

San Diego Gas & Electric Company
FERC Order 717 Transmission Function Employee Job Descriptions
Electric Grid Operations
September 4, 2025

Director – Electric Grid Operations: Responsible for overall transmission system operations and reliability functions. Oversees operational relationship between SDG&E and California ISO.

Associate Engineer: An entry level engineer responsible for performing basic duties in support of the analysis of the transmission system to identify actual or potential problems of the electric system and develop appropriate solutions. Prepares rotational engineering duties and support with outage coordination, maps and data gathering efforts. Updates technical contents of assigned Standard Operating Procedures. Acquires general experience about transmission operations. This position is a part of Grid Operations Services and/or Grid Control.

EMS Hardware Supervisor: Supervises the EMS Infrastructure Team. Manages and coordinates activities related to any purchases, improvements, maintenance, and upgrades on the EMS relating to hardware, networking, and physical / cyber security. Manages 24x7 on-call EMS hardware support activities to ensure maximum system reliability. Directs and prioritizes work of technical computer support personnel on systems based in two San Diego locations. This position is a part of the Energy Management System Operations department.

EMS Operations Manager: Responsible for overall operation, maintenance, and compliance of SDG&E's mission critical EMS/SCADA system, including SCADA database and display, PI data, PMU data, and real-time data exchange via ICCP with California ISO EMS and neighboring utilities. Also responsible for overall computer engineering support, maintenance and upgrades to SDG&E's EMS/SCADA hardware, local and wide area network infrastructure. This position is a part of the Energy Management System Operations department.

EMS Program Analyst: To plan, develop, and maintain EMS, including system upgrades, integration, databases, software and applications support. Responsible for monitoring and controlling Bulk Power transmission system. This position is a part of the Energy Management System Operations EMS/SCADA Engineering Team.

EMS Software Supervisor: Supervises the SCADA/EMS Engineering Team. Manages daily EMS software operational tasks. Oversees, plans, specifies, develops, maintains and coordinates SDG&E's real-time EMS activities, including failovers, system upgrades, ICCP testing and updates, application/system integration, SCADA databases and display updates, software and applications support. Monitors EMS health, system and application performance, SCADA data integrity, SCADA display accuracy, system integrity, security, reliability, and availability. Supervises EMS software 24x7 real-time support. Support NERC CIP compliance activities. This position is a part of the Energy Management System Operations department.

Engineer I/II – Electric System/Grid Operations: Conducts complex engineering studies. Identifies actual or potential problems in the electric power system and develops mitigating actions. Responsible for technical content of selected Standard Operating Procedures as assigned. Supports Real-time operation. Coordinates operational studies with the CAISO, neighbors and other sections of the company. Assists with training of operators and new engineers. Performs other related duties as assigned. These positions are a part of Grid Operations Services.

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Grid Control Project Coordination Team Lead: Supervises a team that is responsible for creation and maintenance of core operational documentation for EGO including Substation Control and Protection Notes (C&P Notes), System Operating Diagrams (SOD), Electric Transmission Schematic (ETS), and Standard Operating Procedures (SOP). Acts as central point of contact for construction jobs that will impact the Electric Transmission System by hosting monthly EGO Projects meetings, weekly internal meetings, Generation Interconnection meetings, as well as facilitate any further conversations as needed to ensure necessary tasks for EGO are captured timely prior to in service dates. Acts as liaison between CAISO and SDG&E regarding all Resource Interconnection Management System (RIMS) requirements. Has an understanding of the Outage Coordination (OC) scheduling system, SDG&E Electric Transmission Grid, transmission operations activities, Supervisory Control and Data Acquisition (SCADA) system that uses the EMS and field Remote Terminal Units (RTU), and System Protection principles. Supports real-time system operations and mandatory NERC/WECC reliability standards. Ensures open lines of communication exist between SDG&E, the California Independent System Operator (CAISO), Western Electricity Coordinating Council (WECC) and all related Transmission System Operators. This position is a part of Grid Control.

Electric System / Grid Operations Manager – Grid Control: Responsible for overall management of grid control activities, including real time operations, technical support, and training. Also provides managerial interface with California ISO, other transmission operators, and regulatory agencies. Provides oversight for NERC compliance activities for the department. This position is a part of Grid Control.

