

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Hydroelectric Plant Technician II		DWR POSITION NUMBER 2761-3729-X8X	SAP POSITION NUMBER 50001967	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION O&M/ADM- Engineering/UPSS Technician Section	
COLLECTIVE BARGAINING IDENTIFIER Management Related BU: ☐ Supervisory Related BU: ☐ Confidential Related BU: ☒ Rank and File BU: R12				
RESPONSIBILITIES EXERCISED ☐ Supervisory ☐ Lead Person		IMMEDIATE SUPERVISOR (Print) Lucas Keserich	SUPERVISOR'S CLASSIFICATION HEP Technician Supervisor	
APPROVED BY (Personnel Analyst's Name) Sydney Mecke			DATE 07/31/2026	
<i>Percent of Time</i>	<i>Activity</i>			
	POSITION SUMMARY: Under the direction of an Hydroelectric Plant Technician Supervisor and guidance from the other Hydroelectric Plant Technician II (HEPT II), the incumbent safely performs all technical maintenance and complex work associated with control, communication, seismic, high voltage (HV) electrical and mechanical protection equipment in connection with the operation and maintenance of the State Water Project (SWP) generating/pumping plants, switchyards, water conveyance, and facilities. Provides guidance and assists in development of HEPT II.			
	ESSENTIAL FUNCTIONS: This position requires that the incumbent work cooperatively with others, maintain regular, consistent, predictable attendance and exercise good judgment. Must be a good Communicator, Creative, Collaborative, and a Critical thinker. The specific essential duties include, but are not limited to the following:			
25%	Troubleshooting and repair: Follows all safety procedures to isolate equipment to analyze, troubleshoot, diagnose failures on equipment, system components, including hardware and software issues and take logical approach for corrective measures. Knowledge of and ability to use the appropriate tools and test equipment including fiber optic test equipment OTDR, VFL, Power Meter, Light Source, VOM, Protocol Analyzers, PC/laptop and various hand tools. Must be able to use and interpret technical documentation, drawings and schematics. Identify appropriate replacement equipment and restore equipment including testing and validation of proper operation.			
25%	Installation and testing : Perform physical installation and testing of equipment, cables, system assemblies, stand-alone components, sensors, transducers, protection devices, power equipment			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Lucas Keserich		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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	and components used for protection, monitoring, communication and control within all facilities of the SWP. Install equipment according to specifications, installation instructions, documentation packages, drawings and other related information to make electrical, mechanical and system connections and configuration settings. Tasks include; determining required materials, tools, test equipment, safety procedures, and Personal Protective Equipment (PPE) to perform installation and testing. Set-up and configure test equipment required for simulation and calibration of alarms, annunciators, Input Output (I/O), points, check logic function for equipment and perform system test for correct equipment operation. Read and interpret documentation packages, drawings, procedures for installation and testing parameters. Perform calculations to obtain data set point ranges and parameters. Analyze test data results and validate for acceptance.			
25%	Maintenance and calibration: Independently performs tasks requiring preventative maintenance, modifications, calibration, upgrades on equipment and systems to ensure the highest degree of reliability and availability. Thoroughly inspects, cleans, performs electrical and mechanical checks, and observes equipment/system operations to validate proper functionality. Updates old and develops new equipment maintenance plan and test procedures. Test equipment; Inspects, updates firmware, and calibrates test equipment, instrumentation, and tools to ensure proper testing certification. When required, returns test equipment to manufacture to re-calibrate and recertification for proper operation.			
10%	Configuration and software updates: Follow procedures and instructions to configure equipment and functional parameters to meet required operations design. Assists with applying software updates to correct vulnerabilities and ensure operation at required version level.			
10%	Documentation: Documents and records maintenance, calibration and testing results; equipment settings, test levels and operation ranges; updates drawings or equipment records to reflect as installed equipment and systems; maintain records of installed equipment and asset inventory, spares inventory, equipment repair history, software updates, and equipment modifications; prepare and update test reports and procedures, requisitions for materials, tools, and services.			
5%	Training: Must pass all required safety training. Participate/attend HEPT training to ensure understanding and ability to perform work and maintenance on Supervisory Control and Data Acquisition (SCADA), Communications, instrumentation, IT, and power equipment used in the various types of SWP facilities. Attend training for new equipment that is installed.			

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	EQUIPMENT SUMMARY - Essential work includes installation, testing, troubleshooting and construction performed on the equipment below including but not limited to: 1) SCADA equipment, host servers, work stations, programmable logic controllers, sequence of event loggers, front end processors, communication interfaces and gateways, and application software. 2) Communication equipment including various types of high speed data multiplexers, transport systems, ethernet based components, fiber optic cable, copper cable, transceivers, media converters, T1 interfaces, various LAN and WAN network equipment including wireless access points, leased telco services, voice, data and video networks. 3) 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. 4) Seismic instrumentation, including installation, configuring, troubleshooting accelerometers, acceleographs, and broadband sensors 5) 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, pressure. 6) SWP Generating and pumping plant equipment including power transformers, power circuit breakers, high voltage instrument transformers, governors, excitation/voltage regulators, predictive monitoring systems, annunciators, hydraulic/pneumatic systems, safety systems. PHYSICAL REQUIREMENTS: This position requires the incumbent to have: 1) the strength and ability to move and transport heavy equipment or material up to 50 lbs; 2) the stamina and ability to bend, stoop, kneel, and stretch to access, test or install cables, equipment or materials; 3) the stamina and ability to climb 25 foot ladders, long flights of stairs, scaffolding, and towers, to access, test or install cables, equipment or materials; 4) the ability to identify color-coded parts, indicator lights, CRT display data, hazard warning tags, and warning barrier tapes; 5) the ability to work in confined spaces; and 6) the manual dexterity to use hand tools, operate control panels, equipment keypads and for delicate component or printed circuit board repair. This position requires working around loud machinery. REQUIREMENTS: This position requires the incumbent to: 1) work alone, as well as part of a team; 2) willing to work extended hours and on weekends as needed to support restoration of operations; 3) follow safety precautions inherent in the job; and 4) possess and maintain a valid California drivers license as			

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	travel utilizing a State vehicle is required throughout California, including driving on unpaved roads and across rugged terrain. SPECIAL REQUIREMENTS: Employee is required to successfully complete all safety training related to the functions of the job. This is a sensitive position and is subject to substance abuse testing as defined in California Department of Human Resources (CalHR) Regulations 599.960-599.966. Travel throughout the State will be required. Must be available for callouts outside normal business hours. Must be willing to work sometimes outside of normal business hours, travel, and stay overnight in various locations throughout the State of California. 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. 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. The Department of Water Resources (DWR) is committed to its mission and employees, and we are grounded in our commitment to public safety. Regular, consistent, and predictable attendance is essential to the successful performance in this position. OTHER RESPONSIBILITIES: 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.			