

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 2				600 V Class Switchgear (all - 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 to energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment to energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment to 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	Rereading a panel meter while operating a meter switch			0	Rereading 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 (backing) of starters from cutouts, doors closed			2
Remove or install CB's or fused switches	Y	Y	1	Inspection or removal (backing) of CB's from cutouts, 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 (backing) of starters from cutouts, doors open			3
Panelboards / Switchboards Rated 240 V to 600 V (with modified case or insulated case CB's) - Notes 1 & 2											
TASK (equipment to energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment to energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment to energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
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 (backing) of CB's from cutouts, 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 Clad Switchgear, 1 kV and Above			
TASK (equipment to energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment to energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment to 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	Rereading a panel meter while operating a meter switch			0
Rereading 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								
Removal of bolted covers (to expose bare, energized parts)			2 *	Other 600 V Class (277 V to 600 V Nom.) Equip - Revenue meters (kW/h at primary voltage & current) - Note 3							
Application of safety grounds, after voltage test	Y		2 *	TASK (equipment to 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 *	Create trough or tray cover removal or installation			1	CB or fused switch operation with enclosure doors open			4
Work on control circuits with energized parts >120 V exposed	Y	Y	2 *	Miscellaneous equipment cover removal or installation			1	Inspection or removal (backing) of CB's from cutouts, doors open			4
Inspection or removal of individual starter "fourths" from MCC - Note 4	Y		3	Application of safety grounds, after voltage test	Y		2 *	Removal of bolted covers (to expose bare, energized parts)			4
				Inspection or removal	Y		2 *	Opening voltage transformer or control power transformer compartments			4
				Work on energized parts, including voltage testing	Y	Y	2 *	Application of safety grounds, after voltage test	Y		4
								Work on energized parts, including voltage testing	Y	Y	4
								Work on control circuits with energized parts >120 V exposed	Y	Y	4

Minimum Clothing Requirements				Other Equipment TTY and Above - Metal clad load interrupter switches, fused or unfused			
HRC	Protective Clothing	Minimum Cal/cm²	PPE (Safety glasses, leather safety shoes required for all)	Task: equipment is energized & work is done within the flash protection boundary	V-Rated Gloves	V-Rated Tools	HRC
0	Natural fiber short-sleeved shirt and long pants	NA	Hard Hat	Switch operation, doors closed			2
1	Natural fiber long-sleeved shirt and pants Cotton jeans and FR long-sleeved shirt OR FR long-sleeved shirt and pants OR FR coveralls	4	Hard Hat	Outdoor disconnected switch operation (energized, from grade)			2
2	FR long-sleeved shirt and pants OR FR coveralls	8	Hard Hat, Arc-Rated Face Shield	Insulated cable exam, in open area	Y		2
2 +	FR long-sleeved shirt and pants OR FR coveralls	8	Hard Hat, Multi-Layer Switching Hood, Hearing Protection	Opening hinged covers (to expose bars, energized parts)			3
3	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants	25	Hard Hat, Multi-Layer Switching Hood, Hearing Protection	Outdoor disconnected switch operation (switchkit 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 OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants	40	Hard Hat, Multi-Layer Switching Hood, Hearing Protection	Removal of bolted covers (to expose bars, energized parts)			4
5	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants	40	Hard Hat, Multi-Layer Switching Hood, Hearing Protection	Insulated cable examination, in manhole or other confined space	Y		4
6	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants	40	Hard Hat, Multi-Layer Switching Hood, Hearing Protection	Work on energized parts, including voltage testing	Y	Y	4

* If the motor cannot be satisfied, work must be performed de-energized.

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|--------|---------------------------------|---|
| Note 1 | Maximum of 25 kA, short circuit | Current available, 0.003 second (2 cycle) fault clearing time. |
| Note 2 | Maximum of 60 kA, short circuit | Current available, 0.003 second (2 cycle) fault clearing time. |
| Note 3 | For < 150 kA, short circuit | Current available, the I ² tC required may be reduced by one category. |
| Note 4 | Maximum of 40 kA, short circuit | Current available, 0.033 second (20 cycle) fault clearing time. |
| Note 5 | Maximum of 35 kA, short circuit | Current available, 0.033 second (20 cycle) fault clearing time. |
| Note 6 | For < 25 kA, short circuit | Current available, the I ² tC required may be reduced by one category. |

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Abstract

Checklist completed on: 11/11/2011. By: [signature]

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.

