From 2005-2015, 28 metal and nonmetal miners died in electrical and machinery accidents in which power was not disconnected and locked out before work started on the equipment.

In cement plants, there are primarily three types of energy, electrical, physical, including air and hydraulic, and thermal.

**Critical precautions include:**

- If a guard on a conveyor belt must be removed to clean or do maintenance work, then the miner must place a lock and personal tag on the power source to the equipment and then try to start the it to ensure all power is off.
- Miners must ensure all body parts, especially arms, do not contact moving machine parts.
- Wear PPE that protects for the type of energy that may be encountered.
- If one is not qualified to do the work, especially electrical work, then do not attempt it.