

IRVINE RANCH WATER DISTRICT
Job Description

Title: Water Maintenance Technician – Leak Detection
FLSA Code: Non-Exempt

Salary Grade: XV, XX
Department: 40/45

GENERAL PURPOSE

Perform leak detection monitoring of Irvine Ranch Water District pipelines to maintain all District infrastructures. Pinpoint water losses and points of water loss using electronic listening equipment and microprocessor computer leak correlator. Maintain leak detection database for water losses and reporting. Routinely provide leak detection service and support for all Operations and Maintenance departments for reclaimed, domestic and untreated water systems. Provide steel pipeline locating support for the Engineering department.

DISTINGUISHING CHARACTERISTICS

The Water Maintenance Technician II position is distinguished from the Water Maintenance Technician I by the following:

Water Maintenance Technician II:

- In the absence of the Water Maintenance Supervisor, responsible for supervising the crew, preparing work schedules, daily/weekly logs, and administrative responsibility for the work order system.
- Maintain all electronic leak detection and locating equipment and vehicles.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The following is a non-exclusive list of 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 duties does not exclude them from the position if the work is similar or related as determined by the incumbent's supervisor.

Perform pre-trip safety inspection on vehicles and equipment to be used daily. Ensure parts and materials are available and stocked on the crew truck.

Routinely required to work in the streets and provide own traffic control, according to District safety standards.

Identify utility markings at job site to determine location for excavation.

Assume role of District representative to communicate with customers affected by scheduled work.

Shutdown water service at repair site.

Have knowledge of appropriate installation, repair, modification, shoring and fabrication of water transmission and/or distribution pipelines per District specifications.

Restore water service, and have knowledge of how to backfill excavation site and install trench plate according to city and county specifications.

Ensure job site is left safe and clean.

Provide back-up and assistance to Operations Repair Coordinator.

Participate in District Standby Program.

Ability to make determination for leak repair responsibility (District vs. customer).

Assist the Water Maintenance Supervisor with decision analysis and prioritization for leak detection and repair work to be performed.

Ability to identify and transition couplings, full circle repair clamps, pipeline adapters, compression fittings, and other water related repair materials. Familiarity with C-900 PVC, A.C.P., ductile iron, steel, copper, brass, polybutylene, and plastic pipes. Ability to use gas detectors, pipe locator, electronic leak detection equipment, microprocessor computer leak correlator, jackhammer, compactor, chipping gun, cutoff saw, tapping machine, saw cutter, silver solder, gas torch, coring machine, boring machine, cement mixer, welder, compressor, pipe freezer, generator, pumps, rotary hammer, dump truck, forklift and a variety of other hand and power tools.

Routinely required to work in permit and non-permit required confined space and rescue operations environment.

Ability to read and interpret blueprints, maps, and atlases.

Assist other District departments (Engineering, Inspections, Construction, Operations and Maintenance) and provide emergency response for leak detection, leak locating, pipeline locating and repair services.

Safety Requirements: Attend appropriate safety training regarding job duties. Attend safety meetings of at least 30 minutes in duration, bi-weekly. Report safety violations or safety hazards to the Safety Office as soon as possible after awareness. All employees are required to notify their supervisor and the Safety Office of any sub-standard working conditions.

MINIMUM TRAINING, EXPERIENCE, AND KNOWLEDGE REQUIRED TO PERFORM ESSENTIAL JOB FUNCTIONS

High School Graduate. Working knowledge of database systems and basic computer systems.

Water Maintenance Technician II: Minimum two years experience in water pipeline construction, repair, or maintenance plus working knowledge of distribution systems (reclaimed and domestic). Familiarity with hand and power tools. Knowledge of leak detection and leak detection equipment desirable.

Water Maintenance Technician I: Minimum one year experience in water pipeline construction, repair, or maintenance plus working knowledge of distribution systems (reclaimed and domestic). Familiarity with hand and power tools. Knowledge of leak detection and leak detection equipment desirable.

PHYSICAL AND MENTAL ABILITIES REQUIRED TO PERFORM ESSENTIAL JOB FUNCTIONS

The physical and mental demands described below 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.

Language Ability and Interpersonal Communication

Ability to effectively communicate both oral and written. Ability to communicate effectively with all levels of office/field employees, management, customers and vendors. Represent District in a professional manner when dealing with

customers, outside contractors and agency officials. Ability to advise and provide interpretation to others on how to apply policies, procedures and standards to specific situations.

Mathematical Ability

Ability to add, subtract, multiply and divide. Ability to calculate water formulas and interpret applicable tables and charts.

Judgment and Situational Reasoning Ability

Ability to use good personal judgment and discretion in performing all job functions.

Physical Requirements

Will lift 90 lbs. on a routine basis. Must be certified annually to wear respiratory equipment. Must be clean shaven such that facial hair does not interfere with the fit of self-contained breathing apparatus. Ability to exert moderate to heavy physical effort in heavy work, typically involving some combination of climbing and balancing, stooping, kneeling, crouching, crawling, lifting, carrying, pushing, twisting and pulling. Ability to operate equipment and machinery with some operations requiring complex and rapid adjustments. Ability to work in a confined space environment and in underground locations.

Environmental Adaptability

Ability to work under sometimes uncomfortable conditions with exposure to environmental factors such as toxic agents, wildlife, disease, or equipment, high speed traffic, or machinery.

LICENSE/CERTIFICATIONS REQUIRED

Valid Class 'C' California Driver's License.

California Dept. of Health Services Grade I Water Distribution Certification.

Department Approval/Date

Human Resources Approval/Date

Effective Date: 07/01/06