

## Position Description

**Date:** June 7, 2016

**Position Title:** Reliability Engineer

**Reports To:** Region Line Manager

<b>Revision Date:</b>	
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**Performance Factors Level:**

<i>Safety</i>	<i>2</i>	<i>Innovation</i>	<i>2</i>	<i>Quality Focus</i>	<i>2</i>
<i>Customer Focus</i>	<i>2</i>	<i>Communication</i>	<i>3</i>	<i>Leadership</i>	<i>1</i>
<i>Teamwork</i>	<i>2</i>	<i>Initiative</i>	<i>2</i>		

**Time**

<b><i>Development/Learning Curve:</i></b>	<b>24 months</b>
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**Responsible for:**

The Reliability Engineer is a member of the Regional Operations Team and is responsible for developing and implementing programs in the areas of system electrical capabilities, service layout and reliability. These programs are to achieve corporate objectives in assigned areas and meet system standards and goals.

**Key Accountabilities & Duties:**

**Broad Scope**

- Provide necessary skills for the effective performance of the activities of the assigned position within policies and procedures.
- Seeks out and makes recommendations for changes needed to improve the operations of the Regional Operations Team as it relates to the position of Reliability Engineer.
- Coordinate and cooperate with other personnel in performing assigned responsibilities.
- Observes all Safety Rules and Regulations adopted by the Cooperative.
- Observes work rules adopted by the Cooperative.
- Assist the Region Line Manager in planning and implementation of departmental objectives.

## Position Description

### Specific Focus

- Reviews and conducts research on equipment and materials, the system design and changing system requirements, taking into consideration reliability, cost and best correct engineering practices. This research to include the following studies:
  - Regional input to Four Year Construction Work Plan
  - Sectionalizing Studies
  - Capacitor (Voltage and VAR) Studies
  - Line Loss Analysis Studies
- Maintain up-to-date knowledge of RUS engineering related bulletins and regulations, Cooperative policies and Service Rules and Regulations.
- Assist in designing distribution facilities that affect the performance of the electric system. Provides guidance to Staking Technicians on methods of supply to Developments and Complex Loads to factor cost, reliability, operations and safety.
- Analyzes reliability of electrical system and recommends remedial action as required for such problems as frequent outage or blinks, low voltage, etc.
- Maintain up-to-date specifications of electric materials and equipment required for the reliable operation of the electric system. Reviews and recommends new items to Engineering Department.
- Responsible for meeting customer and member needs related to power quality such as stray voltage, large motor starting, harmonic distortion and flicker/blinks.
- Responsible for coordinating special needs of large or complex customers including system design, metering, power quality and reliability.
- Knowledgeable of Distribution Automation Systems of the Cooperative.
- Knowledgeable of the Interconnect policies of the Cooperative, including the standards and policies related to the interconnection of Distribution Generation Sources, Net Metering and the impact of DER on the system.
- Participates in ON-CALL practices as requested.
- Works collaboratively with System Engineers to adopt Company-wide standards, gain experience in particular areas and share best practices.
- Maintain knowledge of the operation of the Dispatch Center and provide dispatch with regional interface when needed including use of the Mobile Workforce System and the Outage Management System.
- Available after hours and during emergency situations. In the absence of the Region Line Manager, acts in that capacity to supervise employees and manage customer expectations.
- Attends conferences and schools as requested by the Region Line Manager. Maintains technical expertise in tools, equipment and work method relevant to regional distribution operations.



## Position Description

**Direct reports:** None

**Internal Relationships:** Shall maintain internal relationships necessary to achieve purpose of position and desired results.

**External Contacts:** Shall maintain necessary job related external contacts to assure satisfactory results.

**Authority:** Has full authority to carry out the above responsibilities as delegated by the Region Line Manager.

\_\_\_\_\_  
Date Approved

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## Position Description

### Position Specifications for:

### Reliability Engineer

**EDUCATION** – A four (4) year Bachelor's of Science degree from an accredited institution in electrical engineering or equivalent is required.

**EXPERIENCE** – Two years or more of progressively responsible experience in the planning of an electric distribution system. Knowledge of distribution substations highly desirable. Experience in system planning, GIS mapping, SCADA, power quality, sectionalizing device coordination, and capacitor placement desirable.

**KNOWLEDGE** – Must have a strong knowledge of computer operations as it relates to file management, engineering data processing, software and hardware interface and program execution as it pertains to the running, changing, storing and managing of various (what ifs) system planning cases/scenarios. Must have a good understanding of basic electrical engineering fundamentals. Specifically as they pertain to voltage drop, current flow, and real power, (watts), apparent power, (volt-amperes), and reactive power, (vars), calculations. Knowledge of the National Electric Safety Code and RUS standards is desirable.

**ATTITUDE** – Must have a positive, open mind and considerate attitude toward the responsibilities of the position. Must be a self-starter. Must have an attitude of neatness, timeliness, orderliness and accuracy toward the job. Must possess a very conscientious attitude toward record keeping. Must be able to handle varied activities simultaneously, applying appropriate weight to each activity to ensure compliance with schedule requirements.

**PERSONAL CHARACTERISTICS** – Must be of high moral integrity, pleasing personality and possess good personal habits. Must be able to retain information of a confidential nature. Must be able to project a good public image. Must be able to function cooperatively with peers as a team member to meet departmental and system objectives.

**ABILITIES AND SKILLS** – Must have ability to implement work plans, make sound decisions from observations and carry out instructions. Must possess superior mathematical abilities. Must be able to work under pressure and meet deadlines; as well as, work in harmony with many different personality types. Must be able to work with very little supervision and be proactive in responsibilities. Must possess a strong ability to communicate in both verbal and written form. EIT or FE certification is desirable.



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**WORKING CONDITIONS** – Normal working conditions and hours of 7:30 a.m. until 4:00 p.m. Some irregular working hours may be required. Must be available for work during adverse weather conditions.

**WORK REQUIREMENTS** –Must have a valid North Carolina driver’s license with a good driving record. All employees assigned to regional positions must make their domicile within 20 miles of assigned office location.

**SAFETY** - Performs all assignments safely assuring compliance with all Safety related rules, regulations and policies.

**EXEMPT STATUS** – This position is exempt as defined by the Fair Labor Standards Act as amended.

**NON-DISCRIMINATION** - EnergyUnited Electric Membership Corporation is an Equal Opportunity Employer. This position shall be filled on the basis of qualification and ability to perform the essential functions of the job and without regard to race, religion, color, sex, age or national origin.