





































Electrically Safe Working Condition

• A state in which an electrical conductor or circuit part has been disconnected from energized parts, locked/tagged in accordance with established standards, tested to ensure verify the absence of voltage, and, if necessary, temporary protective grounding equipment has been applied temporarily grounded for personnel protection.

FR 14









• One who has demonstrated skills and knowledge related to the construction and operation of electrical equipment and installations and has received safety training to identify <u>the hazards</u> and avoid <u>reduce</u> the <u>hazards involved</u> <u>associated risk</u>















110.1 Electrical Safety Program

- •(B) Inspection.
- The electrical safety program shall include elements to verify that newly installed or modified electrical equipment or systems have been inspected to comply with applicable installation codes and standards prior to being placed into service

FR 21, CC6, SR 11

2. INSIRE LARGE: 1. COME Date of applicably: 1. Signature: 1. Signature: 1. Signature: 10. Job Supervisor: Print Name: 11. Point of Contact: Print Name: 12. 10. Job E. COMPLETED BY DESIGNATED NEC INSPECTOR ONLY	
4. Issued By: Print Name: Signature: 5. Location Area: 6. Building: 7. Room: 8. Project or Work. Package No:	
5. Location Area: 6. Bailding: 7. Room: 8. Project or Work Packags No:	
8. Project or Work Package No: 9. Description of Electrical Installation including designated NEC inspection points: 10. Job Supervisor: 10. Job Supervisor: 11. Point of Contact: 12. Print Name: 12. TO BE COMPLETED BY DESIGNATED NEC INSPECTOR ONLY	
9. Description of Electrical Installation including designated NEC inspection points: 10. Job Supervisor: Print Name: 10. Job Supervisor: Print Name: 11. Point of Contact: Print Name: Phone No.: 12. TO BE COMPLETED BY DESIGNATED NEC INSPECTOR ONLY	
Signature: Phone No.: 11. Point of Contact: Print Name: Phone No.: 12. TO BE COMPLETED BY DESIGNATED NEC INSPECTOR ONLY	
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12. TO BE COMPLETED BY DESIGNATED NEC INSPECTOR ONLY	
The following inspection areas shall not be concealed until inspected. Inspected By Fi	ield Report
Inspection Type Inspected By Field Report Initials Date Yes No Service	es No
Walls Transformer	_
Ceiling Generator	
Grounding Feeder/Subpanel	
Trench Mobile Office Service	
Slab Final	
Underground	
Raceway	

(Includes new, existing modificat	ions and temporary installations)	
14. Actions (s):		
NEC Investor	Data	
15. (mint mine and airmiting)	Completed	

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110.2(C) Emergency Response Training

- •(1) Contact Release.
- Employees exposed to shock hazards <u>and those</u> <u>responsible for the safe release</u> of victims from contact with energized electrical conductors or circuit parts shall be trained in methods of safe release. Refresher training shall occur annually

110.2(C) Emergency Response Training

- •(2) First Aid, Emergency Response, and Resuscitation
- Refresher training shall occur annually
- (d) Training shall occur at a frequency that satisfies the requirements of the certifying body

FR 35, SR 16

FR 35, SR 16

130.5 Arc Flash Risk Assessment

• (C) Additional Protective Measures. If additional protective measures are required they shall be selected and implemented according to the hierarchy of risk control identified in 110.1(H)

130.5 Arc Flash Risk Assessment

- Table 130.5(G) NEW
 - Selection of Arc-Rated Clothing and Other PPE When the Incident Energy Analysis Method Is Used
- Table H.3(b) [Annex H] relocated here
 1.2 cal/cm² to 12
 Greater than 12 cal/cm²

FR 60, CC 12

		Section	A, Task Id	entification						
		(To Be Con	npleted by	the Initiator)						
Facility:	Equi	ipment:								
JHA No.			Work O	rder No.						
Task:										
Location:	:									
Submitte	H.	Submitter Signature:			Date:					
	(Se To be Compl	ction B, Ge leted by th	eneral e Work Planner)						
		Mark	""" or "N	as appropriate						
No.	Item		Yes	No	Instructions					
1.	is the equipment operating a more or is a shock hazard pre	t 50 volts or sent?		if No, hazard a If Yes, proceed	narysis is not req to Line 2.	uired.				
2.	is the required working dista	nce available	17	If Yes , proceed If No , do not pr is required befo	to Line 3. roceed. Addition ore any work is p	al risk assessment erformed.				
3.	is the working space is clear?			If Yes, proceed to Line 4. If No, do not proceed. Additional risk assessment is required before any work is performed.						
4.	Was an incident energy analy	sis performe	rd?	If Yes, proceed to Section C If No, proceed to Line 5						
5.	is the equipment properly in maintained and there is no e impending failure?	stalled and vidence of		If Yes, arc flash are, and will re covers are, and If No, arc flash C.	PPE may not be main, closed and will remain, sec PPE is required,	required if doors I secured and if ured in place. proceed to Section				
Planner:		Planner Signature:			Date:					
	Sec (To be Completed Section 130.4(L	tion C, Shoc by Engineer) and Tables	k Informa ing if Unk 130.4(D)	tion – All Methods nown or Not Previo (a) or 130.4(D)(b) a	usly Analyzed) s applicable					
	Voltage between phases			Establish the shock boundaries						
6	Limited Approach Boundary:			Proceed to Lines 7 and 8.						
0.	Restricted Approach Boundary									
7.	Are rubber insulating gloves required for the task?			Proceed to Section has been or needs	n D if an incident to be performe	energy analysis I.				
	Are insulated or insulating hand tools required for the			Proceed to Section Category (Table) r	n E if using the A method.	rc Flash PPE				

