

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Director, Gas Control	Plans and directs transportation gas control activities to meet shipper obligations, system reliability, safe operations and pipeline efficiency.
Gas Control Coordinator	Coordinates and assists in the operation of gas control. Directs, assists and guides gas controllers on complex, non-routine system operations.
Gas Controller (includes Senior, Lead and Associate Gas Controller)	Ensures continuity of gas service by anticipating, determining and directing fulfillment of quantity and pressure requirements in a safe, reliable, and efficient manner. Directs the analysis of historic and projected gas supply and requirements data for modeling, developing and recommending facility and operational plans. Monitors gas quantities to ensure pressures do not exceed Maximum Allowable Operating Pressures.
Manager, Gas Control	Plans, coordinates, and manages day to day activities of transmission pipeline gas control operations.
Engineer III, Gas Control	Ensures continuity of gas service by scheduling and coordinating complex projects to anticipate, determine and direct fulfillment of gas quantity and pressure requirements and to monitor and control Dominion Energy's gas transmission facilities. Provides technical expertise through the use of data for modeling, developing and recommending facility and operational plans.
Gas Control Projects Coordinator	Responsible for day to day oversight of Gas Control Operations (pipeline and storage systems) by providing daily support, planning and direction of the Gas Controllers to provide system stability, reliability, safe operation, and execution of short-term plans. Ascertains problems involved in gas operations; contacts personnel who can supply information and assistance; analyzes and evaluates data; determines solution; initiates changes within jurisdiction;
Director, Gas Transmission Development	Responsible for creating new business opportunities for DETI transportation and storage services and ACP transportation services, performing facility analysis for new projects, conducting open seasons, monitoring competitor activities, and determining new service offerings. Leading engagement with economic development entities in states covered by ACP (NC, VA, WV) and interactions with ACP ownership entities.
Market Development Representative	Responsible for assisting Gas Business Development Managers and providing support for potential growth and new service opportunities. Assists current and potential customers by preparing presentations and service portfolios, negotiating terms of service, and explaining tariff and service agreement provisions. Maintain company awareness of market and competitor activities and customer needs, including performance of market/statistical analyses.
Manager Gas Business Development	Responsible for managing Gas Business Development Managers and Market/ Senior Market Representatives and leading the effort to identify, develop and implement business development opportunities, services and programs designed to support existing and prospective customers. Coordinate efforts of staff working with pipelines, customers, producers, and other external entities. Direct the preparation of service agreements; manage contract modifications. Work with leadership in getting internal management approval through the IRC process.
Gas Business Development Manager	Responsible for identification, development and implementation of business development opportunities, services and programs designed to support existing and prospective customers. Work directly with pipeline customers, industry contacts and pipeline/storage operators to identify, develop and maintain customer relationships. Direct the preparation of service agreements; manage contract modifications.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

Job Title	Job description
Senior Market Development Representative	Identifies and researches potential market share expansions and new service opportunities. Negotiates terms of service with principle parties. Maintains awareness of competitor activities and customer needs. Conducts and analyzes market surveys. Explains tariff and service agreement provisions. Supports market and service projects (e.g., conducts presentations, customizes service portfolios, etc.) Performs statistical analyses (e.g., trends in demand; sales, service and throughput comparisons; etc.).
Director, System Gas Planning	Responsible for directing the design of system facilities, developing new services, modeling system operations, evaluate performance of existing and planned assets, and evaluate firm contract changes.
Manager, Gas System Planning	Responsible for managing the design of system facilities and developing new services using hydraulic modeling to simulate system operations and evaluate performance of existing and planned assets.
Engineer 1 (System Gas Planning)	Maintain hydraulic flow models to reflect firm transportation contracts and system changes. Models new firm demand opportunities. Develop operating plans to optimize facilities and support operations with issues that may occur on system.
Engineer II (System Gas Planning)	Maintain the hydraulic flow model to reflect firm transportation contracts and system changes. Models new firm demand opportunities. Develop operating plans to optimize facilities and support operations with issues that may occur on system. Works independently and provides alternatives.
Engineer III (System Gas Planning)	Maintain the hydraulic flow model to reflect firm transportation contracts and system changes. Models new firm demand opportunities. Develop operating plans to optimize facilities and support operations with issues that may occur on system. Works independently and provides alternatives. Serve as technical expert to other engineers.
Engineering Technical Specialist III (System Gas Planning)	Maintain the hydraulic flow model to reflect firm transportation contracts and system changes. Models new firm demand opportunities. Develop operating plans to optimize facilities and support operations with issues that may occur on system. Works independently and provides alternatives.

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Job Title	Job description
Director, Customer Service and Business Development	Provides overall strategic direction and leadership for the commercial operations of DECG. Develops profitable strategic business opportunities for DECG's operations as an open access interstate pipeline, including pipeline expansions, new services and/or recommend new rate designs. Develops and implements strategy to manage relationships with existing and prospective customers, industry contacts, economic development officials, state and federal agencies. Provides direction and oversight to transportation scheduling, gas measurement group, billing and system modeling.
Business Process Analyst	Provides analytical support for interstate pipeline Customer Service and Business Development. Reviews, analyzes, and tracks customer contracts for accuracy and completion to ensure tariff compliance and adequate internal controls. Provides accurate contractual information to various internal departments for billing and Sarbanes-Oxley Act controls. Responds to customer needs and requests.
Manager Gas Transportation Services	Provides oversight and direction to ensure that gas transportation, storage, title tracking and balancing services are provided to customers in accordance with contractual, tariff and regulatory obligations.
Manager Marketing and Business Development	Manages the marketing and sales activities of DEQP and its subsidiaries. Primary responsibilities in this position include generation of revenues through the selling of transportation and storage capacity on existing and expanded facilities. Manages the marketing and sales force. Oversees the sales account management. Measures the results of sales force efforts and evaluates potential new strategies.
Customer Transportation Representative I, II, III	Performs activities to reconcile, review and monitor the activities required to ensure the company's obligation to transport natural gas in the pipeline is performed in an efficient, accurate and timely manner. Processes nominations through confirmation and scheduling. Reconciles imbalances and pooling points. Works with customers to explain company policies, practices, tariff provisions and transportation procedures. Assists in customer problem resolution, maintains documentation of gas transportation activity and prepares reports as required.
Customer Transportation Consultant	Performs activities to reconcile, review and monitor the activities required to ensure the company's obligation to transport natural gas in the pipeline is performed in an efficient, accurate and timely manner. Handles complex transactions including the processing of nominations through confirmation and scheduling. Reconciles imbalances and pooling points. Provides information in a timely manner to allow for any necessary reconciliation. Manages and provides volumetric information.
Contract Administrator (includes Associate and Senior Contract administrators)	Coordinates with parties to prepare complex agreements including pipeline service agreements. Interacts with pipeline customers concerning contract provisions and contract status. Maintains contract databases and complies information for project planning, forecasting and other analyses. Prepares and disseminates reports and information associates with supply, capacity and other contracts. Provides leadership and technical training to contract administration staff. Posts external shipper notices to EBB.
Interstate Marketing Manager	Responsible for managing interstate pipeline transportation and storage marketing activities within assigned region.
Director, Marketing and Business Development	Responsible for all business development, marketing and analytical services activities of Dominion Energy Questar Pipeline Services, Inc. (DEQPS). Directs the operations necessary to identify, analyze, design and negotiate new projects in existing and new service areas that expand interstate pipeline systems and storage, connect new supply sources. Directs the marketing and sales activities of DEQPS including generation of revenues through the selling of transportation and storage capacity on existing and expanded facilities. Directs the Analytical and Measurement business unit and is responsible for achieving growth and profitability targets. Directs contracting activities of DEQPS and insures that regulatory compliance is met in the contracting process.