Abstract: Adolescent girls' body image concerns are associated with eating disorders, depression, and low self-esteem. The current study examined the relationship between body image concerns and self-esteem in adolescent girls. A sample of 100 adolescent girls (ages 12-18) completed a self-report questionnaire measuring body image concerns and self-esteem. Results indicated that girls with higher body image concerns had lower self-esteem. The findings suggest that interventions aimed at improving body image concerns may also lead to improved self-esteem in adolescent girls.

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Peter M. Curtis



12 Nfpa 70e Compliance Guide:

The Electrical Safety Program Guide Ray A. Jones (P.E.), Jane G. Jones, 2011 Based on the 2009 NFPA 70E and current OSHA regulations this updated edition takes readers step by step through the creation of an electrical safety program discussing program development from conception through finalization for a plan tailored to a company's unique environment

Lees' Loss Prevention in the Process Industries Frank Lees, 2005-01-25 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world's chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field

Arc Flash Hazard Analysis and Mitigation J. C. Das, 2012-08-15 Up to date analysis methodologies and practical mitigation for a major electrical safety concern Arc Flash Hazard Analysis and Mitigation is the first book to focus specifically on arc flash hazards and provide the latest methodologies for its analysis as well as practical mitigation techniques Consisting of sixteen chapters this fully up to date handbook covers all aspects of arc flash hazard calculations and mitigation It addresses the calculations of short circuits protective relaying and varied electrical systems configurations in electrical power systems It also examines protection systems including differential relays arc flash sensing relays protective relaying coordination current transformer operation and saturation and applications to major electrical equipment from the arc flash point of view Current technologies and strategies for arc flash mitigation are explored Using the methodology analysis and preventive measures discussed in the book the arc flash hazard incident energy can be reduced to 8 cal cm² or less for the new and existing electrical distribution systems This powerful resource Features the most up to date arc flash analysis methodologies Presents arc flash hazard

calculations in dc systems Supplies practical examples and case studies Provides end of chapter reviews and questions Includes a Foreword written by Lanny Floyd a world renowned leader in electrical safety who is DuPont s Principal Consultant on Electrical Safety and Technology Arc Flash Hazard Analysis and Mitigation is a must have guide for electrical engineers engaged in design operation and maintenance consulting engineers facility managers and safety professionals

Electrical Safety Code Manual Kimberley Keller,2010-07-19 Safety in any workplace is extremely important In the case of the electrical industry safety is critical and the codes and regulations which determine safe practices are both diverse and complicated Employers electricians electrical system designers inspectors engineers and architects must comply with safety standards listed in the National Electrical Code OSHA and NFPA 70E Unfortunately the publications which list these safety requirements are written in very technically advanced terms and the average person has an extremely difficult time understanding exactly what they need to do to ensure safe installations and working environments Electrical Safety Code Manual will tie together the various regulations and practices for electrical safety and translate these complicated standards into easy to understand terms This will result in a publication that is a practical if not essential asset to not only designers and company owners but to the electricians who must put compliance requirements into action in the field Best practice methods for accident prevention and electrical hazard avoidance Current safety regulations including new standards from OSHA NEC NESC and NFPA Information on low medium and high voltage safety systems Step by step guidelines on safety audits Training program how to s from setup to rescue and first aid procedures

