

ACWA JPIA 2022/2023 Risk Control Grant Program Recipients



Members agree to update ACWA JPIA to review project progress and results, and share lessons learned and observations about the 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.

Montague Water Conservation District (MWCD) – Fire Suppression Water Trailer

MWCD currently uses an all-terrain vehicle (ATV) equipped with a small water tank in conjunction with backpack water sprayers for fire suppression during non-agricultural burning permitted through their county. MWCD plans to update its Smoke Management Plan and purchase a 525-gallon tow behind water trailer. This improved **engineering control** will allow MWCD to better control vegetation when burning by allowing them to move along canals faster, mitigate hot spots with better control, and reduce concerns from the public. This purchase aligns with the *C2E Infrastructure and Wildfire Prevention* best practices.

Fresno Metropolitan Flood Control District (FMFCD) – Confined Space Davit Arm

FMFCD has identified potential fall and confined space rescue challenges at both of their reservoir control towers. The District plans to install a Davit Fall Protection System at both locations to prevent fall injuries and improve rescue operations associated with their confined spaces. This new system, which is a combination of improved **administrative** and **engineering controls** is a *C2E Ergonomics and Falls* best practice.

Central Water District (CWD) – Pipe Locator Equipment

Currently, CWD uses maps, visual cues, and manual “potholing” (shoveling) to determine the location of their water lines. This method can take time, is labor intensive, and comes with ergonomic risks. Purchasing portable electronic pipe locating equipment **eliminates** the need for potholing and is a *C2E Infrastructure and Ergonomics* loss reduction focus area best practice. The new pipe locating equipment also has GPS capabilities which will help record coordinates for GIS mapping.

Helix Water District (HWD) – Absence of Voltage Testers Installation

HWD is purchasing 20 Panduit VeriSafe Absence of Voltage Testers (AVTs) for their pump station and treatment motor control centers. AVTs will **eliminate** the need for staff to open electrical panel doors to manually perform an absence of voltage test. By removing this step, staff and contractors avoid the potential of an electrical hazard such as an arc flash. Installing AVTs creates the preferred **engineering control** instead of relying on personal protective equipment (PPE). PPE can be hot and heavy and is a less effective control. This is a *C2E Equipment Failure* loss reduction focus area and injury prevention best practice.

Majestic Pines Community Services District (MPCSD) – Utility Locating Program

MPCSD had difficulty locating their transite water lines since they were installed many years ago, and tracer wire was not a common installation practice at that time. MPCSD has purchased locators to help reduce the risk of costly line strikes and reduce the amount of time staff needs to spend working around traffic. The locators also allow the District to accurately update maps and enable them to share information with other utilities when requested. This improved **engineering control** is a *C2E Construction* best practice.

ACWA JPIA 2022/2023 Risk Control Grant Program Recipients

Vista Irrigation District (VID) – Flow Control Facilities Solar Project

Installing a solar system with battery storage at two Flow Control facilities will ensure power for the District's SCADA system in the event of an outage due to damaged electrical equipment (hit power poles, storms, wildfires, etc.), Public Safety Power Shutoffs (PSPS) or rolling outages. Currently, during outages, these facilities require staff to physically operate hydraulic controls, sometimes in inclement weather, which could lead to undesired pressure flow and possible infrastructure failures. This **engineering control** is a *C2E Infrastructure Equipment Failure* best practice.

West Stanislaus Irrigation District (WSID) – Canal Lateral Walkways

Staff cross canal laterals to perform maintenance and other operations activities. Currently, the staff uses a 4-inch by 12-inch timber walkboard with no handrails to cross laterals creating the potential for a fall. The goal is to replace the walkboards with engineered metal walkways with a railing that will be fabricated in-house and installed by District staff. There are approximately 50 lateral walkways that need replacement. This **engineering control** project is expected to take eight years to complete and is a *C2E Canal Structure Operations and Maintenance Infrastructure and Ergonomic/Falls* best practice.