



ENERGIZED ELECTRICAL WORK PERMIT

Return completed and approved form to EH&S for recordkeeping

SECTION I			Work Order # _____
Extended Duration: <input type="checkbox"/>	One time use only: <input type="checkbox"/>	Date Start: _____	Expiration Date: _____
Building: _____	Room/Area: _____	Job Supervisor: _____	
Description of work to be done:			
Description of circuit/equipment to be worked on:			
Justification for why equipment cannot be de-energized:			

SECTION II			
Results of Shock Risk Assessment			
Shock Hazard Maximum Voltage _____ <i>(for ANY exposed conductor/part in the work area)</i>		Glove Voltage Rating _____ <i>(Inspect and air test gloves before use and check certification date)</i>	
Shock Hazard Approach Boundaries for <u>Alternating-Current (AC) Systems</u> (See Table 5 in the Electrical Work Safety Program for DC info)			
Nominal System Voltage, Phase to Phase*	Limited Approach Boundary		Restricted Approach Boundary; Includes Inadvertent Movement Adder
	Exposed Movable Conductor **	Fixed Circuit Part	
Less than 50V	Not specified	Not specified	Not specified
50 to 150V	10 ft. 0 in	3 ft. 6 in	Avoid contact
151 to 750V	10 ft. 0 in	3 ft. 6 in	1 ft. 0 in
751 to 15kV	10 ft. 0 in	5 ft. 0 in	2 ft. 2 in
* For single phase systems above 250V, select the range that is equal to the maximum phase-to-ground voltage multiplied by 1.732.			
** Exposed movable conductors describes a condition in which the distance between the conductor and a person is not under the control of the person. The term is normally applied to overhead line conductors supported by poles.			
Limited Approach Boundary _____ ft.		Restricted Approach Boundary _____ ft.	

SECTION III	
Required PPE	
PPE Category (circle): 1 2 3 4	Flash Protection Boundary _____ ft.
<p><i>Check boxes below to confirm the required items have been obtained and will be used during the live electrical work. Non-melting undergarments are always required. PPE listed below assumes that entire body will be within the arc protection boundary. If this is not the case, arc-rated PPE must cover the parts of the body within the arc protection boundary. Safety glasses and hearing protectors are always required when conducting live electrical work.</i></p> <p style="text-align: center;">Required for PPE Category 1 (minimum arc rating for PPE: <u>4</u> cal/cm²)</p> <p style="text-align: center;"> <input type="checkbox"/> Hard hat <input type="checkbox"/> Safety glasses <input type="checkbox"/> Hearing protection <input type="checkbox"/> Heavy-duty leather gloves <input type="checkbox"/> Rated footwear [AND] <input type="checkbox"/> Arc-rated shirt (long sleeve) and pants [OR] <input type="checkbox"/> Arc-rated coverall [AND] <input type="checkbox"/> Arc-rated face shield [OR] <input type="checkbox"/> Arc flash suit hood </p>	

Required for **PPE Category 2** (minimum arc rating for PPE: 8 cal/cm²)

- Hard hat Safety glasses Hearing protection Heavy-duty leather gloves Rated footwear
[AND]
 Arc-rated shirt (long sleeve) and pants [OR] Arc-rated coverall
[AND]
 Arc-rated face shield and arc-rated balaclava [OR] Arc-rated flash suit hood

Required for **PPE Category 3** (minimum arc rating for PPE: 25 cal/cm²)

- Hard hat Safety glasses/goggles Hearing protection Arc-rated gloves Rated footwear
[AND]
 Arc-rated shirt (long sleeve) and pants [OR] Arc-rated coverall [OR] Arc-rated flash suit (jacket/pants/hood)

Required for **PPE Category 4** (minimum arc rating for PPE: 40 cal/cm²)

STOP! THINK! RE-EVALUATE FEASIBILITY OF LOCKOUT.

- Hard hat Safety glasses/goggles Hearing protection Arc-rated gloves Rated footwear
[AND]
 Arc-rated shirt (long sleeve) and pants [OR] Arc-rated coverall [OR] Arc-rated flash suit (jacket/pants/hood)

LIVE ELECTRICAL WORK MAY NOT PROCEED IF THE INCIDENT ENERGY IS >40 cal/cm² OR PPE CATEGORY IS >4!

SECTION IV

Mandatory Requirements for All Permits (check off when completed)

- Necessary insulated/voltage-rated tools, covers, shields, and testing equipment is available.
 Attendant worker must be able to cut off all power sources in the event of an emergency and have emergency communication equipment (i.e., radio, cell phone). Attendant worker is not permitted to assist in electrical work.
 All workers, including Attendant, must be appropriately trained, qualified, and have full knowledge of equipment.
 Set up barriers (caution tape/barricades) at the limited approach or arc flash boundary (whichever is farther out).
 Remove all metal apparel that may cross restricted approach boundary or otherwise present an electrical contact hazard (rings, watches, necklaces, metal frame glasses).
 Job briefing including discussion of any job specific hazards (describe hazards below):

Additional Safety Requirements (check off when completed, if required for this work task)

- Non-conductive head wear (i.e., Class E hard hat), required if there is a potential for head contact at any voltage.
 Check here if any additional information is added to this work permit such as special requirements, procedures, or written work plans (examples include lockout procedures for adjacent equipment and confined space entry permits).

SECTION V

Approvals to Perform the Work while Electrically Energized

This permit is not approved unless signed by the employees conducting the work and their supervisor. Signature of workers verifies that they are a properly trained Qualified Person who is informed of all relevant hazards

_____ Supervisor	_____ Attendant
_____ Worker	_____ Worker
_____ Worker	_____ Worker
_____ Worker	_____ Worker