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<b>Job Title</b>	<b>Job description</b>
Director, Area Transmission and Gas Control	Responsible for all business development, marketing and analytical services activities of Dominion Energy Questar Pipeline Services, Inc. (DEQPS). Directs the operations necessary to identify, analyze, design and negotiate new projects in existing and new service areas that expand interstate pipeline systems and storage, connect new supply sources. Directs the marketing and sales activities of DEQPS including generation of revenues through the selling of transportation and storage capacity on existing and expanded facilities. Directs the Analytical and Measurement business unit and is responsible for achieving growth and profitability targets. Directs contracting activities of DEQPS and insures that regulatory compliance is met in the contracting process.
Supervisor Gas Transmission Operations	Supervises employees and contractors engaged in the operation and maintenance of natural gas handling facilities and related equipment. Ensures the safe, reliable and efficient operation of natural gas transmission and storage facilities and equipment. Monitors and inspects job sites, facilities and databases to ensure company procedures are followed and that compliance is maintained relative to all applicable local, state and federal regulatory requirements.
Manager Gas Transmission Operations Support	Manages employees, contractors, and resources for a proactive planning and scheduling process to effectively utilize fuel for DEQ facilities. Provides strategy and direction for changes to business processes, standards, and structure that improve operations or create enhanced opportunities for the Company.
Manager Gas Transmission Operations	Manages employees and contractors engaged in the operation and maintenance of natural gas handling facilities and related equipment at major work locations. Ensures the safe, reliable and efficient operation of natural gas transmission and storage facilities and equipment. Monitors and inspects job sites, facilities and databases to ensure company procedures are followed and that compliance is maintained relative to all applicable local, state and federal regulatory requirements. Coordinates maintenance and outage schedules with field operations and other involved departments. Develops and monitors budgets for operating area.
Director Area Transmission Operations	Position is responsible for the management of staff and resources for the operation and maintenance of the gas pipeline system including: protection and maintenance of right of way; the installation, repair and maintenance of pipelines and related equipment; the operation and maintenance of compression facilities; operation and maintenance of the measurement and regulation of gas facilities; gas control; communications and first response to pipeline incidents and upsets. Responsible for strategic management of the pipeline's operations.
General Manager-Dominion Energy Carolina Gas Transmission, Inc	Plans and directs operations of the Dominion Energy Carolina Gas Transmission business unit. Provides leadership and supervision to DECGT operations, maintenance, engineering, construction, measurement, and gas control organizations. Creates, evaluates, and recommends business strategies and processes. Ensures operational safety for personnel and the asset base. Oversees compliance with company, state, federal, and environmental requirements and policies. Ensures reliable operations customer service.
VP Pipeline Operations	Provides leadership and overall direction for the management of pipeline operations, integrity management, maintenance, and volume measurement, as well as responsible for volume scheduling and Gas Control functions for the Gas Transmission and Storage Group's interstate pipelines.
Director, Interstate Marketing	Oversees interstate marketing activities including developing, promoting and directing marketing programs and service activities for customers.
Market Development Representative	Responsible for assisting Gas Business Development Managers and providing support for potential growth and new service opportunities. Assists current and potential customers by preparing presentations and service portfolios, negotiating terms of service, and explaining tariff and service agreement provisions. Maintain company awareness of market and competitor activities and customer needs, including performance of market/statistical analyses.
Manager Interstate Marketing	Oversees interstate marketing group responsible for managing interstate pipeline transportation and storage marketing activities. Manages the gas transmission MCS program.

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Job Title	Job description
Senior Market Development Representative (Interstate Marketing)	Supports daily parking/loaning services. Develops and maintains proprietary in-house databases and forecasting models. Researches, compiles, filters, analyzes and distributes relevant energy industry information using industry-related publications, databases, outside consultants, and other resources.
Director, Transmission Services	Responsible for planning and directing the functions of technology services and market support staff to support the activities of the gas Transmission Commercial Services Group through Electronic Bulletin Board (EBB) technology, back room administrative support, analytical support regarding market data, advocacy at the North American Energy Standards Board (NAESB), and implementation of new services. Responsible for the coordination of the scheduling of the DETI, Dominion Energy Carolina Gas Transmission, and Dominion Energy Cove Point systems and the monitoring of customers' daily activities to ensure that all Firm obligations are met.
Supervisor, Gas Transportation Services	Provides oversight and direction to ensure that gas transportation, storage, title tracking and balancing services are provided to customers in accordance with contractual, tariff and regulatory obligations.
Manager, Business Services and Technology	Responsible for the management of business technology service activities for natural gas transportation and storage contract processing, security and pipeline informational postings. Coordinates and ensures timely and accurate resolution of internal and external customer inquiries, requests and problems. Participates in North American Energy Standards Board meetings, conferences and policy committees. Responsible for coordinating activities between business groups and the Information Technology department as it relates to Dominion Energy's natural gas pipeline computer systems.
Pipeline Commercial Services and Technology Specialist	Responsible for the business technology service activities for natural gas transportation and storage contract processing, security and pipeline informational postings. Coordinates and ensures timely and accurate resolution of internal and external customer inquiries, requests and problems. Responsible for coordinating activities between business groups and the Information Technology department as it relates to Dominion Energy's natural gas pipeline computer systems.
Pipeline Commercial Services and Technology Project Manager	Responsible for the business technology service activities for natural gas transportation and storage contract processing, security and pipeline informational postings. Coordinates and ensures timely and accurate resolution of internal and external customer inquiries, requests and problems. Responsible for coordinating activities between business groups and the Information Technology department as it relates to Dominion Energy's natural gas pipeline computer systems.
Manager Pipeline Commercial Policy and Compliance	Responsible for management of compliance-related analysis of existing business practices including creating and maintaining procedures/requirements documentation. Assist in executing testing of compliance standards/measures and process improvements. Ensures compliance processes and procedures are implemented. Monitor, assess and communicate regulatory policy initiatives. Apply standards, such as NAESB, FERC, respective Pipeline Gas Tariffs, SOX, and FERC Standards of Conduct.
Commercial Gas Policy and Compliance Analyst	Responsible for conducting compliance-related analysis of existing business practices including creating and maintaining procedures/requirements documentation. Assist in executing testing of compliance standards/measures and process improvements. Ensures compliance processes and procedures are implemented. Monitor, assess and communicate regulatory policy initiatives. Apply standards, such as NAESB, FERC, respective Pipeline Gas Tariff, SOX, and FERC Standards of Conduct.
Director, System Optimization and Partnership Services	Responsible for managing the negotiation, execution and administration of contracts with other pipelines (transportation, joint venture operating agreements, Operational Balancing Agreements and storage partnerships) and supply planning and purchase activities.

