Electrical	Y	N
Shock		
Burns		
Overheating		
Ignition of combustibles		
Power Outage		
Distribution backfeed		
Unsafe Failure to operate		
Explosion/electrical (electrostatic)		
Explosion/electrical (arc):		
Other_____		
Pneumatic/Hydraulic Pressure		
Over pressurization		
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		
Other_____		
Acceleration/Deceleration/Gravity		
Loose object translation		
Impacts		
Falling objects		
Inadvertent motion		
Fragments/missiles		
Sloshing liquids		
Slip/trip		
Falls		
Other_____		
Explosives-Initiators		
Heat		
Friction		
Impact/shock		
Vibration		
Electrostatic discharge		
Chemical contamination		
Lighting		
Welding (stray current/sparks)		

Mechanical	Y	N
Sharp edges/points		
Rotation Equipment		
Reciprocating equipment		
Pinch Points		
Lifting weights		
Stability/toppling potential		
Ejected parts/fragments		
Crushing surfaces		
Other_____		
Temperature Extremes		
Heat source/heat sink		
Hot/cold surface burns		
Pressure elevation		
Confined gas/liquid		
Elevated flammability/volatility		
Elevated reactivity		
Freezing humidity/moisture		
Reduced reliability		
Altered structural properties (embitterment)		
Other_____		
Fire/Flammability		
Fuel		
Ignition source		
Oxidizer		
Propellant		
Sensitizers		
Heat/cold		
Vibration		
Impact/shock		
Low humidity		
Chemical contamination		
Other_____		
Explosives-Effects		
Mass fire		
Blast overpressure		
Thrown fragments		
Seismic ground wave		
Meteorological reinforcement		
Other_____		

Radiation- Ionizing	Y	N
Alpha		
Beta		
Neutron		
Gamma		
X-Ray		
Radiation Non Ionizing		
Laser		
Infrared		
Microwave		
Ultraviolet		
Leaks/Spill/Material Conditions		
Liquids/cryogens		
Gases/vapors		
Dust-irritating		
Radiation sources		
Flammable		
Toxic		
Reactive		
Slippery		
Odorous		
Pathogenic		
Asphyxiating		
Flooding		
Run off		
Vapor propagation		
Corrosive		
Other_____		
Leaks/Spills/Chemical/Contamination		
System cross-connection		
Vessel/pipe/conduit rupture		
Backflow/siphon effect		
Other_____		
Ergonomic		
Fatigue		
Inaccessibility		
Inadequate "kill" switches		
Glare		
Inadequate control/readout differentiation		
Inappropriate control / readout labeling		
Faulty workstation design		
Inadequate illumination of control/readout		
Inappropriate location of control/readout		
Other_____		

Conditions	Y	N
Explosive propellant present		
Explosive gas present		
Explosive liquid present		
Explosive vapor present		
Explosive dust present		
Physiological		
Temperature extremes		
Nuisance dusts/odors		
Baropressure extremes		
Fatigue		
Lifted weights		
Noise		
Vibration		
Mutagens		
Asphyxiants		
Allergens		
Pathogens		
Radiation		
Cryogens		
Carcinogens		
Teratogens		
Toxins		
Irritants		
Other_____		
Human Factors		
Operator Error		
Inadvertent operation		
Failure to operate		
Operation early/late		
Operation out-of-sequence		
Right operation/wrong control		
Operate too long		
Operate too briefly		
Egress Routes		
Other_____		
Control Systems		
Power outage		
Interference (EMI/ESI)		
Moisture		
Sneak Circuit		
Sneak software		
Lightning strike		
Grounding failure		
Inadvertent activation		
Other_____		

Un-Annunciated Utility Outages	Y	N
Electricity		
Steam		
Heating/cooling		
Ventilation		
Air conditioning		
Compressed air/gas		
Lubrication		
Drains/sumps		
Fuel		
Exhaust		
Other_____		
Contingencies		
Hard shutdown/failures		
Freezing		
Fire		
Windstorm		
Hailstorm		
Utility outages		
Flooding		
Earthquake		
Snow/icy load		
Other_____		
Common Causes		
Utility outages		
Moisture/humidity		
Temp extremes		
Seismic disturbance		
Vibration		
Flooding		
Dust/dirt		
Faulty calibration		
Fire		
Single operator coupling		
Location		
Radiation		
Wear-out		
Maintenance error		
Vermin/varmints/critters		
Other_____		

Mission Planning	Y	N
Transport		
Delivery		
Installation		
Calibration		
Checkout		
Shake down		
Activation		
Standard start		
Emergency start		
Normal operation		
Load change		
Coupling/uncoupling		
Stressed operation		
Standard shutdown		
Emergency shutdown		
Trouble Shooting		
Maintenance		
Other_____		
System Unique Items		