



Transmission Function Employees (Job Titles & Job Descriptions)

REAL TIME OPERATIONS

Manager, South Interior Office

Leads the development and implementation of plans, strategies, policies and processes for the successful activation and operation of the BC Hydro Back-up Control Centre due to the unavailability of the primary control centre.

Manager, Real Time Operations

Leads the development and implementation of plans, strategies, policies and processes for the operation and control of the provincial electric system and the implementation of the BC Hydro Open Access Transmission Tariff in real time.

System Control Manager

Manages the control room's real time operation of the integrated electric system to ensure the security and reliability of service in the safest and most economical manner practical.

System Operator

A System Operator is a qualified electrical operator delegated the operation of an assigned portion of the power system. They shall be certified and accredited by relevant agencies or organizations as required, and have charge of and be responsible for the operation of transmission circuits, generating stations, substations or portions of substations as assigned by Operating Orders. They may also be delegated other related duties which do not interfere with their operating responsibilities.

Load Operator

A Load Operator is a qualified electrical operator delegated the operation of an assigned portion of the power system. They shall have charge of and be responsible for the operation of distribution circuits, generating stations, substations or portions of substations as assigned by Operating Orders. Their duties shall also include issuing instructions for safe, efficient and proper operation; issuing or authorizing safety protection guarantees; dealing with electrical disturbances and the restoration of service; communication with customers in matters of prearranged or accidental service interruptions. They may also be delegated other related duties which do not interfere with their operating responsibilities.

Interchange / Plant Operator

An Interchange/Plant Operator is a qualified electrical operator who administers the BC Hydro transmission services tariff as assigned and co-ordinates curtailments between BC Hydro and the affected balancing authority as directed by the transmission or generator coordinator. They shall also have charge of and be responsible for the operation of plants as assigned by Operating Orders. They may also be delegated other related duties which do not interfere with their primary responsibilities.

REAL TIME OPERATIONS

Operations Training Manager

Manages the development and delivery of Grid Operations training and development programs.

Apprentice Operators

The Electrical Operator Apprenticeship program consists of a maximum of 24 months of classroom, on-the-job technical training and self-study leading to graduation into the role of Load Operator or Interchange/Plant Operator.

Plant Alteration Coordinator

Coordinates the distribution system plant alteration (PA) real-time processes in the control room. Ensures the proposed changes to the distribution system are accurately documented and the control room records are revised to accurately reflect system changes. Works in consult with Real-Time Load Operators to implement distribution system alterations and accurately maintain operating documentation in the Control Room.

OPERATIONS SUPPORT

Manager, Operations Support

Leads the development and implementation of plans, strategies, policies, and processes for operation planning and outage scheduling of the provincial electric system, and custom technology systems used for BC Hydro real-time operations.

Manager, Operations Planning

Manages Grid Operations' operations planning, and leads the management of outage scheduling and coordination.

Operations Planning Lead Engineer / Engineers

Provides technical expertise in system analysis for the development of operating plans for the bulk electric system and regional/area operations. Focuses on short-term planning from one year to real time, and preparing operations plans that enable Real Time Operations (RTO) to control the power system reliably and safely.

Manager, Outage Scheduling

Manages Grid Operations' transmission and distribution outage scheduling and outage coordination with BC Hydro generation, independent power producers, transmission voltage customers, Asset Investment Management and their service providers, BC Hydro Field Operations and Distribution Engineering.

Outage Scheduler

An Outage Scheduler is a qualified electrical operator who assists the outage scheduling manager and operations planning engineers in providing operational planning support to real-time operating staff. They may also be delegated other related duties which do not interfere with their primary responsibilities.

Manager, Real Time Systems

Manages and provides technical direction to the Real Time Systems Group which is responsible for managing, administering and supporting real time systems and underlying infrastructure.

Specialist Engineer

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on resolving technically challenging issues and problems.

Power Systems Applications Engineering Team Lead

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on setting priorities for the team.

Network Applications Senior Engineers

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on real time applications such as state estimation, contingency analysis, voltage stability and transient stability.

Generation Team Lead / Engineers

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on generation related applications such as Automatic Generation Control.

Simulation Team Lead / Engineers

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on dispatcher training simulator applications.

SCADA and Infrastructure Engineering Team Lead

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on setting priorities for the team.

SCADA Team Lead / Engineers

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on applications for supervisory control and data acquisition.

Infrastructure Team Engineers

Provides expertise in managing, administering and supporting of real time control systems and underlying infrastructure. Focus on support of servers, firewalls and other equipment associated with real time control systems.

