

California State University Northridge	Energized Electrical Work Permit		SF 9005.03
	Revision 1.0	Revision Date 08/01/2010	Effective Date 08/01/2010

1 DESCRIPTION AND JUSTIFICATION FOR ENERGIZED ELECTRICAL WORK

Hazard / Risk Category (circle category number)	-1	0	1	2	3	4
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2 EQUIPMENT INFORMATION

Name of Equipment	Description of circuit
Identification	
Location	
Power fed from	
Drawing Number	

3 FLASH HAZARD ANALYSIS

FLASH HAZARD ANALYSIS (from NFPA-70E, 130.3 (A))

Fault Clearing Device: (name): _____ (description) _____
 Mfgr's Model or type number: _____
 Clearing time, seconds: _____

Flash Protection Boundary
(Check the method used)

- 4.0 feet (systems less than 600 volts, with 0.1-sec clearing time, lbf < 50 kA, or 5000 A-sec)
 Physical boundaries of the substation or enclosure (systems greater than 600 volts)
 Other (Contact the Electrical Shop for assistance)

BARRIERS to restrict access by unqualified persons:

- Locked access Safety Watch Required
 Barrier tapes, stanchions
 Electrical Hazard signs Other (describe task): _____

4 SHOCK HAZARD ANALYSIS (VOLTAGE, BOUNDARIES, PPE)

ELECTRICAL ENERGY SOURCE HAZARDS FOR THIS PERMIT (Check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> Less than 50 volts, | <input type="checkbox"/> 277 volts | <input type="checkbox"/> Emergency power _____ |
| <input type="checkbox"/> 120-volts | <input type="checkbox"/> 480 volts | <input type="checkbox"/> Remote control _____ |
| <input type="checkbox"/> 208 volts | <input type="checkbox"/> 600 volts | <input type="checkbox"/> DC _____ |
| <input type="checkbox"/> 240 volts | <input type="checkbox"/> Other (describe): _____ | <input type="checkbox"/> Foreign _____ |

SHOCK PROTECTION - APPROACH BOUNDARIES TO LIVE PARTS


Multiply single-phase voltages by 1.73 to obtain correct voltage level to be used (NFPA 70E C.2.11)

<u>SYSTEM VOLTAGE:</u>	<u>LIMITED APPROACH*</u> <u>DISTANCE</u>	<u>RESTRICTED APPROACH</u> <u>DISTANCE</u>	<u>PROHIBITED APPROACH</u> <u>DISTANCE</u>
<input type="checkbox"/> less than 50 volts	<input type="checkbox"/> Not spec'd	<input type="checkbox"/> Not spec'd	<input type="checkbox"/> Not spec'd
<input type="checkbox"/> 50 to 300 volts	<input type="checkbox"/> 4' 0" ¹	<input type="checkbox"/> avoid contact	<input type="checkbox"/> avoid contact
<input type="checkbox"/> 301 to 750	<input type="checkbox"/> 4' 0" ¹	<input type="checkbox"/> 1' 0"	<input type="checkbox"/> 0' 1"
<input type="checkbox"/> 751 to 15kV	<input type="checkbox"/> 5' 0" ²	<input type="checkbox"/> 2' 2"	<input type="checkbox"/> 0' 7"
<input type="checkbox"/> 15.1 kV to 36 kV	<input type="checkbox"/> 6' 0" ²	<input type="checkbox"/> 2' 7"	<input type="checkbox"/> 0' 10"

* If any conductors moveable, limited approach distance is 10 feet.

1 Limited Approach is equal to the flash protection boundary

2 Limited Approach is equal to the physical limits of the equipment room. Limited Approach for open areas is the distance listed or the Flash Protection Boundary, whichever is the greatest

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5 Protective Clothing and Equipment

Circle all of the equipment that will be used for the work

Protective Systems for Hazard / Risk Category	Hazard / Risk Category Number					
	-1	0	1	2	3	4
Non-Melting or Untreated Natural Fiber						
T-shirt (short sleeve)	X			X	X	X
Shirt (long sleeve)		X				
Pants (long)	X	X	X	X	X	X
			Note 4	Note 6		
FR Clothing (see note 1)						
Long-sleeved shirt			X	X	X	X
Pants			X	X	X	X
Coverall			Note 5	Note 7	X	Note 5
Jacket, Parka, or raingear			AN	AN	AN	AN
FR Protective Equipment						
Flash suit jacket (multilayer)						X
Flash suit pants (multilayer)						X
Head Protection						
Hard Hat			X	X	X	X
FR Hard Hat liner						
					AR	AR
Eye Protection						
Safety Glasses	X	X	X	AL	AL	AL
Safety Goggles				AL	AL	AL
Face and Head Area Protection						
Arc-rated face shield, or flash suit hood				X		
Flash suit Hood					X	X
Hearing protection (ear canal inserts)				X	X	X
				Note 8		
Hand Protection Leather Gloves			AN	X	X	X
Foot Protection Leather Work Shoes			AN	X	X	X

AN = as needed, AL = Select one in group, AR = as required, X= minimum required

6 APPROVALS /AGREEMENTS TO PERFORM WORK WHILE ELECTRICALLY ENERGIZED

Engineering Services

Director

Assistant Director (Electrical)

Electric Shop

Supervisor

Lead

Electrically Qualified Person(s)

Electrically Qualified Person(s)

Electrically Qualified Person(s)

Electrically Qualified Person(s)