

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Electrical Engineer		DWR POSITION NUMBER 2822-3613-xxx	SAP POSITION NUMBER 50008467	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION O&M/ADM POM/Transmission Rates Unit	
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) Trong Bui	SUPERVISOR'S CLASSIFICATION Senior HEPU Engineer (Supv)	
APPROVED BY (Personnel Analyst's Name) Taylor Marshall			DATE 8/27/2026	
<i>Percent of Time</i>	<i>Activity</i>			
30%	POSITION SUMMARY Under the direction of the Senior Hydroelectric Power Utility Engineer (Supv) of the Transmission Rates Unit, within the Transmission Planning Section, the incumbent performs the less complex electrical engineering work related to technical and economic evaluation of transmission studies and interconnection service requirements, and transmission rate design for the reliable and cost-effective operation of the State Water Project (SWP). ESSENTIAL FUNCTIONS This position requires that the incumbent work cooperatively with others and maintain regular, consistent, and predictable attendance; have good verbal and written communication skills; have good knowledge of spreadsheet, data processing software, and word processing applications; and exercise good judgment. Specific essential duties include, but are not limited to, the following: Using engineering and economic principles, power system modeling, and associated software tools, support staff in the less complex electrical engineering analyses to determine the cost and operational impacts to the SWP resulting from proposed new or upgraded transmission projects, proposed new or expansion of existing SWP facilities, and proposed new or upgraded third-party transmission and generation projects. Research, including publicly filed documents, and report on interconnection requests, generator and transmission project licensing activities and support negotiation with regulators, developers, and transmission owners to develop alternative solutions or mitigations plans. Coordinate efforts with other Department offices to develop CDWR's position and responses to these activities, respond timely to inquiries, and provide quality control with follow-up through during all phases. Prepare reports and presentations for management on the conclusions and results obtained through these studies and recommend actions to be taken.			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Trong Bui		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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Vacant		TBD	O&M/ADM POM/Transmission Rates Unit	
Percent of Time	Activity			
30%	Support staff in technical electrical engineering studies in the assessment of proposed transmission rate design and/or methodology changes and in preparation of the Department's positions in transmission service rate case settlement negotiations before the Federal Energy Regulatory Commission (FERC). Utilize principles from statistics, finance, economics, and engineering to assess transmission revenue requirement issues such as return on equity, depreciation, transmission capital expenditures, transmission operational and maintenance expenditures, etc. Assist staff in development forecasts of CAISO's Transmission Access Charge (TAC) rates			
30%	Provide assistance to staff in the development of power flow models and performance of power flow analyses using the Positive Sequence Load Flow (PSLF) software to determine impacts to SWP facilities and the transmission system associated with proposed new or upgraded transmission projects and proposed new or expansion of SWP facilities. Use Excel spreadsheet in conjunction with PSLF to conduct analyses as part of the Department's effort to comply with North American Electric Reliability Corporation (NERC) reliability standards relating to power and protection system modeling. Coordinate with neighboring utilities and the Western Electricity Coordinating Council (WECC) to participate in multi-agency transmission planning studies. Assist in development and maintenance of Reliability Standard Audit Worksheet (RSAW), internal controls, compliance procedures and supporting documentation to ensure compliance with NERC Reliability Standard requirements			
10%	Monitor and participate in regulatory stakeholder proceedings at the California Independent System Operator, California Energy Commission, FERC, WECC, and California Public Utilities Commission regarding transmission and interconnection policies, rate design, and transmission planning issues. Develop and perform engineering studies to analyze the operational and cost impacts of various proposals by these regulatory entities and develop position papers in response to proposals, filings, orders, and regulations proposed by these entities. Coordinate with other Department offices to ensure that CDWR's position in these transmission rate issues is not in conflict with CDWR positions in other power related or SWP operational issues.			
	KNOWLEDGE, SKILLS, AND ABILITIES			
	Must have good written and verbal communication skills and be able to work independently in a team environment. Good organizational and time management skills are required to manage multiple projects, keep tasks on schedule, and meet work commitments under tight time constraints. Must be detail oriented, and be responsive with good problem-solving skills. The ability to utilize computers effectively to accurately analyze large amounts of information under tight time constraints is necessary. 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.			

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	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. This position will require driving a vehicle on public roadways to attend meetings. 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, 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. 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.			