EMS User Interface Supp Analyst / Specialist

Produces and tests the Energy Management System (EMS) displays used by Real Time Operations for the control and monitoring of the BC Hydro power system. Provides technical direction to several display builders.

Drafter / EMS Display Builders

Produces and tests the Energy Management System (EMS) displays used by Real Time Operations as the user interface for the control and monitoring of the BC Hydro power system.

MARKET POLICY & OPERATIONS

Manager, Market Policy and Operations

Leads the development of plans, strategies, policies and practices related to the processing, scheduling, settlement and billing of all wholesale transmission service use of the BC Hydro system, including all associated energy schedules and ancillary services, in accordance with Interchange Scheduling and accounting policies and the Wholesale Transmission Services Tariff.

Wholesale Market Services Manager

Manages the operation of the transmission interchange market, settlements and billing, revenue forecasting, after-the-fact energy reconciliation, and reporting. Develops and maintains customer relationships to ensure maximization and retention of the wholesale transmission business. Ensures compliance with the Open Access Transmission Tariff and industry standards and practices. Implements changes to and sustains the business systems in order to adhere to industry changes. Participates in industry committees.

Transmission Coordinators

Acts as Transmission Services agent for selling transmission services outlined in the Open Access Transmission Tariff; performs physical settlement of the energy flow between adjacent Balancing Authorities and reports to the WECC; provides customer and industry reports.

Business System Consultant

Provides data reporting for regulatory purposes. Assists WMS Manager with sustainment of the business systems. Manages ad hoc projects as assigned by WMS Manager.

Marketing & Business Support Analyst

Performs settlement and billing function of Open Access Transmission Tariff transactions incurred by customers. Provides revenue reporting on transmission transactions and revenue forecasting.

Transmission Contracts Manager

Manages and negotiates inter-utility transmission contracts and services. Direct the development of Wholesale Transmission Service Agreements and transmission system studies complying with industry standards and requirements.

Transmission Contracts Specialist

Facilitates the development and negotiation of Wholesale Transmission Service Agreements and transmission agreements. Develops and maintains working relationships with a portfolio of wholesale transmission customers to maximize benefits to the customers and BC Hydro.

OPERATION SERVICES

Manager, Operation Services

Leads the development, negotiation and implementation of all operational and services agreements with external entities, and manages the relationships with key external stakeholders and customers.

OPERATION SERVICES

Interconnection / Reliability Service Manager

Manages the development, negotiation, and management of the operating agreements and overall relationships with Balancing Authorities and other utilities. Develops and manages commercial and/or regulatory agreements for the provision of operational services by Grid Operations, securing services or products for the reliable operation of the system and meeting regulatory requirements except MRS. Represent Grid Operations for BC Hydro Generation, Transmission Independent Power Producer and Load Interconnection Agreement development.

Service Support Manager

Provides near real time support for generation dispatch and transmission and distribution operations to Real Time Operations. Manage customer operational issues.

TRANSMISSION ENGINEERING & ASSET STRATEGY PLANNING

Engineer

Perform civil, structural, geotechnical, electrical and mechanical engineering work for transmission line (overhead and cable), substation, protection and control, telecommunications studies, projects and maintenance programs. Depending on the individual engineer, the project and maintenance work performed includes transmission system planning, substation planning, relay application preparation, design, and estimating.

Engineering Technologist

Perform civil, structural, geotechnical, electrical and mechanical engineering work for transmission line (overhead and cable), substation, protection and control, SCADA and telecommunications studies, projects and maintenance programs. Depending on the individual technologist, the project and maintenance work performed includes transmission system planning, substation planning, relay application preparation, design, and estimating.

Drafter / Administrative Support

Perform drafting, administrative and clerical work to support the work performed by Engineers, Engineering Technologists, Engineering Managers, Engineering Team Leads, Project Managers, Project Technologists, Construction Managers and Construction Officers.

Engineering Manager / Engineering Team Lead

Assigns, manages and provides direction on the work performed by Engineers, Engineering Technologists, Project Managers, Project Technologists, Construction Managers and Construction Officers.

Project Manager

Provide project management of transmission line (overhead and cable), substation, protection and control, SCADA and telecommunications studies, projects and maintenance programs.

Project Technologist

Provide support to Project Managers in the management of transmission line (overhead and cable), substation, protection and control, SCADA and telecommunications studies, projects and maintenance programs.

TRANSMISSION ENGINEERING & ASSET STRATEGY PLANNING

Construction Manager / Construction Officer

Provide construction management of contractors for transmission line (overhead and cable), substation, protection and control, SCADA and telecommunications studies, projects and maintenance programs.

