

# HAZARD ALERT

Industry: Electrical installation/Pulp and paper

Age: 62

Experience: Many years

Area: Vancouver Island

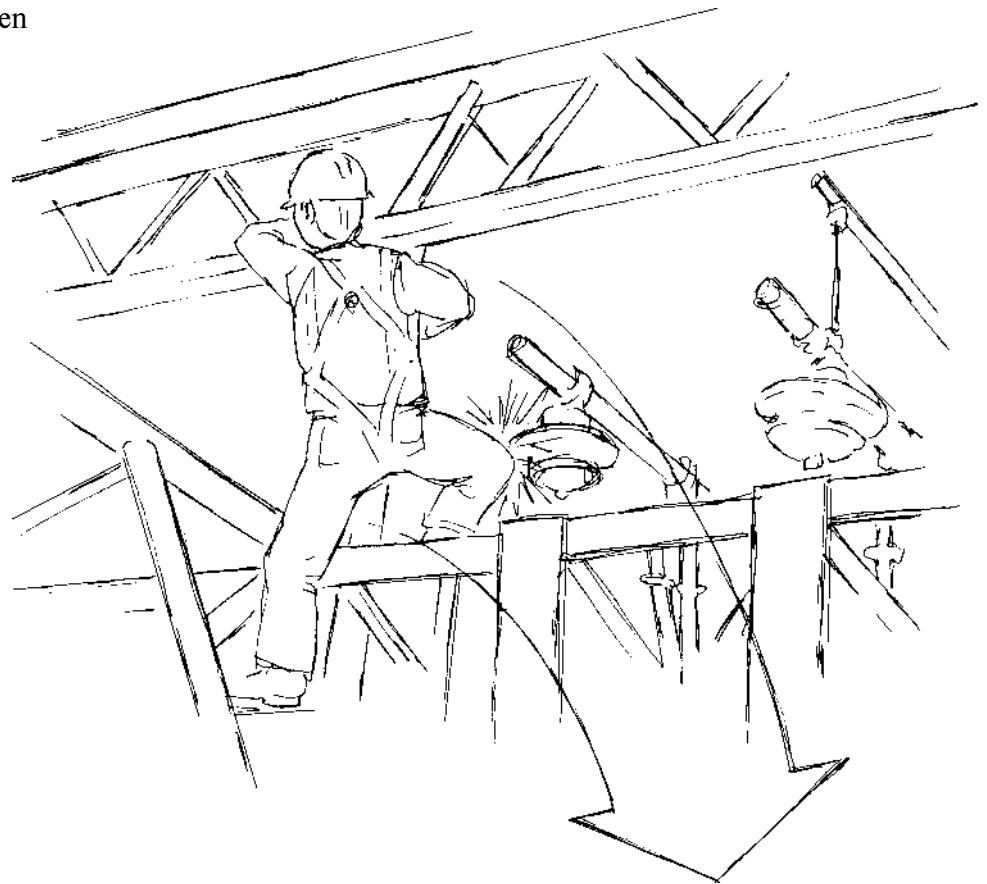
## Worker dies after contacting energized conductor

Electricians were repairing and cleaning insulators at an outdoor electrical substation. Workers first followed written group lockout procedures to de-energize and lock out the half of the substation where work was to be done. However, a nearby 13,800-volt busbar was still energized because it was not apparent that the other half of the substation supplied this conductor. An electrician contacted the energized busbar as he was climbing down a supporting column and fell 3 m (9 ft.) onto concrete. He suffered fatal internal injuries.

An investigation revealed that the written lockout procedure did not include isolation of all energy sources. There was no visual check of the physical plant to verify that all electrical equipment and sources of energy were identified in the lockout procedure.

### Safe work practices:

- Include all sources of energy in written lockout procedures.
- When lockout procedures are developed, do a physical check to ensure that every piece of equipment and all sources of energy are identified.
- Ensure electrical line diagrams are accurate and reflect the location of electrical conductors.
- Undertake physical testing to ensure grounding and isolation are effective.
- Hold a pre-job safety meeting before starting work on high-voltage equipment.



FATALITY  
02-02