



**Duke University - Facilities Management Department  
Environmental Safety and Health Program**

**ATTACHMENT B - ENERGIZED ELECTRICAL WORK PERMIT**

**Area:** All FMD Organizations

**Date Effective:** 7/1/2014

**SECTION I – Justification**

Per NFPA 70E, energized electrical work shall be permitted where the employer can demonstrate that de-energizing introduces additional or increased hazards or where the employer can demonstrate that the task to be performed is infeasible in a de-energized state due to equipment design or operational limitations. Provide justification as to why the specified equipment/circuit cannot be de-energized or work deferred until the next scheduled outage.

Customer : \_\_\_\_\_ Date: \_\_\_\_\_

**SECTION II – Background / Information**

Work Order #: \_\_\_\_\_ Start Date: \_\_\_\_\_ End Date: \_\_\_\_\_

Equipment / Circuit Description & Location: \_\_\_\_\_

Primary Source Description & Location: \_\_\_\_\_

Alternate Source Description & Location (If Applicable): \_\_\_\_\_

Emergency Source Description & Location (If Applicable): \_\_\_\_\_

General Description of Work: \_\_\_\_\_

Risk or Potential Failure: \_\_\_\_\_

System Affected: \_\_\_\_\_ Impact to System: \_\_\_\_\_

**SECTION III – Emergency Action**

In the event of an electrical emergency call 911 or 684-2444. Provide detailed information to the emergency operator letting them know it is an electrical emergency, the specifics of the emergency, and the location of the emergency. Note any additional requirements / information:



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**SECTION IV - Procedures**

Detailed Sequence of Operation to Perform Work (Attach Additional Procedures if Necessary):

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Risk Mitigation Plan: \_\_\_\_\_

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**SECTION V – Hazard Analysis**

Results of Arc Flash Hazard Analysis		Results of Shock Hazard Analysis	
Flash Hazard Boundary:	(inches)	Nominal Voltage:	(volts)
Flash Hazard at 18 inches:	(cal/cm <sup>2</sup> )	Insulated Glove Class/Rating:	
Risk Category:		Limited Approach Boundary:	(inches)
		Restricted Approach Boundary:	(inches)
		Prohibited Approach Boundary:	(inches)

For Unlabeled Equipment / Devices, refer to Attachment C - Arc-Flash Boundary / Hazard Assessment Diagrams for Unlabeled Equipment / Devices and Table 2 – Shock Hazard Approach Boundaries for Unlabeled Equipment/Devices

Means Employed to Restrict Access to Work Area: \_\_\_\_\_

Additional Hazards (Project Conditions, Environmental, Obstructions, Etc.) \_\_\_\_\_

Hazard Control Practices: \_\_\_\_\_



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**SECTION VI – Equipment Requirements**

Personal Protective Equipment (PPE)	Required	Checked	Personal Protective Equipment (PPE)	Required	Checked
Hard Hat (Type I, Class E)			Safety Glasses/Goggles		
Arc-Rated Suit Hood			Hearing Protection		
Arc-Rated Face Shield			Insulated Gloves		
Balaclava Hood			Leather Gloves		
Hair Net/Beard Net			Insulated Tools		
Arc-Rated Suit			Category III Meter		
Arc-Rated FR Clothing			AED		
Natural Fiber Clothing			Other		

Refer to Table 3 – Protective Clothing and Personal Protective Equipment

**SECTION VII – Approvals**

**Electrically Qualified Persons That Understand and Agree to the Above**

Qualified Person: \_\_\_\_\_ Date: \_\_\_\_\_

Qualified Person: \_\_\_\_\_ Date: \_\_\_\_\_

**Management Approvals to Perform the Work While Electrically Energized**

FMD Supervisor/Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

FMD Next Level Director/Designee: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor Supervisor (If Applicable): \_\_\_\_\_ Date: \_\_\_\_\_

Other: \_\_\_\_\_ Date: \_\_\_\_\_

Note to Contractors: Whatever legal requirements exist for electrical energized work, nothing in this permit process relieves the Contractor from following all the Contractor's own rules applicable to electrically energized work. The Contractor shall not rely on Duke's Electrical Safety program to meet any of the Contractor's safety or regulatory requirements.