GENERAL PURPOSE

Under direction, plans, schedules, leads and participates in the work of skilled, journey-level staff engaged in the installation, maintenance, repair and servicing of mechanical equipment and machinery used in the operation of large, state-of-the-art lift stations, micro-filtration water treatment plants, and reverse osmosis desalination facilities; and performs related duties as required.

DISTINGUISHING CHARACTERISTICS

This is the lead or advanced journey-level class in the Senior Mechanical Maintenance Technician series. In the lead assignments, incumbents provide direction to lower level staff including assigning, directing, and reviewing the work of staff. In the advanced-journey assignment, incumbents perform the more difficult and complex tasks and assignments. Positions at this level are distinguished from those in the lower level classification of Senior Mechanical Maintenance Technician by the independence with which they perform their duties, handling the most difficult and complex work, or by performing lead work.

Employees in this classification are subject to on-call, which may include rotating-duty schedule, weekends and 24-hour emergency call out with little or no notice. Any employee designated to serve on-call who repeatedly refuses to serve on-call, or report for emergencies, shall be subject to disciplinary action up to and including discharge.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to this class.

Plans, schedules, lays out, inspects, leads and participates in the inspection, diagnoses, troubleshooting, maintenance, repair and servicing of plant and shop equipment, components, facilities and machinery used in the operation of lift stations, micro-filtration water treatment plants, and reverse osmosis desalination facilities.

Assists in the development and implementation of objectives, procedures and work standards for the section.

Installs, maintains, and repairs equipment, including natural gas compressors and microturbines used for power generation, hydraulic and pneumatic systems, booster

FLSA DETERMINATION: Non-exempt.
pumps, disinfection equipment, hydro mechanical systems and related equipment and apparatus used in the production, treatment, storage and distribution of potable, reclaimed water and the collection and transmission of raw sewage and wastewater.

Assists in the preparation of budgetary estimates of staff, equipment and materials required for projected activities.

Provides technical assistance to staff.

Assists in the development of plans, specifications and contracts for projected maintenance and construction projects.

Inspects and evaluates work being performed; identifies problem areas and directs remedial action to be taken.

Ensures that section activities are carried out in a safe manner and that established policies, procedures and safety measures are followed.

Assists in planning and implementing a preventative maintenance program for lift stations, micro-filtration water treatment plants, and reverse osmosis plants.

Instructs personnel in the safe operation of light- and medium-duty equipment, such as forklifts, trucks, backhoes, lifts, cranes, and dump trucks.

Performs a wide variety of advanced journey-level maintenance and repair tasks to plant machinery, equipment and mechanical systems.

Ensures the timely and accurate completion of preventive maintenance activities, utilizing computerized maintenance management systems; maintains detailed record keeping in support of computerized maintenance management system.

Reads, interprets and works from rough sketches, diagrams and blueprints.

Orders parts, materials and supplies.

 Designs and fabricates a variety of brackets, supports, and other metal structures using torches, welding, equipment and other fabrication equipment.

Uses CMMS for tracking work orders.

May lead the work of others as a project leader; may assume office duties in Supervisor’s absence.

Performs related duties as assigned.

**FLSA DETERMINATION:** Non-exempt.
DESIRED MINIMUM QUALIFICATIONS

Knowledge of:

Principles, methods, techniques, tools and equipment used in the installation, maintenance and repair of industrial/mechanical equipment and machinery common to large state-of-the-art micro-filtration water treatment plants, reverse osmosis desalination facilities, waterworks systems, lift stations, and production wells; machine shop procedures and practices; safety practices, safe work methods and safety regulations pertaining to the trade; application of lockout/blockout procedures; shop mathematics; water hydraulics; use and operation of oxyacetylene and electric arc and TIG welding equipment and materials; basic electrical safety, confined space entry procedures, basic first aid, asbestos removal; Safe Drinking Water Act and relevant state and federal regulations; cost estimating and basic techniques of engineering and drafting as they apply to assigned responsibilities; computer applications related to the work; codes, ordinances and regulations pertaining to the trade; mechanical maintenance, crane operation, metals identification and welding.

Ability to:

Diagnose and repair a wide variety of industrial/mechanical equipment, systems and machinery, such as valves, motors, pumps and other equipment common to the waterworks field; use precision and diagnostic instruments to measure required tolerances of mechanical parts; operate a pump installing rig; arc and TIG weld and oxygen-acetylene cut; identify and implement effective courses of action to complete assigned work; read and interpret plans, specifications, manuals and blueprints; use hand tools, pipe-threaders, taps, dies, measuring instruments and lazer alignment equipment; exercise independent judgment within established guidelines; establish and maintain effective working relationships with those contacted in the course of the work; coordinate work assignments with other sections, divisions or departments; operate class A vehicles in accordance with DOT regulations; follow and apply written and oral work instructions.

Training and Experience:

A typical way of obtaining the knowledge, skills and abilities outlined above is graduation from high school, or G.E.D. equivalent; and four years of journey-level experience in the installation, maintenance and repair of pumping equipment, including valves, pumps and motors; or an equivalent combination of training and experience.

Licenses; Certificates; Special Requirements:

FLSA DETERMINATION: Non-exempt.
A valid Class A California driver’s license, with tank and hazmat endorsements or the ability to obtain one within six months of date of hire, and the ability to maintain insurability under the District’s Vehicle Insurance Policy. All District employees required to possess a valid Class A driver’s license for the performance of their duties shall be subject to random drug and alcohol testing pursuant to District policy and federal law. Certifications required include:

- Forklift Operator’s License
- California State Distribution Operator I is required for employees hired into this classification after 01/01/2010 (for those assigned to potable water).
- Mechanical Technologist II certification is required for employees hired into this classification after 01/01/2010 (for those assigned to lift stations).

PHYSICAL AND MENTAL DEMANDS

The physical and mental demands described here are representative of those that must be met by employees to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Demands

While performing the duties of this class, an employee is regularly required to use hands to finger, handle, feel or operate objects, tools, or controls and reach with hands and arms. The employee frequently is required to stand and talk or hear; walk; sit; climb or balance; stoop, kneel, crouch or crawl.

The employee must regularly lift and/or move up to 50 pounds and frequently up to 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and the ability to focus vision.

Mental Demands

While performing the duties of this class, an employee is regularly required to use written and oral communication skills; read and interpret data, information and documents; analyze and solve problems; use shop math; observe and interpret situations; learn and apply new information or new skills; work under deadlines with constant interruptions; and interact with District staff, other organizations and the public. The employee occasionally is required to deal with dissatisfied or quarrelsome individuals.

FLSA DETERMINATION: Non-exempt.
WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The employee frequently works outside in a wide range of weather conditions, near moving mechanical parts, and on slippery and uneven surfaces. Employees may, at times, be required to wear appropriate personal protective equipment including respiratory protection while performing work in environments that could have the potential to contain wet or humid conditions, vapors or particulates, hazardous chemicals, and the risk of electric shock. The noise level in the work environment is frequently loud.

FLSA DETERMINATION: Non-exempt.