Safety and Health for Engineers Roger L. Brauer,2022-08-18 SAFETY AND HEALTH FOR ENGINEERS A comprehensive resource for making products facilities processes and operations safe for workers users and the public Ensuring the health and safety of individuals in the workplace is vital on an interpersonal level but is also crucial to limiting the liability of companies in the event of an onsite injury The Bureau of Labor Statistics reported over 4 700 fatal work injuries in the United States in 2020 most frequently in transportation related incidents The same year approximately 2 7 million workplace injuries and illnesses were reported by private industry employers According to the National Safety Council the cost in lost wages productivity medical and administrative costs is close to 1 2 trillion dollars in the US alone It is imperative by law and ethics for engineers and safety and health professionals to drive down these statistics by creating a safe workplace and safe products as well as maintaining a safe environment Safety and Health for Engineers is considered the gold standard for engineers in all specialties teaching an understanding of many components necessary to achieve safe workplaces products facilities and methods to secure safety for workers users and the public Each chapter offers information relevant to help safety professionals and engineers in the achievement of the first canon of professional ethics to protect the health safety and welfare of the public The textbook examines the fundamentals of safety legal aspects hazard recognition and control the human element and techniques to manage safety decisions In doing so it covers the primary safety essentials necessary for certification examinations for

practitioners Readers of the fourth edition of Safety and Health for Engineers readers will also find Updates to all chapters informed by research and references gathered since the last publication The most up to date information on current policy certifications regulations agency standards and the impact of new technologies such as wearable technology automation in transportation and artificial intelligence New international information including U S and foreign standards agencies professional societies and other organizations worldwide Expanded sections with real world applications exercises and 164 case studies An extensive list of references to help readers find more detail on chapter contents A solution manual available to qualified instructors Safety and Health for Engineers is an ideal textbook for courses in safety engineering around the world in undergraduate or graduate studies or in professional development learning It also is a useful reference for professionals in engineering safety health and associated fields who are preparing for credentialing examinations in safety and health

Shipboard Power Systems Design and Verification Fundamentals Mohammed M. Islam, 2018-06-11 The only book that covers fundamental shipboard design and verification concepts from individual devices to the system level Shipboard electrical system design and development requirements are fundamentally different from utility based power generation and distribution requirements Electrical engineers who are engaged in shipbuilding must understand various design elements to build both safe and energy efficient power distribution systems This book covers all the relevant technologies and regulations for building shipboard power systems which include commercial ships naval ships offshore floating platforms and offshore support vessels In recent years offshore floating platforms have been frequently discussed in exploring deep water resources such as oil gas and wind energy This book presents step by step shipboard electrical system design and verification fundamentals and provides information on individual electrical devices and practical design examples along with ample illustrations to back them In addition Shipboard Power Systems Design and Verification Fundamentals Presents real world examples and supporting drawings for shipboard electrical system design Includes comprehensive coverage of domestic and international rules and regulations e g IEEE 45 IEEE 1580 Covers advanced devices such as VFD Variable Frequency Drive in detail This book is an important read for all electrical system engineers working for shipbuilders and shipbuilding subcontractors as well as for power engineers in general

Electrical Inspection Manual with Checklists Noel Williams, Jeffrey S. Sargent, 2014 Packed with precise step by step checklists detailed illustrations and informative chapter explanations the Electrical Inspection Manual 2014 Edition identifies important Code rules and provides guidance on how to organize checklists by occupancy type to increase thoroughness and decrease the likelihood of overlooking potential problems Written by certified electrical inspectors and endorsed by the National Fire Protection Association NFPA and the International Association of Electrical Inspectors IAEI this fully illustrated manual explains significant tasks defines terms outlines key questions and provides a concise overview of the electrical inspection process The training manual is intended to assist electrical inspectors as well as anyone performing a review for Code compliance in

