NC 17900 (31000229) OSP 04/01/08

**HIGH VOLTAGE DISTRIBUTION SPECIALIST**

**DESCRIPTION OF WORK:** Positions in this banded class participate in the operation of electrical distribution system. They may provide construction, installation, operation, maintenance/repair, modification, inspection, management of electrical, metering equipment, public lighting, power distribution and other applicable systems. Positions may also work with power plants, generators, switchgear, transformers, fuel handling SCADA Control Systems and other equipment and fixtures.

**EXAMPLES OF COMPETENCIES:**

**CONTRIBUTING**

**Knowledge-Technical:** General knowledge of construction, installation and maintenance of applicable systems, standard practices, materials, and techniques involved in the construction of primary and secondary overhead and underground distribution facilities. General knowledge of all applicable codes and methods of installation and repair of primary and secondary overhead and underground distribution facilities.

**Equipment Operation:** Knowledge and skill in the operation and use of applicable equipment, tool and vehicle in the operation, construction, maintenance and repair of primary and secondary overhead and underground distribution facilities.

**Safety and Health Compliance:** Ability to perform tasks and duties safely to avoid danger to self and others. Ability to adhere to applicable rules and regulations, general statutes, safety and health standards, building and electrical codes. Ability to identify and inform supervisor of potential safety problems. Ability to warn others of potential hazards. Ability to follow departmental regulations, codes, policies and procedures. Ability to use appropriate protective equipment following established protocols. Ability to follow appropriate post-emergency procedures.

**JOURNEY**

**Knowledge-Technical:** Considerable knowledge of construction, installation and maintenance of applicable systems, standard practices, materials, and techniques involved in the construction of primary and secondary overhead and underground distribution facilities. Considerable knowledge of all applicable codes and methods of installation and repair of primary and secondary overhead and underground distribution facilities; ability to read blueprints, schematics and drawings and to interpret those layouts.

**Equipment Operation:** Considerable knowledge and skill in the operation and use of applicable equipment, tool and vehicle in the operation, construction, maintenance and repair of primary and secondary overhead and underground distribution facilities.

**Safety and Health Compliance:** Ability to anticipate, identify, and resolve potential safety problems and unsafe work practices in assigned area. Ability to inform supervisor of unusual safety concerns and make recommendations for resolution using applicable codes and regulations. Ability to demonstrate to lower level

**Problem Solving:** Ability to assist higher level technician in identification and resolution of standard/routine problems with systems, electronic devices, equipment, systems through routine inspection and preventive maintenance/testing, after system/equipment failure, or when updating equipment with new technologies. Ability to operate standard test equipment to troubleshoot and repair electronic devices or systems under supervisor of a higher level

technician.

**Problem Solving:** Ability to identify and resolve or make recommendations for non-standard/more complex problems with devices, and systems through inspection and maintenance, or after system/equipment installation/failure. Ability to operate specialized test equipment to troubleshoot and repair non-standard electronic devices and systems.

**Leadership:** May require ability to function as team lead for a program function of moderate complexity. Ability to train others. Ability to monitor work assignments to ensure completion and compliance on assigned shift. May require ability to participate in career development of employees and performance evaluation.

NC 17900 (31000229) OSP 04/01/08

technician and others, safe ways to perform job tasks or the use of equipment. Ability to determine appropriate protective equipment based on established standards.

**ADVANCED**

**Knowledge-Technical:** Thorough knowledge of construction, installation and maintenance of applicable systems, standard practices, materials, and techniques involved in the construction of primary and secondary overhead and underground distribution facilities. Thorough knowledge of all applicable codes and methods of installation and repair; ability to read and interpret schematics drawing and recommend corrective actions.

**Equipment Operation:** Thorough knowledge and skill in the operation and use of applicable equipment, tool and vehicle in the operation, construction, maintenance and repair of primary and secondary overhead and underground distribution facilities.

**Safety and Health Compliance:** Ability to regularly assess safety conditions; ability to identify, communicate, and implement accident prevention and corrective measures in work related activities. Ability to apply applicable regulations, codes to enhance work unit processes and procedures. Ability to anticipate departmental safety issues and take proactive steps to

maximize safe operations and measure the effectiveness of action. May require ability to train lower level technician in proper and safe use of equipment. Ability

to provide feedback to supervisor on compliance. May

require ability to assist supervisor in developing or modifying departmental safety policy and procedure. Ability to determine appropriate protective equipment based on established standards. Ability to regularly assess site and shop operations for safety.

**Problem Solving:** Ability to anticipate and proactively pursue maintenance issues. Ability to determine circuit configuration and function of complex electronics systems in absence of documentation. Ability to troubleshoot and evaluate options for complex electrical system; ability to choose appropriate action by considering potential outcomes; ability to implement/level corrective action.

**Leadership:** Ability to function in a supervisory role for direct reports. May require ability to perform as a lead for more complex operation. Ability to participate in making work assignments and ensuring compliance with standards, career development of employees, and performance evaluation.

**MINIMUM TRAINING AND EXPERIENCE:** High school diploma or equivalency and six months of electrical experience; or equivalent combination of training and experience.

Requires certification(s).

**Special Note:** Maintains required certifications.

**Special Note:** This is a generalized representation of positions in this class and is not intended to reflect essential functions per ADA. Examples of competencies are typical of the majority of positions, but may not be applicable to all positions.