Environmental / Photogrammetry / Survey Support

Performs environmental, photogrammetrical or survey work for transmission line (overhead and cable), substation, protection and control, SCADA and telecommunications studies, projects and maintenance programs."

Growth Capital Planning Manager

Responsible for the long-term planning of the bulk and regional transmission system and planning studies associated with the transmission load interconnection customers.

Performance Planning Manager

Manages the development of the System Operating Orders, transmission system disturbance analysis, conducting special operational studies and development of Remedial Action Schemes

Interconnection Planning Manager

Responsible for system planning studies for Independent Power Producers, BC Hydro generation plants and Point-to-Point customers.

Project Services Coordinator

Responsible for providing project co-ordinating assistance for the various planning studies undertaken by the Asset Strategy and Planning group and managing the engagement of external engineering service providers.

LOAD CONNECTIONS

Manager, Transmission Generator Interconnections

- Manages / develops / modify the interconnection process for loads connecting to the transmission system.
- Directs the development of Load Interconnection Agreements and Study Agreements.
- Ensures compliance with BC Hydro Tariffs and standards and requirements.
- Facilitates/recommends updates to BCH Interconnection tariffs and connection policies.
- Provides assistance to Key Account Management in dealing with transmission Load connection/supply issues or Customer Contracts.
- Represents BC Hydro with Customers and Customer associations.
- Manage load connection projects.

LOAD CONNECTIONS

Project Manager

- Represents BC Hydro with load connection customers.
- Manages the interconnection process for new Load Interconnection from initial enquiry to implementation and operation.
- Manages client relations through the interconnection process and into commercial operation.
- Manages study and agreement requirements according to the BC Hydro Tariffs (Open Access Transmission Tariff and Tariff Supplement No.5 and Tariff Supplement No. 6) and BCH Policies.
- Facilitates the development and negotiation of Interconnection Policies and Agreements.
- Provides technical support to the interconnection process.
- Supports Key Account Management regarding connection/supply issues or customer contracts.

Technologist

- Provides technical and management support to Manager and Project Managers.
- Administers Conceptual Review process.
- Administers NITS nomination process.
- Conduct technical and Financial Analyses in support of new connections.
- Provides support to Key Account on transmission customer supply issues.

TRANSMISSION INTERCONNECTIONS

Manager, Transmission Generator Interconnections

- Manages the interconnection and client services process for generators connecting to the transmission system.
- Directs the development of Generator Interconnection Agreements and Study Agreements.
- Ensures compliance with the Open Access Transmission Tariff and industry standards and requirements.

Specialist Engineer, Transmission Generator Interconnections

- Facilitates the development and negotiation of Transmission Interconnection Policies and Agreements.
- Represents BC Hydro in various industry forms and committees.
- Provides technical support to the interconnection process.

Client Manager, Transmission Generator Interconnections

- Manages the interconnection process for projects in the Transmission Generator Interconnection Queue.
- Manages client relations through the interconnection process and into commercial operation.
- Manages study and agreement requirements according to the Open Access Transmission Tariff.

DISTRIBUTION GENERATOR INTERCONNECTIONS

Manager, Policies & Process & Distribution Generator Interconnections (DGI)

- Manages the interconnection and client services process for generators connecting to the distribution system.
- Directs the development of Distribution Generator Interconnection Agreements and Study Agreements.
- Ensures compliance with any applicable tariffs and industry standards and requirements.
- Analyzes interconnections across BCH and provides recommendations for alignment.
- Analyzes interconnections processes and provides recommendations for alignment.
- Represents BC Hydro with distribution generator connection customers.
- Facilitates the development and negotiation of Interconnection Policies and Agreements.
- Provides technical support to the interconnection process.

Specialist Engineer, Distribution Generator Interconnections

- Same as Specialist Engineer for Transmission Generator Interconnections but for the Distribution Generator Interconnections customers.

Client Manager, Distribution Generator Interconnections

- Same as Specialist Engineer for Transmission Generator Interconnections but for the Distribution Generator Interconnections customers.

Director, Interconnections

- Leads the development of plans, strategies, policies and practices related to the processing, scheduling, settlement and billing of all interconnection customers to the BC Hydro system.
- Ensures compliance with all applicable interconnection tariffs.
- Approves Interconnections Agreements with BCH Interconnection customers.

Service Contracts Coordinator / Administration

- Performs project coordination, contract development, and administrative and clerical functions in support of the work performed by the group.