

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Senior HEP Utility Engineer (Specialist)		DWR POSITION NUMBER 2822-3674-091	SAP POSITION NUMBER 50054273	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION O&M/ADM POM/PSP&CB/TPS/TransmissionStudies	
COLLECTIVE BARGAINING IDENTIFIER Management Related BU: ☐ Supervisory Related BU: ☐ Confidential Related BU: ☒ Rank and File BU: R09				
RESPONSIBILITIES EXERCISED ☐ Supervisory ☐ Lead Person		IMMEDIATE SUPERVISOR (Print) Masoud Shafa	SUPERVISOR'S CLASSIFICATION Supervising HEPU Engineer	
APPROVED BY (Personnel Analyst's Name) Taylor Marshall			DATE 8/6/2026	
<i>Percent of Time</i>	<i>Activity</i>			
	POSITION SUMMARY Under the general direction of the Transmission Planning Section Manager, the incumbent performs high level specialized electrical engineering work to meet the interconnection transmission requirements for the operation of the State Water Project (SWP). ESSENTIAL FUNCTIONS This position requires that the incumbent work cooperatively with others, maintain regular, consistent, predictable attendance, and exercise good judgment.			
40%	Perform technical analysis of transmission requirements and make recommendations to management for specific arrangements for acquisitions of transmission services required for new or expanded SWP facilities. Perform and lead complex engineering studies including power flow, transient, and other transmission planning studies to develop technical information required to file transmission interconnection requests for new or expanded SWP pumping and generating plants with California Independent System Operator (CAISO), Participating Transmission Owners (PTOs), or other appropriate transmission provider, with follow-up through all phases of the process. Perform comprehensive power flow system studies including stability, transient steady-state, and frequency response analyses to validate model fidelity, assess system dynamics, and ensure compliance with performance and reliability criteria			
30%	Coordinate the performance and/or review of complex engineering studies including power flow, transient, and other transmission system impact and facilities studies in collaboration with generation developers, interconnected utility, and the CAISO to ensure that third-party projects do not adversely impact SWP. Work with Transmission Interconnections Unit to develop and implement specialized study plans and analysis of transmission and interconnection requirements for any interconnections including third-party requests and potential new or expansion of existing SWP facilities.			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Masoud Shafa		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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20%	Act as the Designated Subject Matter Expert (DSME) to North American Electric Reliability Corporation (NERC), and Western Electricity Coordinating Council (WECC) standards related to power system modeling. Coordinate with SWP Compliance Coordinator to develop and maintain Reliability Standard Audit Worksheets (RSAWs), internal controls, compliance procedures, and supporting documentation to ensure compliance with NERC requirements. Track new and upcoming NERC Reliability standards related to power system modeling. Maintain a high-level of knowledge of NERC standards and provide expert advice to management. Act as a Designated Subject Matter Expert (DSME) on all aspects of NERC compliance related to power system modeling.			
10%	Participate in meetings and proceedings of CAISO, WECC, Federal Energy Regulatory Commission (FERC), California Energy Commission (CEC), California Public Utilities Commission (CPUC), and other agencies concerning transmission planning and development and present written and oral comments to advocate SWP's position. Attend trainings and conferences to stay up to date with of relevant planning requirements, power flow modeling, and compliance requirements. SPECIAL REQUIREMENTS Must be willing to travel by plane and stay overnight in various locations throughout the West, which may require work outside of normal business hours. Must be able to work independently with minimum supervision and keep tasks on schedule. Must have strong written and oral communication skills and the ability to get along well with a variety of personnel. Knowledge of transmission studies and contracts and a broad knowledge in transmission issues is desirable. 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 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. 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. FINANCIAL DISCLOSURE This position is covered in the Political Reform Act and requires financial disclosure within 30 days of the first and last day physically worked in a covered position and annually by April 1st.			

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	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.			