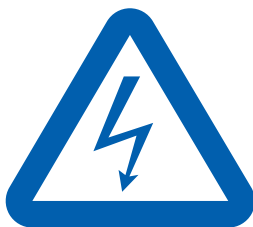




JOB SAFETY ANALYSIS NOTEBOOK



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A JSA is intended to define the scope of work, identify and enable personnel to analyze the hazards, aid in the development and implementation of hazard mitigations, which in turn allows personnel to perform work safely within the established controls. Read and answer the critical safety questions below, document the date, scope, hazards, and mitigations. After workers have signed the JSA, work can begin.

STOP and LOOK For Potential Hazards:

Has a JJSV been conducted?

Are the tools correct for the job?

Has other work in the area been evaluated?

Has the work area been properly barricaded?

Have the environmental factors been considered?

Has the work area been evaluated for fall hazards?

Is the procedure/checklist accurate and complete?

Has the work area been evaluated for burn hazards?

Is the equipment properly prepared and energy isolated?

Has exposure to pressurized gas or liquid been evaluated?

Have electric shock and arc flash hazards been evaluated?

Is the PPE identified on the safe work permit appropriate?

Has the work area been evaluated for line-of-fire hazards?

*If "NO" is answered to any of these questions,

STOP and reassess the job*

Job Safety Analysis

Date: _____

Job Scope: _____

Job Location: _____

Work Order Number: _____

ANALYZE Potential Hazards:

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Hazard MITIGATION:

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Employee Signatures

_____	_____
_____	_____
_____	_____

A R C	Incident Energy: : :cal / cm²			S H O C K	Shock Hazard: : : volt		
	Arc Flash Boundary: : : ft / in				Limited Approach: : : ft / in		
	Working Distance: : : ft / in				Restricted Approach: : : ft / in		
	Condition: : good poor				Condition: : good poor		
	Likelihood: : probable improbable				Likelihood: : probable improbable		
	Severity: : low moderate : high				Severity: : low moderate : high unacceptable		

Notes

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

ARC FLASH/BLAST RISK ASSESSMENT				
Task Complexity	Simple	Moderate	Complex	
Incident Energy	Severity of Harm			
	1.2 - 12 cal / cm ²	Low	Moderate	Moderate
	> 12 - 40 cal / cm ²	Low	Moderate	Moderate
	> 40 cal / cm ²	Low	High	High
Arc Flash / Blast Likelihood				
Equipment is in good physical condition.			Improbable	
Equipment is in poor physical condition.			Possible	
Likelihood	Severity of Harm			
	Low	Moderate	High	
	Improbable	Low	Moderate	High
Severity	ARC FLASH/BLAST RISK EVALUATION			
Low	Risk acceptable further mitigation is discretionary. Wear Arc Flash PPE based on incident energy level and Appendix D in RSP-1162. Utilize remote racking equipment if available.			
Moderate	Risk acceptable. Wear Arc Flash PPE based on incident energy level and Appendix D in RSP-1162. Utilize remote racking equipment if available.			
High	Incident energy levels > 40 cal / cm ² require remote racking or engineering controls. Diagnostic testing to be performed de-energized in an electrically safe work condition.			

SHOCK RISK ASSESSMENT					
		Severity of Harm			
Task Complexity		Simple	Moderate	Complex	Within Restricted Approach
Hazard Level	50V to 150V	Low	Moderate	Moderate	High
	151 to 750V	Low	Moderate	Moderate	High
	751V to 15KV	Low	Moderate	Moderate	High
	>15KV	Low	Moderate	Un-acceptable	Unacceptable
Shock Likelihood					
The source of harm is adequately guarded to avoid contact.			Improbable		
The source of harm is not adequately guarded to avoid contact.			Possible		
Likelihood	Severity of Harm				
	Low	Moderate	High	Unacceptable	
Improbable	Low	Low	Low	Low	
Possible	Low	Moderate	High	Unacceptable	
Severity	Shock Risk Evaluation				
Low	Risk acceptable. Refer to Appendix B in RSP-162 for work within the limited approach boundary.				
Moderate	Risk acceptable. Refer to Appendix B in RSP-162 for work within the limited approach boundary.				
High	Guard if feasible. If guarding is infeasible, an Energized Electrical Work Permit is required.				
Unacceptable	This work will be performed de-energized in an electrically safe work condition and under LOTO.				

Task Complexity Guide				
Task	Complexity			
	Simple	Moderate	Complex	
Racking LV & MV circuit breaker			X	
Diagnostic voltage testing - contact			X	
Diagnostic voltage testing - non-contact		X		
Racking MV motor starter		X		
Operating MV disconnect switch		X		
Work within limited approach boundary		X		
Operating LV molded case CB & disconnects	X			
Other Task - specify task and task complexity on JSA				
Energized Part to Employee (distance in feet - inches)				
Voltage Phase -to- Phase	Limited Approach Boundary		Restricted Approach Boundary	
	Exposed Moveable Conductor	Exposed Fixed Circuit Part	Standard Inadvertent Movement	
50V - 150V	10' - 0"	3' - 6"	Avoid Contact	
151V - 750V	10' - 0"	3' - 6"	1' - 0"	
751V - 15KV	10' - 0"	5' - 0"	2' - 2"	

CM

1

2

3

4

5

6

7

8

9

10

11

12

13

INCH

1

2

3

4

5



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