

Code: 2153

Title: CENTRAL PLANT SYSTEMS TECHNICIAN

SUMMARY: Operates, adjusts, services, and performs minor repairs and maintenance of automated heating, ventilating, air-conditioning (HVAC) and associated systems and equipment. Monitors and takes routine or emergency actions upon receipt of alarms, requests for services, or when supported systems instrumentation indicates problems.

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

Operates automated and computer-controlled heating, ventilating and air-conditioning (HVAC) control systems for County buildings or facilities, to include adjusting temperatures of individual work areas and performing seasonal changeovers of equipment, systems and their operating schedules;

Operates central plant heating, cooling and related auxiliary equipment and systems;

Installs, programs, maintains and repairs energy management control system (EMCS) controllers;

Performs and documents minor operator-level maintenance and repairs of central plant equipment and related systems;

Sets energy management operating limits and temperature parameters for computerized HVAC control system;

Notes and records meter, gauge, and indicator readings and adjusts equipment or system operations accordingly;

Samples, tests, records and adjusts water chemistry in plant equipment water systems;

Monitors fire alarm systems and reports fires/emergencies to the 911 emergency dispatch system, and shuts down HVAC and related equipment in affected areas and facilities;

Responds to and resolves inquiries and complaints about heating, cooling and ventilation in County buildings or facilities;

Monitors and acts upon problems relayed via the County complex maintenance intercommunications network, elevator telephones, equipment room overheat alarms, and similar systems;

Maintains equipment, system, facility and shift operations and maintenance logs.

KNOWLEDGE & SKILLS:

Knowledge of:

- methods and practices of operating and maintaining a central plant;
- operation and maintenance of heating, ventilating and air-conditioning (HVAC), electrical systems and associated auxiliary equipment and systems;
- water treatment as applied to central plant activities, to include chemical testing and quantitative application of industrial chemicals;
- hazards and safety precautions associated with central plant operations;
- theory of operation of automated HVAC control systems.

Skill in:

- operating and maintaining central plant equipment and related systems;
- using tools, equipment and materials of the trade;
- reading and interpreting specifications, operating manuals and technical data;
- understanding and carrying-out written and oral instructions;
- responding to out-of-tolerance or emergency situations by adjusting equipment/systems, recalling/dispatching specialists, or reporting situations to emergency response dispatch functions and functional area managers;
- maintaining equipment, system and shift operations and maintenance logs;
- operating automated HVAC control systems.

MINIMUM QUALIFICATIONS:

EITHER:

(1) Four years of experience in the operation or maintenance of central plant heating, ventilating and air-conditioning (HVAC) equipment and associated systems.

OR:

(2) An Associate's degree from an accredited college or technical school in air-conditioning technology and two years of experience in heating, ventilating and air-conditioning (HVAC) central plant operations.

OR:

(3) One year of experience with Pima County as a Stationary Engineer, Lead Stationary Engineer, Kino Central Plant Operator or Lead Kino Central Plant Operator.

OTHER REQUIREMENTS:

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

Pima County

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