Section D, Arc Flash Information – Incident Energy Analysis Method (Default Method) (To Be Completed by Engineering # Unknown or Not Previously Analyscel) 9. Incident working Distance: bundary. Working Distance must be provided with incident energy marking. 9. Level of PPE nuclude at least one and establish the arc flash boundary. Working Distance must be provided with incident energy marking. 9. Minimum Arc-Ratin Boundary. Provide Engineering Evaluation or DAC Number and proceed to Section F. 9. Section E, Arc Flash Information – Arc Flash PPC Category Method (To Be Completed by Engineering I Unknown or Not Previously Analyced) Use Toble 30.7(15):1(A)(4) or 130.7(15):1(B)(4) Determine the available fault current and clearing times for the task Available Fault Determine the available fault current and clearing times for the task exceed the maximum allowed by Table 13. Mark PP or W as appropriate (To be Completed by Engineering I (VAR), on incident energy analysis is required. (Complete Section F. 12. Cate Flash Decondary (To be Completed by I able) 13. Proceed to Section F. 14. Category Working Distance (Do be available fault current and clearing times for the task exceed the maximum allowed by Table) 13. Proceed to Section F. 14. Category Working Distance (To be Completed by I able) 13. Proceed to Section F. 14. Category Working Distance (Do be as anylot by indust) Section F. Arc-rated Cothing and Other PPE	-											
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14. In the lock to the regulated ac- rated clothing and other PPE. PPE Category Method: us: 150.7(C)(16) & Troble 150.7(C)(16) 14. Incident Energy Analysis Method: Use Informative Annex K, H. 3 (Tobles H. 3(o) & H.3(b) 14. Return to Initiator or Planner Upon Completion. mpleted Signature:	L F		protective clothin	g and other	PPE			other PP	t solution theo /	laft list	the encuired are	
14. PEE Category Method: use 130.7(C)(16) & Tobb 130.7(C			rated clothing and other PPE.									
14. Toble 150.7(2)(36) Incident Energy Analysis Method: Use Incident Energy Analysis Method:			PPE Category Method: use 130.7(C)(16) &									
14. Incident Energy Analysis Method: Use Informative Annex H, H.3 (Tobles H.3(a) & H.3(b) mpleted Signature: by: Date:			Table 130.7(C)(16)									
14. Informative Annex H, H.3 (Tables H.3(a) & H.3(b) H.3(b) Return to Initiator or Planner Upon Completion. Date: Date:			Incident Energy Analysis Method: Use Informative Annex H, H.3 (Tables H.3(a) & H.3(b)									
H.3(b) Return to Initiator or Planner Upon Completion. Dy: Dy: Dy: Dy: Dy: Dy: Dy: Dy:		14								Tables H.3(a) &		
mpleted Signature: Date:		19.										
mpleted Signature: Date: Date:												
mpleted Signature: Date:												
mpleted Signature: Date: Date:								Return to	o Initiator	or Plan	ner Upon	
mpleted Signature: Date:								Complete	ion.			
By:	c	ompleted		5	ignature					Date		
	L	By:		ľ								
		~ 0										

	Electrica	l Task I	Risk Asse	ssment Form					
	Sec	tion A,	Task Iden	tification					
	(To Be	Compl	leted by ti	he Initiator)					
Facility:	Electrical								
Work Ord	er No.:	Equipment:							
Electrical	Task:								
Location: Submitter	submi	tter ure:		k	Nate:				
	- pagner	Sectio	on B. Gen	eral					
	(To be C	omplete	d by the	Work Planner)					
		Mar	k "Y" or "N	l" as appropriate					
No.	ltem		Yes No	es No Instructions					
1.	Does the task result in the presence	ofa		If No, hazard analysis is no	t required.				
	shock or arc flash hazard?		+	If Yes, proceed to Line 2.					
	Does Engineering Evaluation EVAL-D	t-2013-	1 1	If No, proceed to Line 3.					
Z.	0209 (WORKING ON 120-240 VAC Ener Equipment) apply?	Breg		If Yes, use the applicable shock protection					
	is there an existing Engineering Evalu	ation	++	If Yes, use the incident energy and applicable					
	that applies?			boundary data according to the work location					
3.				from the existing Evaluation.					
			Proceed to Line 4.						
4.	What is the available working space measured from the front of the equipment?	Plea Sect	ase note a tion C.	ny restrictions in the workin	g space and proceed				
	Sec	tion C.	Shock Inf	ormation					
	(To be C	omplete	d by the	Work Planner)					
NFPA 70E Section 130.4(D) and Tables 130.4(D)(a) or 130.4(D)(b) as applicable									
		Mar	k "Y" or "N	as appropriate					
	Million because of the second state				Instructions				
5.	Will there be exposed live parts?			If Yes, proceed to line 6.	nainearina				
	Will work be performed inside the re	stricted		If wes shock protection is	required.				
6.	approach boundary? Item			Proceed to Line 7					
				Instructi	Instructions				
	Voltage between phases:		ŧ	stablish the shock boundari	15.				
	Limited Approach Boundary		5	ign and submit to engineeri	ng.				
7.	chines Approach Boundary.								
7.	Restricted Approach Boundary:	_			1				

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- 330.2 Definitions
- Field Evaluated. A thorough evaluation of nonlisted or modified equipment in the field that is performed by persons or parties acceptable to the authority having jurisdiction. The evaluation approval ensures that the equipment meets appropriate codes and standards or is similarly found suitable for a specified purpose.

FR 89, CC 18 (NL)

