

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
<b>ELECTRIC TRANSMISSION</b>	
<b>Dominion Energy South Carolina ("DESC")</b>	
<b>Electric Transmission (DESC)</b>	
Director Electric Transmission Planning & System Operations DESC	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>	
Manager-Electric Transmission System Operations Engineering	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.
Engineer III	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 the EMS engineering Application team. Primary duties are the day to day maintenance 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 II	Perform the modeling of Dominion's Transmission system such as SCADA modeling and configurations, network topology, equipment ratings and parameter impedances as well as the maintenance of various operator displays. Coordinate with and provide technical assistance to various engineering, operations, and field teams to fully maintain the Energy Management Systems (EMS). Support the development of tools to improve situational awareness in the operations control room participate in various company teams and industry-level organizations to enhance Electric Transmission's system operations performance.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
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.
Electric Transmission System Control Analyst (DESC)	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.
Energy Management System Operations Consultant	Provide daily oversight 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 III	Provide EMS technical support and maintenance for SCADA, Automatic Generation Control (AGC) and Control Performance Standards (CPS).
Engineer II	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.
Engineering Technical Specialist III	This role is the top progression level in the Engineering Technical Specialist series. Distinguished from the Engineering Technical Specialist II by the increased complexity in the application of technical and engineering skills and knowledge. Performs difficult and complex work requiring strong technical skills and significant knowledge and experience within the functional area or specific engineering discipline. This role does not function as a technician in modifying, operating or maintaining systems or equipment. Provides expert technical support, direction and advice in analyzing and evaluating systems, equipment and programs. Plans and conducts work requiring judgment in the independent evaluation, selection, adaptation and modification of standard techniques, procedures and criteria. Devises new approaches to problems encountered and develops engineering criteria ensuring compliance with design criteria and standards. Implements technology within an engineering field. Focuses on the practical application of engineering theories; determines how to make the designs and plans of engineers work. Applies scientific and engineering principles and methods, along with technical skills, to support engineering activities. May perform product improvement, testing, field engineering, development, manufacturing, construction, systems development, quality control, and operational engineering. May perform some design and theoretical work, but does not possess the educational background to function as an engineer. May perform same work as titled Engineers, but possesses an engineering degree which is not ABET accredited. May provide technical project management including scoping, scheduling, budget development, cost tracking and oversight of complex projects to meet cost and time objectives. Perform other duties as requested or assigned.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

Job Title	Job description
Electric Transmission Support (DESC)	
Manager-Electric Transmission Support	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.
Senior Business Performance Analyst	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)	
Manager-Electric Transmission System Operations Planning	Manages the Operations Planning Department in preparation of Load Forecasts of Balancing Area Load Demand, reviews/approves resource commitment plan to meet Native and Balancing Area Load 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 transmission personnel and generating plants within Balancing Area to coordinate outages and generation 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.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Power Supply Reliability Specialist III

### Job description

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 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 Balancing Area Load 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.

Power Supply Reliability Specialist II

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. This position may also assist with other Operations Planning support functions such as: prepares forecasts of Balancing Area Load 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.

Engineer II

Prepares forecasts of Balancing Area Load 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.

Supervisor-Electric Transmission Operations

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.

Power Supply Reliability Specialist 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.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Power Supply Reliability Specialist II

### Job description

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).

Power Supply Reliability Specialist 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.

### System Control (DESC)

Manager-Electric Transmission System Operations & Control

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.

Electric Transmission SOC Operations Coordinator - VACANT

This position is responsible for organizing and providing continuing education training to existing System Operators as well as preparation training to Associate System Operators.

ET SOC Outage Coordinator

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).

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Electric Transmission System Operations Consultant

### Job description

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.

Supervisor-Electric Transmission Operations

This position is responsible for directing shift activities in the control center and providing oversight to the system operators on shift, as well as duties listed under System Operator position.

Senior System Operator

This position is responsible for issuing switching instructions and clearances to crews on a suitable transmission. Dispatch line crews to perform line construction, operations or maintenance. Deliver switching orders to the field for transmission or substation elements. Develop procedures pertaining to transmission or power plant operations. Implement energy schedules and interchange contracts for energy sales or purchase agreements and perform other duties as requested or assigned.

System Operator

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).

Associate System Operator

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 developing an understanding of 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 is a trainee position. As a trainee, upon completion of NERC Certification, this position may fulfill duties of a System Operator on a temporary basis to finalize training.

