ARC FLASH HAZARD

Design, Operation and Maintenance Checklist



1-1 DESIGN			Yes	No	Don't Know
1-1.1 Design Review	1-111	n conducted to identify potential areas to reduce hazards including fault levels, operations, remote racking, and system grounding?			
	1-112	lace as required by National Fire Protection Association (NFPA) 70E 130.5 to red at least every five years or when system or utility supply changes are made?			
	1-1.1.3 Has the arc flash bounda	ary been established for systems greater than 50 volts per NFPA 70E 130.5(A)?			
1-1.2 Documentation	risk assessment and arc 1-1.2.1 at hazardous areas? Do a	olan documented? Does the documentation include the results of the arc flash flash training, updated single-line diagrams, signs and labels on equipment and all labels include the type, name/ID, incident energy at working distances, flash flash PPE category, shock protection information, date of analysis, and the R 1910.132 (d)(2)?			
	1-1.7.7	ms up to date reflecting any modifications or expansions to your electrical ny changes in the electric utility system per NFPA 70E 205.2?			
	1-1.2.3 Do you have a document NFPA 70E 130.7(C)(13)?	ted method for maintaining required personal protective equipment (PPE) per			

2-1 OPERATIONS				
2-1.1 Safety	2-1.1.1	Does your safety program include a certified training program including awareness of electrical hazards?		
	2-1.1.2	Does your safety program identify hazard/risk evaluation procedures, electrically safe work procedures, tools and PPE, and electrical safety principles? And is it audited every three years per NFPA 70E 110.3(H)(1)?		
	2-1.1.3	Is a risk assessment performed prior to any work on a battery system per NFPA 70E 320.3(A)(1)?		
	2-1.1.4	Do you have appropriate safety procedures in place to minimize dangers where exposure cannot be avoided?		
	2-1.1.5	Do you have a formal record keeping process for documenting accidents and near misses?		
	2-1.1.6	Is there a process in place that ensures actions will be taken to update procedures or take other corrective action when an accident or near miss occurs?		
	2-1.1.7	Do workers comply with manual procedures?		
	2-1.1.8	Is there an annual evaluation of each worker per NFPA 70E 110.2(D)(1)(f)? And do non-compliances result in revisions to the training and safety program per NFPA 70E 110.3(H)(2)?		



			Yes	No	Don't Know
2-1 OPERATIONS					
2-1.2 Training	2-1.2.1	Do you have an effective arc flash training program that adheres to OSHA regulations 1910.132(f)? Does it provide workers the knowledge and understanding of the existence, nature, causes, and methods to prevent electrical hazards?			
	2-1.2.2	Does your arc flash training program include training on arc flash awareness, standards and codes, understanding of arc flash quantities, selection and use of appropriate PPE, reading and following warning signs and labels, methods to reduce risk while working on live exposed parts, and arc flash risk assessment?			
	2-1.2.3	Is there a process in place that ensures the training program is periodically reviewed to identify needed changes?			
	2-1.2.4	Have all personnel working on or near energized equipment undergone specific training in the hazards of working on energized equipment, and the use and proper application of PPE?			
	2-1.2.5	Do training records exist?			
2-1.3 Labeling	2-1.3.1	Does all electrical equipment that may remain energized during maintenance or repair have a warning label in compliance with the National Electrical Code 110.16? Does this equipment include switchboards, switchgear, panel boards, industrial control panels, meter socket enclosures, and motor control panels as outlined in NFPA 70E 2015.			
2-1.4 PPE	2-1.4.1	Do you have a PPE plan?			
	2-1.4.2	Does the plan address all OSHA standards regarding PPE?			
	2-1.4.3	Does the plan cover how PPE should be worn, maintained, and disposed of after the equipment life has expired?			
	2-1.4.4	Is there a process in place to ensure PPE requirements are updated when system or utility supply changes are made?			
2-1.5 Regulatory Compliance	2-1.5.1	Do you have an established process for updating arc flash hazard programs as new information becomes available?			
3-1 MAINTENANCE					
3-11 Electrical Preventive Maintenance Program	3-1.1.1	Have protective devices been tested/checked to verify performance per study? Do these devices adequately withstand or interrupt available fault current per NFPA 70E 205.6?			
	3-1.1.2	Does your preventive maintenance program specifically address arc flash hazards?			
	3-1.1.3	Is the program being followed rigorously?			
	3-1.1.4	Is there a procedure in place that updates the program based on changes to plant equipment or processes?			
	3-1.1.5	Is electrical equipment being maintained per NFPA 70E 205.3 and is there documentation of such maintenance?			

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as required by NFPA 70E 205.4?

3-1.1.6

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Is overcurrent protective equipment being maintained and is the maintenance testing being documented