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## **TRANSMISSION FUNCTION EMPLOYEES:**

### ***Systems Operation Department***

#### *General Manager*

Directs the activities of the of the System Operation Department including formulation of personnel issues, overall responsibility for the safe and reliable operation of the Con Edison electric, steam and transmission and distribution systems and overall responsibilities for the computer systems responsible for the operation of the integrated system. Coordinate with NYISO.

### ***System Operation***

#### *Chief System Operator*

Responsible for the safe and reliable operation of the electric and steam systems. Supervises the Senior System Operators, Sequence and Scheduling Group Manager, Associate Chief System Operator, Energy Manager, and Bulk Power Trainer in the performance of their duties.

#### *Associate Chief System Operator*

Supervises the System and Transmission Operators in their duties of operating the bulk power electric system. Provides operational, technical, procedural, and incident management support to the control center on issues and events during the daily operation of the transmission system. Provides direct assistance to the Chief System Operator on operational items and concerns.

#### *Senior System Operator*

Responsible for day-to-day operation of the Con Edison electric and steam systems. Monitors the status of these systems, analyzes the effects of contingencies and scheduled outages, and implements steps to minimize their effects.

#### *System Operator*

Responsible for the real-time operation of the Con Edison electric transmission system. Coordinates the normal and emergency operation of the Con Edison electrical integrated system with the NYISO and neighboring transmission and generator owners.

#### *Transmission Operator*

Responsible to interface and coordinate operations with District Operation, directs switching on the transmission system, monitors progress of work on transmission system equipment, monitors the load management and relay protection systems, and is responsible for system voltage control. During system incidents, the TO identifies all outaged equipment and, during multiple feeder trip-out events, initiates feeder restoration efforts.

#### *Bulk Power (Trainer)*

Responsible for the training of bulk power operators for the operation of the electric and steam systems and with the coordination of these activities with the NYISO.

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*Technical Specialist*

Serve as the main liaison with the forecasting service to provide supplemental weather data to the operating personnel and perform independent forecast using established weather models. Resolve any differences between the forecasts and providing an enhanced weather forecast of both peak temperature and any predicted severe weather that may be impacting the electric or steam system.

*Energy Manager*

Manages the overall energy dispatcher function while directing the activities for the Senior Engineer. Provides operational oversight of the Con Edison steam system while assuring the steam and electric system responsibilities of the energy dispatchers are carried out in accordance with company, NYISO and regulatory requirements.

*Energy Dispatcher*

Responsible to monitor and modify system generation and dispatch the Con Edison steam system in the most economical and reliable manner possible. Assists the Senior System Operator in preparing daily reports. Functions as the key communicator between the NYISO and generation sources within the Con Edison service territory. During emergency operations, assists the System Operator in managing the generation resources. Allocates steam requirements, dispatches sufficient steam system resources and maintains required steam capacity and reserves.

*Senior Engineer*

Provides administrative, technical and engineering support for the Energy Dispatchers as relates to the control and real time dispatch of electric and steam system generation within the control area. Provide technical and analytical support to the Department General Manager, the Chief System Operator and the Energy Manager in response to operational or NYISO issues. Represent the company at the NYS Reliability Council and to the NYISO Issues Coordination Team.

*Administration*

Perform various administrative and clerical functions as it relates to maintaining and updating posting of various procedures and maps used by the various operators during the course of their day to day activities.

*Senior Specialist (Human Performance Coordinator)*

Tracks and trends human performance statistics within all of Central Operations and identifies, promotes, and communicates methods by which human performance may be improved. Provides training to the workforce on human error reduction tools, and implements human performance strategies

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*Systems Specialist*

Reviews internal and external standards and procedures, develops guidelines, policies and procedures, and monitors compliance with all policies and procedures as related to the overall physical and electronic security of essential computer systems.

***Operations Analysis***

*Section Manager*

Supervises the members of the Operations Analysis group and manage their performance. The Section Manager is responsible for the planning, organizing and controlling of the activities within the section, the overall technical accuracy of the work performed, as well as the timely completion of assignments for which the section is responsible.

