Energized Electrical Work Permit

(For work under 750 volts)

To be completed by the electrically qualified persons doing the work					
Building:	Room/Area:		Work Order # (if applicable)		
Description of work to be done:					
Description of Circuit/Equipment					
Justification for why equipment	cannot be de-ener	gized:			
Results of Shock Hazard Analysis Category (NFPA 70E-2015 Table 130.7(C)(15)(A)(a) & 130.7(c)(15)(A)(b)		Results of Arc Flash Hazard Analysis (From Label on electrical panel)			
Maximum Voltage: (ft) Arc Flash Boundary (ft) Limited Approach Boundary: (ft.) Restricted Approach Boundary: (ft.)		Flash Hazard at 18 inches (cal/cm2) Flash Protection Boundary:(ft.) Limited Approach Boundary:(ft.) Restricted Approach Boundary:(ft.)			
PPE: Rated Gloves: Safety Glasses: Rated Face Shield: Hard Hat: Hearing Prot: Footwear: Leather: EH Rated: Dielectric (wet environment): Non Conductive Mat:					
Safety Checklist & Job Briefing		,		ive mat	
 □ Workers must be trained, qualified, and have full knowledge of equipment. □ Insulated tools and equipment required. □ Remove all jewelry and metal apparel □ Accessed restricted to unqualified persons from the work area. (Highest Approach Boundary + 3 feet) □ Documented job briefing including discussion of job-specific hazards with electrically qualified person □ Additional information, special requirements, procedures, or written work plans reviewed 					
Electrically Qualified Persons performing the work understand and agree to the above:					
Printed or typed name(s):	Signatu	ıre(s)		Date(s)	
APPROVALS TO PERFORM THE WORK WHILE ELECTRICALLY ENERGIZED (2 signatures required)					
Printed or typed name(s):	Signatu	ıre(s)		Date(s)	
FO&M Supervisor:					
FO&M Electrical Shop Supervisor	:				
FO&M Shop Service Manager					
FO&M Science Facility Manager					
FO&M Associate Vice President					

SHOCK HAZARD

(Limit Approach & Restricted Approach Boundaries)

Voltage Range	Limited Approach		Restricted Approach
	Movable	Fixed	
< 50 Volts	NS	NS	NS
50 V – 150 V	10 feet	3 ft 6 in	Avoid Contact
151 V – 750 V	10 Feet	3 ft 6 in	1 foot
Over 750 V	Consult NFPA 70E-2015 Table 130.4(D)(a)		

PPE Category & Arc Flash Boundary

Equipment	PPE Cat.	Arc Flash Bound.
Panel boards or other equipment rated 240 V or less	1	19 in
Panel boards or other equipment between 240 V and 600 V	2	3 feet
600 V Class (277 V – 600 V Nominal)	2	5 feet
600 V class motor control centers	2	5 feet

PPE Requirements

CATEGORY 1	CATEGORY 2	
Arc Rated Clothing 4 cal/cm2	Arc Rated Clothing 8 cal/cm2	
Arc rated face shield or arc flash hood	Arc rated face shield or arc flash hood and arc rated	
Non conductive safety glasses	balaclava	
Hearing protections inserts	Non conductive safety glasses	
Rubber insulating gloved w/leather	Hearing protections inserts	
Leather, non conductive (EH) rated footwear	Rubber insulating gloved w/leather	
	Leather, non conductive (EH) rated footwear	
Type II Class E hard Hat w/face shield, Arc Rated outer wear to be used as needed		

Definitions

Definitions		
Arc Flash Boundary:	When an arc flash hazard exists, the arc flash boundary is the approach	
	distance that a person could reason a second-degree burn to unprotected skin.	
	(1.2 cal/cm2)	
Limited Approach	An approach distance from an exposed energized electrical conductor or	
Boundary	circuit where a shock hazard exists.	
Restricted Approach	An approach distance from an exposed energized electrical conductor or	
Boundary	circuit where there is an increased likelihood of electric shock due to	
	electrical arc over combined with inadvertent movement.	

Sample Arc Flash Analysis Label

