

HENDERSON MUNICIPAL POWER & LIGHT CLASSIFICATION SPECIFICATION

CLASSIFICATION TITLE:

SCADA ENGINEER

PURPOSE OF CLASSIFICATION

The purpose of this exempt position is to manage all aspects of the Supervisory Control and Data Acquisition (SCADA) System and the Outage Management System (OMS) for HMP&L. Responsible for the administration, maintenance, and support of the SCADA and OMS systems to ensure the reliable operation of these systems to support the electric utility's operations. Position collaborates with the Network and System Administrators, GIS Administrator, Reliability Compliance Manager, and system support personnel. Work is performed in accordance with established policies and procedures under the direction of the Transmission & Distribution Director.

ESSENTIAL FUNCTIONS

The following duties are normal for this position. These are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.

- Develops and manages SCADA and OMS systems to ensure optimal performance and reliability. Customizes system settings and menus to meet the specific needs of the Utility, including alarm thresholds, data points, and control parameters. Authorizes SCADA and OMS user permissions and passwords.
- Configures, programs, and deploys SCADA and OMS hardware and software updates, patches, and security fixes. Tests updates in a controlled environment before deployment to ensure compatibility and stability.
- Monitors SCADA and OMS systems to ensure the stability, security, and performance of Utility operations. Responds promptly to troubleshoot alarms and abnormalities as needed. Monitors electric distribution trends and makes recommendations for SCADA system configurations and upgrades. Optimizes system performance through configuration changes and adjustments to controls and graphics. Performs updates and routine maintenance as needed.
- Diagnoses and resolves SCADA and OMS system technical issues including hardware, software, and network problems. Maintains, troubleshoots, and modifies HMP&L's current Open Systems International (OSI) software and hardware by using the following software subsystems: OpenSCADA, OpenFEP, OpenICCP, OpenHIS, OpenView, ViewPoint, OpenTrend, Design Studio, DataExplorer, OpenCalc, Advanced Tabulars, Web Platform, EnterpriseITK, and System Monitor.
- Configures mobile applications and the Hometown Grid outage system application.
- Oversees configuration of Remote Terminal Units (RTUs) such as SEL RTACs managing the configuration of points and tags. Programs and configures ethernet switches and devices at the substation level. Collaborates with IT and contractors to verify communication paths from SCADA to firewall in substations.
- Collaborates with IT to implement and manage backup and recovery procedures to ensure data integrity and system availability. Regularly tests backup and recovery processes to verify their effectiveness.
- Collaborates with IT, the metering department, and engineering to ensure integration of SCADA and OMS systems with other Utility systems, such as Geographic Information Systems (GIS) and Advanced Metering Infrastructure (AMI). Monitor and manage data flow and interoperability between systems.
- Develops and maintains comprehensive documentation of system configurations, Remote Terminal Unit (RTU) point assignments, changes, and maintenance activities of the Utility systems. Generate reports on system performance, incidents, and maintenance activities for management review, as needed.

- Collaborates with field personnel to troubleshoot, adjust, correct, or create needed control or data points from field devices and RTUs as needed. This includes reclosers, relays, capacitors, switches, and other load management or system operational devices.
- Advises, instructs, and assists operations personnel on the proper use and functionality of SCADA and OMS systems. Provides technical support to ensure users can effectively operate the systems.
- Operates office related equipment including SCADA/OMS computer, desktop computer, copier, phone system, printer, two-way radio, and various computer programs including word processing, data entry, spreadsheets, and databases.
- Imports GIS data maps into the OMS EMAP system. Aids the GIS department in analyzing the OMS EMAP to find and identify incorrect or missing premises, devices, secondary lines, and primary lines.
- Modifies the various databases for the SCADA System. Tests modifications and creates backups before populating the changes to the live system.
- Provides SCADA and OMS support and operations support after normal business hours, as needed by phone or in person.
- Performs duties of Call Center Operator/Dispatcher and Dispatch Center Operations/OMS Coordinator, as needed. This may involve monitoring and managing electric system outages and system maintenance using OMS, entering customer reported outages and maintenance requests, updating outage/maintenance jobs as field crew report progress, and utilizing OMS information to assist line crews and management with system restoration.
- Adheres to and enforces all safe work practices and company compliance policies and procedures. Coordinates and maintains SCADA system security with IT and vendors/contractors.
- Ensures conformity with standards set by the North American Electric Reliability Corporation (NERC) and the SERC Reliability Corporation (SERC). Assists Reliability Compliance Manager, as required. Maintains a current knowledge of cyber security standard requirements. Receives training and participates in compliance with all NERC regulations applicable to HMP&L.

