



Terrebonne Parish Consolidated Government

JOB DESCRIPTION

POSITION TITLE.....: Electric Plant Operator II
DEPARTMENT.....: Utilities
DIVISION.....: Electric Generation
CLASSIFICATION/GRADE.....: Electric Plant Operator II/109
REVISED.....: 05/2019
REPORTS TO.....: Electric Plant Operations Supervisor
REVIEWED.....: 05/2019
WAGES.....: Non-Exempt (Hourly)

SUMMARY:

Work in this position consists of supervising and directing the activities of shift personnel engaged in the operation of an electric power generating station. The total installed capacity of approximately 80 MW is comprised of both stem and internal combustion driven generation. Duties include periodic inspections and informal reports on the worthiness of equipment for safe and efficient operation. Work will be performed in accordance with established policies and procedures. Individual has decision making authority within these limitations and must be capable of exercising this authority calmly and decisively in emergencies. The Electric Plant Operator II reports to the Utility Supervisor Operations and work assignments and performance are subject to his review.

BASIC FUNCTIONS:

1. Communicate with the **LEPA** dispatcher on a daily basis regarding system status and power availability.
2. Supervises and/or directs plant system start-ups, shutdowns, and other control room operations.
3. Operates and communicates via SCADA System during plant and substation operation.
4. Conducts daily review and reports updates on equipment to ensure a safe and efficient operation.
5. Conducts on-shift training of other plant personnel to assist in their plant qualification efforts.
6. Assigns additional tasks to junior shift operators as per the Utility Supervisor's instructions.

OTHER REQUIREMENTS:

General:

1. Considerable knowledge of the principles, methods, procedures, material and equipment used in the generation of electricity by steam turbines.
2. Considerable knowledge of occupational hazards and necessary safety precautions related to this type of work.
3. Knowledge of laboratory techniques and standards used in power plant water treatment.
4. Ability to supervise subordinate personnel.
5. Ability to detect malfunctions in operating machinery, equipment and indicating devices and to take appropriate corrective action.
6. Ability to interpret blueprints and diagrams related to power plant operations.
7. Ability to react quickly, calmly, and decisively in an emergency situation.
8. Maintain qualification status of all operator functions.
9. Prepare and submit monthly qualification status report to the Utility Supervisor concerning junior operators under your supervision.

10. Submit letter of recommendation to the Utility Supervisor for review and consideration of any junior operator, who has completed all qualification requirements, to be considered for the next higher operator level.
11. Acquire and/or maintain personal telephone service.
12. Available to work alternating twelve (12) hour shifts as per routine scheduling.

Specific:

A. Electric Operations

1. Synchronize generators, tie-line, diesels, and diesel/steam plant tie.
2. Breaker operation – 34.5, supervisory, SCADA
3. Voltage theory – power factor, bus voltage, etc.
4. Understand power transmission tie-line – In & Out
5. Station service operations.
6. Read electric meters accurately
7. Knowledge of in-plant breakers.
8. Generator operation – winding temps, max loads, etc.
9. Operation while isolated from grid.

B. Boiler Operation

1. Start-up
2. Shutdown
3. Emergency boiler operation
4. Knowledge of operational theory
5. Knowledge of water chemistry
6. Ability to detect malfunction in operating machinery
7. Valving operations
8. All other operations relating to boiler and turbine and associated systems.

C. Training and Supervisory Criteria

1. Become familiar with the various Electric Generation Reports generated and received.
2. Become familiar with the Utility Supervisor, Operations, job description.

EDUCATION/EXPERIENCE:

1. High School Diploma or equivalent educational certification.
2. Considerable (3 to 5 years) work experience in all areas of plant operation.
3. Theoretical knowledge of basic mechanical and electrical principals as they apply to the production of electricity utilizing gas-fired boiler and stem-driven turbo-generators; any equivalent combination of education, training and/or experience may substitute.