advance of a professional inspection This audience may include but is not limited to designers insurance inspectors architects installers project managers and safety officers *Employment Safety and Health Guide* ,2004 Includes original text of the Occupational safety and health act of 1970 **Code of Federal Regulations** ,2014 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries Federal Register ,2004-04 **Electrical Power Equipment Maintenance and Testing** Paul Gill,2016-12-19 The second edition of a bestseller this definitive text covers all aspects of testing and maintenance of the equipment found in electrical power systems serving industrial commercial utility substations and generating plants It addresses practical aspects of routing testing and maintenance and presents both the methodologies and engineering basics needed to carry out these tasks It is an essential reference for engineers and technicians responsible for the operation maintenance and testing of power system equipment Comprehensive coverage includes dielectric theory dissolved gas analysis cable fault locating ground resistance measurements and power factor dissipation factor DC breaker and relay testing methods *Maintaining Mission Critical Systems in a 24/7 Environment* Peter M. Curtis,2021-02-17 The new edition of the leading single volume resource on designing operating and managing mission critical infrastructure Maintaining Mission Critical Systems in a 24 7 Environment provides in depth coverage of operating managing and maintaining power quality and emergency power systems in mission critical facilities This extensively revised third edition provides invaluable insight into the mission critical environment helping professionals and students alike understand how to sustain continuous functionality minimize the occurrence of costly unexpected downtime and guard against power disturbances that can damage any organization s daily operations Bridging engineering operations technology and training this comprehensive volume covers each component of specialized systems used in mission critical infrastructures worldwide Throughout the text readers are provided the up to date information necessary to design and analyze mission critical systems reduce risk comply with current policies and regulations and maintain an appropriate level of reliability based on a facility s risk tolerance Topics include safety fire protection energy security and the myriad challenges and issues facing industry engineers today Emphasizing business resiliency data center efficiency cyber security and green power technology this important volume Features new and updated content throughout including new chapters on energy security and on integrating cleaner and more efficient energy into mission critical applications Defines power quality terminology and explains the causes and effects of power disturbances Provides in depth explanations of each component of mission critical systems including standby generators raised access floors automatic transfer switches uninterruptible power supplies and data center cooling and fuel systems Contains in depth discussion of the evolution and future of the mission critical facilities industry Includes PowerPoint presentations with voiceovers and a digital video library of information relevant to the mission critical industry Maintaining Mission Critical Systems in a 24 7 Environment is a must read reference and training guide for architects property managers building

engineers IT professionals data center personnel electrical mechanical technicians students and others involved with all types of mission critical equipment

Three-Phase Electrical Power Joseph E. Fleckenstein, 2017-12-19 Three Phase Electrical Power addresses all aspects of three phase power circuits The book treats the transmission of electrical power from the common sources where it is generated to locations where it is consumed At typical facilities where electrical power is used the book covers the important topics of grounding currents power demand metering circuit protection motors motor protection power factor correction tariffs electrical drawings and relays Included in the text are the necessary methods of computing currents and power in all possible types of circuit applications as those that are balanced unbalanced leading lagging three wire and four wire Focusing on electrical gear programs and issues related to the generation and use of three phase electrical power this contemporary educational guide Uses simple straightforward language to explain key concepts and their underlying theory Introduces numerous examples illustrations and photographs to aid in comprehension Employs phasor concepts throughout the text to aid in the analysis of three phase circuits Encourages applied learning by supplying practical problems at the end of each chapter Provides extensive references and a glossary of symbols acronyms and equations Three Phase Electrical Power delivers a much needed modern day treatment of three phase electrical power for electrical engineering students and practitioners alike

2017 CFR Annual Print Title 29 Labor Part 1900 to 1910.999) Office of The Federal Register, 2017-07-01

Fundamentals of U.S. Health Care Jahangir Moini, Morvarid Moini, 2017-04-07 All health care students must be familiar with the basic concepts of health care in the United States This introductory textbook presents vital information on health care careers and legal ethical financial and policy issues that will help their future practice It includes chapters on careers in the health care profession the complexity of health care the Patient Protection and Affordable Care Act professionalism in health health care for special populations the Occupational Safety and Health Administration OSHA standards research and advancements in health care the future of health care Fundamentals of U S Health Care is unique in the way it highlights the important elements of each health career including job requirements length of study and salaries With the student in mind this book is accompanied by a website that features detailed PowerPoints and test banks with more than 1 000 review questions Well organized and easily understood this overview provides a reliable relevant resource and up to date reference It is essential reading for all allied health students including nurses surgical technicians dental hygienists radiology technicians medical assistants pharmacy technicians physician assistants and more

Superconducting Magnetic Energy Source--engineering Test Model (SMES-ETM) [MN, TX, WA, WI] , 1992 *Regulatory Program of the United States Government* United States. Office of Management and Budget, 1990 Bowker's Law Books and Serials in Print , 1986 New Jersey Register , 2015 Conference Papers , 2001

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