



# SAFETY ALERT

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## Electrical Arc Incident

### Near Fatal Near Miss

**Date of Event:** 2/2/2024

**Location:** Lometa

**Craft(s) Involved:** Electrical Subcontractor

**Description of Incident:** Two near-fatal incidents occurred during this event:

1. A client representative unknowingly encountered a live 480v power to ground hazard in the work area, narrowly avoiding stepping into the energized zone.
2. An electrician tested live conductors with a spare length of conductor instead of using the ohmmeter, resulting in a large and dangerous arc.

**Contributing Factors:**

- Inadequate onsite supervision as per TDLR requirements.
- Poor workmanship.
- Deviation from industry best practices in all aspects of work.

**Root Cause:** Parallel feeds of the new MF building and existing HSP building had crossed wires, causing the 500v breaker to be hot in both the ON and OFF positions.

**Corrective Actions:**

1. Subcontractors to perform correct isolation verification whenever a construction disconnect is made to ensure no energized equipment is outstanding.
2. Integrated Water Services (IWS) to develop and implement a Subcontractor Qualification program for all subcontractors.
3. Development of an Energized Electrical Work Permit by IWS to ensure unauthorized hot work is not performed without a well-designed plan and approval from the Regional Vice President (RVP).
4. A journeyman electrician must be present on-site whenever electrical work is performed.
5. All work to be inspected by a third-party electrical inspector, and all deficiencies must be corrected.
6. The electrical subcontractor is required to develop a Quality Assurance/Quality Control (QA/QC) program.
7. Development of a Site Specific Safety Plan (SSSP) by IWS for all projects.
8. Development of a Site Specific Safety Plan (SSSP) by all subcontractors for IWS project work sites.

**Conclusion:** Safety is paramount in all our operations. These corrective actions are vital steps toward preventing such incidents in the future and ensuring the safety of all personnel involved.