MERCED IRRIGATION DISTRICT
PUMP SERVICEPERSON

FLSA Status – Non-Exempt
Bargaining Unit
One (1) Position

DEFINITION:
An employee engaged in performing equipment using basic methods, tools, techniques and materials used in the inspection, maintenance, installation, troubleshooting and repair of a wide variety of irrigation equipment and facilities.

ESSENTIAL FUNCTIONS OF THE POSITION:
Perform a variety of semi-skilled and skilled duties, including clerical, manual, mechanical and electrical, in the inspection, maintenance, installation and repair of a wide variety of the District's equipment and facilities.

Works a scheduled shift and works overtime as required.

Inspects, maintains, installs troubleshoots and repairs a wide variety of irrigation equipment, including but not limited to:

- Deep well and booster vertical turbine pumps
- Centrifugal and other types of pumps
- Automatic water control and delivery gates and actuators
- Flow meters
- Trash rack cleaners
- Automatic screens and filters
- All associated electrical and control components including service poles, electrical and control panels, breakers, starters and wiring.

Operates pump pulling rig and District vehicles
Test pumping of wells.
Clean wells with bailer or blow pipe and compressor.
Installs electrical equipment such as transformers, circuit breakers, disconnects, buswork, etc.
Perform functions on energized lines, utilizing appropriate tools.
Maintains good housekeeping on the job, around the yard, and on the vehicles.
Maintains tools and equipment in clean and workable condition.
Replaces packing, mechanical seals, bearings, shafts, impellers, cables and stems
Replaces or repairs plumbing systems within District facilities
Periodically checks static and pumping ground water levels.
Reports needed repairs to Supervisor.
Maintains records of work in progress and completed work, including keeping detailed records of parts used in repairs
Assists other District personnel regarding inquiries and problems associated with District equipment and facilities.
Instructs District personnel in proper use of equipment and facilities.
Works overtime as required
Continuously improve knowledge related to the operation and maintenance of irrigation conveyance system equipment and facilities through self-study and internal/external training courses.
Other duties as assigned.

QUALIFICATIONS:

Education:
- Graduation from high school or equivalent.

Experience:
- Any combination of education and experience equivalent to five years of experience in the maintenance and repair of deep well turbine pumps, booster pumps, automatic gates and actuators, and other mechanical equipment such as automatic screens and trash cleaners.
- Must have some electrical background working on equipment with different voltages, (110 V, 230 V single phase, 230 V three phase, 480 V three phase)
- Read basic wiring diagrams.

Ability to:
- Read and understand technical drawings, sketches, plans, specifications and maintenance manuals.
- Use hand, electrical, electronic, and mechanical and power tools, cutting torch and welders and instruments and equipment skillfully and safely.
- Safely work with cleaning solvents and chemicals.
- Clearly understand the operation of each vehicle, piece of equipment, tool or diagnostic meter that may be required to operate as part of job duties.
- Maintain equipment records and repair sheets.
- Communicate clearly and concisely, orally and in writing.
- Understand and carry out oral and written directions.
- Establish and maintain cooperative relationships with those contacted in the course of work, including coworkers, vendors, consultants and the general public.
- Help to plan and coordinate work.
- Work without direct supervision.
- Maintain neat personal appearance.
- Perform heavy manual labor and lift 90 pounds.
- Attend out-of-area meetings, seminars, workshops, etc.
- Read and be familiar with the Districts Illness and Injury Prevention Program.
- Comply with safety instructions, rules, and regulations.
- Use safety equipment and devices as required.

Knowledge of:
- Basic methods, tools, techniques and materials used in the inspection, maintenance, installation, troubleshooting and repair of a wide variety of irrigation equipment and facilities.
- The hydraulic, operational, mechanical and electrical principles of irrigation district equipment and facilities.
- 480V and 230V 3 Phase, 230V and 110V single phase electrical circuits.
- Low voltage equipment, circuits and procedures.
- Gates and gate actuators.
- Electrical testing equipment (ohm, amp, voltage and insulation testers).
- Wire circuit and panel sizing.
- PG&E requirements for Ag Service.
- Basic plumbing practices and procedures.
- Recordkeeping and reporting procedures.
- Electrical safety regulations, practices and procedures.
- Safe work practices, in general.

- OSHA requirements, if applicable.
- Applicable electrical codes, including the current NEC (National Electrical Code).
- First aid and methods of applying resuscitation.
- Basic pump fundamentals.
- Thread sizes of pipes, columns, tubes and shafts.

Necessary Special Requirements:

- Possession of a valid California Driver's License Class C required and Class A or B preferred.
- A Department of Motor Vehicles "Driver Record Information" print-out will be required at time of hire.

TYPICAL PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions):

- Operate District vehicles.
- Carry, push, pull, reach and lift equipment and parts weighing up to 90 pounds.
- Stoops, kneels, crouches, crawls and climbs as required during performance of duties.
- Work in an environment with exposure to dust, dirt and significant temperature changes between heat and cold.
- Regularly use a telephone and radio for communication.
- Use office equipment such as computer systems, copiers and FAX machines.
- Stands and walks for extended periods of time.
- Hearing and vision within normal ranges.
- Work at heights in excess of 25 feet.

Sitting:	
Hands/Arms:	
Lifting:	Lifts equipment and parts up to fifty (90) pounds.
Stooping:	Bends body downward and forward by bending at the knees or waist.
Talking:	Expresses ideas and shares information by means of spoken work in person and by phone.
Hearing:	Hears well enough to receive communications in person and by telephone.
Vision:	Operate vehicles and office equipment.

PHYSICAL EXAMINATION:

Must pass a physical examination, which includes substance screening, before employment with the District.

SUPERVISION:

The position receives general supervision from the Irrigation Operations Manager.

Employee Signature/Date

Supervisor Signature/Date