*Senior Engineer*

Directs or performs specific load flow studies and analyses, and related assignments and makes independent decisions on operational problems and outage analyses. Develops methods and programs required to perform studies. Provides support of the real-time operation of the system by assessing the impact of forced outages and system upgrades, and addresses operations-related issues resulting from the expansion of the bulk power system's transmission and generation resources.

*Engineer/Assoc Engineer*

Provides support of the real-time operation of the system by assessing the impact of forced outages and system upgrades, and addresses operations-related issues resulting from the expansion of the bulk power system's transmission and generation resources.

***Sequence and Scheduling***

*Section Manager*

Responsible for the coordination of generation and transmission outages with Company forces, NYISO, and neighboring transmission and generator owners as well as assuring the final review, approval, and scheduling of distribution system planned outages. Directs the activities of the Systems specialists and District Operators in the performance of their duties.

*Senior Planning Analyst (Sequence)*

Develops outage requirements and construction sequence for all major capital projects. Has the lead role in interfacing between control center operator/staff, Planners, and Regional Customer Service groups to coordinate planned outages and work efforts required to restore major transmission facilities out of service due to unplanned outages.

*District Operator (Scheduling)*

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Responsible for final review and processing of all scheduled transmission, sub-transmission, generator, and distribution outages on the Con Edison System and on interconnected facilities. Coordinates and makes notifications to all required agencies including the NYISO and interconnected Transmission and Generation Owners.

## ***District Operation***

### *Chief District Operator*

Directs the District Operation Section, which is responsible for the electrical operating process that assures the safe and reliable operation of the electric transmission and distribution systems. This includes the safety of interconnected operation with independent power producers, divested generators, high-tension customers, transit systems and other utilities.

### *Associate Chief System Operator*

Supervise The District Operators at the Energy Control Center in the daily operation of the electric system. Responsibilities include directing responses to emergencies, providing adequate staffing, monitoring performance and scheduling of resources.

### *Senior District Operator*

#### *District Operator*

Responsible for coordinating the operation of the electric system in accordance with established rules, procedures and specifications in the five boroughs of New York City and Westchester County to insure safety to personnel, reliability of equipment and continuity of service to customers.

### *Telephone Coordinator*

Coordinates the operations associated with the maintenance of the company's leased telephone line systems that are utilized for high-speed relay protection on transmission and distribution equipment as well as communication lines for connecting SCADA systems to substations. Interfaces with primary service providers such as AT&T and Verizon.

### *Senior District Operator (Trainer)*

Responsible for training of District Operators for the operation of the electric and distribution systems.

## ***Central Information***

### *Section Manager*

Coordinate reporting requirements. Review incident correctness and notifications. Coordinate the operation and testing of the Central Information group's systems and develop enhancements to improve effectiveness and efficiency. Review and prepare System Operation Procedures for the Central Information Group. Perform periodic audits of the staff for compliance with procedures and communications.

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*Senior Specialist*

*Specialist*

Receive information on all major Company problems and make notifications to appropriate Company personnel and public agencies. Seek out additional facts in any incident he/she feels is not thoroughly or correctly explained. Compile the morning reports. Keep aware of the status of the power generating equipment, maintain a 24 hour chronological log of system events, schedule and issue work outage lists, establish priorities on equipment repairs to insure minimal downtime. Provide and maintain up to date information on the electric and steam systems' demands and capacities, and the status of each generating station. Coordinate the flow of information on the condition of the system and station requirements. Review and prepare System Operation Procedures for the Central Information Group. Perform periodic audits of the Specialists for compliance with procedures and communications. Assist in providing required documentation for internal and external audits. Administer the issuance of the Daily Report.

***Computer Operations and Engineering Department***

*Department Manager*

Directs the activities of the Computer and Operations Engineering section that provides technical support for the Energy Control Center's critical computer systems and engineering support for power system analysis, new systems development and the Dispatcher Training Simulator.

