JOB DESCRIPTION

Waterworks Technician I
Code Number: 52002

GENERAL PURPOSE

Under immediate supervision, performs a wide variety of skilled work in the installation, maintenance and modification to District facilities while providing cost effective operations of a large waterworks system; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

Waterworks Technician I is the skilled entry-level class in the Waterworks Technician series. Initially under close supervision, incumbents perform the more routine duties while learning District policies and procedures and becoming familiar with the variety of departmental systems and practices. As experience is gained, duties become more diversified and are performed under more general supervision. Trade areas covered by this class include hydraulic testing and monitoring; valve exercising; and automatic control valve installation and operation. Incumbents in this class gain developmental experience to acquire the abilities to perform the full range of duties for the Waterworks Technician II class. Incumbents typically follow prescribed and standardized procedures and refer unusual problems or questions to a supervisor or higher level technician. Incumbents may work without close supervision on a variety or routine, ongoing tasks and assignments.

Incumbents are typically assigned to one of two primary sections: (1) hydraulic testing; and (2) automatic control valves.

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 the class.

Performs a variety of skilled entry-level duties involved in the inspection, diagnosis, trouble-shooting, and maintenance of the water distribution systems as they relate to pump testing, automatic control valve settings, and valve exercising.
Assists in performing annual inspections/maintenance on all automatic control valves (earthquake, altitude and regulating), as designated by the preventative maintenance schedule.

Performs interior, exterior and structural inspection of all District water reservoirs.

Submits requisitions for necessary tools, equipment and supplies.

Responds to emergency situations as necessary.

Performs related duties as assigned.

**DESIRED MINIMUM QUALIFICATIONS**

**Knowledge of:**

Mathematics including algebra, geometry and trigonometry; water hydraulics; basic electrical theory; basic practices of engineering design; cost estimating and drafting techniques; principles, methods, techniques, tools and equipment used in the installation, maintenance and the operation of a large waterworks system; safety practices, safe work methods and safety regulations; computer applications related to the work; codes, ordinances and regulations pertaining to the work.

**Ability to:**

Read and interpret engineering drawings survey notes and mechanical specifications; prepare pump system designs; exercise independent judgment and initiative within established guidelines; establish and maintain effective working relationships with those encountered in the course of work; coordinate work assignments with other sections, divisions or agencies; communicate effectively, orally and in writing; follow and apply oral and written 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 one year of experience in the installation, maintenance and repair of pumping equipment, including valves, pumps and motors; or an equivalent combination of training and experience. Control valve training is desired.
Licenses; Certificates; Special Requirements:

A valid California driver’s license and the ability to maintain insurability under the District’s Vehicle Insurance Policy.

A State of California Water Distribution Operator Certificate, Grade I; or the ability to obtain such within fifteen months from date of hire.

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 job, the 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; and walk or sit. The employee is frequently required to climb or balance; stoop, kneel, crouch or crawl; and smell.

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

Mental Demands

While performing the duties of this class, the incumbent is regularly required to use written and oral communication skills; read and interpret data, information and documents; analyze and solve problems; use shop mathematics; observe and interpret situations; deal with changing, intensive deadlines; and interact with officials and the public.

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, industrial and residential waste, and the risk of electric shock. The noise level in the work environment is frequently loud.

The incumbent is subject to weekend work and 24-hour call out on a seven-day basis.

**FLSA Determination:** Non-exempt.