

ELECTRICAL SAFETY ALERT

Don't rush. Lockout/Tagout. Control hazards.

Electricity has killed three people in the mining industry since August 7, 2019.

- An electrician contacted an energized component of a 4,160 VAC electrical circuit while adjusting the linkage between the disconnect lever and the internal components of the panel that supplied power to the plant feed belt motors.
- A contract electrician contacted an energized 120 VAC conductor while working inside a fire suppression system's electrical panel.
- An electrician contacted an exposed energized connector while troubleshooting a 995 VAC flooded bed scrubber motor circuit on-board a continuous mining machine.



Linkage adjusted with circuit energized.



Work performed inside an energized enclosure.



Open control panel exposing electrical connectors.

PREVENT ELECTRICAL ACCIDENTS

- **Lockout/Tagout** circuits before working on electrical equipment.
- **Don't rush. Never work alone.** Talk to coworkers and confirm your plan is safe.
- **Identify and control all hazardous energy sources** before conducting any task and follow safe work procedures.
 - **Open the circuit breaker or load break switch to de-energize the incoming power cables or conductors**
 - **Open the visual disconnect** to confirm incoming power is off
 - **Lockout/Tagout the visual disconnect**
 - **Ground the de-energized conductors**
- **Train miners on equipment they may use.**
- **Electricians must know how to de-energize and disconnect** electrical systems and equipment.
- **Always troubleshoot without power first.**
- If you *must* troubleshoot an energized circuit, **use properly rated personal protective equipment** to prevent hazards. For example, use electrically rated gloves, insulated blankets or mats, and polycarbonate barriers to prevent accidental contact with energized components.