**Transmission Planning (DESC)**

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Manager-Electric Transmission Planning Engineering

### Job description

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.

Electric Transmission SOC Operations Coordinator

This position is responsible for organizing and providing continuing education training to existing System Operators as well as preparation training to Associate System Operators.

Consulting Engineer

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 II

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 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.

Engineer III

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.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Consulting Engineer

### Job description

This position is responsible for performing various advanced DESC planning studies and assessing emerging tools and processes needed in the new era of distributed energy resources. One of the main job functions of this position is to identify deficiencies in the DESC transmission system over the next 10 years as related to the NERC reliability standards. This engineer also is responsible for developing alternatives, analyzing each alternative and ultimately selecting the best mitigation plan to successfully resolve identified deficiencies to ensure compliance, including major transmission expansion of the DESC transmission system. This position is also responsible for ensuring compliance with Federal Energy Regulatory Commission (FERC) mandated standards. As such, this position is an SME for NERC Reliability Standard compliance audits. This entails completing NERC Reliability Standard Audit Worksheets (RSAWS) and presenting evidence of compliance for these standards in internal and SERC Compliance Audits. This position also develops new software tools and third-party software to ensure DESC is using the latest simulation techniques to assess the reliability impact of growing solar generation on the DESC system. This position is the company's subject matter expert (SME) on these tools and technologies and actively participates in Power Delivery Engineering's project management meetings to provide information and professional expertise to ensure the design engineers understand the planned projects in order to design appropriately to ensure the project will be completed on time as scheduled. Serves as Transmission Planning's primary Subject Matter Expert (SME) and represents Dominion Energy South Carolina on various industry study groups and committees that assess the reliability and adequacy of the Bulk Electric System (BES). Interacts directly with subject matter experts (SME's) from other internal company groups (such as: Generation, Electric Reliability Organization (ERO) Compliance Group (established as a result of the 2005 US Energy Policy Act), Distribution, Resource Planning, and Power Delivery, Fossil Hydro) to consult and advise on transmission planning activities, capabilities, and projects to ensure consistent and reliable communications and successful completion, implementation and operation of projects. Duties include but are not limited to: Leading projects, researching industry trends, developing software, analyzing transmission studies, plans transmission, and adhere to NERC standards.

Engineer III

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.

Consulting Engineer

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.



## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Engineer II	<p>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.</p>
Engineer I	<p>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.</p>
<b>Electric Transmission Engineering and Field Operations (DESC)</b>	
<b>Management (DESC)</b>	
General Manager Electric Transmission Operations & Construction DESC	<p>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.</p>
Manager-Electric T&D Services	<p>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.</p>
Consulting Engineer	<p>Technical leader responsible for development of standards for transmission and distribution SCADA standards, RTU designs and configurations, and construction of RTUs for field installation.</p>

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
Relay & SCADA Engineering (DESC)	
Manager-Electric Transmission System Protection Engineering	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.
Consulting Engineer	Consulting Engineer is the Technical Leader in Relay Applications responsible for developing protective relay settings, relay design systems, system disturbance and fault analysis, and engineering assistance to field relay groups.
Engineer III	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.
Lead System Protection Technician	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.
Senior System Protection Technician (VACANT)	Develops protective relay standards and designs relay panels.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### **Job Title**

Lead System Protection Technician

### **Job description**

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 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.

Power Delivery Operations Technician III

Constructs, configures and tests RTU panels, assists with trouble resolution, tracks parts repair and inventory, and other duties of assigned group.

### **Substation Engineering (DESC)**

Manager-Electric Substation Engineering

Manager in charge of a staff of engineers and technicians responsible for the design of electric substations.

Power Delivery Standards (DESC)

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### **Job Title**

Manager-Power Delivery Standards

### **Job description**

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.

### **Transmission Engineering (DESC)**

Manager-Electric Transmission Line Engineering

Manager in charge of a staff of engineers and technicians responsible for transmission line design.

### **Dominion Energy Virginia - Electric Transmission**

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.

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.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Transmission Strategic Projects Advisor

### Job description

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.

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.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

<b>Job Title</b>	<b>Job description</b>
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.
Assoc Transmission System Operator	Perform voltage and alarm duties under direct supervision of a qualified operator.

## JOB TITLES DESCRIPTIONS FOR TRANSMISSION FUNCTION EMPLOYEES

### Job Title

Transmission System Operator

### Job description

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.