When Is A Hazard Not A Risk?

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Background

★ Hazard: Source of Potential Harm

★ Risk Source:
  ★ Can be a Hazard
  ★ Can be Energy

★ Risk:
  ★ The degree of uncertainty on objectives!!!
  ★ Probability X Consequence – Control Reliability
Energy

★ A property of objects which can be transferred to other objects or converted into different forms, but cannot be created or destroyed.

★ “Ability of a system to do work”

★ “Ability to Cause Harm”

★ Common Forms
  ★ Kinetic
  ★ Potential
  ★ Thermal
  ★ Electrical
  ★ Elastic
  ★ Gravitational
  ★ Magnetic
  ★ Radiant
  ★ Sound
  ★ Nuclear
  ★ Mechanical
When is energy hazardous?

- When is the following energy hazardous?
- Based on the Magnitude …
  - Corrosive
  - Mechanical
  - Overexertion
  - Electrical
- … and the Duration
  - Radiation
Importance of the Scenario

- Falling from what height causes harm?
- When is a Slip and Trip likely to be severe?
- At what level will electricity cause harm?
Risk Assessment – Lessons Learned

- Identification is the first step
- More than just Hazard Identification

**Step 1  Identification**

| Activity (task or equipment) | Hazard | Energy (Risk Source) | Trigger Events (Scenarios) | Consequence (Harm / Severity) |
Thank you

Questions?

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