ARC FLASH PPE GUIDANCE
INCIDENT ENERGY ANALYSIS METHOD Based on NFPA 70E Table 130.5(G)

calories/cm²

Protective Clothing and PPE

<1.2

There is no requirement to provide the employee with <u>Arc Flash Protection</u> when the incident energy is estimated to be below 1.2 cal/cm² since the expected injury from an incident will be survivable and nonpermanent. However, it is not prohibited to provide protection for the employee at this level.

For Shock Protection
- ✓ Rubber insulating gloves with leather protectors when inside the Restricted Approach Boundary.

>1.2 to ≤ 12

Arc Rating equal to or greater than the estimated incident energy

- ✓ Arc rated long sleeve shirt and pants <u>or</u> arc rated coverall <u>or</u> arc flash suit
- ✓ Arc rated face shield and balaclava <u>or</u> arc flash suit hood
- ✓ Hard hat with arc rated hard hat liner (as needed)
- ✓ Safety glasses or safety goggles
- ✓ Hearing protection
- ✓ Rubber insulating gloves with leather protectors
- ✓ Leather footwear

>12

Arc Rating equal to or greater than the estimated incident energy

- ✓ Arc rated long sleeve shirt and pants <u>or</u> arc rated coverall <u>or</u> arc flash suit
- ✓ Arc rated arc flash suit hood
- ✓ Hard hat with arc rated hard hat liner (as needed)
- ✓ Safety glasses or safety goggles
- ✓ Hearing protection
- ✓ Rubber insulating gloves with leather protectors
- ✓ Leather footwear

Note: This chart is designed to illustrate the PPE requirements for protection against arc flash hazards. Electrical shock can still occur even when the risk of an arc flash event is low. Shock protection in the form of voltage rated gloves and insulated equipment should be utilized when the voltage is >50 volts regardless of the incident energy and arc flash risk.

Disclaimer: This guide is for reference purposes and is not meant to replace any standard, regulation or electrical safety program principle. Reference NFPA 70E 2021 for full guidance on protective clothing and equipment.

⚠ **WARNING**

Arc Flash and Shock Hazard
Appropriate PPE Required

2' - 0"	Flash Hazard Boundary
2.3	cal/cm2 Flash Hazard at 18 Inches
0.48	kV Shock Hazard when cover is removed
3' - 6"	Limited Approach
1' - 0"	Restricted Approach - Class 00 Voltage Gloves

Equipment Name: PNL-3   (Fed by: BL-2)

Bobby Lindsey
(502) 836-4217
blindsey@mitchellandlindsey.com

Mitchell & Lindsey, LLC
800-674-7953

Mark Mitchell
(502) 682-8491
mmitchell@mitchellandlindsey.com