

EXHIBIT C-19
CLASSIFICATION SPECIFICATION

Job Title: Industrial Maintenance Technician

Department: Treatment Plant/Industrial Facility Operations
Leak Repair/Pipe Replacement/Ditch Maintenance

General Job Description

Under the direction of the Water Division Manager and Water Treatment Superintendent

performs electrical work with AC voltages from 120 to 480 volts in an industrial environment.

develops electrical and logic schematics and process flow drawings.

performs maintenance, repair, design and/or modifications of the plant's control network and control/electrical systems. Includes troubleshooting, calibration and installation of pneumatic and electromechanical components, programmable logic controllers and control valves.

fabricates tools, fittings and other parts or components needed for Agency maintenance and construction projects which cannot be readily or economically acquired commercially, utilizing a variety of skills including arc and acetylene welding/cutting and machining.

Under the direction of the Maintenance and Construction Foremen:

works independently or as a member of a crew to efficiently and productively provide assistance as needed in the repair, replacement, operations and maintenance of Agency facilities.

Prerequisite Qualifications

High school diploma or the equivalency thereof.

Understanding of preventive, corrective, and predictive maintenance methods.

Must be able to read and comprehend electrical diagrams, schematics and blue prints.

Ability to troubleshoot problems, identify root causes and implement remedies.

Knowledge of principles, methods and equipment to troubleshoot and repair electrical motors and control systems.

Ability to troubleshoot automated equipment such as electric motors, PLCs, VFDs, sensors, breakers, pressure switches, pumps, etc.

Ability to perform calibrations, installation and maintenance of process and analytical instrumentation.

Knowledge of utility grade electrical components, DC and AC electrical circuits.

Basic knowledge of, and experience in a majority of the following crafts: plumbing, electrical, arc and acetylene welding/cutting, and machining.

Knowledge of basic construction tools and equipment; basic knowledge of Agency operations and materials used in potable and non-potable water transmissions systems.

Basic Work Hours: 7:00 AM to 3:30 PM, Monday through Friday or defined by the Water Division Manager.

Hourly Compensation Range: See Exhibit A of the M.O.U. between Agency and Union.

Essential Job Duties:

1. Task: Installs and repairs electrical circuitry, including diagnosis and maintenance.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 lbs.); kneeling; stooping; bending; squatting; climbing ladders, stairs, etc.; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

2. Task: Performs preventive and predictive maintenance of pneumatic systems, electronic and electrical equipment.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 lbs.); kneeling; stooping; bending; squatting; climbing ladders, stairs, etc.; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

3. Task: Troubleshoot, maintain and modify Programmable Logic Controllers (PLCs) and programming to repair, improve and optimize performance of process equipment.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 lbs.); kneeling; stooping; bending; squatting; climbing ladders, stairs, etc.; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

4. Task: Interpret schematics and equipment manuals to troubleshoot equipment.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 lbs.); kneeling; stooping; bending; squatting; climbing ladders, stairs, etc.; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

5. Task: Calibrate analog and digital instrumentation.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 lbs.); kneeling; stooping; bending; squatting; climbing ladders, stairs, etc.; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

6. Task: Constructs (including layout and fabrication), remodels and repairs structures, tools, equipment parts and plumbing fittings utilizing arc and acetylene welding and cutting equipment, as well as basic machining tools.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 Lbs.); kneeling; stooping; bending; squatting; climbing ladders, stairs, etc.; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

7. Task: Gives direction and supervision to Agency employees assigned to assist this position in the essential job duties listed above.

Physical Demand: Standing; walking over uneven ground; kneeling; stooping; bending; squatting; sitting; climbing ladders, stairs, etc.; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls.

Marginal Job Duties:

1. Task: Assists in the repair of pipe leaks on Agency's distribution system.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 Lbs.); kneeling; stooping; bending; squatting; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

2. Task: Assists in the replacement of pipeline on Agency's distribution system.

Physical Demand: Sitting; standing; walking over uneven ground; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs., and infrequently up to 100 Lbs.); kneeling; stooping; bending; squatting; close vision; distance vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

3. Task: Maintains tools and equipment used in performance of position's jobs.

Physical Demand: Sitting; standing; walking; lifting, pushing, pulling and carrying (regularly up to 25 Lbs., frequently up to 50 Lbs.); kneeling; stooping; bending; squatting; close vision; use of hands to finger, handle, or feel objects, tools or controls; driving vehicle.

Environmental Demands:

Outside: Frequently works outside in a variety of weather conditions ranging from snow to +100° F.

Inside: Occasionally works indoors in temperature-controlled environment.

Fumes/Gases: Exposure to fumes from internal combustion engines; exposure to dust generated during construction operations; exposure to fumes generated during metal brazing, welding and cutting.

Noise/Vibration: Moderate exposure to noise, and minimal vibration from construction and fabrication tools and equipment.

Mental Requirements:

Reading: Reads construction and fabrication plans and specifications, technical manuals, material data sheets, safety manuals work orders, street maps, letters reports, memos and messages.

Writing: Writes memos, messages, daily work orders, prepares diagrams and sketches. and fills out materials lists and other information forms.

Math: Ability to perform basic math calculations. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations. Ability to accurately measure distances at degree of accuracy appropriate for application to work in progress.

Attention to Detail: High level concentration and attention to detail for extended periods of time required.

Repetition: Moderate repetition level; usually performing a variety of tasks each day.

Judgment: Ability to work independently, prioritize work and make decisions regarding correct application and implementation of work procedures. Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to work with others and to formulate appropriate instructions to achieve desired goals.

Social Skills: Ability to relate cooperatively with members of the public, and Agency personnel.