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<b>Job Title</b>	<b>Job description</b>
Coordinator, System Gas Operations	Coordinates, develops, implements and maintains the work related to the monitoring and tracking of system imbalances, Operational Balancing Agreements and Electronic Balancing Agreements. Responsible for EBA management and evaluation of agreement requirements.
Manager, Operating and Partnership Activity	Responsible for managing gas operating activities on both DETI and DECP. Negotiation of market area transportation contracts, as well as partnership agreements to facilitate adequate gas supply. Manages daily gas requirements to ensure that the contracted quantities are transported and delivered according to contractual requirements. Evaluates the flow of natural gas through the system to maintain volume and pressure, and to ensure the integrity and reliability of the pipeline system. Collaborates with Gas Transmission management to ensure pipeline reliability. Verifies that nominations and allocations are balanced and manages the tracking and analysis of both customer and physical storage volumes and capacity flows. Develops strategies and seasonal operating plans to support the optimization of the pipeline system.
Engineer II (System Gas Operations)	Responsible for analyzing asset utilization, developing operating plans and optimization recommendations. Works on daily operational issues or problems that may occur nearing operations.
Engineer III (System Gas Operations)	Responsible for analyzing asset utilization and developing operating plans. Works on daily operational issues or problems that may occur nearing operations. May serve as a technical expert on engineering related issues.
System Gas Operations Consultant	Analyzes and monitors market area transportation contracts, operational balancing agreements, producer balancing arrangements and partnership agreements. Provides support for storage plans and monitors partnership pool activities. Coordinates EBB postings as needed in order to meet all compliance and tariff requirements. Interfaces with various groups across the organization to optimize operations, minimize outage customer impacts and associated revenues. Assists in development and implementation of seasonal operational plans, assesses excess capacity, and tracks nominations and actual volumes. Develops and utilizes various advanced models to assess historic and current operations, monitor storage levels and project future inventories. This role participates in select functions at an advanced and specialized level.
System Gas Operations Specialist	Analyzes and monitors upstream and market area transportation contracts, gas supply arrangements and partnership agreements. Provides support for storage programs and monitors partnership pool activities. Monitors compliance with operational balancing agreements. Tracks nominations and actual volumes.
Senior System Gas Operations Specialist	Analyzes and monitors upstream and market area transportation contracts, operational balancing agreements, producer balancing arrangements and partnership agreements. Provides support for storage plans and monitors partnership pool activities. Coordinates EBB postings as needed in order to meet all compliance and tariff requirements. Interfaces with various groups across the organization to minimize outage customer impacts and associated revenues. Assists in development and implementation of seasonal operational plans, assessing excess capacity and tracks nominations and actuals. Supports imbalance paybacks scheduling arrangements. Assists in negotiation of partnership agreement amendments.
Director, Commercial Business	Responsible for Commercial Business activities for Dominion Energy Cove Point transportation and LNG Services. Manages all aspects of customer contracts including contract questions and concerns as well as contract renewals.
Interstate Marketing Strategic Advisor	Responsible for generating revenue through sales of existing and new natural gas transportation and storage services. Develops, promotes and directs marketing programs and service activities among existing and potential customers. Implements improvements crucial in the valuation of short and long term capacity. Independently develops models to assist in the valuation and sale of short term firm and Market Center Services capacity. Develops and maintains awareness of competitor activities and customer needs. Collects regulatory and market data, analyzes trends and identifies impact within market area.

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<b>Job Title</b>	<b>Job description</b>
Gas Business Development Advisor	Identifies and pursues development opportunities expanding the use of Liquefied Natural Gas (LNG) for Dominion Energy, including Maritime applications. Researches regulatory requirements, builds stakeholder alignments, and develops strategies to advance project concepts. Supports Dominion Energy rate case strategies and project management, including stakeholder communication and alignment, issue tracking, and driving consensus problem solving. Leads development of new projects, partnerships, and initiatives with strategic partners. Identifies and develops customer needs. Formulates service strategies and objectives designed to maintain existing customers, and to attract new customers. Represents LNG and natural gas projects to all key constituents and stakeholders. Executes and coordinates evaluation, analysis, and due diligence activities.
Director, LNG Operations	Directs operations activities to ensure compliant, safe and reliable operations. Directs all plant activities and operating and maintenance plans to include compliance inspections, periodic testing, preventative maintenance and effective record keeping.
Manager LNG Operations and Maintenance	Plans, coordinates, and manages LNG plant activities/projects.
Supervisor LNG Operations and Maintenance	Establishes priorities and oversees technical work related to the efficient operation and maintenance of the liquefied natural gas plant.
LNG Technician (Includes Senior, Lead, Associate LNG Technician)	Maintains and operates liquefied natural gas plant equipment and facilities.
Process Assistant III	Prepares and distributes the Dominion Energy Cove Point ship schedule and maintains ship data; responsible for ordering/scheduling of compressor station fluids; maintains all Cove Point documents, operating and training manuals, including site drawings of equipment & associated work orders.
Supt Cove Point Maintenance	Establishes facility maintenance priorities for planning and execution during the annual facility outage. Directs all internal personnel and outside contractors in execution of defined scope.
Supervisor LNG Shift Operations	Establishes priorities and oversees activities related to the efficient operation and maintenance of the liquefied natural gas plant.
Supt Cove Point LNG Operations	Plans, coordinates, and manages LNG production and fulfillment of commercial obligations.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Manager, LNG Technical Services	Responsible for the design, operations, and maintenance of LNG processing facilities, Directs development of construction projects, including scope, schedule, budget, design, material and equipment standards. Participates in the design, commissioning, and support of new facilities or processes.
<b>ELECTRIC TRANSMISSION</b>	
<b>Dominion Energy South Carolina ("DESC")</b>	
<b>Electric Transmission (DESC)</b>	
DESC VP - Electric Transmission	The Electric Transmission Officer is responsible for System Control; Operations Planning; Transmission Planning; ERO compliance; Transmission Training; Transmission Rates; Transmission Tariff; System Control Computer Support; and Transmission customers, contracts, and billing.
<b>System Control Computer Support (DESC)</b>	
Mgr – System Control Comp Supp	Supervise Energy Management System (EMS) computer support department. Responsibilities include assuring proper operation of Energy Management System for monitoring, controlling, and studying the power network as well as providing direction for future EMS development to support the FERC, NERC, and System Control internal requirements. Persons in this position may also be responsible for the implementation of the Company's CIP program.
Analyst – Infrastructure V	Provide support for Energy Management System computer infrastructure. Responsibilities include supporting operating systems and databases; evaluating, planning and coordinating the installation, implementation, and maintenance of EMS functional components; designing and developing computer applications systems; and providing support for MS Windows and AIX hardware/software platforms, computer network management, security patch management, anti-virus software maintenance, electronic access controls, electronic access monitoring, information protection, test procedures, incident response planning and recovery plans.



## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Analyst – Infrastructure V	Provide Energy Management Application Software and Energy Management System product set maintenance and support. Responsibilities include supporting operating systems, databases, computer configuration and local area network; evaluating, planning and coordinating the installation, implementation, and maintenance of EMS functional components; designing and developing computer applications systems; and analyzing the development of solutions for major computer problems.
Analyst – Infrastructure IV	Provide technical support for compliance with NERC Critical Infrastructure Protection (CIP) Cyber Security Standards as well as for other NERC, FERC, and Homeland Security regulatory requirements. Assist with the development and maintenance of CIP policies and procedures to ensure compliance for Critical Cyber Asset (CCA) networks, applications and hardware. Provide support for Energy Management System (EMS) hardware and software, functional applications, computer network management and user interfaces.
Engineer - I	Provide support for Energy Management System (EMS) computer infrastructure. Responsibilities include providing support for MS Windows and AIX hardware/software platforms, computer network management, security patch management, anti-virus software maintenance, electronic access controls, electronic access monitoring, information protection, test procedures, incident response planning and recovery plans. The primary focus of this position is to assist in the development and enhancement of processes, procedures, and other deliverables required for compliance with evolving NERC CIP Cyber Security Standards.
Engineer - IV	This engineering position will be responsible for the support of the Energy Management System as well as a backup resource for the other members of EMS Engineering Application team. Primary duties are the day to day maintenance, patching, and support of the EMS. The backup coverage includes but not limited to resolving Power System Analysis (State Estimator, Contingency Analysis) issues and supporting the Operator Training Simulator. This position is responsible for assisting the team in maintaining NERC/SERC compliance. Serves as a point of contact related to DESC for Electric Reliability Organization compliance audits. Utilizes critical thinking and analysis skills to determine the best engineering solution on cross functional EMS engineering projects such as converting an energy transaction schedule into a pseudo tie. Plans, designs, analyzes, troubleshoots, maintains and supports hardware, software, and databases. Plans and directs engineering or modified system designs in a safe, reliable and efficient manner.
Engineer – Network III	Provide technical support for compliance with NERC Critical Infrastructure Protection (CIP) Cyber Security Standards as well as for other NERC, FERC, and Homeland Security regulatory requirements. Assist with the development and maintenance of CIP policies and procedures to ensure compliance for Critical Cyber Asset (CCA) networks, applications and hardware. Provide support for Energy Management System (EMS) hardware and software, functional applications, computer network management and user interfaces.
Programmer System II	Provide System Application Software, Basic Application Software and Energy Management System product set maintenance and support. Responsibilities include supporting databases and computer configuration; planning and coordinating the installation, implementation, and maintenance of EMS functional components; designing and developing advanced computer applications systems; and analyzing and solving computer problems.

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<b>Job Title</b>	<b>Job description</b>
Programmer System II	Provide System Application Software, Basic Application Software and Energy Management System product set maintenance and support. Responsibilities include supporting operating systems, databases, and computer configuration; planning and coordinating the installation, implementation, and maintenance of EMS functional components; designing and developing advanced computer applications systems; analyzing and solving computer problems; developing and maintaining Inter-Regional Security Network (ISN) ICCP node; and assisting other programmers.
Supv – Energy Mgt Sys Engr Applc	Provide daily supervision of personnel supporting EMS applications such as SCADA, Automatic Generation Control (AGC), Control Performance Standards (CPS), Network Applications, Operator Training Simulator and Load Shed. Provide EMS technical support and maintenance for SCADA, AGC, CPS, and reliability applications to support System Control and Operations Planning.
Engineer – IV	Provide EMS technical support and maintenance for SCADA, Automatic Generation Control (AGC) and Control Performance Standards (CPS).
Engineer III	Provide EMS technical support and maintenance for the Network Applications power system model, Network Application tools used for contingency/reliability analyses, and the Operator Training Simulator used for training System Controllers.
Analyst – Infrastructure IV	Provide technical support and maintenance for the Energy Management System (EMS) computer infrastructure. Responsibilities include support for Network Applications power system models, mapping of real-time data visualization tools used to display real-time measurements/study results, technical support for the EMS data historian(s), alarm descriptions, and development of operating guides.
<b>Electric Transmission Support (DESC)</b>	

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### **Job Title**

Mgr – Elec Transmission Sup – DESC

### **Job description**

This position is responsible for all wholesale transmission customers and contracts; for administration, filing and managing the DESC OATT; electric transmission rate analysis and filing; determining whether customers meet the DESC OATT credit requirements; managing the administration of billing and accounting; reviewing, tracking and analyzing standards and requirements of NAESB and other FERC documents.

Engineer – III

The position is responsible for administering DESC's interconnection programs and assisting with the other functions of the Electric Transmission Support Department.

Analyst - Sr.

The position is responsible for assisting with the administration of DESC's interconnection programs and assisting with the other functions of the Electric Transmission Support Department.

### **Operations Planning (DESC)**

Mgr – Operations Planning

Manages the Operations Planning Department in preparation of Load Forecasts of Native Load Customer Demand, reviews/approves resource commitment plan to meet Native Load Customer Demand while ensuring adequate Reserve Obligations are maintained and oversees energy accounting with neighboring utilities. Directly advises System Controllers on resource dispatch decisions. Communicates with generating plants within Control Area to coordinate outages/reduction information. Oversees real-time load flow and contingency analysis. Additional responsibilities include the participation in various national, regional, and local organizations to represent DESC and to take part in industry task forces dealing with operational and strategic issues.

