

## Electrical Power Distribution and Phosphorus Removal Improvements, KWRP

<b>Project Number</b>	23-379-3E
<b>Service Area</b>	North
<b>Location</b>	Kirie WRP
<b>Engineering Consultant</b>	TYLin
<b>Engineering Contractor</b>	To be determined
<b>Estimated Construction Cost</b>	\$23,483,316
<b>Contract Award Date</b>	December 2025
<b>Substantial Completion Date</b>	March 2029



<b>Project Description</b>	This project will replace medium voltage switchgear M11, eight motor control centers, metering for substations, ground fault detectors, and arc flash mitigation at the Majewski Reservoir. In addition to the power distribution improvements, this project will convert all six aeration tanks in Battery A to an enhanced biological phosphorus removal system by installing baffle walls, large-bubble mixers, and actuated air valves, as well as modifying the KWRP DCS system for automated control and monitoring.
<b>Project Justification</b>	The electrical equipment is over 30 years old and is in poor condition. In order to avoid failure and ensure the appropriate level of service, the equipment must be replaced. Switchgear M11 will have the ability to transfer buses. Currently, bus transfer can only be done at the Commonwealth Edison-owned transfer switch, which requires costly upkeep. The additional scope of phosphorus removal was removed from Contract 19-375-3P and added to this Contract.
<b>Project Status</b>	Design