

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Hydroelectric Plant Technician I		DWR POSITION NUMBER 2751-3728-083	SAP POSITION NUMBER 50001645	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION O&M/ADM-Eng/MESB/E&TS/Mechanical Test Unit	
COLLECTIVE BARGAINING IDENTIFIER <input type="checkbox"/> Management Related BU: <input type="checkbox"/> Supervisory Related BU: <input type="checkbox"/> Confidential Related BU: <input checked="" type="checkbox"/> Rank and File BU: R12				
RESPONSIBILITIES EXERCISED <input type="checkbox"/> Supervisory <input type="checkbox"/> Lead Person		IMMEDIATE SUPERVISOR (Print) Vladimir Pikalov	SUPERVISOR'S CLASSIFICATION Senior HEP Utility Engineer (Supv)	
APPROVED BY (Personnel Analyst's Name) Marissa Arriaga			DATE 4/27/26	
<i>Percent of Time</i>	<i>Activity</i>			
30%	<p>POSITION SUMMARY Under the supervision of the Manager, Mechanical Test Unit and with guidance from the Hydroelectric (HEP) Technician III, the incumbent performs complex technical work on control, communication, electrical and mechanical equipment supporting the operation and maintenance of the State Water Project (SWP) generating and pumping plants, switchyards, water conveyance systems, and related facilities.</p> <p>ESSENTIAL FUNCTIONS The incumbent works cooperatively with others, maintains regular attendance, and exercises sound judgment. Training will be provided as needed. Essential duties include, but are not limited to, the following:</p> <p>Assist in technical work related to electrical and mechanical testing activities at State Water Project facilities. Activities include installation, maintenance, and calibration of test equipment, configuration and operation of data acquisition systems, field balancing of rotating machinery, vibration analysis, measuring flow using portable and permanent ultrasonic meters, ultrasonic inspection for flaws and thickness, strain gages, cable tension testing, plumb checks for vertical hydro turbines, oil analysis, and generator and pump performance tests. Follow established instructions and procedures, determine required materials, tools, safety procedures and personal protective equipment (PPE) to perform installation and testing. Field work requires traveling by vehicle on public roadways to remote areas.</p>			
25%	<p>Read and interpret electrical, mechanical, and electronic diagrams. Assist in troubleshooting hardware and software failures and document modifications. Participate in the design and fabrication of specialized test equipment enclosures and fixtures with the aid of AutoCad and SolidWorks. Enclosures include sensor power supplies, breakout boxes, ruggedized field containers for data loggers, etc. Perform installation, maintenance and troubleshooting of BNC and mil-spec circular connectors, including crimp and solder pins.</p>			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Vladimir Pikalov		SUPERVISOR'S SIGNATURE ➤		DATE
EMPLOYEE'S STATEMENT: I HAVE DISCUSSED WITH MY SUPERVISOR THE DUTIES OF THE POSITION AND HAVE RECEIVED A COPY OF THE DUTY STATEMENT.				
EMPLOYEE'S NAME (Print) Vacant		EMPLOYEE'S SIGNATURE ➤		DATE

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<i>Percent of Time</i>	<i>Activity</i>		
20%	<p>Assist in maintenance and calibration of test instruments to ensure accurate measurement. Test equipment includes, but is not limited to load cells, flow meters, accelerometers, thermocouples, optical sensors, proximity probes, pressure transducers, data acquisition hardware, digital multimeters, spectrum analyzers, and other related equipment. Support management of the calibration contract by coordinating transport of equipment to and from calibration laboratories, arranging mobile calibration services at field divisions, and processing related invoices.</p>		
15%	<p>Participate in collecting and maintaining test records, upload software programs for testing and calibration, procure equipment, and other work as required. Actively research novel technology and propose methods to improve quality and reliability of work.</p>		
10%	<p>Design and install strain gage measurement systems for custom field monitoring of stress. Setup and maintain associated signal condition equipment. Review new equipment and system design criteria and specifications as required for alignment with unique field division requirements. Prepare diagrams, sketches and cost estimates to support installations, including test equipment and materials. Inspect and document new installations and propose process improvements. Maintain inventory and proper storage of shop equipment, chemicals, and materials, and support their repair, replacement, and procurement.</p> <p>RELATED EQUIPMENT: Additional equipment that generally falls under the purview of the HEP Tech classification includes but is not limited to the following:</p> <ol style="list-style-type: none"> 1) SWP plant and water conveyance instrumentation, devices and systems used for protection, monitoring, data collection and control - including relays, programmable logic controllers, signal conditioners, power line carriers, sensors and transducers for thermal, flow, level, vibration, down thrust, and pressure. 2) SWP Generating and pumping plant equipment including power transformers, circuit breakers, governors, excitation/voltage regulators, predictive monitoring systems, annunciators, hydraulic/pneumatic systems, safety systems. 3) SCADA equipment including host servers, work stations, programmable logic controllers, sequence of event loggers, front end processors, communication interfaces and gateways, and application software. 4) Communication equipment including various types of high speed data multiplexors, Ethernet based components, fiber optic cable, copper cable, transceivers, protocol converters, T1 interfaces, various LAN and WAN network equipment including wireless access points, leased telco services, voice, data, and video networks. 5) SWP IT related equipment including personal computers, work-stations, servers, video surveillance systems, security and alarm systems, video-conference systems, and voice systems with digital and analog telephones. 		