ADDITIONAL FUNCTIONS

- Performs other related duties as required, necessary, or assigned.
- Maintains good attendance and punctuality.
- May drive HMP&L vehicles. Must have a valid Driver's License.

MINIMUM QUALIFICATIONS

Qualifications include: Bachelor's Degree in Electrical Engineering, Computer Science, or a related field; supplemented by three to five years of experience in maintaining, troubleshooting, and programming Supervisory Control and Data Acquisition (SCADA) Systems and Outage Management Systems (OMS) in an electric utility environment; or any equivalent combination of education, training, and experience which provides the requisite knowledge, skills, and abilities for this job. Requirements include: ability to have regular and predictable work attendance; residency within a 30-minute response time from the Service Center Complex; must pass a drug/alcohol screen, physical and background check upon conditional offer of employment; have no DUI convictions in the previous five years; and maintain a valid Driver's License. Preferred requirements include: proficiency in SCADA and OMS software, knowledge of electric grid operations, and experience with system integration.

PERFORMANCE APTITUDES

Data Utilization: Requires the ability to evaluate, audit, deduce, and assess data using established criteria. Includes exercising discretion in determining actual or probable consequences and in referencing such evaluation to identify and select alternatives.

Human Interaction: Requires the ability to apply principles of persuasion and influence over others in coordinating activities of a project, program, or designated area of responsibility.

Equipment, Machinery, Tools, and Materials Utilization: Requires the ability to operate and control the actions of equipment and machinery, requiring the monitoring, adjustment, regulation, and setting of multiple conditions.

Verbal Aptitude: Requires the ability to utilize a wide variety of reference, descriptive, and advisory data and information.

Mathematical Aptitude: Requires the ability to perform addition, subtraction, multiplication, and division; the ability to calculate decimals and percentages; the ability to utilize principles of fractions; and the ability to interpret graphs.

Functional Reasoning: Requires the ability to apply principles of rational systems; to interpret instructions furnished in written, oral, diagrammatic, or schedule form; and to exercise independent judgment to adopt or modify methods and standards to meet variations in assigned objectives.

Situational Reasoning: Requires the ability to exercise judgment, decisiveness, and creativity in situations involving evaluation of information against measurable or verifiable criteria.

ADA COMPLIANCE

Physical Ability: Tasks require the ability to exert light physical effort in sedentary to light work, but which may involve some lifting, carrying, pushing and pulling of objects and materials of medium weight (50-70 pounds). Tasks may involve extended periods of time at a keyboard or workstation.

Sensory Requirements: Some tasks require the ability to perceive and discriminate colors or shades of colors, sounds, odor, depth, texture, and visual cues or signals. Some tasks require the ability to communicate orally and aurally.

Environmental Factors: Essential functions are regularly performed without exposure to adverse environmental conditions.

This job description does not constitute a contract of employment. Any oral or written statements or promises to the contrary are hereby expressly disavowed and should not be relied upon by any prospective or existing employees. This job description is subject to change by the employer (Henderson Municipal Power & Light) at the discretion of the employer, or as the needs of the employer and requirements of the job change. The employer explicitly reserves the right to modify any of the provisions of this job description at any time and without notice. The duties listed above are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties or essential functions does not exclude them from the position if the work is similar, related, or a logical assignment to the position.

Henderson Municipal Power & Light, HMP&L, is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, HMP&L will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.