

Job Safety Plan Energized Electrical Work Permit

Worker: User Test
Plant: NT Demo
Equipment: 7225000, Distribution Panel, 600VDC, DP2A-3304 Process Filters, Bldg1; Floor 3
Task: Breaker Installation-Replacement – Panelboards
Work Order Number: WO-123

Work Energized: Yes

Justification to work Energized: Hazardous materials ventilation system cannot be de-energized.

Shock Risk Assessment

Identify Shock Hazard 600VDC
Direct Contact

Shock Risk Assessment Matrix

Likelihood of occurrence of injury	Severity	
	Voltage ≤ 30.0 V	Voltage > 30.0 V
Improbable	Low	Low
Possible	Low	High

Is safety risk present? Yes

Hierarchy of Risk Control

Elimination No
 Substitution No
 Engineering Controls No
 Administrative Controls No
 Personal Protective Equipment Yes

Limit of Approach
 Limited Approach Boundary: 1.0 m (3 ft 6 in)
 Restricted Approach Boundary: 0.3 m (1 ft 0 in)

Necessary shock PPE to safely perform the assigned task
 Class of Gloves: Class 00 (Beige)

Arc Flash Risk Assessment

Identify Arc Flash Hazard Shock and Arc Flash Label: Yes

Arc Flash Hazard Information

Incident energy (cal/cm²): 1 cal/cm²
 At working distance of (in): 4
 Flash Protection Boundary (in): 15
 Available Fault Current (kA): 25
 Circuit Isolation Device:
 Circuit Protective Device: Field Verify
 OCD Clearing Time/Arc Duration (s): 0.03
 AF Analysis date: July 08, 2019

Arc Flash Risk Assessment Matrix

Likelihood of occurrence of injury	Severity	
	Energy ≤ 1.2 cal/cm ²	Energy > 1.2 cal/cm ²
Improbable	Low	Low
Possible	Low	High

Is safety risk present? Yes

Hierarchy of Risk Control

Elimination No
 Substitution No
 Engineering Controls No
 Administrative Controls No

Personal Protective Equipment Yes

Arc Flash Risk Assessment Result

Incident Energy (cal/cm2): 1
Working Distance (in): 4
Arc Flash Boundary (in): 15

Required Arc Flash PPE

- Arc-rated clothing with an arc rating equal to or greater than the estimated incident energy
- Long-sleeve shirt and pants or coverall or arc flash suit (Selection of one in group is required)
- Arc-rated faceshield and arc-rated balaclava or arc flash suit hood (Selection of one in group is required)
- Arc-rated outerwear (e.g., jacket, parka, rainwear, hard hat liner) (As needed)
- Heavy duty leather gloves, arc-rated gloves or rubber insulating gloves with leather protectors (Selection of one in group is required)
- Class G or E hard hat
- Safety glasses or safety goggles (Selection of one in group is required)
- Hearing protection
- Leather footwear

Hazards and Mitigators

Equipment-related Hazard	Hazard: Open hole next work work space	Risk Assessment / Hierarchy of Methods: Barricaded and tagged hole
Non Electrical Hazard	-	
Special Precautions	-	
Task Name	Breaker Installation-Replacement – Panelboards	
Means employed to restrict the access of unqualified persons to the work area	Yes	
Agree this task can be completed safely	Yes	
Job Briefing is complete including discussion of any job related hazards	Yes	
Hazard/Mitigator acknowledged	Yes	
A documented job procedure is available to complete this task	Yes	

JSP Sign Off

JSP Number 69034

Worker Signature



JSP Submitted by: User Test
Submitted date: January 17, 2023 06:18 PM
JSP email recipient: support@eworksafe.ca

Supervisor Signature



JSP Approved by: Supervisor Test
Approved date: January 17, 2023 01:19 PM
JSP email recipient: support@eworksafe.ca