

# Consolidated Edison Company of New York

## TRANSMISSION FUNCTION EMPLOYEES

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### *System Operation Department*

#### *General Manager*

Directs the activities of the of the System Operation Department, including overall responsibility for the safe and reliable operation of the Con Edison electric, steam, transmission and distribution systems and overall responsibilities for the computer systems responsible for the operation of the integrated system and coordination with the New York Independent System Operator (NYISO).

### *STO System Operations*

#### *Chief System Operator*

Responsible for the safe and reliable operation of the electric and steam systems. Supervises the Associate Chief System Operators, Energy Manager, and Project Specialists, Weather Analysis and Compliance, in the performance of their duties.

#### *Associate Chief System Operator*

Supervises the Senior System Operators, System Operators, 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.

Supervises the members of the Operations Analysis group and manages their performance. 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.

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 Senior Planning Analysts and District Operators in the performance of their duties.

#### *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.

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### *Transmission Operator (TO)*

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 outage 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.

### *Energy Manager*

Manages the overall energy dispatcher function and provides 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. 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.

### *Senior Energy Dispatcher*

Responsible for supporting the delivery of electric and steam energy to consumers and provides direct assistance to the Energy Manager on operational items and concerns and coordinates generation and steam system activities to help ensure the safe, economic, and reliable delivery of electric and steam services to our customers.

### *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.

### *Project Specialist – Weather Analysis*

Serves as the main liaison with the forecasting service to provide supplemental weather data to the operating personnel as needed and perform independent forecast using established weather models. Resolves any differences between the forecasts, and provides an enhanced weather forecast of both peak temperature and any predicted adverse weather that may impact the electric or steam system. Develops daily weather forecasts for Con Edison service areas, with emphasis on specific needs for electric, gas, and steam operations. Additionally this position will provide daily guidance to operating personnel regarding weather and weather-related issues for both routine and emergency conditions while supporting other Company-related weather efforts.

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### *Project Specialist - Compliance*

Responsible for ensuring compliance to all North American Electric Reliability Corporation (NERC) standards that are applicable to the operation of the Con Edison bulk electric system. NERC standards outline required operation criteria training requirements, planning requirements, and general expected practices designed to maintain a reliable bulk electric system. Violations of standards diminish system reliability and can result in significant consequences to Con Edison. A dedicated professional with continuous oversight responsibility to standard compliance is essential to continued reliable operations.

### *Administration*

Performs 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.

## ***Operations Analysis***

### *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. Represents the company at the NYS Reliability Council and on the NYISO Issues Coordination Team.

### *Engineer/Associate 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.

## ***Scheduling***

### *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.

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### *District Operator (Scheduling)*

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 Operations*

#### *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*

Supervises the District Operators at the Energy Control Center (ECC) in the daily operation of the electric system. Responsibilities include directing responses to emergencies, providing adequate staffing, and 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 ensure 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.

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### ***Central Information Group***

#### *Section Manager*

Coordinates reporting requirements. Reviews incident correctness and notifications. Coordinates the operation and testing of the Central Information Group's systems and develops enhancements to improve effectiveness and efficiency. Reviews and prepares System Operation Procedures for the Central Information Group. Performs periodic audits of the staff for compliance with procedures and communications.

#### *Senior Specialist/Specialist*

Receives information on all major company problems and makes notifications to appropriate company personnel and public agencies. Seeks out additional facts in any incident he/she feels is not thoroughly or correctly explained. Compiles the morning reports. Monitors the status of the power generating equipment, maintains a 24-hour chronological log of system events, schedules and issues work outage lists, establishes priorities on equipment repairs to ensure minimal downtime. Provides and maintains up-to-date information on the electric and steam systems' demands and capacities and the status of each generating station. Coordinates the flow of information on the condition of the system and station requirements. Reviews and prepares System Operation Procedures for the Central Information Group. Performs periodic audits of the Specialists for compliance with procedures and communications. Assists in providing required documentation for internal and external audits. Administers the issuance of the Daily Report.

### ***Computer Operations***

#### *Department Manager*

Leads Computer Operations teams that support the Energy Control Center's critical computer systems that are essential for the safe and reliable operation of the Bulk Electric System, maintain regulatory compliance and sustain a strong physical security and cybersecurity posture at the Energy Control Centers. Oversees five teams: Energy Management Systems (EMS) team; Operations Management Systems (OMS) team; Technical Support & Network team; Physical Security & CIP Compliance team; and Watch Engineers team. Responsible for the coordination of capital projects.

#### *Systems Specialist/Senior System Analyst*

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

#### *Technical Supervisor*

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

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### *Systems Specialist*

Responsible for the ECC facility. Supervises and schedules all mechanical and electrical work within the facility. Provides 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.

### *Associate Specialist*

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

## ***Energy Management Systems***

### *Systems Manager*

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/Systems Specialist*

Maintains 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. Reviews all prospective system changes to the Energy Management System, develops solutions to meet operations needs and perform power flow analysis studies. Supports and maintains power engineering application software, state estimator and contingency analysis applications. Liaison to the NYISO staff.

### *Technicians*

Responsible for the Remote Terminal Unit (RTU) communication and field testing of EMS database changes. Responsible for interfacing with PST and I&C to test all EMS-related changes.

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### *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/Systems Specialist*

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.

#### *Systems Specialist/Sr. System Analyst/System Analyst*

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.

#### *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.