

5035

CITY OF RIVERSIDE
HUMAN RESOURCES DEPARTMENT
CLASSIFICATION SPECIFICATION

05/25/10

Revised

TITLE: UTILITIES GENERATION TEST TECHNICIAN**DEFINITION**

Under general supervision, to perform skilled technical work in the testing, repair and calibration of all power generation instrumentation, electric motor controls, electric motors, and turbine auxiliary equipment control systems including distributed and logic controllers, to perform air quality emissions monitoring and data historian as mandated by the Air Quality Management District (AQMD), to maintain the continuous emissions monitoring system (CEMS), to assist with planning and testing of air permit requirements, to maintain all electrical systems 480V and lower; and to do related work as required.

REPORTS TO: Utilities Senior Generation Test Technician

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the Utilities Senior Generation Test Technician.

EXAMPLES OF DUTIES

Typical duties may include, but are not limited to, the following:

- Develop test programs, procedures and equipment.
- Prepare work reports and maintain records.
- Test, repair and calibrate electric, electronic, pneumatic, mechanical and control circuits.
- Test, repair and calibrate pressure, temperature, flow transmitters, pressure switches and transmitters.
- Install, maintain and troubleshoot circuit breakers, transformers, electric motors and other malfunctioning electric and electronic generation equipment.
- Test, repair and calibrate air emission control and monitoring equipment and related data recording systems.
- Monitor and perform maintenance of computer and PLC related software programs associated with the operations and control of the generation facilities.
- Monitor and perform maintenance of continuous emissions monitoring systems, programmable logic controllers, control systems and other generation equipment.
- Operate and assist with maintenance of all generation equipment as needed.
- Perform other related duties as assigned.

QUALIFICATIONS**Knowledge of:**

- Testing, repairing and calibrating electric, electronic, pneumatic, mechanical and control circuits.
- Testing, repairing and calibrating pressure, temperature, flow transmitters, pressure switches and transmitters.

- Installing, maintaining and troubleshooting circuit breakers, transformers, electric motors and other malfunctioning electric and electronic generation equipment.
- Testing, repairing and calibrating air emission control and monitoring equipment and related data recording systems.
- Computer related software programs associated with the operations and control of the generation facilities.
- Occupational hazards and standard safety precautions necessary in the work.
- Methods, materials and tools used to test, calibrate and repair various instrumentation, control systems, motors, generators and related equipment including knowledge of electric circuits, wiring diagrams and programmable logic controllers.
- Principles and practices of power generation equipment, rotating machinery and process systems and the ability to apply this knowledge to specific work problems.

Ability to:

- Understand and carry out complex oral and written instructions.
- Read and interpret wiring diagrams and schematics.
- Develop test programs, procedures and equipment.
- Successfully formulate and execute test procedures that insure the proper functioning of equipment and safeguard the public and other customers from power and/or communications interruptions.
- Locate, correct and adjust defects in electrical generation equipment and control systems.
- Maintain records and prepare reports.
- Use and care of hand tools and testing equipment related to electric generation facilities, and electrical and instrumentation systems.
- Prepare and assist supervisor with written and oral reports related to routine and regulatory operations.
- Assume responsibility for the proper operation of control systems, instrumentation, analyzers, metering, electrical equipment and sensors.
- Work overtime and/or rotating shifts as required.

Education and Experience:

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Education: Equivalent to completion of twelfth grade.

Experience: Five years experience in specialized and technical testing and repair of generation facility equipment, instrumentation and electrical equipment.

MEDICAL CATEGORY: Group 2

NECESSARY SPECIAL REQUIREMENT

Possession of an appropriate, valid class "C" California Motor Vehicle Operator's License.

CAREER ADVANCEMENT OPPORTUNITIES

FROM: Utilities Generation Test Technician

TO: Utilities Senior Generation Test Technician