Electric System / Grid Operations Manager – Grid Operations Services: Oversees operation planning studies and associated development, maintenance and compliance aspects of operating procedures that convey the conclusions of the various engineering analysis. Interacts with the CAISO and neighboring utilities. Oversees the administration of pre-CAISO Transmission Contracts and associated Scheduling responsibilities. This position is a part of Grid Operations Services.

Grid Outage Coordination Supervisor: Supervises team of Outage Coordinators responsible for receiving and processing outage requests for Transmission Grid facilities with electric engineering, field personnel and the CAISO. Schedules qualified personnel to perform required switching activities. This position is a part of Grid Control.

Grid Technical Support Manager: Manages a team that is responsible for the creation and maintenance of core operational documentation for EGO including Substation Control and Protection Notes (C&P Notes), System Operating Diagrams (SOD), Electric Transmission Schematic (ETS), and Standard Operating Procedures (SOP). Manages a team that is responsible for the department technical needs including technology support in the Transmission Control Rooms and the greater EGO department. Has an understanding of the Outage Coordination (OC) scheduling system, SDG&E Electric Transmission Grid, transmission operations activities, Supervisory Control and Data Acquisition (SCADA) system that uses the EMS and field Remote Terminal Units (RTU), and System Protection principles. Supports real-time system operations and mandatory NERC/WECC reliability standards. Ensures open lines of communication exist between SDG&E, the California Independent System Operator (CAISO), Western Electricity Coordinating Council (WECC) and all related Transmission System Operators. Provides back-up support to Electric System / Grid Operations Manager – Grid Control. This position is a part of Grid Control.

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Mission Control Training Manager: Responsible to direct, provide guidance and oversight for the System Operator Training Programs for EDO and EGO in producing and maintaining adequately trained, well qualified and competent operating personnel to ensure safe and reliable operation of the Electric Distribution and Transmission Systems and in compliance with all applicable regulatory requirements and NERC Reliability Standards. Directs training through , trainers and training specialist for System Operators. This position is a part of Mission Control Training Team.

NERC System Operator Trainer: Responsible for Grid Control training activities, monitoring and tracking individual training progress. Responsible for ensuring those system operators are trained on NERC, WECC, CAISO and SDG&E procedures and policies. Coordinates with Distribution Operations to provide training for field and system operators. Researches and develops training programs for new equipment deployed on the system and provides training to appropriate personnel. This position is a part of Mission Control Training Team.

Operations Shift Supervisor: Responsible for supervising real-time grid monitoring and switching activities, emergency response, system restoration, real-time Existing Transmission Contract schedule changes, and interface with ISO real-time dispatch desk. This position is a part of Grid Control.

Planned Outage Coordinator: Responsible for receiving and processing outage requests for Transmission Grid facilities with electric engineering, field personnel and the CAISO. Schedules qualified personnel to perform the required switching activities. Provides support to the Outage Coordination Supervisor. This position is a part of Grid Control.

Principal EMS Analyst – EMS Infrastructure: Responsible for managing and maintaining the SDG&E EMS/SCADA computer software. Ensures the system's compliance with NERC CIP requirements. Makes continuous improvement on the EMS/SCADA systems and its applications to ensure the SDG&E grid control center has the necessary tools to sufficiently and efficiently operate the SDG&E transmission grid. Leads sub-teams of EMS software engineers to develop new, enhanced and improved applications and monitoring software to improve the reliability and availability of the SDG&E transmission grid operation. This position is a part of the Energy Management System Operations EMS Infrastructure Team.

Principal EMS Analyst – EMS/SCADA Engineering: Responsible for managing and maintaining the SDG&E EMS/SCADA computer software. 24x7 support of mission critical business operations & EMS/SCADA real-time control system. Ensures the system's compliance with NERC CIP requirements. Makes continuous improvement on the EMS/SCADA systems and its applications to ensure the SDG&E grid control center has the necessary tools to sufficiently and efficiently operate the SDG&E transmission grid. Leads sub-teams of engineers to develop new, enhanced, and improved applications, and monitoring software to improve the reliability and availability of SDG&E's EMS/SCADA system. This position is a part of the Energy Management System Operations EMS/SCADA Engineering Team.

