ompie	ted by:	Date		
valuate	the equipment for all existing and pote	ential hazardous energy sources a	nd indicated present by checking the	e left hand column. For each, describe the energy
	magnitude, danger zone (the part(s) o	of the equipment where the energy	r is found), and the isolation point(s)/r	method of control.
heck If Present	Types of Energy	Type / Magnitude	Danger Zone	Isolation Point(s) and Control Method
resent	Electrical - low voltage (<50 V) - list amperage	Type / Magmade	Dunger Lone	
	Electrical- low voltage (50-600 V) - list amperage			
	Electrical - high voltage (>600 V) - list amperage			
	Chemical - flammable, pressure, extreme heat, fire, corrosive, reactive, oxidizer, toxic, etc. Required: Consult an ES&H subject matter expert.			
	Pressure - hydraulic, pneumatic > 150 psi in rigid pipe > 50 psi in flexible, unsecured lines			
	Vacuum			
	Mechanical - capable of crushing, pinching, cutting, snagging, striking			
	Thermal- high temperature-surface temperature, ,hot liquids, steam Liquids or gases > 125°F (52°C) Surfaces ≥ 140° F (60°C)			
	Thermal, cryogenic - super cold surface or cryogenic liquid < 27°F (-3°C)			
	Radiation, ionizing			
	Radiation, non-ionizing – ultra- violet, infra-red, RF/Microwave, laser, magnetic			
	Stored energy - flywheel, springs, differences in elevation, capacitors, batteries, etc.			
	Emergency power- does the equipment maintain an emergency power /uninterruptible power supply? Other- describe			

Hazardous Energy Thresholds

Energy Form	Evaluate Hazard and Consider Lockout/Tagout	Lockout/Tagout Required_(see note 1)	
Electrical (AC or DC)	$< 50V$ and $< 5mA$, and $\le 10J$	≥ 50V, or > 5 mA or > 10J	
Thermal (hot)	Liquids or gases ≤ 125°F (52°C) Surfaces ≤ 140° F (60°C)	Liquids or gases > 125°F Surfaces ≥ 140° F	
Thermal (cold)	Liquids and surfaces ≥ 27°F (-3°C)	Liquids and surfaces < 27°F	
Mechanical - kinetic	No threshold; each situation must be evaluated	•	
Mechanical - potential	No threshold; each situation must be evaluated		
Pneumatic	 ≤ 150 psi in rigid pipe ≤ 50 psi in flexible, unsecured lines 	 > 150 psi in rigid pipe (see note 2) > 50 psi in flexible, unsecured lines 	
Hydraulic	 ≤ 150 psi in rigid pipe ≤ 50 psi in flexible, unsecured lines 	 > 150 psi in rigid pipe (see note 2) > 50 psi in flexible, unsecured lines 	
Chemical	No threshold; each situation must be evaluated based on the chemical's hazardous properties		
1 Unless de-energizing the source	e by lockout/tagout introduces additional or increased hazards or is infe	asible due to equipment design or operational limitations.	