Responsible for the operation of the department office, coordination of O&M and Capital budgets and the coordination of facility and R&D related projects, and overall facility security.

*Associate Specialist*

Responsible for coordination of department office activities. Support of department purchase orders and invoicing. Responsible for coordination of departmental procedures, training and administration of adherence to corporate standards.

*Engineer*

Responsible for Critical Infrastructure Protection standard compliance, oversight of compliance program and coordination of all department activities associated with compliance tracking and adherence.

*Transmission Operator*

Conducts engineering and operational analysis associated with operational needs and system functionality for the System Operations Energy Management System (EMS) at the primary Energy Control Center and at the Alternate Energy Control Center. Responsible for special projects associated with the facility light and power systems.

*Energy Management Systems*

*Systems Manager*

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Directs all activities of this section, which includes responsibility for all aspects of the Energy Management System (EMS) as it applies to System Operation, the company and the NYISO. Responsible for EMS system, functionality and all the support applications providing supervisory and controlling capability of the Electric transmission and distribution systems, and the Steam system. Oversees the design and maintenance of power engineering application analysis software used in System Operation.

*Senior Engineer*

*Engineer*

*Senior System Analyst*

*System Analyst*

Maintain the performance of Energy Management System applications and implement enhancements to maintain and improve effectiveness. Responsible for all database and display systems updates and maintenance. Review all prospective system changes to the Energy Management System, develop solutions to meet operations needs and perform power flow analysis studies. Support and maintain power engineering application software, state estimator and contingency analysis applications. Liaison to the NYISO staff.

#### *Operations Management Systems*

*Systems Manager*

Directs all activities of this section, which includes responsibility for all aspects of the Operations Management System (OMS). Responsible for the multiple computer systems and intelligent application services that support feeder processing information and management. Responsible for the systems that electronically transmit operational orders to field organizations and support of user interfaces.

*Senior System Analyst*

*System Analyst*

Supports daily needs of operators using the multiple OMS systems. Supports vendor implementation of systems. Responsible for resolving system problems associated with multiple interfaces. Coordinate with other company departments the application interfaces development and sharing of data required for transmission of operating orders.

#### *Technical Support and Networks*

*System Specialist*

Directs all activities of this section, which includes responsibility for the operation of the EMS computers, workstations and computer networks. Responsible for the computer network installation, integrity and security, EMS and workstation computer hardware and the 24/7 monitoring and maintenance of all computer systems and peripherals. Supervises and directs work assignments for support technicians in the checkout and repair of supervisory control and communication equipment.

#### *Technical Support and Networks*

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*Systems Specialist*

*Sr. System Analyst*

*Technicians*

Responsible for the development, operation and maintenance of the ECC computer network, and the myriad of small computer systems throughout the Energy Control Center. Responsible for maintaining computer data security, cyber security and overall network performance.

*Technical Supervisor*

Supervises the operating position that is responsible for the continuous monitoring of the ECC' s control center computer systems, providing 24/7 coverage of all computer system. Responsible for evaluating EMS/OMS performance, monitoring computer system needs and scheduling routine maintenance.

*Associate Engineer A*

*System Analyst*

*Specialist*

Responsible for the 24/7-shift coverage of computer systems that support the Energy Control Center (ECC). This includes the electric transmission and distribution EMS systems, the OMS System that allows the operators to track and record critical switching operations, and all subsystems associated with the operation of the ECC. Responsible for 24/7 monitoring of the performance of energy management system applications and hardware. Utilize latest hardware and software diagnostics to identify and repair computer operational problems.

*Facilities Support*

*Senior Engineer*

Responsible for the ECC facility. Supervise and schedule all mechanical and electrical work within the facility. Provide project management for building related projects. Responsible for maintaining facility physical security and access control, as well as oversight of security personnel. Responsible for oversight of facility environmental, health and safety matters.