

NFPA 70E COMPLIANCE GUIDE

This guide shall only be used in conjunction with performing the necessary calculations contained in a flash hazard analysis to determine the proper cal/cm². If the results of the calculations exceed the cal/cm² that correspond to the HRC found on this guide, you must use clothing that complies with the calculation.

Panelboards Rated 240 V and Below - Notes 1 and 3				600 V Class Switchgear (with power circuit breakers or fused switches) - Notes 5 and 6				NEMA E2 (fused contactor) Motor Starters, 2.3 kV through 7.2 kV			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
Circuit Breaker (CB) or fused switch operation with covers on			0	CB or fused switch operation with enclosure doors closed			0	Contactor operation with enclosure doors closed			0
CB or fused switch operation with covers off			0	Reading a panel meter while operating a meter switch			0	Reading a panel meter while operating a meter switch			0
Opening hinged covers (to expose bare, energized parts)			0	Work on control circuits with energized parts 120 V or below, exposed	Y	Y	0	Work on control circuits with energized parts 120 V or below, exposed	Y	Y	0
Removal of bolted covers (to expose bare, energized parts)			1	CB or fused switch operation with enclosure doors open			1	Inspection or removal (packing) of starters from subcubes, doors closed			2
Remove or install CB's or fused switches	Y	Y	1	Inspection or removal (packing) of CB's from subcubes, doors open			2	Contactor operation with enclosure doors open			2 *
Work on energized parts, including voltage testing	Y	Y	1	Opening hinged covers (to expose bare, energized parts)			2	Inspection or removal (packing) of starters from subcubes, doors open			3
Panelboards / Switchboards Rated 240 V to 600 V (with molded case or insulated case CB's) - Notes 1 & 3				Application of safety grounds, after voltage test	Y		2 *	Opening hinged covers (to expose bare, energized parts)	Y		3
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Work on energized parts, including voltage testing	Y	Y	2 *	Application of safety grounds, after voltage test	Y	Y	3
CB or fused switch operation with covers on			0	Work on control circuits with energized parts >120 V exposed	Y	Y	2 *	Work on control circuits with energized parts >120 V exposed	Y	Y	3
CB or fused switch operation with covers off			1	Inspection or removal (packing) of CB's from subcubes, doors open			3	Work on energized parts, including voltage testing	Y	Y	3
Work on energized parts, including voltage testing	Y	Y	2 *	Removal of bolted covers (to expose bare, energized parts)			3	Removal of bolted covers (to expose bare, energized parts)			4
600 V Class Motor Control Centers (MCC's) - Notes 2 (except as indicated) and 3				Other 600 V Class (277 V to 600 V Nominal) Equipment - Lighting or small power transformers (600V Max) - Note 3				Metal Cased Switchgear, 1 kV and Above			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
CB or fused switch or starter operation with enclosure doors closed			0	Opening hinged covers (to expose bare, energized parts)			1	Reading a panel meter while operating a meter switch			0
Reading a panel meter while operating a meter switch			0	Removal of bolted covers (to expose bare, energized parts)			2 *	CB or fused switch operation with enclosure doors closed			2
Work on control circuits with energized parts 120 V or below, exposed	Y	Y	0	Application of safety grounds, after voltage test	Y		2 *	Work on control circuits with energized parts 120 V or below, exposed	Y	Y	2
CB or fused switch or starter operation with enclosure doors open			1	Work on energized parts, including voltage testing	Y	Y	2 *	Opening hinged covers (to expose bare, energized parts)			3
Opening hinged covers (to expose bare, energized parts)			1	Other 600 V Class (277 V to 600 V Nom.) Equip - Revenue meters (500V at primary voltage & current) - Note 3				CB or fused switch operation with enclosure doors open			4
Removal of bolted covers (to expose bare, energized parts)			2 *	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Inspection or removal (packing) of CB's from subcubes, doors open			4
Application of safety grounds, after voltage test	Y		2 *	Cable trough or tray cover removal or installation			1	Removal of bolted covers (to expose bare, energized parts)			4
Work on energized parts, including voltage testing	Y	Y	2 *	Miscellaneous equipment cover removal or installation			1	Opening voltage transformer or control power transformer compartments			4
Work on control circuits with energized parts >120 V exposed	Y	Y	2 *	Application of safety grounds, after voltage test	Y		2 *	Application of safety grounds, after voltage test	Y		4
Inspection or removal of individual starter "brackets" from MCC - Note 4	Y		3	Inspection or removal	Y		2 *	Work on energized parts, including voltage testing	Y	Y	4
				Work on energized parts, including voltage testing	Y	Y	2 *	Work on control circuits with energized parts >120 V exposed	Y	Y	4
Minimum Clothing Requirements											
HRC	Protective Clothing		Minimum Cal/cm ²	PPE (Safety glasses, leather safety shoes required for all)				Other Equipment 1 kV and Above - Metal cased Load Interrupter switches, fused or unfused			
0	Natural fiber short-sleeved shirt and long pants		N/A	Hand Hat				TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
1	Natural fiber long-sleeved shirt and pants		N/A	Hand Hat				Switch operation, doors closed			2
2	Denim jeans and FR long-sleeved shirt OR FR long-sleeved shirt and pants OR FR coveralls		4	Hand Hat				Outdoor disconnect switch operation (open/closed, from grade)			2
2 *	FR long-sleeved shirt and pants OR FR coveralls		8	Hand Hat, Arc/Rated Face Shield				Insulated cable exam, in open area	Y		2
3	FR long-sleeved shirt and pants OR FR coveralls		8	Hand Hat, Multi-Layer Switching Hood, Hearing Protection				Opening hinged covers (to expose bare, energized parts)			3
3	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants		25	Hand Hat, Multi-Layer Switching Hood, Hearing Protection				Outdoor disconnect switch operation (breakback operated)	Y	Y	3
4	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants		40	Hand Hat, Multi-Layer Switching Hood, Hearing Protection				Removal of bolted covers (to expose bare, energized parts)			4
	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants			Hand Hat, Multi-Layer Switching Hood, Hearing Protection				Insulated cable examination, in manhole or other confined space	Y		4
	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants			Hand Hat, Multi-Layer Switching Hood, Hearing Protection				Work on energized parts, including voltage testing	Y	Y	4
* If the notes cannot be satisfied, work must be performed de-energized.											
Note 1: Maximum of 25 kA short circuit current available, 0.03 second (2 cycle) fault clearing time. Note 2: Maximum of 65 kA short circuit current available, 0.03 second (2 cycle) fault clearing time. Note 3: For < 10 kA short circuit current available, the HRC required may be reduced by one category. Note 4: Maximum of 42 kA short circuit current available, 0.35 second (20 cycle) fault clearing time. Note 5: Maximum of 35 kA short circuit current available, < 0.5 second (30 cycle) fault clearing time. Note 6: For < 25 kA short circuit current available, the HRC required may be reduced by one category. *Circuits over 480cal/cm ² should only be worked de-energized.											
Revised 8-05											
Definitions: Y=Yes (Required) V-Rated Gloves : gloves rated and tested for the maximum line-to-line voltage upon which work will be done. Leather protectors must be worn externally if v-rated rubber gloves could be damaged. V-Rated Tools : tools rated and tested for the maximum line-to-line voltage upon which work will be done. HRC : Hazard Risk Category FR : Flame Resistant											

Nfpa 70e Teaching Guide

Raffaela Di Napoli

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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