ENGINEER I

GENERAL DEFINITION OF WORK:

This is entry-level professional work providing engineering support in one of the following operational areas: Dispatch & Compliance, Distribution Engineering, Power Delivery, Power Supply, or Transmission & Distribution Operations. The incumbent will be responsible for performing basic engineering work involved in the planning, design and operation of the electric utility. Tasks may vary depending on the area in which the incumbent is assigned. Work is performed under the close supervision of a designated supervisor and is checked upon completion for technical proficiency and adherence to standard practices.

TYPICAL FUNCTIONS:

Performs engineering tasks requiring the application of engineering principles and prescribed methods, procedures and standard designs to perform work of specific and limited scope. Assists in the development of project/study plans, specifications and bid documents. Performs operating and economic feasibility studies and evaluates alternatives. Responsible for the execution of assigned projects and studies. Provides field direction for assigned projects and studies. Coordinates or prepares various internal and external reports. Maintains accurate and complete records and files. Performs related work as required.

Dispatch & Compliance: Assist in the design, operation and maintenance of the Supervisory Control and Data Acquisition (SCADA) system and Advanced Metering System (AMI). Provides technical and administrative support for the utility's North American Electric Reliability Corporation (NERC) compliance program.

Distribution Engineering: Works with customers to develop electric infrastructure needs. Prepares designs for typical distribution system expansions required to serve customers. Assist in the preparation of circuit maps and drawings. Participates in the development of standards for design and materials for the distribution system.

Power Delivery: Assists in the design of transmission, substation and system protection facilities and equipment. Assists in the development of system planning studies. Provides engineering support to substation and relay operations.

Power Supply: Provides engineering support to operations and maintenance personnel. Prepares for and conducts unit/equipment performance and diagnostic testing. Develops repair recommendations. Oversees major outage activities as assigned.

Transmission & Distribution Operations: Provides engineering support to line operations. Coordinates and reviews divisional jobs. Prepares designs for typical distribution system expansions

required to serve customers. Assist in the preparation of circuit maps and drawings. Participates in the development of standards for design and materials for the distribution system.

KNOWLEDGE, SKILLS AND ABILITIES:

Knowledge and understanding of engineering principles and their applications. Ability to communicate effectively orally and in writing. Basic knowledge of industry standards, federal, state, and local regulatory requirements. Ability to maintain records and prepare reports. Ability to understand and apply computerized solutions to engineering problems. Ability to interpret drawings, diagrams and instruction manuals. Ability to prepare and/or modify drawings in electronic format. Ability to prepare cost estimates, specifications and bid/RFP documents. Ability to read, understand and follow policies and procedures. Ability to maintain effective working relationships with coworkers, external agencies, and the public.

EDUCATION AND EXPERIENCE:

Possession of a bachelor's degree in electrical or mechanical engineering from an accredited college or university.

SPECIAL REQUIREMENTS:

Possession of or ability to obtain a valid appropriate driver's license issued by the State of Florida.

SPECIAL CONDITIONS:

May be required to work outside of normal working hours during system outages or emergency situations.

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