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Principal Engineer I – Electric System/Grid Operations: Provides technical and analytical support to Grid Control. Performs long term outage coordination. Responsible for providing procedures for new and existing electrical facilities. Provides technical advice to Control Room personnel and field personnel on electrical facilities and operational scenarios. Responds to fire and other natural disasters when operation of Bulk Electric System can potentially be (or is) compromised. Assists in investigating events on the electric system. Interacts with the CAISO on various operational issues and procedures. This position is a part of Grid Operations Services.

Principal Grid Contracts Advisor: Performs advanced technical work and develops Operating documents. Leads technical studies and manages aspects of the operations planning processes that impact the SDG&E bulk power system. Builds and maintains strong working relationships with internal and external stakeholders. Provides support to the Real Time Operators and responds to fire and other natural disasters when operation of Bulk Electric System can potentially be (or is) compromised. Assists in investigating events on the electric system. This position is a part of Grid Operations Services.

Project Coordinator - provide project coordination to assist the training group responsible for training system operators. Tasks include the following: Support Trainers with coordination of test administration, as well as tracking of test results once completed by Trainees, Utilize various internal applications used by the company to track and administer testing, Support timekeeping tasks in support of the training staff, Performs data entry, such as entering trainee names and test scores, as well as perform document management to track and store data, Update training exams in the eLearning system per Trainor's guidance, Provide some light updates to SharePoint, Coordinate meetings and note taking for process workflow mapping for a few workflow management projects. Supports other projects as assigned. This position is a part of Mission Control Training Team.

Scheduling Coordinator: Serves as the ISO certified Scheduling Coordinator for day-ahead scheduling of SDG&E's existing Transmission Contracts and handles processing of ISO invoices. This position is a part of This position is a part of Grid Operations Services.

Senior Business System Analyst (BSA): Tasked with helping the business meet its objectives and goals by using broad IT and business knowledge to implement IT solutions which address business needs. In a leadership capacity, develops requirements, facilitates/conducts Business Domain testing, and provides training to ensure that the IT solution reflects the functionality necessary to address business goals and objectives. Provides application support to ensure that end-user issues are managed to resolution. Identify, develop and implement effective technology solutions that address complex initiatives. This position is a part of Grid Control.

Senior EMS Hardware Analyst: Supports 24X7 mission critical business operations & EMS SCADA real-time control system. Maintains, enhances, configures, and troubleshoots EMS SCADA hardware equipment which includes: Front End Processors, Servers, Workstations, Networks, Local and Wide Area Networks and associated support equipment. Performs maintenance and upgrades of the EMS/SCADA systems. This position is a part of Energy Management System Operations – EMS Infrastructure Team.

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Senior EMS Program Analyst: Supports 24x7 mission critical business operations & EMS SCADA real time control system. Responsible for EMS systems administration, database updates that accurately model the SDG&E power system, application programming. Responds to customer requests and offers solutions. This position is a part of Energy Management System Operations – EMS/SCADA Engineering Team.

Senior EMS Program Analyst (formerly Sr EMS Project Coordination Advisor): Responsible for coordinating and overseeing EMS activities to ensure all projects, visual interfaces, and data are accurate and reliable when released to Grid Control. Troubleshoots and resolves issues regarding EMS operations. Develops EMS “Real-Time” Operator and Transmission Security Management displays. Maintains Network Status Processor subsystem for Operator “Situational Awareness” of Transmission Energization State. This position is a part of the Energy Management System Operations EMS/SCADA Engineering Team

Senior Engineer – Electric System/Grid Operations: Provides technical and analytical support to Grid Control. Develops, Reviews, and evaluates Remedial Action Schemes. Provides work direction to subordinate engineers and/or acts as a project leader over the more complex or major engineering projects and/or studies. Responsible for providing procedures for new and existing electrical facilities. Provides technical advice to Control Room personnel and field personnel on electrical facilities and operational scenarios. Responds to fire and other natural disasters when operation of Bulk Electric System can potentially be (or is) compromised. Assists in investigating events on the electric system. Interacts with the CAISO on various operational issues and procedures. This position is a part of Grid Operations Services.

