CITY OF OCEANSIDE

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JOB CODE: MAINT39
UNIT: OCEA

WATER PLANT OPERATOR III

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

DEFINITION

Under direction, to perform a variety of skilled technical duties in the operation and maintenance of the City's water treatment or reverse osmosis facility; to operate and assist in the supervision of a direct filtration or reverse osmosis facility; to perform adjustments and repairs to plant equipment; to ensure the safe and efficient delivery of clean water to residents; to collect water samples for chemical testing purposes; and to perform related duties as assigned.

CLASS CHARACTERISTICS

This is the advanced journey-level class within the Water Plant Operator series. Employees within this class are distinguished from the Water Plant Operator II by the level of responsibility assumed and the complexity of duties assigned including scheduling of preventive maintenance to equipment and accomplishing standard and special tests in the chemical and bacteriological analysis of samples taken for treatment purposes. Employees at this level function independently and exercise individual judgment. The minimum certification level of a Water Plant Operator III is a State of California Grade III Water Treatment Operator Certificate. Employees at this level are required to be fully trained in all procedures related to assigned area of responsibility. Positions in this series are flexibly staffed and may be filled by advancement from the II level, or when filled from the outside, require prior experience. Advancement is not based on time in grade but solely at the discretion of the Water Utilities Director and the organizational needs of the department.

EXAMPLES OF DUTIES - *Examples of duties performed by employees in this class may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.*

Assists the supervisor in the coordination and supervision of a direct filtration or reverse osmosis facility; performs a variety of skilled maintenance duties involved in the operation and upkeep of plant equipment, facilities, and production wells; trains plant operators; monitors plant for efficient operation and safety; monitors plant equipment for defects; reads meters, gauges and charts; regulates water flows in accordance with established procedures; adjusts and calibrates feed machinery for a variety of chemicals to keep treatment at prescribed standards; collects and labels water samples for chemical testing purposes; adjusts pump settings and chemical feed settings; maintains operating logs and records; operates and inspects plant equipment including pumps, valves, electric motors, switch gear, compressors, blowers, chemical mixers, engines and generators; cleans, oils and greases equipment; maintains buildings; makes minor repairs; paints inside and outside of buildings; reports malfunctioning equipment; calls for maintenance assistance in the event of serious breakdowns; operates pumps and other allied equipment; inspects equipment to determine operating condition and makes necessary adjustment; changes chlorine tanks and cylinders; performs general maintenance and repair of equipment utilized in and around the plant; records instrument readings and changes charts; changes chemical tanks and cylinders; performs all necessary control tests and calculations to maintain efficient operations; performs plant start-up and shutdown; schedules preventive maintenance to equipment; conducts special tests in the chemical and bacteriological analysis of samples taken; orders repair parts, supplies, and

laboratory chemicals; receives deliveries; responds to and answers citizens inquires and complaints; records results of test and other measurements and plots data on graphs.

MINIMUM QUALIFICATIONS

Knowledge of:

- Operations, services and activities of a surface water direct filtration water treatment or reverse osmosis facility.
- Principles and procedures of water treatment plant operations.
- Principles and processes of production wells, reverse membrane trains, iron and manganese and granulated active carbon (GAC) systems.
- Tools and equipment used in the operation and maintenance of motors, engines, pumps and other water treatment plant equipment.
- Methods, equipment, chemicals and materials used in the treatment, storage and distribution of water.
- Operational and safety regulations pertaining to water treatment plant operations and vehicle and equipment usage.
- Operational characteristics of water treatment plant equipment and tools.
- Principles of water sampling and testing.
- Chemical and biological reactions in the treatment process.
- Laboratory practices and techniques.
- Methods and techniques of preventive maintenance.
- Pertinent Federal, State and local laws, codes and regulations.

Ability to:

- Perform a variety of skilled maintenance duties.
- Operate and maintain water treatment plant facilities.
- Operate production wells, reverse membrane trains, iron and manganese and granulated active carbon (SAC) systems.
- Operate distribution system using SCADA controls.
- Collect a variety of water samples and conduct appropriate tests.
- Operate plant equipment and appropriate vehicles.
- Operate office equipment including computers.
- Operate a variety of water treatment plant equipment in a safe and effective manner.
- Monitor and adjusts plant processes.
- Ensure drinking water is in compliance with State and Federal guidelines and regulations.
- Perform inspections of treatment plant equipment.
- Work independently in the absence of supervision.
- Maintain and update accurate records.
- Prepare clear and concise reports.
- Communicate clearly and concisely, both orally and in writing.
- Establish and maintain effective working relationships with those contacted in the course of work.

Experience and Training Guidelines

Experience: Sufficient experience necessary to demonstrate the knowledge, skills and abilities required to competently operate at the level of a Water Plant Operator III. Such experience

would normally be obtained through a minimum of three years experience in a capacity performing functions relative to the operation and maintenance of a water treatment facility.

Training: Equivalent to the completion of the twelfth grade supplemented by training in Water Treatment Operations or a related field.

License or Certificate:

- Possession of, at a minimum, a Grade III Water Treatment Operator certificate issued by the California Department of Public Health. Additional certification may be required to operate some treatment facilities. As mandated by the State, specialized and continuing education/training is mandatory for renewal of the certificate.
- Possession of an appropriate, valid driver's license.

WORKING CONDITIONS

Environmental Conditions: Water treatment plant environment; exposure to noise, dust, grease, smoke, fumes, gases, electrical energy, radiant energy, toxic materials, and inclement weather conditions; work in or with water.

Physical Conditions: Essential functions may require maintaining physical condition necessary for standing, walking or bending for prolonged periods of time; heavy, moderate or light lifting; operating motorized equipment and vehicles.