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<i>Percent of Time</i>	<i>Activity</i>		
	<p>KNOWLEDGE, SKILLS, AND ABILITIES: This position requires the ability to lift and transport materials up to 50 pounds and perform physical tasks such as bending, kneeling, and climbing ladders, stairs, and scaffolding. The incumbent must be able to work in confined spaces, distinguish color-coded indicators and warning signals, and use hand tools and control equipment with sufficient manual dexterity for installation, testing, and repair activities. Work is performed in environments with high noise levels.</p> <p>SPECIAL REQUIREMENTS: This position requires the ability to work independently and as part of a team, work extended hours and on weekends as needed to support restoration of operations, and follow applicable safety procedures. Travel throughout the State is required. Work may involve driving on public roadways and uneven terrain to remote areas. Employee must successfully complete all required safety training.</p> <p>All employees are responsible for contributing to an inclusive, safe, and secure work environment that values diverse cultures, perspectives, and experiences, and is free from discrimination. The Department of Water Resources (DWR) is committed to its mission and employees, and we are grounded in our commitment to public safety. Regular and consistent attendance is essential to the successful performance in this position.</p> <p>This is a sensitive position and is subject to substance abuse testing set forth in California Department of Human Resources (CalHR) Regulations 599.960-599.966.</p> <p>Under the provisions of the North American Electric Reliability Corporation Critical Infrastructure Protection Standard CIP-004 as part of the Energy Policy of 2005, this position has authorized cyber access to or unescorted physical access around critical cyber assets and is subject to a satisfactory background check prior to appointment and every seven years thereafter.</p> <p>OTHER REQUIREMENTS: This position provides necessary support to the Divisions of Flood Management, Safety of Dams, Operations and Maintenance, Engineering, and/or the Public Affairs Office during Governor declared emergencies, flood, dam, SWP, and other incidents and emergencies. Additionally, this position may participate in emergency operations in the capacity of area teams, field inspection, coordination, and assist agencies such as Cal OES and FEMA in disaster work, including performing fieldwork to complete damage survey reports for droughts, flooding, earthquakes, and other emergencies. This position may also serve in one of the sections as established in the Incident Command System to assist the Department in performing its emergency preparedness, response, recovery, and mitigation functions. These functions are established in the California State Emergency Plan and the Department's Administrative Orders.</p>		

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Hydroelectric Plant Technician II		DWR POSITION NUMBER 2751-3729-X8X	SAP POSITION NUMBER 50001645	MCR 1
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30%	<p>Perform technical work related to electrical and mechanical testing activities at State Water Project facilities. Activities include installation, maintenance, and calibration of test equipment, configuration and operation of data acquisition systems, field balancing of rotating machinery, vibration analysis, measuring flow using portable and permanent ultrasonic meters, ultrasonic inspection for flaws and thickness, strain gages, cable tension testing, plumb checks for vertical hydro turbines, oil analysis, and generator and pump performance tests. Develop and follow established instructions and procedures, determine required materials, tools, safety procedures and personal protective equipment (PPE) to perform installation and testing. Field work requires traveling by vehicle on public roadways to remote areas.</p>			
25%	<p>Read and interpret electrical, mechanical, and electronic diagrams. Troubleshoot hardware and software failures and document modifications. Design and fabricate specialized test equipment enclosures and fixtures with the aid of AutoCad and SolidWorks. Enclosures include sensor power supplies, breakout boxes, ruggedized field containers for data loggers, etc. Perform installation, maintenance and troubleshooting of BNC and mil-spec circular connectors, including crimp and solder pins.</p>			
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15%	<p>Collect and maintain test records, upload software programs for testing and calibration, procure equipment, and other work as required. Independently research novel technology and propose methods to improve quality and reliability of work.</p>		
10%	<p>Design and install strain gage measurement systems for custom field monitoring of stress. Setup and maintain associated signal condition equipment. Review new equipment and system design criteria and specifications as required for alignment with unique field division requirements. Prepare diagrams, sketches and cost estimates to support installations, including test equipment and materials. Inspect and document new installations and propose process improvements. Maintain inventory and proper storage of shop equipment, chemicals, and materials, and support their repair, replacement, and procurement.</p> <p>RELATED EQUIPMENT: Additional equipment that generally falls under the purview of the HEP Tech classification includes but is not limited to the following:</p> <ol style="list-style-type: none"> 1) SWP plant and water conveyance instrumentation, devices and systems used for protection, monitoring, data collection and control - including relays, programmable logic controllers, signal conditioners, power line carriers, sensors and transducers for thermal, flow, level, vibration, down thrust, and pressure. 2) SWP Generating and pumping plant equipment including power transformers, circuit breakers, governors, excitation/voltage regulators, predictive monitoring systems, annunciators, hydraulic/pneumatic systems, safety systems. 3) SCADA equipment including host servers, work stations, programmable logic controllers, sequence of event loggers, front end processors, communication interfaces and gateways, and application software. 4) Communication equipment including various types of high speed data multiplexors, Ethernet based components, fiber optic cable, copper cable, transceivers, protocol converters, T1 interfaces, various LAN and WAN network equipment including wireless access points, leased telco services, voice, data, and video networks. 5) SWP IT related equipment including personal computers, work-stations, servers, video surveillance systems, security and alarm systems, video-conference systems, and voice systems with digital and analog telephones. 		

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