineer (Technology Group)

- Perform technical and cost evaluations as part of due diligence activities. Work included definition of subsea and topside facilities, flow assurance, cost estimation, and scheduling for add-on and stand alone prospects.
- Member of Joint Ventures group 'White Rose Asset Team'. Provided facilities related support to team including field expansion evaluations and facilities capacity assessment.
- Member of the PC 'Oil and Gas Development Strategies Team'. Performed gas prospect technical and cost evaluations, and acted as the project coordinator in lieu of the manager.
- Active role in Research and Development initiatives as related to new technologies.

January 2005 – October 2005

Petro-Canada (nsb offshore inc. Contractor) – Subsea Facilities Engineer

- Interface with FMC regarding subsea equipment ordering, expediting, and delivery.
- Responsible for acting as the Petro-Canada representative for delivery and completion inspections of FMC equipment including Xmas Tree Systems, Wellhead Equipment, and Tooling.
- Involvement with generation of new subsea hardware contract, and continued participation in equipment completion, expediting, inspection, and delivery.
- Offshore PC representative for ROV inspection campaigns performed from supply vessel.

- Member of a development team which identified and assessed subsea facilities Add-on Projects on the Grand Banks.

May 2003 – January 2005

Petro-Canada (nsb offshore inc. Contractor) – Subsea-Topside Facilities Engineer

- Performed detailed flowline stability sensitivity analysis with AGA Level 2 Submarine Pipeline Stability Analysis software.
- Involvement with Facilities Hardware Contracts including vendor interface, documentation review, expediting, inspection, and delivery.
- Development of software for estimation of future FPSO and Platform parameters.
- Development of key documentation including Field Solutions Overview, Pressure Testing Requirements, and Project Execution Plans.
- Project Engineer in Technical Services Department with responsibilities for capital expenditure projects for East Coast FPSO facility modification projects.