Engineer - III

Serves as a Subject Matter Expert in the areas of: preparation for and participation in internal and external compliance audits; developing and delivering training for Transmission Operations to NERC-Certified System Operators; developing tools and processes/procedures for Operations Planning/System Control groups including OATI products; interfacing with DESC nuclear plant personnel to develop and maintain interface agreements and other required regulatory procedures. Represents DESC on various VACAR committees and serves in leadership roles on those committees as required. This position may also assist with other Operations Planning support functions such as: prepares forecasts of Native Load Customer Demand and reviews/approves resource commitment plan; directly advises System Controllers on resource dispatch decisions; communicates with generating plants to coordinate outages/reduction information; performs preliminary load flow and transfer studies and analyzes system conditions and contingencies.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Engineer – III	Prepares forecasts of Native Load Customer Demand and reviews/approves resource commitment plan. Directly advises System Controllers on resource dispatch decisions. Communicates with generating plants to coordinate outages/reduction information. Assists in Transmission Billing calculations and month end energy accounting with neighboring utilities. Performs preliminary load flow and transfer studies and analyzes system conditions and contingencies.
Supv – Reliability Desk	Supervises and provides direction to the Reliability Desk group within the Operations Planning department; responds to emergency situations and provides direction for implementing solutions; ensures compliance with SERC, NERC, and FERC requirements related to the Reliability Desk functions; provides technical expertise for software systems and models.
Spec – Power Sup Reliability III	Responsible for contingency analysis and reliability analysis of transmission system. This position has the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System. Employees responsible for the operation and maintenance of generation and transmission equipment are subject to this authority. This position is responsible for complying with the NERC Certification at the highest level (currently Reliability Operator). Has a leadership role on the Desk by 1) conducting training of Reliability Specialist on scenarios and solutions to ensure all staff are properly trained and prepared to implement solutions. 2) reviewing, developing, and updating procedures and job aids to mitigate reliability issues, and 3) training, mentoring, and coaching other Reliability Specialist on how to monitor and protect the reliability of the BES.
Spec – Power Sup Reliability II	Responsible for contingency analysis and reliability analysis of transmission system. This position has the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System. Employees responsible for the operation and maintenance of generation and transmission equipment are subject to this authority. This position is responsible for complying with the NERC Certification at the highest level (currently Reliability Operator).
Spec – Power Sup Reliability I	This position is responsible for developing an understanding of contingency analysis and reliability analysis of the transmission system, as well as developing an understanding of the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System. This is a trainee position. As a trainee, upon completion of NERC Certification at the highest level (currently Reliability Operator), this position may fulfill duties of a Power Sup Reliability Spec II on a temporary basis to finalize training.
<b>System Control (DESC)</b>	

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<b>Job Title</b>	<b>Job description</b>
Mgr – System Control Center	This position is responsible for directing activities associated with the continuous operation and maintenance of the bulk electric generation and transmission system. Additional responsibilities include the participation in various national, regional, and local organizations to represent DESC and to take part in industry task forces dealing with operational and strategic issues.
Controller – System – Sr.	This position is responsible for the coordination of transmission outage requests and generation resources, and directing shift activities in the control room as well as duties listed under the System Controller position. This position has the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System. Employees responsible for the operation and maintenance of generation and transmission equipment are subject to this authority. This position is responsible for complying with the NERC reliability standards and must hold and maintain NERC Certification at the highest level (currently Reliability Operator).
Project Manager – System Control	This position is responsible for various DESC projects related to operation of the Bulk Electric System (BES). This position is System Control's primary Subject Matter Expert (SME) in matters related to department operations, tools, equipment, NERC Standards, etc. This position also interacts directly with subject matter experts (SME's) from other internal company groups such as Generation, Power Delivery, Distribution, Communications, IT, etc. to consult and advise on system control activities, capabilities and projects to ensure consistent and reliable communication and successful completion, implementation, and operation of coordinating and completing tasks required to fulfill department responsibilities such as regulatory and regional reporting.
Trainer – Operations	This position is responsible for organizing and providing continuing education training to existing System Controllers as well as preparation training to Associate System Controllers.
Supv – System Control Center	This position is responsible for directing shift activities in the control center and providing oversight to the system controllers on shift, as well as duties listed under System Controller position.
Controller – System	This position is responsible for operational coordination of generation resources, monitoring and controlling the DESC transmission to ensure reliable interconnected system operations and management of DESC's open access transmission and ancillary service market. These duties include real time generation control, real time interchange transaction and transmission access management, real time security coordination, transmission switching, and coordination of transmission field operations. This position has the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System. Employees responsible for the operation and maintenance of generation and transmission equipment are subject to this authority. This position is responsible for complying with the NERC reliability standards and must hold and maintain NERC Certification at the highest level (currently Reliability Operator).

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

Job Title Transmission Planning (DESC)	Job description
Mgr – Transmission Planning	This position is responsible for the analysis and planning of Dominion Energy South Carolina's transmission network for service to customers and all interconnection transmission facilities with neighboring utilities. This includes future planning studies, system performance appraisal studies and analytical studies dealing with the steady state and dynamic operation of interconnected power systems. This position participates in a number of sub-regional, regional and inter-regional (NERC) reliability groups that focus on the future development of the overall interconnected network. Responsible for system impact studies to support transmission service requests, generator interconnections, modeling and for the calculation of available transfer capability (13 months or longer). Responsible for studies with other transmission providers to assure the coordinated operation of a reliable bulk power system on a regional and inter-regional basis. Also participates in other NERC reliability activities and develops appropriate operating procedures and guidelines for use by System Operations.
Analyst - Sr.	This position assists the Manager of Transmission Planning with various departmental administration activities, including coordination of SCRTP meetings and SCRTP website access and content. This position also is responsible for assisting the Transmission Planning engineers with transmission studies. Reviews and updates power system models for planning purposes. This position serves on industry working groups and committees relating to power flow and transfer capability.
Engineer – IV	This position oversees and manages the schedule and report creation for all Feasibility, System Impact, Optional Upgrade and Facilities Studies associated with Transmission Service Requests and Generator Interconnection requests per the DESC OATT and the SCGIP. Coordinates all associated departmental study efforts and tracks/post actual study performance. Performs motor start studies, breaker evaluations, ground switch analysis and equivalent outside modeling.
Engineer – Sr.	This position performs studies of transmission expansion projects. Performs Generator Interconnection studies. Supports Transmission Operators, Transmission Engineering, Substation Engineering, and System Protection on issues related to the implementation of projects. Creates and maintains the power system models (base cases) used in power flow and dynamics simulators for planning purposes. Performs studies to determine compliance with applicable planning standards and criteria over the 10 year planning horizon. Maintains computer simulation software. Performs special studies of emergent transmission system conditions. Supports System Control by providing information and training to System Control personnel on transmission constraints and operating procedures that will reduce or remove the constraints. This position assists in conducting stability studies on DESC's system as required by system events, the NRC, emergent system needs, or to evaluate proposed interconnected generators. Determines the seasonal and future power transfer capabilities of the DESC transmission system. Conducts Impact Studies and Facility Studies, as required to evaluate the impact of a transmission service request on system transfer capability. Other responsibilities include the analyses of LIDAR results of transmission facilities, overseeing transmission line rating changes, and maintaining transmission line ratings in the transmission facilities database. This position assists in meeting reliability standard compliance and providing documentation in support of ERO audits. Serves on industry working groups and committees relating to power flow, stability, and transfer capability.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Engineer – IV

