

COUNTY OF SOLANO

STATIONARY ENGINEER

DEFINITION

Under direction, operates, repairs and maintains heating, cooling, ventilation and refrigeration systems, performs related duties as required

DISTINGUISHING CHARACTERISTICS

This is a journey level class which is responsible for operating, maintaining and repairing building support equipment in an assigned building complex. This class is distinguished from the Chief Stationary Engineer in that the latter has overall supervisory responsibility for the maintenance of stationary equipment throughout the County's buildings.

EXAMPLES OF DUTIES

Duties may include but are not limited to the following

- 1 Starts, stops, and adjusts automatic and manual low and high voltage, electric, electronic and pneumatic controls to operate the heating, cooling, ventilating and refrigeration systems within recommended or prescribed operating ranges
- 2 Reads meters and gauges or automatic recording devices to verify operating conditions and records data such as temperature of equipment, hours of operation, fuel consumed, temperature or pressure, water levels, analyses of flue gases, and voltage load
- 3 Adjusts manual controls or overrides automatic controls to bring equipment into recommended or prescribed operating ranges, switch to back up equipment or systems, or shut down equipment
- 4 Visually inspects equipment at periodic intervals to detect malfunctions or need for repairs, adjustments or lubrication
- 5 Maintains equipment by testing, balancing and making adjustments to tightening fittings, repacking bearings and valves, replacing compressors, motors, valve gaskets, recorders and gauges, and cleaning or replacing burners or other components using hand and power tools, oils and lubricates equipment
- 6 Performs water treatment analyses on chilled, condenser and/or hot water and steam to maintain chemical control limits of the water, adds chemical additives, such as water softeners into treatment tank to prevent scale build up and to clean boiler lines
- 7 Records operation and maintenance actions taken during particular shift

QUALIFICATION GUIDELINES**EDUCATION AND/OR EXPERIENCE**

Considerable heating, ventilating, air conditioning and/or refrigeration experience which included troubleshooting and analyzing problems on pneumatic, electric and electronic systems and which demonstrates possession of and competency in requisite knowledge and abilities

KNOWLEDGE/ABILITIES

Considerable knowledge of the theory and practice of heating, ventilating, air conditioning, electricity, hydraulics, thermal dynamics refrigeration and electronics, the installation, maintenance, operation, repair, and balancing of environmental systems

Working knowledge of drafting and blueprint reading, pneumatic and electronic controls, tools and equipment commonly used in the stationary engineering field, chemistry, physics, and water treatment practices as they apply to stationary engineering equipment, equipment commonly found in public buildings

Ability to read instructional mechanical plans and blueprints, diagnose mechanical operating troubles, maintain accurate records and reports, comprehend and follow written and verbal instructions, communicate effectively with people of diverse socio economic backgrounds and temperaments, establish and maintain cooperative working relationships, determine the appropriate course of action in emergency situations, demonstrate tact and diplomacy, collect and analyze data to identify needs and evaluate equipment effectiveness, draw logical conclusions and make appropriate recommendations and adjustments, understand and analyze testing procedures and test results, maintain accurate records and document actions taken, organize and prioritize work assignments, make arithmetical calculations, research regulations, procedures and technical reference materials relating to equipment, determine and evaluate levels of performance of equipment, recognize and respect limit of authority and responsibility, work effectively with others who have objectives counter to assigned role

SPECIAL REQUIREMENTS

Possession of a valid Class III California driver's license may be required

SUPPLEMENTAL INFORMATION

Independent travel is required

Incumbents must be able to work independently Work may include lifting objects weighing more than 100 pound and working around equipment under high pressure and extreme temperature ranges

Depending on assignment, candidates for some positions in this class may be required to pass a background investigation in accordance with applicable law, regulation and/or policy

Incumbents must work outdoors in all types of weather conditions

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