

NEW NESC RULING

NESC 2007 RULING 410A3: Arc Flash Assessment Required



ATTENTION:
EFFECTIVE JANUARY 1, 2009

NESC 2007 RULE 410A3:

"Effective January 1, 2009, the employer shall ensure that an assessment is performed to determine potential exposure to an electric arc for employees who work on or near energized parts or equipment. If the assessment determines a potential employee exposure greater than 2 cal/cm² exists, the employer shall require the employee to wear clothing or a clothing system that has an effective rating at least equal to the anticipated level of arc energy."

...clothing that will not ignite and continue to burn when exposed to an electrical arc, has an arc rating or ATPV rating at least equal to the level of energy calculated by an arc hazard analysis for the specific job assignment."

Clothing made of rayon, polyester, acetate, and nylon shall not be worn at anytime.

NESC CLOTHING DETERMINATION INFORMATION:

NESC offers several tables to determine arc exposure levels. These tables are based on voltage, available fault current, clearing time and it covers 4kV to 800kV.

NESC TABLE 410-1 Clothing and Clothing Systems

		5-cal system	8-cal system	12-cal system
Voltage (kV) phase-to-phase	Fault Current (kA)	Maximum Clearing Time (cycles)	Maximum Clearing Time (cycles)	Maximum Clearing Time (cycles)
4 to 15	5	37.3	59.6	89.4
	10	14.5	23.2	34.8
	15	8	12.9	19.3
	20	5.2	8.3	12.5
15.1 to 25	5	34.5	55.2	82.8
	10	14.2	22.7	34.1
	15	8.2	13.2	19.8
	20	5.5	8.8	13.2
25.1 to 36	5	16.9	27	40.4
	10	7.1	11.4	17.1
	15	4.2	6.8	10.1
	20	2.9	4.6	6.9
36.1 to 46	5	13.3	21.2	31.9

NESC Table 410-2 Live-Line Tool Work Clothing and Clothing Systems

		5-cal system	8-cal system	12-cal system
Voltage (kV) phase-to-phase	Fault Current (kA)	Maximum Clearing Time (cycles)	Maximum Clearing Time (cycles)	Maximum Clearing Time (cycles)
46.1 to 72.5	20	10.6	17	25.5
	30	6.6	10.5	15.8
	40	4.6	7.3	11
	50	3.4	5.5	8.3
72.6 to 121	20	10.3	16.5	24.7
	30	5.9	9.4	14.1
	40	3.9	6.2	9.3
	50	2.7	4.4	6.6
138 to 145	20	12.2	19.5	29.3

SALISBURY HAS YOU COVERED.

Salisbury has everything you need to meet the new ruling. Salisbury is your complete source for personal electrical safety products that comply with NFPA 70E and OSHA regulations. Salisbury offers a complete line of arc flash personal protective equipment and clothing. Our PRO-WEAR™ line includes clothing and other protective equipment from 8cal/cm² to 100cal/cm². Our arc flash protective items are sold individually or in convenient kits. Salisbury is proud to offer you this opportunity to simplify your PPE purchasing process. Make Salisbury your one stop manufacturer of arc flash safety products that comply with OSHA regulations and NFPA 70E standards. Salisbury offers the complete solution with insulating rubber gloves, blankets, line hose, temporary grounding equipment, voltage detectors, clamp sticks, distribution dead-end insulators, plastic cover-up, dielectric boots.

See back for a sampling of these products.



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Salisbury has what you need in easy to buy kits. We make it easy to be safe. Your job is tough enough! Make it easy by choosing a Salisbury PRO-WEAR kit. Each kit is designed to meet the PPE requirements found in the NFPA 70E hazard risk categories. Salisbury's PRO-WEAR Kits provide the confidence of making the right choice.

SALISBURY PRO-SHIELD™ AS1000 SERIES



CLASS 00, 00, & 2 GLOVE KITS



SALISBURY PRO-WEAR™ ARC FLASH PROTECTION CLOTHING

-8 cal/cm², 12 cal/cm², 20 cal/cm², 31 cal/cm², 40 cal/cm², 55 cal/cm², 75 cal/cm², and 100 cal/cm² ATPV ratings
Bib Overall, Coat, Coverall, Overpant, & Hooded Jacket



SALISBURY PRO-HOOD™ ARC FLASH PROTECTION HOODS

-8 cal/cm², 12 cal/cm², 20 cal/cm², 31 cal/cm², 40 cal/cm², 55 cal/cm², 75 cal/cm², and 100 cal/cm² ATPV ratings



SALISBURY PRO-WEAR™ ARC FLASH PROTECTION CLOTHING KITS

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