

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Engineer, Water Resources		DWR POSITION NUMBER 2220-3137-002	SAP POSITION NUMBER 50001850	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO.	DIVISION/SECTION O&M/Oroville Field Div./Engineering Branch	
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) Mark Rabo		SUPERVISOR'S CLASSIFICATION Supervising Engineer, WR
APPROVED BY (Personnel Analyst's Name) Jordan McDermott			DATE 10/7/25	
<i>Percent of Time</i>	<i>Activity</i>			
30%	POSITION SUMMARY: Under direction of the Supervising HEP Utility Engineer performs difficult field and office Civil Engineering tasks of the unit. Provides support to the Federal Energy Regulatory Commission (FERC) License Coordination Branch. ESSENTIAL FUNCTIONS: This position requires that the incumbent to (1) perform difficult civil engineering work assigned, (2) work effectively and cooperatively with others, (3) take independent actions as necessary and (4) maintain regular, consistent and predictable attendance, (5) and exercise good judgment. On a day-to-day basis, work is performed independently; wide latitude for independent judgment and decision-making. In carrying out these duties, the employee is required to work closely with other Department personnel including engineers, environmental scientists, right-of-way agents, staff from State and Federal regulatory agencies, technical consultants, as well as the general public. The specific essential duties are, but are not limited to, the following: Conduct physical structure inspections and surveys of all civil features within the Oroville Field Division. Perform analysis and data dissemination for the required quarterly reports on instrumentation and surveillance of dams. Responsible for ensuring provisions for consistent data formats and exchange, compilation and analyses of surveillance data, evaluation of the structural integrity of civil features within the Field Division, such as Oroville Dam, Fish Barrier Dam, Thermalito Diversion Dam, Thermalito Afterbay Dam and Thermalito Forebay Dam. Perform field reconnaissance and inspections of the effects of earthquakes, environmental issues, or other problems relating to the performance of civil structures; recommend alternatives for emergency repair and assist in on-site restoration of service. Provide support to Division of Safety of Dams (DSOD), Civil Engineering Services (CES), and FERC including annual/biannual inspections by these groups. Coordinate miscellaneous projects/inspections with Sacramento HQ. Apply knowledge of principles of engineering in regards to construction materials, methods, and equipment to assist with creation and tracking of project charters related to civil features in OFD. Ensure OFD compliance with FERC standards in order to facilitate relicensing efforts.			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Mark Rabo		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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Engineer, Water Resources		2220-3137-002		50001850	1
APPOINTEE		SAP PERSONNEL NO.	DIVISION/SECTION		
Vacant			O&M/Oroville Field Div./Engineering Branch		
Percent of Time	Activity				
25%	Maintain supporting technical, structural, and hydraulic information documents based on Potential Failure Mode Analysis (PFMA) studies. Provide support for PFMA studies, the resulting monitoring and maintenance plans and act as the OFD point of contact. Oversee and coordinate Surveillance and Monitoring Plan based on PFMA evaluation. Gather and interpret field readings of structural instrumentation, including but not limited to seismic equipment, cathodic protection systems, piezometers, stress meters, strain meters, extensometers, horizontal and vertical movement devices. Responsible for maintaining computer database of instrumentation readings.				
15%	Prepare plans, specifications, and estimates for Field Division contracts related to minor facility renovations, compliance activities, and modifications to civil features requiring engineering expertise. Oversee and conduct construction inspections to assure contractor compliance with Department specifications, and prepare reports for management. Prepare Facilities Modification Change Transmittals for any modifications to civil structure features within OFD; these include, drawings, designs, modification to be made, safety aspects, estimated project length and cost; while working closely with other Department personnel including other engineers, environmental scientists, right-of-way agents, staff from State and Federal regulatory agencies.				
10%	Assist with the implementation, documentation, and reporting of OFD civil Condition Assessment Program (CAP). Assist OFD Engineering Branch in making recommendations to improve the field divisions' civil maintenance plan as a result of CAP findings through reports, meetings, and presentations.				
10%	Monitor activities within Department-owned right-of-way; issue temporary entry permits within allowable parameters on DWR lands, and assure compliance with specified terms and conditions. Prepare maps, charts, and real property descriptions using right-of-way data to facilitate the review of Underground Service Alerts, Encroachment Permit Applications, and other projects. Provide presentations relating to surveillance activities. Provide earthquake response training to new security staff and oversee the coordination of the OFD Earthquake Response Team.				
10%	Design, revise, update, and review new and as-built civil drawings, including: new construction, restoration, repairs, minor improvements, and special projects using CADD and AutoCAD engineering software. Coordinates and inputs drawings into the Operation & Maintenance Drawing System (OMDS). Maintain civil drawings and engineering library databases including historical documentation, specialized program projects, and other facility modifications.				

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<i>Percent of Time</i>	<i>Activity</i>			
	SPECIAL REQUIREMENTS: Employee is required to successfully complete all safety training related to the functions of the job. 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. This position is not eligible for telework. Strength and ability to move up to 50 pounds. Must have stamina and ability to bend, stoop, and kneel; climb stairs and uneven (sometimes steep) slopes while carrying equipment; and possess manual dexterity required to operate instruments and record data. Must be able to spend extended periods of time in damp, confined spaces of the core block collecting surveillance data. Must be available for call-outs outside normal business hours and on weekends. Must be able and willing to work alone and in adverse weather conditions; e.g. extreme heat or cold. Must be able to respond to emergency situations with rapid and appropriate response. Must work well with others and follow safety precautions inherent in the job. A high degree of public contact is required, necessitating tact and courtesy when dealing with landowners, lessees, and general public who may feel adversely affected by the Department's activities. Must possess a valid California Driver's License, as travel throughout the Field Division is required.			