

*Code: 2722*

*Title: CO-GENERATION PLANT OPERATOR-LEAD*

**SUMMARY:** Leads and participates in the operation, repair, servicing and maintenance of power generation equipment in a co-generation power production facility providing uninterrupted electrical power and supporting utility systems and services to a wastewater treatment facility.

**DUTIES/RESPONSIBILITIES:** (Work assignments may vary depending on the department's needs and will be communicated to the applicant or incumbent by the supervisor.)

Reviews and coordinates the operation and maintenance of power generation equipment as needed to furnish uninterrupted electrical power, heating, ventilation and air conditioning (HVAC) for a wastewater treatment facility;

Plans, schedules, assigns and evaluates work of co-generation plant operators and recommends personnel actions to the Co-Generation Plant Supervisor;

Trains operations and maintenance staff on a continuing basis in systems/equipment operation, maintenance and related safety topics;

Designs, plans and directs mechanical and preventive maintenance programs for assigned equipment/systems;

Coordinates operations and maintenance staff actions with other operators and maintenance staff to assure uninterrupted service support to Wastewater Treatment Plant (WWTP) systems;

Assists Co-Generation Plant Supervisor and engineering staff in development and maintenance of standard and emergency operating procedures, operations and maintenance standard operating procedures;

Maintains inventory of all equipment, parts, and supplies necessary to support plant/equipment operations and operational maintenance;

Researches technical data for ordering spares, parts and needed supplies and prepares purchase orders and like documents for Co-Generation Plant Supervisor's approval;

Operates electrical switchboard to control gas-powered power generating sets, adding engines according to increased/decreased power demands;

Observes necessary gauges, indicators and meter readings, records such items as required, and makes necessary adjustments;

Services, adjusts and maintains power generation, HVAC, and related equipment, systems including hydraulic, electrical and pneumatic operating controls;

Maintains and repairs auxiliary boiler room equipment;

Reviews process water sampling/test data, determines water chemistry adjustments required, and directs staff to make needed adjustments;

Performs preventive maintenance tasks and major overhaul work on equipment.

#### **KNOWLEDGE & SKILLS:**

Knowledge of:

- principles of operation, methods and practices of power generation plant operation;
- principles of electricity/electronics, to include high and low voltage electricity, AC and DC and applications in a power-HVAC-production setting;
- principles, practices, operation, maintenance and repair of large stationary engine generator sets, high and low pressure boilers and related generation equipment;
- occupational hazards and safety precautions of the trade;
- electrical, hydraulic and pneumatic control systems;
- process water chemistry sampling, testing and adjusting;
- principles of employee supervision, training and evaluation.

Skill in:

- operating and maintaining a full range of power generation and HVAC equipment and related systems;

- use, care and maintenance of tools, materials and equipment of the trade, including safety and personal protective equipment;
- reading, interpreting and applying technical information from operation/maintenance manuals, specifications, schematics, sketches, drawings, blueprints and related technical data and standard operating procedures;
- supervising, training and evaluating employees;
- following verbal and written guidance in routine and emergency situations;
- developing, applying and maintaining service, operations, maintenance and related schedules and operating procedures;
- maintaining and making in-service repairs on power generation and HVAC equipment;
- maintaining manual and automated operating and maintenance records;
- maintaining effective working relationships with others;
- compiling and preparing routine and special reports for management;
- sampling, testing, documenting and adjusting process water chemistry.

MINIMUM QUALIFICATIONS:

EITHER:

(1) Five years of experience in power production plant maintenance and operation with experience in heating and air conditioning plant maintenance and operations including absorption chiller and ebullient boilers and two years of lead or supervisory experience in a power production plant setting. (Relevant education from an accredited college, university, technical/vocational school and/or training may substitute for one-half of the minimum experience requirement.)

OR:

(2) Three years of experience with Pima County as a Co-Generation Plant Operator, Lead Central Plant Operator, Lead Stationary Engineer, Lead Kino Central Plant Operator or Senior Central Plant Systems Technician.

OR:

(3) Four years of experience with Pima County as a Central Plant Operator, Power Production Engineer, Kino Central Plant Operator, Central Plant Systems Technician or Stationary Engineer and one year of lead or supervisory experience in a central plant operational setting.

OTHER REQUIREMENTS:

Licenses and Certificates: All positions require a valid Arizona Class D driver license at the time of application. Failure to maintain the required licensure shall be grounds for termination.

Physical/Sensory Requirements: Physical and sensory abilities will be determined by position.

This classification specification is intended to indicate the basic nature of positions allocated to the classification and examples of typical duties that may be assigned. It does not imply that all positions within the classification perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.