CRITICAL RISKS AND CRITICAL CONTROLS



VEHICLES & DRIVING

CRITICAL CONTROLS
- Operator competency
- Fitness for work
- Maintenance and inspections
- Journey management
- In-vehicle monitoring systems (IVMS)
- Stable parking practices
- Load restraint



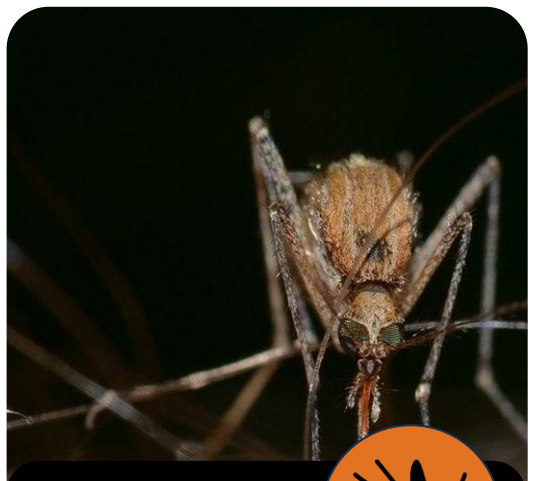
FALLING OBJECTS

CRITICAL CONTROLS
- Exclusion and drop zones
- Integrity of lifting equipment
- Security of components at height
- Stored and stacked material
- Rod handling equipment
- Ground support



UNCONTROLLED RELEASE OF ENERGY

CRITICAL CONTROLS
- Lockout, tagout, verify (LOTO)
- Maintenance inspections
- Guarding and barricades
- Exclusion zones
- Operating parameters



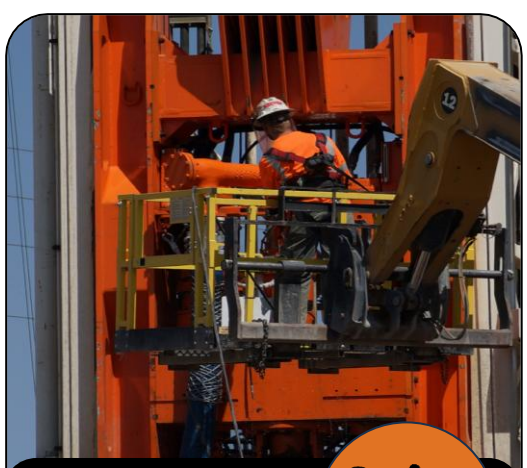
DISEASE

CRITICAL CONTROLS
- Personal hygiene
- Physical protection
- Prophylaxis medication
- Vaccinations



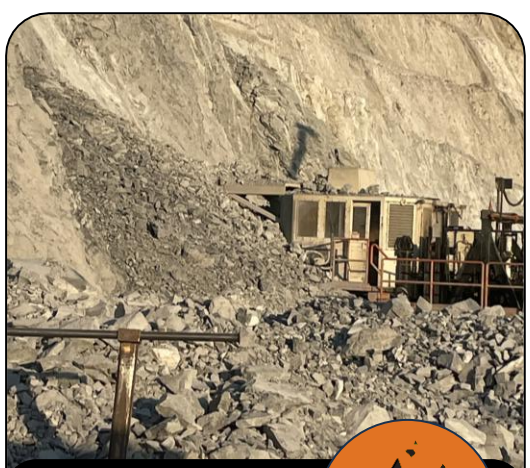
THERMAL STRESS

CRITICAL CONTROLS
- Work/rest cycles, proper hydration, temperature monitoring
- Preparation for extreme environments
- Labeling and guarding of burn hazards



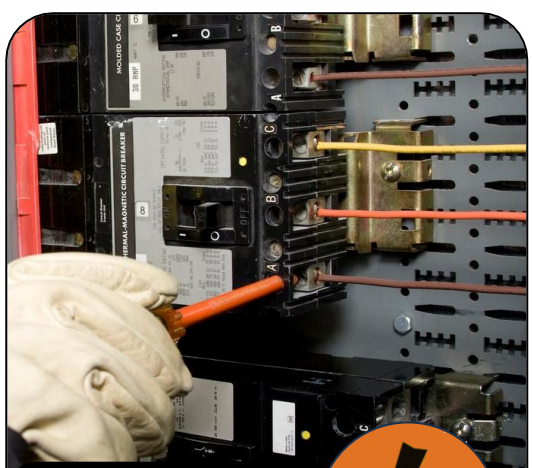
PERSONNEL FALLS

CRITICAL CONTROLS
- Working at heights equipment
- Mobile work platforms
- Fixed platforms
- Edge protection
- Personal protective equipment
- Fall restraint and fall arrest equipment



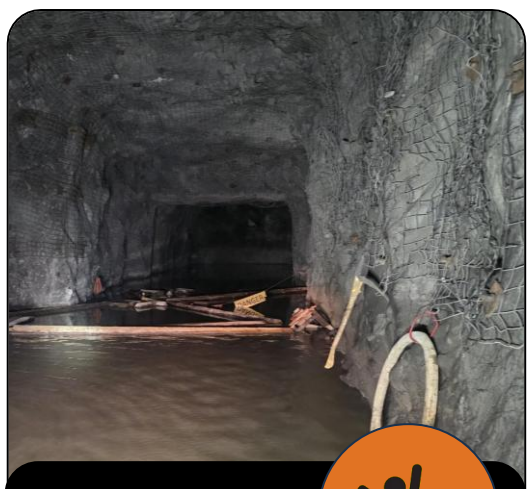
GROUND FAILURE

CRITICAL CONTROLS
- Geotechnical design and analysis
- Continuous monitoring
- Engineered support
- Exclusion zones



ELECTRICAL ENERGY

CRITICAL CONTROLS
- Lockout, tagout, verify (LOTO)
- Stored energy release
- Inspections
- Ground Fault Circuit Interrupters



DROWNING & INRUSH

CRITICAL CONTROLS
- Pumps, sumps, and other drainage measures
- Ground support and water monitoring
- Emergency response protocols
- Life vests, life buoys, signage, extraction rope



ENTANGLEMENT & CRUSHING

CRITICAL CONTROLS
- Machine guarding
- Emergency stops
- Isolation devices
- Stop Work Authority
- Exclusion zones



HAZARDOUS SUBSTANCES

CRITICAL CONTROLS
- Personal protective equipment (gloves, eye protection, respirators)
- Ventilation systems
- Dust suppression
- Gas detection monitors
- Safety Data Sheets (SDS)



FIRE

CRITICAL CONTROLS
- Fire extinguishers
- Fire suppression systems
- Smoke alarms
- Personal protective equipment