



## FESCO ELECTRICAL ENGINEER

### POSITION OBJECTIVE:

To assure that the electrical facilities are constructed, maintained, and operated to industry accepted standards in accordance with sound engineering design. To assure that the electrical facilities meet RUS standards and code requirements. To assure adequate planning including long and short-range plans and programs for the orderly development of distribution and substation facilities.

### DUTIES AND RESPONSIBILITIES:

1. Maintains knowledge of territorial assignment laws and regulations.
2. Maintains knowledge of RUS CFR's and bulletins relating to engineering, loans, contracts and 740C coding, billing rates, power supplier rates, competitive rates and cooperative policies.
3. Develops short range and long-range work plans, including drawings, plans and specifications for the construction of distribution and substation facilities.
4. Compiles information needed for all required reports.
5. Performs coordination studies to ensure the reliability of the electrical system.
6. Prepares construction contracts and documents and the administration thereof.
7. Assists in maintaining hardware for SCADA and Load Management systems, including programming and installation of the same.
8. Prepares specifications, sends out for bids, evaluates and awards contracts for certain jobs and materials
9. Provides assistance needed to ensure that adequate service, including continuity of service, is provided to non-interruptible, critical loads.
10. Monitors construction projects to assure compliance with NEC, NESC, RUS and cooperative requirements.
11. Assists in maintaining Engineering Analysis model.
12. Assists in planning for and performs annual testing of substation equipment, including relays, reclosers, electronic controls, voltage regulators, etc.
13. Participates in safety meetings and training programs as required.
14. Participates in Annual Meeting as required.
15. This list of duties and responsibilities is not intended to be all-inclusive and can be expanded to include other duties or responsibilities that management deems necessary.
16. Administers Turtle II and RF AMR System for efficient operation.
17. Installs Turtle II and RF Load Control Switches.
18. Installs advanced metering equipment for LMRE accounts.
19. Responds to member billing inquiries, investigates, and resolves problems.
20. Repairs defective or damaged meters in the field.

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LMRE: (440) 647-2133 / (800) 222- 5673 fax: (440) 647-4870

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21. Repairs defective or damaged meters in the shop.
22. Tests meters for accuracy.
23. Changes out meters per office or member request.
24. Determines materials required for large jobs.
25. Installs power analysis equipment to be downloaded into our PC if requested by consumer.
26. Updates (Primary) Load Management System operation. Modifies Load Control programming as necessary for proper operation.
27. Maintains Substation communications and fiber optic network communications/ equipment/ programming.
28. Reviews paperwork for accuracy.

**B. Weekly**

1. Operates computers for various meter and work order related tasks.
2. Research and orders materials required to keep meter department operating. Negotiates prices.
3. SAFE AND EFFICIENT USE OF ELECTRIC ENERGY- To provide expert advice and information regarding the safe efficient, and economical use of electric energy utilizing department resources.

**C. Monthly**

1. Reads monthly commercial accounts.
2. Downloads data from heavy commercial accounts into PC and prints reports from data.
3. Collects, disconnects, or installs limiters on delinquent accounts.

**D. Annually**

1. Oversees the testing of up to 1500 meters.
2. Oversees the installation of all FESCO Cooperatives' load control switches.

**E. Occasional, Infrequent Tasks**

1. Attends meter schools and seminars.
2. Arranges for commercial and industrial energy audits.
3. Provides backup for the inspection of Geothermal, Add-On Heat Pumps, and ETS heating and cooling systems.



4. Works with the Energy Services Advisor with dealer meetings and promotions.
  
5. Research high energy use complaints from Commercial and Industrial consumers and provides assistance in solving the problem.

**INTERNAL RELATIONSHIPS:**

Other Employees – Provides and acquires information and assistance necessary to assure the achievement of department and cooperative goals.

**EXTENAL RELATIONSHIPS:**

- RUS – For exchange of information and assurance that cooperative meets requirements.
- NRECA – For exchange of information.
- Statewide – For exchange of information.
- Member/Owners – For assistance with electrical loads, etc.
- Vendors – For information on equipment.

**POSITION REQUIREMENTS:**

Skills and knowledge normally acquired through a **bachelor’s degree in Electrical Engineering**, or a minimum of ten years prior experience in related job.  
Requires analyzing data and reports and conducting research. Skills in developing plans, procedures, and goals required.

**PHYSICAL DEMANDS:**

Work is both in controlled office environment and outside in extreme temperatures (0 to 100 degrees F), in ice, snow, rain, sun, high humidity, etc. Must be able to walk a mile over uneven terrain, jump ditches, and any other requirement associated with power line construction and right-of-way clearing to observe work. Must be able to lift and carry up to 50 pounds.

**REPORTS TO:**

Engineering Services Manager

**SUPERVISES:**

None