### Job description

This position is responsible for determining options on the transmission/distribution systems to serve new Transmission/distribution load and growth in existing transmission/distribution load. This position conducts Feasibility, System Impact, Optional Upgrade and Facility Studies associated with Transmission Service Requests and Generator Interconnection requests per the DESC OATT. This position develops load connection projects and service modifications and improvements for distribution and industrial customers and provides input into the development of the dispersed substation load forecast to be used in power system modeling. This position also assists in managing the associated study contracts and tracks/posts actual study performance. Other responsibilities include the analyses of LIDAR results of transmission facilities. This position assists in meeting reliability standard compliance and providing documentation in support of ERO audits. This position investigates computer software applications for use in Transmission Planning studies. This position serves on industry working groups related to dynamics and interconnections. This position supports Transmission Planning's interactions with generation operations.

Engineer – IV

This position performs departmental work responsibilities including participating in the Electric Reliability Organization (ERO) Standards development process, ensuring DESC compliance to approved and applicable ERO standards related to planning and system design, planning of transmission facilities including contingency analyses, alternative development and evaluation, solution selection, power circuit breaker analyses, transmission stability analyses and power system base case development. Other responsibilities include performing transmission and sub-transmission planning studies, conducting Generator Interconnect Feasibility Studies, System Impact Studies, and Facilities Studies for new generators that request connection to the DESC transmission system. Responsibilities also include conducting similar studies for wholesale customers who request Transmission Service on the DESC transmission system, Capacity Benefit Margin (CBM) and Transmission Reliability Margin (TRM) determination and reporting. Additional responsibilities include analyzing transmission projects schedule impacts on operations, providing information and training to System Control personnel on transmission constraints and operating guides that will reduce or remove the constraints. Also, this position assists in the development of the dispersed substation load forecast to be used in power system modeling. This position performs system loss studies. An additional responsibility of this position is to perform geomagnetic disturbance studies. This position serves on industry working groups and committees relating to power flow, stability, transfer capability, variable energy resources, and geomagnetic disturbances.

Engineer – IV

This position assists in departmental work responsibilities including participating in the Electric Reliability Organization (ERO) Standards development process, ensuring DESC compliance to approved and applicable ERO standards related to planning and system design, planning of transmission facilities including contingency analyses, alternative development and evaluation, solution selection, power circuit breaker analyses, transmission stability analyses and power system base case development. Other departmental responsibilities include conducting Generator Interconnect Feasibility Studies, System Impact Studies, and Facility Studies for new generators that request connection to the DESC transmission system. Departmental responsibility also includes conducting similar studies for wholesale customers who request Transmission Service on the DESC transmission system, Capacity Benefit Margin (CBM) and Transmission Reliability Margin (TRM) determination and reporting. In addition, this position perform transmission loss studies, and assists in performing motor start studies, breaker evaluations, ground switch analysis and equivalent outside modeling. Additional departmental responsibilities include analyzing transmission projects schedule impacts on operations, providing information and training to System Control personnel on transmission constraints and operating guides that will reduce or remove the constraints. Also, this position develops load connection projects and service modifications and improvements. Works with Distribution Planning Operations and the Electric Transmission Support Group to determine the best overall alternative. Assists in determining the adequacy of reactive resources. Tests and confirms that DESC's power system (46kV and 33kV) is in compliance with applicable planning standards and criteria over the next 10 years. Performs studies to support System Control and Transmission Operations in the operation and maintenance of DESC's 46kV and 33kV systems.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### **Job Title**

Engineer – IV

### **Job description**

This position determines the adequacy of reactive resources. This position assists in departmental work responsibilities including participating in the Electric Reliability Organization (ERO) Standards development process, ensuring DESC compliance to approved and applicable ERO standards related to planning and system design, planning of transmission facilities including contingency analyses, alternative development and evaluation, solution selection, power circuit breaker analyses, transmission stability analyses and power system base case development. Other departmental responsibilities include conducting Generator Interconnect Feasibility Studies, System Impact Studies, and Facility Studies for new generators that request connection to the DESC transmission system. Departmental responsibility also includes conducting similar studies for wholesale customers who request Transmission Service on the DESC transmission system, Capacity Benefit Margin (CBM) and Transmission Reliability Margin (TRM) determination and reporting. Additional departmental responsibilities include analyzing transmission projects, schedule impacts on operations, providing information and training to System Control personnel on transmission constraints and operating guides that will reduce or remove the constraints. Also, this position develops load connection projects and service modifications and improvements. Assists in determining the adequacy of reactive resources. Works with Distribution Planning Operations and the Electric Transmission Support Group to determine the best overall alternative. Tests and confirms that DESC's power system (46kV and 33kV) is in compliance with applicable planning standards and criteria over the next 10 years. Performs studies to support System Control and Transmission Operations in the operation and maintenance of DESC's 46kV and 33kV systems.

Engineer – II

This position assists in and may perform studies for internal planning and transmission expansion projects and to support System Control and Transmission Operations in the operation and maintenance of DESC's for 33kV – 230kV voltage level facilities. This position assists in evaluating transmission service requests under DESC's OATT. Assists in performing substation dispersed load forecasting and load data validation. Determines the adequacy of reactive resources. Assists in creating and maintaining the power system models (base cases) used in power flow and dynamics simulators for planning purposes. This position assists in conducting Generator Interconnect Feasibility Studies, System Impact Studies, and Facilities Studies for new generators that request connection to the DESC transmission system. This position assists in performing stability studies on the DESC and the interconnected system. In addition, this position assists in performing transmission loss studies, and assists in performing motor start studies, breaker evaluations, ground switch analysis and equivalent outside modeling. This position assists in meeting reliability standard compliance and providing documentation in support of ERO audits. Serves on industry working groups and committees relating to reactive resources and voltage requirements.

