

Transmission Function Employees Job Titles and Job Descriptions

Pursuant to Section 7(f)(1) of the NLSO Code of Conduct, the NLSO and each NL Transmission Owner are required to post on OASIS the job titles and job descriptions of their Transmission Function Employees.

The following positions involve active and personal engagement, on a day-to-day basis in transmission functions such as the planning, directing, organizing or carrying out of day-to-day transmission operations, including the granting and denying of transmission service requests.

General Manager, NLSO

Reports to: VP, Transmission, Distribution and NLSO

The General Manager, NLSO oversees operations of the NLSO and provides direction to the Manager, System Operations & Integration Support, Manager, Transmission Planning and Reliability Standards and Commercial Compliance Manager on a variety of activities necessary for the safe, efficient, reliable and environmentally responsible operation of the interconnected transmission systems on the Island of Newfoundland and in Labrador ("Interconnected Transmission System"). The General Manager oversees and has decisional authority over:

- Planning of the Interconnected Transmission System, supporting the development and completion of appropriate studies to determine transmission and terminal equipment requirements to maintain a reliable supply of power and energy for customers.
- Implementation and operation of commercial agreements related to the sale of power and energy from provincial power developments that connect to the provincial grid and associated transmission interconnection agreements.
- All areas of power system operations and integration for the Interconnected Transmission System.
- Planning, support, maintenance and operation of various operational technologies, including Energy Management Systems, the Operations Information System (OIS), SCADA Systems, and other critical infrastructure systems, used in support of reliable operation of the Interconnected Transmission System.

Reliability Standards and Commercial Compliance Manager

Reports to: General Manager, NLSO

The Reliability Standards and Commercial Compliance Manager ensures compliance with reliability standards and ensures open and non-discriminatory access for all transmission customers using the Interconnected Transmission System. The position oversees and manages:

- All commercial activities related to transmission service and interchange transactions, and generator interconnection, including review and approval of transmission service requests.
- Compliance oversight regarding access to NLSO systems, Open Access Same-Time Information System (OASIS) development and implementation of Standards of Conduct and tariff development/filings.
- Support for the implementation and operation of commercial agreements related to the sale of power and energy from provincial power developments that connect to the Interconnected Transmission System and associated transmission interconnection agreements.
- Compliance with reliability standards, including maintenance of a documentation management system, update of reliability standards and associated requirements, regular review of compliance with standard requirements and performance of internal audits against the standards.

Manager, System Operations & Integration Support

Reports to: General Manager, NLSO

The Manager, System Operations & Integration Support oversees and manages the System Operations Engineers and the Supervisor, Energy Control Centre on a variety of activities necessary for the safe, efficient, reliable and environmentally responsible operation of the Interconnected Transmission System. The position provides leadership and day-to-day management of:

- The development and negotiation of commercial agreements related to the sale of power and energy from provincial power developments and required transmission interconnection agreements.
- All areas of power system integration required for the introduction of new assets to the Interconnected Transmission System in the province with special focus on operational aspects.
- The development and execution of plans to meet the corporation's goals in the areas of power system operation.

System Operations Engineer - Integration

Reports to: Manager, System Operations & Integration Support

The System Operations Engineer – Integration responsibilities include:

- Support of the integration of new assets into the Interconnected Transmission System including application enhancements in the Energy Control Centre.
- Support in the development and implementation of reliability standards applicable to the Interconnected Transmission System.
- Planning, coordinating and leading implementation and operational activities, including development and upkeep of maintenance schedules and coordination and scheduling of outages, necessary for the safe, efficient, reliable and environmentally responsible operation of the Interconnected Transmission System.

System Operations Engineer - Planning

Reports to: Manager, System Operations & Integration Support

The System Operations Engineer – Planning responsibilities include:

- Integration support to the Energy Control Centre Operators in the areas of OTS models validation and development of scenarios for Operator competency, operating procedures and instruction development and commissioning support as new assets are brought into service.
- Support to power system operations and management through reserves assessments, coordination of planned equipment outages, development of procedures and instructions, and analysis of power system operator response to abnormal events.
- Assistance in the development, implementation and periodic review of major outage schedules for power system equipment.
- The preparation of regulatory reports for significant customer interruptions, under frequency load shedding events and daily supply and demand status.

Power System Applications Engineer

Reports to: Manager, System Operations & Integration Support

The Power System Applications Engineer responsibilities include:

- Support and maintenance of effective operation of SCADA, generation control, economic dispatch, network analysis and operator training simulator functions.
- Identification and recommendation of enhancements to Energy Management Systems for improved power system operation and management.
- Ensuring that production-level changes to Energy Management Systems meet appropriate standards and are implemented with proper change management.
- The maintenance of power system models to ensure Energy Management Systems applications function to obtain optimal benefits and reflect the actual power system.

