JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION	DWR POSITION NUMBER	SAP POSITION NUMBER	MCR
Senior Hydroelectric Utility Engineer (Specialist)	**2813-3674-X9X**	**50010791**	**1**

APPOINTEE	SAP PERSONNEL NO.	DIVISION/SECTION
Vacant	**TBD**	**O&M/ADM POM/Congestion Management Unit**

COLLECTIVE BARGAINING IDENTIFIER

Management Related BU:	Supervisory Related BU:	Confidential Related BU:	Rank and File BU:
☐	☑ **S09**	☐	☐

RESPONSIBILITIES EXERCISED	IMMEDIATE SUPERVISOR (Print)	SUPERVISOR'S CLASSIFICATION
☐ Supervisory ☑ Lead Person	**Mohan Niroula**	**Supervising HEPUE**

APPROVED BY (Personnel Analyst's Name)	DATE
Nicholas Miskovich	**11/10/2026**

Percent of Time	*Activity*
	POSTION SUMMARY **Under the general direction of the Supervising Hydroelectric Power Utility Engineer, the incumbent supervises the Congestion Management Unit including the following: manage State Water Project (SWP) transmission congestion program; develop Locational Marginal Pricing (LMP) forecasting methods; review and evaluate congestion costs resulting from the implementation of existing and future SWP transmission and California Independent System Operator (CAISO) energy market requirements; analyze and determine the Congestion Revenue Rights (CRR) needed to hedge the congestion rents associated with the SWP Day Ahead (DA) operations; acquire CRR through the CAISO allocation processes; and act as congestion management liaison between DWR and CAISO.** **ESSENTIAL FUNCTIONS** **This position requires the incumbent to work cooperatively with others; be able to exercise sound judgment; communicate effectively; and maintain regular, consistent, and predictable attendance. The specific essential duties include, but are not limited to, the following:**
45%	**Manage State Water Project (SWP) transmission congestion program; develop, analyze, and implement LMP forecasting methods; review, evaluate, and estimate the potential congestion costs resulting from implementation of existing and future SWP transmission and California Independent System Operator (CAISO) energy market requirements; estimate SWP congestion and transmission losses associated with CDWR's participation in the CAISO Day Ahead and Real-Time market operations; perform analysis to determine Congestion Revenue Rights (CRR) required to hedge the congestion rents associated with the SWP Day Ahead and Real-Time Market activities; acquire CRR through the CAISO allocation process; develop congestion management reports to communicate CRR hedging performance; make strategic recommendations to the management regarding DWR's future long-term power transactions and transmission projects using results from the LMP and CRR studies; determine strategies needed for improvement in CDWR's CRR participation to optimize outcomes of future CAISO CRR Allocation processes.**

SUPERVISOR'S STATEMENT: **I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.**

SUPERVISOR'S NAME (Print)	SUPERVISOR'S SIGNATURE	DATE
Mohan Niroula	➢	

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)	EMPLOYEE'S SIGNATURE	DATE
Vacant	➢	

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Percent of Time	*Activity*
35%	**Represent DWR in CAISO's stakeholder meetings and proceedings related to congestion management and CRR studies to minimize the impacts of key assumptions in CAISO's proposed study models and initiatives on SWP operation. Monitor CAISO's development of the LMP structure and the CRR allocation and auction processes to determine impacts on the Department's existing power and transmission contracts. Participation in stakeholder meetings, training courses, and other events will require driving a vehicle on public roadways. Provide congestion management support to all the O&M/POM/PSMB sections and units on projects that relate to transmission congestion and losses. Assist the Branch Manager to prepare letters and reports as required to document and administer the Units' activities.**
20%	**Plan, organize, and direct lower level engineer staff on tasks which include the following: establish and maintain a system of assignment control to complete projects on time; monitor and evaluate work performance and report to leadership; determine training needs; and coach and develop lower lever level staff.**

KNOWLEDGE, ABILITIES, SKILLS

Knowledge of the electric utility industry, power regulatory requirements, power plant and electric transmission operations and equipment. Exceptional verbal, written, and interpersonal communication skills. Ability to keep tasks on schedule under tight time constraints, comprehend large regulatory and technical documents, and be diplomatic in sensitive negotiations.

SPECIAL REQUIREMENTS

Must be willing to work occasionally outside of normal business hours, travel, and stay overnight in various locations throughout the State of California or other states which may require air travel or other means of transportation. Travel throughout the State may require driving a vehicle on public roadways.

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.

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.

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Percent of Time	*Activity*
	FINANCIAL DISCLOSURE REQUIREMENT **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.** **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 the California Office of Emergency Services and the Federal Emergency Management Administration 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.**