

TESTING, TROUBLESHOOTING, AND VOLTAGE MEASURING ELECTRICAL WORK PERMIT

Department Code: **PO**

Permit #**PO-P-EEWP-13-2**

PART I: TO BE COMPLETED BY THE REQUESTER:

- (1) Description of circuit/equipment/job location: **Non- distribution electrical equipment in the Physics Department building 510 and Rooms 124 and 125 in Building 901.**
- (2) Description of work to be done:
 - a. **Testing, troubleshooting, and/or voltage testing of electrical and electronic equipment not exceeding 300 volts. The Prohibited Approach Boundary is "avoid contact". Therefore, the Physics Department requires use of this permit when work (probe, measuring device, or tool) will contact an energized conductor.**
 - b. **Manipulating energized control circuit components up to 150 volts (such as lifting of control circuit wires and tightening of control circuit terminals or connectors)**
 - c. **Removing wire nuts on branch circuits, provided the wire size is #10 AWG or smaller (e.g., #12) and voltage is no greater than 300 volts phase-to-ground, in order to measure voltage, or to trace or tone a circuit for the purpose of identifying the appropriate LOTO location (such as a specific circuit breaker or switch)**
 - d. **Verifying zero energy as part of the six-step Lockout/Tagout process to make the circuit electrically safe.**
- (3) Justification of why the circuit/equipment cannot be de-energized or the work deferred until the next scheduled outage: **Diagnostic tests may require devices to be in an operational mode and testing is performed within the Restricted Approach Boundary of 1 inch.**

Michael J Zarcone, Mgr. of PO ESH&T Programs
Requester/Title

June 1, 2013
Start Date

May 31, 2014
Expiration Date

PART II: HAZARD ANALYSIS:

- (1) Detailed job description procedure to be used in performing the above detailed work: **See Part 1, #2**
- (2) Description of the Safe Work Practices to be employed: LOTO Reason not to LOTO - **Equipment has line cords that are unplugged and remain under the control of the authorized worker.**

(3)

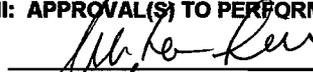
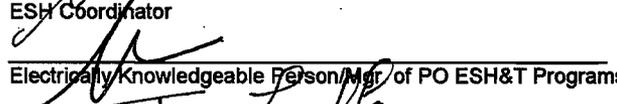
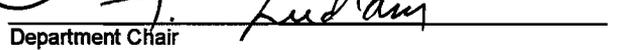
Flash Boundary	4 feet	Flash Hazard	1	Working Distance	1 inch
Shock Hazard	300 V Max.	Limited Approach Restricted Approach Prohibited Approach	3' 6" 1 inch Avoid Contact	Glove Class	'00'

(4) Protective Equipment

<input type="checkbox"/> None	<input type="checkbox"/> Earplugs	<input type="checkbox"/> Leather Gloves	<input type="checkbox"/> Leather Shoes
<input checked="" type="checkbox"/> Cotton Long Pants	<input type="checkbox"/> Face shield	<input checked="" type="checkbox"/> Voltage-rated Gloves	<input type="checkbox"/> Voltage-rated Shoes
<input checked="" type="checkbox"/> FR Shirt	<input type="checkbox"/> Flash suit	<input type="checkbox"/> Hard Hat	<input checked="" type="checkbox"/> Safety Glasses/Goggles
<input checked="" type="checkbox"/> Voltage Rated Tools	<input checked="" type="checkbox"/> Voltage-rated Meter - CAT II or III		

- (5) Means employed to restrict the access of unqualified persons from the work area: **Locked Door, tape, barricade, or second worker.**

PART III: APPROVAL(S) TO PERFORM THE WORK WHILE ELECTRICALLY ENERGIZED:

 _____ ESH Coordinator	<u>5/20/13</u> Date
 _____ Electrically Knowledgeable Person/Mgr. of PO ESH&T Programs	<u>5/20/13</u> Date
 _____ Department Chair	<u>5/20/13</u> Date

PART IV: WORK

Evidence of completion of Job Briefing including discussion of any job-related hazards: See Signature Sheet
Daily pre-work briefing
Post work feedback, if required

PART V: AUTHORIZED WORKERS: See Authorized User List



Authorizing Supervisor/Mgr. of PO ESH&T Programs

5/20/13
Date

Supervisor acknowledges the above personnel are properly trained, knowledgeable and experienced to work under the permit.
Forward a copy to group's safety department.