**Electric Transmission Engineering and Field Operations (DESC)**

**Management (DESC)**

Gen Mgr – Elec Tran/Const

General manager in charge of a staff of managers and related technical staff and craft personnel responsible for the safety, engineering, design, construction, maintenance, and operations of the all existing and new electric and transmission infrastructure.



## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Mgr – Power Delivery Operations	Responsible for the maintenance and construction of transmission and substation infrastructure as directed by System Control and System Planning. Interfaces with distribution and power generation facilities to coordinate outages, relaying, and other maintenance activities. Manages a large contingent of technical and craft personnel that perform front-line functions. Responsible for 24/7 call out of same technical and craft group in order to respond to system outages or other emergencies.
Project Manager – Transmission	This position serves as the subject matter expert to consult/advise the Electric Transmission/Construction General Manager and the project management team and provide oversight for the day-to-day, tactical, and strategic operations to ensure the successful and timely completion of major transmission projects.
Senior Analyst	Power Delivery Senior Analyst will support Power Delivery Engineering and Operations Operating Units. This will include: participation in the preparation of annual capital and O&M budgets and monthly variance analysis at the operating unit, department and project levels, preparation of data for electric tariff and DSM regulatory filings, support of the capital projects including involvement with all levels of the project team to assist with budgets, work order cost analysis and close-out, property owner communications, coordination with Property Accounting, etc., maintenance of the Project Tracker system, and responsibilities related to various Operations processes and systems such as the Non-Employee Database, storm response and year-end accruals.
<b>Relay &amp; SCADA Engineering (DESC)</b>	
Mgr – System Protection & SCADA Appl	Manager in charge of a staff of engineers and technicians responsible for the design and application of protective relaying and SCADA for electric substations and transmission lines. Manager responsible for protective relay settings philosophy, protective relay settings development, relay system designs, system disturbance and fault analysis, and engineering assistance to field relay groups. Manager also personally performs these functions as well as supervises and coordinates others performing these functions.
Engineer – IV	Engineers classification performing project work associated with their assigned group including protective relay settings development, relay system designs, system disturbance and fault analysis, and engineering assistance to field relay groups.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Spec – Relay Technical III	Lead the implementation and administration of Enoserv Powerbase and RTS software to assure that relay settings and test record documentation complies with NERC reliability standards. Fulfills data requests for internal and external audits. Responsible for development and maintenance of protective relay test plans to be used by relay field operations personnel. Responsibilities also include training of field personnel, resolution of issues associated with relay testing, tracking the status of the relay testing and maintenance program, and other duties as assigned.
Spec – Relay Technical III (VACANT)	Develops protective relay standards and designs relay panels.
Spec – Relay Technical III	Responsible for the development and implementation of Engineering Access relay communications. Assists with the implementation and administration of Enoserv Powerbase and RTS software. Assists with the development and maintenance of protective relay test plans to be used by relay field operations personnel. Assist with training of field personnel, resolution of issues associated with relay testing and tracking the status of the relay testing and maintenance program.
Engineer – Sr.	Team Leader responsible for development of standards for transmission and distribution SCADA standards, RTU designs and configurations, construction of RTUs for field installation and supervision of small technical staff.
Engineer – I	Develop configurations for Transmission, Distribution, and Generating Station remote terminal units (RTUs). Manages assigned SCADA projects ensuring equipment is ordered and received on time. Coordinate with Relay Applications confirming RTU-to-Relay point mapping/settings are in synch for proper substation equipment operation. Provide EMS/DCS Computer Support accurate RTU database point mapping information. Support Relay & SCADA Operations in installation and/or troubleshooting of SCADA equipment.
Spec – Technical III	Constructs, configures and tests RTU panels, assists with trouble resolution, tracks parts repair and inventory, and other duties of assigned group.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
<b>Substation Engineering (DESC)</b>	
Mgr – Substation Engineering	Manager in charge of a staff of engineers and technicians responsible for the design of electric substations.
Engineer – Sr.	Team Leader responsible for coordinating and reviewing the design work of other engineers and technical specialists as it relates to the engineering design and retrofit of new and existing electric substation infrastructure.
Engineer – IV	Engineer classification performing project work associated with their assigned group.
Engineer – III	Engineer classification performing project work associated with their assigned group.
Engineer – I	Engineer classification performing project work associated with their assigned group.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Spec – Technical II	Technical classification performing project work associated with their assigned group.

### **Siting-Surveying & Permitting (DESC)**

Supervisor - Engineering	Supervisor in charge of a staff of engineers, technicians, and land surveyors responsible for conducting siting studies to site new substations and new transmission line corridors. Also responsible for the permitting of same.
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Engineer – IV	Engineer devoted to the routing, siting, and permitting associated with their assigned group.
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### **PD Material Equipment Standards (DESC)**

Mgr – Pwr Del Mat Equip Stand	Manager in charge of a staff of engineers, technicians, and draftsmen responsible for generating the equipment specifications and technical standards for the electric transmission and substation system, and to support the Power Delivery Engineering CAD drawing system. Also a liaison with computer IT programmers to write and modify computer programs used by the Power Delivery Engineering and Operations groups.
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## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Spec – Technical III (VACANT)	Technician classification performing project work associated with their assigned group.
Spec – Technical II	Technician classification performing project work associated with their assigned group.
Engineer – Sr.	Team Leader responsible for development and maintenance of substation electrical standards and protective relay standards. Maintains and develops substation electrical equipment specifications. Supervises design team that produces electrical standards and transmission substation electrical construction drawings involving transmission protection and control schemes. Also designs assigned substation projects requiring protective relay experience.
Spec – Technical III	Specialized drafter-designers producing CAD drawings for protective relay standards and developing detailed designs and CAD drawings for assigned substation projects.
Spec – Technical II	Specialized drafter-designers producing CAD drawings for protective relay standards and developing detailed designs and CAD drawings for assigned substation projects.
Supv – Drafting Services	Supervisor in charge of a drafting services group that produce drawings which depict the physical and electrical arrangement of electrical substations.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Draftsman – Sr.	Draftsman classification performing project CAD drawings associated with their assigned group.
Draftsman	Performing structural and electrical red-line markups on CAD drawings and limited project drafting.
<b>Transmission Engineering (DESC)</b>	
Mgr – Transmission Engineering	Manager in charge of a staff of engineers and technicians responsible for transmission line design.
Engineer – IV	Engineer classification performing project work associated with their assigned group.
Engineer – III	Engineer classification performing project work associated with their assigned group.

JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Engineer – II	Engineer classification performing project work associated with their assigned group.
Engineer – I	Engineer classification performing project work associated with their assigned group.
Spec – Technical II	Technician classification performing project work associated with their assigned group.
Spec – Technical III	Technical Classification performing project work associated with their assigned group.
<b>Dominion Energy Virginia - Electric Transmission</b>	
Director, Electric Trans System Operations Center	Directs and manages all employees of the SOC which is responsible for transmission system operations within the Dominion Energy Virginia footprint.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Manager Elec Trans SOC Operations Services	Directs and manages employees responsible for providing technical support for the Transmission System Operations Center. Provides guidance and direction to the System Operator Training team. Responsible for operations compliance and development and maintenance of operations procedures and processes. Responsible for emergency preparedness, drills, operations experience, lessons learned, and corrective actions programs.
Transmission Strategic Projects Advisor	Directs and manages employees responsible for providing technical support for the Transmission System Operations Center. Provides guidance and direction to the System Operator Training team. Responsible for operations compliance and development and maintenance of operations procedures and processes. Responsible for emergency preparedness, drills, operations experience, lessons learned, and corrective actions programs.
Manager, Elec Trans System Operations & Control	Manages the real-time operation of the electric transmission system including transmission operations, coordination with PJM, neighboring utilities, wholesale Load Serving Entities, voltage management coordination with electric generators, and coordinating with the Power Delivery. Coordinates all planned outages in the Dominion Energy transmission grid. Issues all switching orders. Responsible for the management of recovery from unplanned events, such as transmission lockouts. Ensures compliance with all regulatory requirements and Standards.
Manager Elec Trans SOC Operations Eng	Directs the operation and support of System Operation's Energy Management System which provides 24 hour/7 day/week real-time monitoring and control of the Company's electric transmission system.
Manager Electric Trans System Oper Planning	Oversees the engineering support required by the System Operations Center for real-time and Operational Planning. Assists with the assessment, analysis, and recommendation of current and new projects to ensure scope is defined, design basis and schedule are determined and maintained. Provides engineering support to Project Management for outage scheduling, constructability issues, and overall project support. Studies all planned transmission outages, manages and collaborates outage efforts with PJM and neighboring utilities. Provide adequate updates to all departments of system conditions, contingency reports and overall outage schedule progression.
ET SOC Integration Support Specialist	Makes relay panel control changes and station layout changes to reference files and engineering control prints. Recommends and distributes Energy Management System updates and revisions associated with Substation project work. Works with control panel, protective relaying, alarm panel, communications, remote terminal unit, and primary power equipment technical drawing activities. Reviews accuracy of engineering control and operating one-line drawings. Develops new station protective relay reference files and manuals. Tracks substation projects. Assigns new transmission line and substation operation numbers.



## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Engineering Technical Consultant	Provides strong technical expertise and project leadership. Responsible for providing expert technical support, direction and advice for the development of projects, programs and engineering products. Performs engineering evaluations, calculations, analysis and design to support the requirements of the System Operations Center. Develops and delivers training and operational simulations for the System Operations Center.
ET SOC Operations Services Consultant	Provides training, compliance, and procedural advice and support in operational, technical, simulation, compliance and incident response areas of the control center. Specific duties include developing and standardizing operational, training and compliance processes to operate the Bulk Electric System safely and reliably,
Contractor, Electric Transmission Operations	Supports the operations of the transmission power system to maintain a reliable energy supply and assists in ensuring the protective safety of personnel and equipment.
Engineer (includes Engineer I, II, III)	Provides engineering support including engineering calculations, analysis, research and design.
Engineering Technical Specialist III	Supports the modeling of the transmission system, maintenance of various displays and project outage coordination. Coordinates and delivers training to operations personnel. Coordinates with and provide technical assistance to various engineering, operations and field teams and PJM. Performs, reviews and analyzes highly detailed power flow and stability studies for real-time and short term time periods to ensure transmission system reliability. Studies equipment outages to ensure completion of planned and emergency transmission system work while maintaining required levels of system reliability. Supports System Operators to resolve real-time operational issues and contingency violations and is responsible to remedy real-time system failures. Interfaces and provides communications and study results to System Operators, PJM outage schedulers and Reliability Engineers.
Consulting Engineer	Responsible for providing engineering support, direction and advice for the development of projects, programs, engineering products that support the EMS applications and outage coordination and the System Operations Center. Provides expert technical knowledge and leadership to the electric transmission organization. Leads engineering personnel within the SOC Planning team and helps direct technical matters, provide improvements to tools and processes. Assists with the development of training material and provides specific technical training and assessment for new team members. Provides high level oversight for study processes to ensure consistency among the engineering staff. Performs studies for specific system conditions to ensure long term viability of associated work while maintaining required system reliability. Is a liaison between electric transmission, distribution and generation groups to ensure key issues are understood and needed updates or changes are made.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Assoc Transmission System Operator	Perform voltage and alarm duties under direct supervision of a qualified operator.
Transmission System Operator	Operates the transmission power system to maintain a reliable energy supply and protect the safety of personnel and equipment.
Senior Transmission System Operator	Responsible for taking real-time actions to maintain the reliability of the Bulk Electric System during normal and emergency conditions. Monitors and regulates the flow of power among interconnected entities. Prepares switching orders to isolate work areas and provide a safe zone of protection for field personnel and equipment. Remotely operates substation equipment to assist in voltage control and reactive power flow.
Supv Electric Transmission Operations	Supervises system operators and schedules generation/interchange to provide resources to meet load requirements in most reliable, economical and safest manner.
Electric Transmission System Operations Consultant	Approves energizing procedures to switch new equipment. Create and adjust the operators work schedule. Assist the operators with real time switching conflicts. The contact for switching issues, operating issues and remote terminal unit issues. Verify construction updates, EMS and wall board updates.
ET SOC Outage Coordinator	Coordinates and sequences Electric Transmission equipment outages. Coordinates, reviews and uses operating instructions to ensure accuracy of switching requests. Ensure that internal outage requests are properly transmitted to the PJM system in the required timeframe to ensure on-time status. Provide direct support to system operators regarding outage requests, reschedule projects as necessary and support emergency request processing. Work closely with ROC personnel to ensure that appropriate power delivery activities are arranged as related to transmission requests, to include required distribution switching requests and arranging switchmen for transmission work. Interface and provides communications to System Operators, Project Managers, Transmission Operations and Construction teams, Generation Operators, Electric Cooperatives, Interconnect Utilities, Key Account Management and Regional Operating Centers.