Supervisor, Energy Control Centre

Reports to: Manager System Operations & Integration Support

The Supervisor, Energy Control Centre is responsible for overseeing NLSO real-time operations for the safe, environmentally friendly, reliable and efficient short term and real time operation of the Interconnected Transmission System. The position is responsible for:

- Ensuring Energy Control Centre operators are fully qualified to operate the bulk electric system within their area of responsibility in accordance with established operating parameters for both normal and emergency situations.
- Monitoring and reporting data on the operation of power system equipment to asset owners to assist them in obtaining the optimum function of the assets.
- Communications with all external stakeholders in the coordination of power system planned and forced outages.
- Ensuring all interconnection and interchange activities are completed in a safe and reliable manner according to regulations and operating agreements.

System Operations Engineer - Operations

Reports to: Supervisor, Energy Control Centre

The System Operations Engineer – Operations responsibilities include:

- Support for the management of the power system and its resources through coordination of planned equipment outages, development of procedures and instructions, and analysis of power system operator response to abnormal events.
- Developing and maintaining effective training programs, customized for power system operators, using the Operator Training Simulator and other tools to prepare power system operators to effectively respond to power system emergencies as well as routine activities.

Shift Supervisor, Energy Control Centre

Reports to: Supervisor, Energy Control Centre

The Shift Supervisor is directly responsible for the on-shift supervision of the Energy Control Centre operations to ensure that the power systems are operated in the most safe, reliable and economic manner with due consideration for impacts on the environment. This includes having final approval authority for all maintenance outages. The position is responsible for:

- Oversight and direction to the Energy Control Centre Operator in real-time operations of the Interconnected Transmission System.
- Coordination and supervision of planned and real-time activities and their potential effects on neighboring utilities.

- The on-shift supervision of all interconnection and interchange activities in a safe and reliable manner according to regulations and operating agreements.

Energy Control Centre Operator

Reports to: Shift Supervisor, Energy Control Centre

The Energy Control Center Operator is responsible for the safe, secure and efficient operation of the Interconnected Transmission System within applicable standards. The position involves:

- The routine operation of system generation, transmission and terminal station equipment; system and customer restorations following a disturbance; preparation and execution of work protections; preparation of daily system reports and generation equipment status reports; completion of work requests; maintenance of the system diary; completion of monthly revenue metering information; and responding to customer trouble calls and inquiries.
- Interchange scheduling responsibilities including coordination with adjacent entities as to actual and scheduled interchange values, checkout of daily and hourly scheduled and actual interchange, processing of tags for interchange schedules, monitoring ramping capability for requested interchange schedules, and calculation of net interchange and inadvertent interchange.

Manager, Transmission Planning

Reports to: General Manager, NLSO

The Manager, Transmission Planning oversees and manages a variety of activities necessary for the safe, efficient, reliable and environmentally responsible planning of the Interconnected Transmission System. The position includes leadership and day-to-management of:

- Planning of the interconnected transmission systems, supporting the development and completion of appropriate studies to determine transmission and terminal equipment requirements to maintain a reliable supply of power and energy for customers.
- Planning for all areas of power system operations and integration required for the Interconnected Transmission System.
- Technical oversight and leadership for the integration of all transmission assets associated with provincial power developments.
- Technical oversight for the development of commercial agreements related to the sale of power and energy from provincial power developments that connect to the provincial grid and associated transmission interconnection agreements.

Transmission Planning Engineer:

Reports to: Manager, Transmission Planning

The Transmission Planning Engineer performs engineering activities necessary for the safe, efficient, reliable and environmentally responsible planning of the Interconnected Transmission System. The position:

- Plans the Interconnected Transmission System, supports the development and completion of appropriate studies, including System Impact and Facilities Studies, to determine transmission and terminal equipment requirements to maintain a reliable supply of power and energy for customers.
- Supports power system integration required for the introduction of new assets and associated technology to the Interconnected Transmission System.
- Performs analysis to support the integration of all assets associated with provincial power developments, and supports commercial agreements related to the sale of power and energy from provincial power developments that connect to the provincial grid and associated transmission interconnection agreements.

Team Lead, Operations Technology (OT):

Reports to: Manager, Information & Operating Technology

The Team Lead, OT is the lead contact for the day-to-day support, maintenance and operation of hardware, software and cyber security, including but not limited to OASIS, the Operations Information System, and Energy Management Systems. Responsibilities include:

- Initiating planning of OT support for generation and transmission system operations.
- Identifying and/or designing OT solutions for coordinated operations of generation resources and the transmission system.
- Identifying and prioritizing OT maintenance and system enhancements.
- Support and maintenance of the effective operation of SCADA, generation control, economic dispatch, network analysis and operator training simulator functions.