

Safety-Gram

Title 45, Chapter 11

May 2024

Volume 25, Number 5

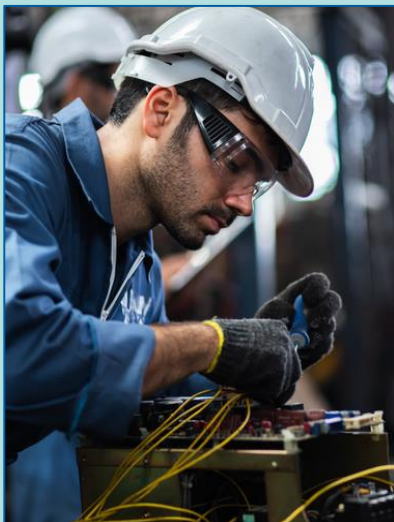
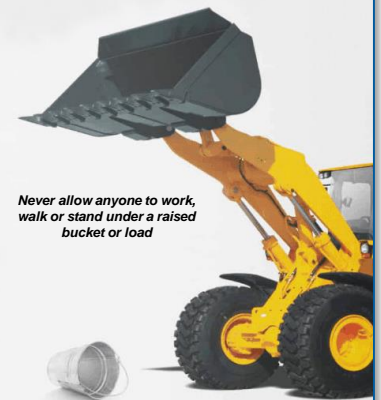
Stored Energy – Are You Aware of the Hazards?

In the mining industry, various type of stored energy are prevalent, each posing unique hazards and requiring special safety measures. Stored energy is power that has not been used or dissipated and is ready to be released. Failure to recognize and control stored energy can cause injuries or death of miners.

CAN YOU NAME THE 5 TYPES OF STORED ENERGY?

1. **POTENTIAL ENERGY** is a significant concern due to **the stored gravitational energy** in over burden and unstable rock formations, which can cause **collapses and cave-ins**.
2. **CHEMICAL ENERGY** stored in **explosives** present risks of **accidental detonation** during handling, transportation, and blasting.
3. **MECHANICAL ENERGY** is stored in **heavy machinery and equipment**, such as hydraulic fluid pressure, pneumatic pressure, conveyor belts, crushers, and drills which can pose hazards if not properly maintained and/or operated.
4. **ELECTRICAL ENERGY** stored in **batteries and electrical systems** are also present, posing risks of **shock and fire** if not handled correctly.
5. **THERMAL ENERGY** can lead to **burns and heat-related illnesses** if not managed.

DON'T KICK THE BUCKET UNDER THE BUCKET



ALWAYS FOLLOW BEST PRACTICES WHEN WORKING WITH STORED ENERGY

- **Follow** the equipment manufacturer's recommended maintenance procedures while conducting repairs to machinery/equipment.
- **Learn** to recognize potential hazardous conditions from stored energy and understand safe job procedures to eliminate all hazards before beginning work.
- **Ensure** power circuits are de-energized before beginning work on equipment/machinery, locked out/tagged out and the equipment/machinery is blocked against hazardous motion.
- **Position** yourself safely to prevent being exposed to any hazards.
- **Be aware** of stored energy when raising or lowering equipment.
- **Maintain** sight or voice communications between the person handling high pressure equipment and the person operating the controls.