Senior Outage Coordination Advisor: Responsible for receiving and processing outage requests for Transmission Grid facilities with electric engineering, field personnel and the CAISO. Schedules qualified personnel to perform required switching activities. Provides support to the Operations Shift Supervisor. This position is a part of Grid Control.

Senior Technical Support Advisor: Provides essential support as a Central Point of Contact (CPOC) for the operation of the Electric Transmission Grid in a safe, reliable and economic manner. Supports real-time system operations and mandatory NERC/WECC reliability standards. Has an understanding of the Outage Coordination (OC) scheduling system, SDG&E Electric Transmission Grid, transmission operations activities, Supervisory Control and Data Acquisition (SCADA) system that uses the EMS and field Remote Terminal Units (RTU). Ensures open lines of communication exist between SDG&E, the California Independent System Operator (CAISO), Western Electricity Coordinating Council (WECC) and all related Transmission System Operators. Supports the development and maintenance of electric substation Control and Protection Notes (C&P Notes), Substation Operating Diagrams (SOD) and other related technical documentation. This position is a part of Grid Control.

Senior Transmission Document Control Advisor: Controls and manages the review and creation of Standard Operating Procedures to support real-time operating and compliance activities. This position is a part of Grid Control .

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Senior Transmission Compliance Advisor: Supports the critical function of coordinating and ensuring compliance with the multiple FERC, NERC, WECC and State mandatory standards that apply to Electric Grid Operation. Supports Federal Reliability Compliance in responding to data requests related to compliance or system disturbances. Supports participating in the development of new standards, or modifications to existing ones, that applies or will apply to Electric Grid Operations. Supports Grid's 24x7 Operation and assists in filing any required Federal, Regional and State reporting required to be filed within specific time frames after an event ranging from 1 to 24 hours depending upon magnitude. Supports coordinating compliance responsibilities with the CAISO with regard to the NERC requirements applicable to Electric Grid Operations. This position is a part of Grid Control.

Systems Analyst (NSA): Manages plans and coordinates department compliance activities to meet NERC and WECC reliability standards. This position is a part of Energy Management System Operations.

Team Lead – Engineering Support Team: Responsible for providing directions for various duties of engineering nature; such as transmission model update in EMS, Remedial Action Schemes, Facility Rating determinations and operational engineering studies. Interfaces with internal and external parties. This position is a part of Grid Operations Services.

Training Specialist: To Deliver and provide training to Trainers and employees by developing and revising System Operator formal training programs to include Human Performance Improvement tools, new delivery techniques or applications in; lesson plans, training modules, demonstration models, training guides and multimedia visual aids for the Training Team in the Initial and Continual Training Programs for System Operators in Grid Control and Distribution Control Centers. Including Authorization Instructor led and CBT for employees and contractors for the Authorization List. Conduct System Operator training needs assessment in order to identify training development/program needs to meet FERC/NERC/WECC and SDG&E training standards and requirements. Acts in a lead capacity to provide direction/training on technical support for applications, investigating discrepancies on training processes and providing solutions/workarounds as applicable. Documents and performs quality check of training materials and records to ensure compliance with NERC Reliability Standards in preparation for Audits. This position is a part of Mission Control Training Team.

Transmission Compliance Advisor: Manages plans and coordinates department compliance activities to meet NERC and WECC reliability standards. Manages, plans and coordinates department compliance activities to meet the NERC and WECC reliability standards. Responsible for participating in the development of new standards, or modifications to existing ones, that applies or will apply to Electric Grid Operations. Manages the review and development of Standard Operating Compliance Procedures to support the real-time operating or compliance activities. This position is a part of Energy Management System Operations.

Transmission Document Control Advisor: Controls and manages the review and creation of Standard Operating Procedures to support real-time operating and compliance activities. This position is a part of Grid Control .

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Transmission System Operator: Assumes responsibility and authority to implement real-time actions to ensure the safe and reliable operation of the SDG&E Electric Transmission Grid and associated interconnections and ensures compliance with FERC mandatory reliability standards. Maintains electric transmission system to assure continuity of service. Prepares, checks, and directs orders for electric transmission system switching operation. Operates electric supervisory control devices including adjusting system voltage. Performs emergency limited substation switching. Directs restoration of transmission facilities. Maintains records and operating diagrams. Prepares reports and performs other related duties as assigned or required. This position is a part of Grid Control.