

## **CHIEF ELECTRICAL ENGINEER**

### **PURPOSE AND NATURE OF WORK**

Position is responsible for all the activities of Utilities Engineering related to electric substations, transmission and distribution planning, system protection, and NERC compliance. Also responsible for design, project bidding, construction management of all substation and transmission line facilities and associated protection systems. Incumbent works under the general direction of the Engineering and Power Supply Manager, and has supervisory responsibilities for a moderately-sized professional and technical staff.

**ILLUSTRATIVE EXAMPLES OF WORK** (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Supervises and participates in the analysis of existing electric substation systems and projects need to meet future demands. Leads and participates in design, preparation of specifications, bid packages, and the evaluation of bids, inspection of work in progress, may approve change orders and contract payments for work regarding electric substations, transformers, system protection, and controls. Oversees, teaches and performs analyses of protective relaying, lightening protection and damage limitation and/or control systems. Supervises work of staff engaged in electric distribution system planning and related computer analyses and modeling of the Lafayette Utility System's electric components. Performs related work as required.

### **NECESSARY KNOWLEDGE, ABILITIES AND SKILLS**

Thorough knowledge of principals and practices of electrical engineering of large power transmission and distribution systems.

Thorough knowledge of methods, materials of, as well as code requirements, and Lafayette Utility System construction standards for, electric transmission and distribution system equipment, structures and circuits.

Through knowledge of the existing transmission and distribution system, its protective devices, its characteristics and capacities.

Ability to analyze and project future growth and need for additional capacity of the system.

Ability to form and maintain effective working relationships with other Utility personnel, customers, elected officials and general public.

Ability to communicate clearly, verbally or in writing.

Ability to perform accurate computations and projections under stressful or hurried conditions.

### **DESIRABLE QUALIFICATIONS**

Substantial prior working experience in large electric power transmission and distribution engineering and construction management, or any equivalent combination of education and experience.

### **NECESSARY QUALIFICATIONS**

Baccalaureate degree in Electrical Engineering and registration as a professional engineer in the State of Louisiana or a state granted reciprocal recognition of registration.