



ACWA JPIA 2025-26 Risk Control Grant Program Recipients

Members agree to update the ACWA JPIA to review project progress and results, and to share lessons learned and observations on implementation and outcomes. Upon completion of the project, members will provide a report to the Risk Management Committee and Executive Committee, summarizing the project goals and results achieved.

Apple Valley Heights County Water District – District Site Camera/Physical Security Monitoring

Apple Valley Heights County Water District is addressing theft at remote locations by installing SCADA-compatible security cameras that trigger real-time alerts when individuals approach. This project aligns with the JPIA's *Commitment to Excellence (C2E) Program* by helping safeguard vital remote locations from theft and vandalism. The District's plan to install these cameras is an **engineering control** that directly supports the JPIA's *C2E Infrastructure Program's Theft/Vandalism* best management practices.

Clearlake Oaks County Water District – Wastewater Treatment Plant Safety Lighting

Clearlake Oaks County Water District is installing additional safety lighting at its wastewater treatment plant. The current lighting is insufficient and poses ongoing safety risks for operators. Upgrading the lighting will improve visibility and reduce the risk of slips, trips, falls, equipment collisions, and personnel security incidents. This is an effective **engineering control** that directly supports JPIA's *Commitment to Excellence (C2E) Infrastructure, Ergonomics, and Wildfire Prevention Programs* and aligns with best management practices for security, work environment, and emergency response.

Forestville Water District – Ground Penetrating Radar and Leak Detection Equipment

Forestville Water District has a vast majority of asbestos-cement water distribution system pipes that were not installed with tracer wire. By purchasing ground-penetrating radar, the District can accurately understand, document, and manage its underground assets. The District performs most of its work within public right-of-way areas, and staff are subject to traffic hazards. By purchasing new equipment, the District can obtain more accurate readings and save considerable time when using the locator. This is an excellent **engineering control** that will allow staff to improve the efficiency and quality of their inspection process. This directly supports JPIA's *C2E Construction and Infrastructure* best management practices.



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Humboldt Community Services District – Confined Space Risk Reduction and Equipment Upgrade

Humboldt Community Services District performs routine maintenance in permit-required confined spaces. Confined spaces have the potential to contain significant hazards such as toxic atmospheres, falls, engulfment, and limited self-rescue capability. Existing entry and retrieval equipment is worn or outdated. The District is acquiring new rescue tools, including tripods, winches, self-retracting lifelines, and multi-gas monitors. This combination of **substitution controls** and **personal protective equipment** aligns with JPIA's *C2E Construction* best management practices.

La Puente Valley County Water District – Drone Reservoir Inspection Program

La Puente Valley County Water District currently has five tall reservoir roofs that are being moved from annual to monthly inspections. This increase in inspections has significantly increased the risk of employees sustaining fall-related injuries from frequent climbing. As a result, the District is purchasing a drone capable of capturing high-quality images and video for inspections. This is an outstanding **elimination control** that will prevent employees from having to climb these reservoirs for routine inspections. This directly supports JPIA's *C2E Falls and Infrastructure: Unmanned Aerial Devices* best management practices.

Rainbow Municipal Water District – AI-Powered Security and Theft Prevention Initiative

In response to the increase in theft incidents and security challenges, Rainbow Municipal Water District has identified opportunities to strengthen and enhance its security systems to better protect its staff, facilities, assets, and operations. By bolstering its security system with a new AI-powered system, the District will have eight new security cameras with cloud-based analytics, motion-activated LED lighting, and integrated audible warning horns. This new theft-prevention initiative is an **engineering control** that directly supports JPIA's *C2E Infrastructure Program* and aligns with the *Theft/Vandalism* best management practices.

Rowland Water District – Granby Automatic Transfer Switch Installation

Rowland Water District's pump station currently relies on a manual transfer switch, requiring personnel to switch from utility power to generator power during an outage. These outages typically occur during emergencies and can increase the risk of employee injury in inclement weather and unsafe conditions. Switching to an automatic transfer switch eliminates the need for employees to manually switch during a power outage, ensuring the highest level of safety and preventing disruption of potable water to nearby areas. This is an excellent **elimination control** and directly supports JPIA's *C2E Infrastructure and Wildfire Prevention Programs*.

South Coast Water District – Confined Space Gas Monitors/Meters Replacement

South Coast Water District conducts permit-required confined space entries that require hazardous gas monitoring. The current equipment is dated and requires frequent service, leading to longer time between users and raising concerns about the monitors' efficiency. By replacing the current gas monitors and meters, the District will ensure that employees enter a safer atmosphere and maintain a more consistent, uninterrupted confined space entry schedule. This is a great **substitution control** for newer and more efficient equipment that directly supports JPIA's *C2E Construction* best management practices.



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Sweetwater Authority – Crew Truck Awning

Field employees and mobile crews are consistently exposed to heat and are more prone to heat-related illnesses. District employees currently have E-Z Ups that can create shade, but they are not stable and can be easily damaged. By installing awnings on crew trucks, employees will receive more consistent, stable protection from the sun. This project is an **engineering control** and directly supports JPIA's *C2E Ergonomics/Fall Prevention: Work Environment* best management practices.

Three Valleys Municipal Water District – Automated Heat and Flood Risk Control System

Three Valleys Municipal Water District currently monitors heat conditions through manual temperature checks, supervisor observations, employee self-reporting, and other methods. Within hydroelectric facilities, operators must conduct visual inspections to identify potential water-intrusion issues, but these inspections can miss early indicators or unexpected flooding. By addressing these two issues with an AVTECH Room Alert Heat Safety Monitor and a 12SR Flood Risk Control system, the District will ensure that all of the indoor rooms are within the Cal/OSHA indoor heat illness prevention requirements and obtain timely notifications of exceeding thresholds in ten worksites. The 12SR Flood Risk Control System will monitor the three hydroelectric facilities to provide continuous **engineering control** monitoring. This dual solution is a great engineering control that directly supports JPIA's *C2E Infrastructure* best management practices.

Tuolumne Utilities District – Portable Water Trailer

Within the last five years, Tuolumne Utilities District has experienced 20 significant fire events. Although the District has been fortunate to have minimal direct impact from these fires, there remains a significant threat to District staff, property, and the community's water supply. Purchasing a portable water trailer adds an immediate layer of defense during a fire event and reduces the hazards employees face during daily work activities such as hot work. The trailer will also enhance the District's vegetation management capabilities during pile burning by providing the required fire suppression. This is a great **substitution control**, as it helps District employees keep water readily available and aligns directly with JPIA's *C2E Infrastructure and Wildfire Prevention Programs*.

Vallecitos Water District – Forklift Safety Collision Sensors

Vallecitos Water District currently possesses three forklifts that are not equipped with safety collision sensors. This poses a significant risk to District employees and the surrounding environment, including the warehouse, facility grounds, and reclamation facility. The forklift's collision sensors and proximity detection system will detect nearby pedestrians, vehicles, and obstacles. The system will provide real-time visual and audible alerts to the operator, allowing them to maneuver or stop in time to prevent a collision. This is a great **engineering control** that directly supports JPIA's *C2E Vehicle Operations*.