

PROVO CITY CLASSIFICATION SPECIFICATION	
Title: W.W. Systems Instrumentation Technician	Job Code: 2508
Date: June 27, 1999	EEO Code: TE
FLSA Designation: Non-exempt	Civil Service Status: Covered

DEFINITION: This is highly skilled electronic and backup electrical maintenance and repair work on water reclamation plant equipment and controls in the Water Resources Department.

CLASSIFICATION STANDARDS: The positions allocated to this class are responsible to the Water Reclamation Plant Maintenance Supervisor for the safe and effective maintenance and repair of all instrumentation and controls related to the Water Reclamation facility and lift stations.

ESSENTIAL DUTIES: Calibrates critical process control instrumentation (ultrasonic and magnetic); repairs all instrumentation and control systems, mechanical or electronic; maintains equipment and instrumentation in good working order; observes and tests instruments and controls to ensure proper function; diagnoses problems with control/instrumentation; measures flow rates of chemicals and processes to ensure appropriate levels; adjusts controls and settings of monitoring equipment; assists plant electrician with trouble-shooting and repair.

Analyzes process control problems for new programs; designs microprocessor and instrumentation control systems; codes PC's and PLC's in various languages; computes system parameters and ranges; tests new systems to ensure proper operation; assembles control panels and PLC base units, small instrumentation devices, etc.; installs new instrumentation and control systems; reviews electrical drawings, advises staff and engineers on the proper operation of new equipment.

Prepares documentation and schematics of plant; maintains records of plant instrumentation drawings and programming scripts; maintains needed inventory; attends seminars and technical training courses on latest technology; performs basic electrical duties, acts as backup to the plant electrician; and assists other staff members as needed.

Performs other related duties as required.

MINIMUM REQUIREMENTS: Associate's degree in industrial instrumentation or closely-related field and four (4) years experience with telemetry, microcircuits, or remote sensing and operational systems or other related field; or an equivalent combination of job-related training and experience.

License(s). A valid, lawful Driver License is required.

SELECTION FACTORS:

Knowledge of:

- electrical circuits and wiring systems.
- related laws, codes, rules and regulations governing functions of the position.
- policies and procedures established for the work system.
- the operations, functions, and terminology common to the work.
- basic English composition, spelling, and grammar.

Skill in:

- reading, analyzing, and interpreting electrical and instrument technical manuals, PIDs, electrical schematics, ladder logic problems, etc.
- interpreting a variety of instructions in oral, written, diagram, or schedule form.
- resolving problems related to proper application of control systems, installation details, and equipment malfunctions.

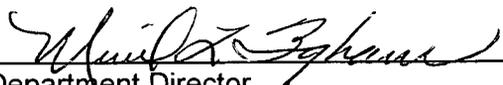
Ability to:

- work with mathematical concepts and calculations relating to industrial control systems.
- evaluate programs and procedures and make sound recommendations.
- effectively communicate with outside contractors and plant personnel at a technical or layman level.
- develop and maintain effective working relationships with the public, coworkers, and superiors.
- work at remote field sites with little or no supervision.

TOOLS AND EQUIPMENT USED: Mechanical, electrical, and pneumatic hand tools; including, drill press, grinders, welders, soldering equipment, multi-meter, oscilloscope, current clamps, power supplies, analog/digital signal generators, and standard office equipment.

PHYSICAL DEMANDS: Position requires stooping; crouching; crawling; bending; climbing stairs and ladders; working on scaffolding; remaining on feet for extended periods of time; and lifting, pushing, or pulling weights of up to 75 pounds.

ENVIRONMENTAL FACTORS: Exposure to heights; electronics; high voltage; moving mechanical equipment; noise; variable temperatures; humid conditions; fumes; and toxic, caustic, or infectious materials. May include exposure to high-stress situations or environments, including, the meeting of strict deadlines and other stressful conditions related to the workplace. *Note: This position is subject to callback, standby, emergency work requirements, and other non-standard working hours.*



Department Director

5-4-2000

Date



Mayor/Chief Administrative Officer

9 May 00

Date

NOTE: The above statements are intended to describe the general nature and level of work being performed by the person(s) assigned to this classification. They are not intended to be an exhaustive list of all duties, responsibilities, and skills required of personnel so classified. Class specifications are not intended to and do not imply or create any employment, compensation, or contract rights to any person or persons. Management reserves the right to add, change, or delete any and all provisions of this classification at any time as needed without notice. This class specification supersedes earlier versions.