

Arc Flash Analysis

Electrical safety in the workplace is vital. Preparation of an arc flash hazard analysis on energized equipment can help reduce injuries to personnel during an arc flash event.

Overview

- Pump Stations – potable water, recycled water, and sewage
- Oil Fields and Facilities
- Treatment Plants – water and wastewater
- Industrial Facilities and Plants
- Commercial Buildings
- Medical Buildings and Centers
- Data Centers
- Residential High Rises

Arc Flash

An arc flash is a dangerous event associated with the release of energy caused by an electric arc between energized electrical conductors or circuit parts, risking lives and equipment. It is difficult to establish the protective gear and/or the safe work practices necessary to perform live work on your power system without assessment by knowledgeable technical resources. Cannon's electrical engineers provide comprehensive arc flash studies using power system software. From initial field investigation to generating and applying arc flash labels to the equipment, our engineers provide you with the information necessary to establish a safe work environment. Our licensed electrical engineers follow NFPA and OSHA standards and are members of IEEE, the organization that develops the standard for arc flash analysis.

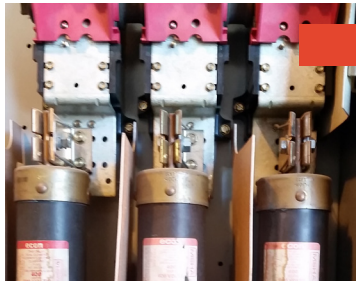
Projects



WWTP and Water Facilities Arc Flash Analysis and Coordination

Mammoth Lakes, California

Mammoth Community Water District (MCWD) serves the recreational community of Mammoth Lakes by operating an existing wastewater treatment plant and water resource facilities, including two groundwater treatment plants and a well. To effectively and safely serve the community, MCWD required arc flash hazard labels and properly set circuit breaker trip settings. MCWD selected Cannon to conduct the arc flash hazard analyses, provide labels, and perform coordination studies with recommended trip settings for the agency's switchboards, MCCs, panels, and disconnects. Cannon's scope also included providing as-built single line diagrams of the facilities and reports of the arc flash analyses and coordination studies results.



Arc Flash Analysis for City Hall and Police Station

Anaheim, California

The City of Anaheim is responsible for the safe and continuous operation of various essential facilities throughout the city. To ensure operators and personnel working in these facilities are safe and aware of the hazards associated with working on or near electrical equipment, the City retained Cannon to conduct an arc flash hazard analysis. Cannon's scope included a system short-circuit analysis, preparation of an arc flash hazard analysis and coordination study, a survey report, and to provide and install arc flash labels on the affected equipment.



City of San Luis Obispo Facilities Arc Flash

San Luis Obispo, California

The City's Public Works Department's mission is to preserve and enhance city infrastructure for an accessible, safe, and inclusive community experience. The City owns and operates multiple facilities that range in use from administration, public safety, and recreation. To ensure that these facilities' electrical systems were analyzed and labeled for the safety of the staff and the community, the City retained Cannon to conduct an arc flash hazard analysis for each facility. Cannon's scope included detailed site investigations, system short circuit analyses, preparation of an arc flash hazard analysis and coordination study for each site, a report detailing the analyses and findings, and preparing and installing arc flash labels on the affected equipment.



NORSDD Arc Flash Analysis

Bakersfield, California

Cannon was selected by North of the River Sanitary District to prepare an arc flash analysis for their wastewater treatment plant. Cannon's tasks included conducting field investigations to gather as-built data, researching existing documentation, creating electrical models in power systems software (SKM PowerTools), and preparing an arc flash analysis on the existing electrical equipment. Cannon presented the results of the analysis to the District in a report and Cannon employees prepared arc flash labels to affix to the equipment.