

Hazards Checklist (Page 1 of 4)

System/Operation _____

Evaluator _____

Date _____

Electrical

- Shock
- Burns
- Overheating
- Ignition of Combustibles
- Inadvertent Activation
- Power Outage
- Distribution Feedback
- Unsafe Failure to Operate
- Explosion/Electrical (Electrostatic)
- Explosion/Electrical (Arc)

Mechanical

- Sharp Edges/Points
- Rotating Equipment
- Reciprocating Equipment
- Pinch Points
- Lifting Weights
- Stability/Topping Potential
- Ejected Parts/Fragments
- Crushing Surfaces

Pneumatic/Hydraulic Pressure

- Overpressurization
- Pipe/Vessel/Duct Rupture
- Implosion
- Mislocated Relief Device
- Dynamic Pressure Loading
- Relief Pressure Improperly Set
- Backflow
- Crossflow
- Hydraulic Ram
- Inadvertent Release
- Miscalibrated Relief Device
- Blown Objects
- Pipe/Hose Whip
- Blast

Acceleration/Deceleration/Gravity

- Inadvertent Motion
- Loose Object Translation
- Impacts
- Falling Objects
- Fragments/Missiles
- Sloshing Liquids
- Slip/Trip
- Falls

Temperature Extremes

- Heat Source/Sink
- Hot/Cold Surface Burns
- Pressure Evaluation
- Confined Gas/Liquid
- Elevated Flammability
- Elevated Volatility
- Elevated Reactivity
- Freezing
- Humidity/Moisture
- Reduce Reliability
- Altered Structural Properties(e.g., Embrittlement)

Radiation (Ionizing)

- Alpha
- Beta
- Neutron
- Gamma
- X-Ray

Radiation (Nonionizing)

- Laser
- Infrared
- Microwave
- Ultraviolet

1. Neither this nor any other hazards checklist should be considered complete. This list should be enlarged as experience dictates. This list contains intentional redundant entries.

2. This checklist was adapted from "Preliminary Hazard Analysis (Lecture Presentation)," R.R. Mohr, Sverdup Technology, Inc., June 1993 (Fourth Edition).