

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				Insulated cable exam, in open area	Y		2
3	FR long-sleeved shirt and pants OR FR coveralls		8	Hand Hat, Arc/Rated Face Shield				Opening hinged covers (to expose bare, energized parts)			3
3 *	Multi-Layer flash suit over FR long-sleeved shirt and pants OR FR coveralls		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
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				Insulated cable examination, in manhole or other confined space	Y		4
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				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

Albert A Gayle



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web feb 11 2017 diesel locomotives of indian railways a technical history joydeep dutta avinash kumar agarwal chapter first online 11 february 2017 abstract in this article we would like to trace the history of the growth of diesel traction of indian railways without completely sacrificing technical details

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web indian railways manufactures its diesel locomotives at diesel locomotive works dlw a premier production unit working under the ministry of indian railways the above unit was established in 1961 in collaboration with m s american locomotive company alco usa at varanasi the oldest living city of human civilization since

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web this article lists the diesel locomotives that have operated or are operating on indian railways introduction list of diesel locomotives of india classification syntax broad gauge locomotives mixed class wdm series passenger class wdp series goods class wdg series shunter class wds series

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web the objective of this block is to make you understand about the major components of the diesel engine as per the following details construction manufacturing process salient features and required dimensional accuracy in the key areas assembling technique and their inspection procedure failure analysis of components structure introduction

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web diesel locomotives were introduced in indian railways in late 1950s when first lot of diesel locomotives was imported from m s alco usa with the setting up of diesel locomotive works dlw at varanasi in the year 1961 the additions to diesel locomotive fleet started at a regular pace

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web diesel locomotives shaped the indian railways to what we see it as today with the arrival of the america wdm 1 india has produced thousands of diesel locomotives of different types most of which still remain operational wdm 2 bought way back in 1960s was modified and shaped into tens of different locos that ruled railways for well over 40

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web in the year 1957 indian railways imported its first mainline diesel locomotive from the american locomotive company alco in new york and classified it as wdm1 the wdm1 17000 was the first locomotive of the class after which about one hundred of these locomotives were imported in india for operation in the eastern and south eastern

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web the alco dl560c is a series of diesel electric locomotive with ac electric transmission designed by the american locomotive company and produced under license by banaras locomotive works blw varanasi india for indian railways as their classes wdm 2 wdm 3a 2c wdm 3d and wdg 3a for operation in india

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web the indian railways primarily operates a fleet of electric and diesel locomotives along with several compressed natural gas cng locomotives steam locomotives are operated on a few world heritage sites and also run occasionally as heritage

trains a locomotive is also known as a loco or more popularly as an engine

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web heritage inventory of indian railways diesel electric locomotives s no details location railway 1 wag5 clw 23000 built

1984 els bhusawal cr 2 wam4 clw 21399 built 1983 els bhusawal cr mg diesel loco no ydm4 6200 mysuru rail museum swr 83

ng diesel loco no 158 khurai wcr 84 zdm5 502