



## High Energy Hazards

### EHS-North America Business Program – Action Based Safety

#### Appendix A

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High energy hazards are those that are most likely to cause a serious injury or fatality if an uncontrolled release of energy results in contact between a person and that hazard. The most common high energy hazards include:

1. Suspended / overhead loads
2. Mobile equipment with workers on foot
3. Heavy equipment that rotates
4. Electrical contact ( $\geq 50$  volts)
5. High doses of toxic chemicals
6. Falls from elevations ( $\geq 4$  feet)
7. Motor vehicle incidents ( $> 30$  mph)
8. High temperatures ( $\geq 150^\circ\text{F}$ )
9. Fires with sustained fuel sources
10. Excavation / trench pressure ( $\geq 5$  feet)
11. Steam
12. Explosions

#### Remember:

- ✓ All injuries result from contact between a human and an energy source.
- ✓ The amount of energy contained in the energy release that results in that contact determines the severity of the injury.
  - The higher the amount of energy, the more severe the injury.
  - All of the items listed above are examples of common sources of high energy.
- ✓ Being in the path of an energy release is “line of fire” – every injury results from a person being in the line of fire.
  - Is the energy source identified?
  - Is the energy managed?
- ✓ **The most critical part of identifying a high energy hazard is having one or more controls in place to effectively prevent an energy release from coming into contact with a person.**



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Observers will look for high energy hazards as part of the ABS observation process under the categories below. This will support co-worker safety by helping to identify and control potentially serious outcomes from any high energy hazards observed.

- ⚠ Suspended Load / Overhead
- ⚠ Working at Elevation
- ⚠ Mobile Equipment / Traffic
- ⚠ Unstable Ground / Excavation
- ⚠ Mechanical / Machine Motion
- ⚠ Electricity
- ⚠ Pressure / Tension (Stored)
- ⚠ Toxic Chemical / Gas