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TOTAL ARC FLASH SOLUTION

- ✧ OVER 20 YEARS OF EXPERIENCE IN PERFORMING ARC FLASH ANALYSIS, DIAGNOSING TECHNICAL ISSUES, AND IMPLEMENTING SOLUTIONS
- ✧ CREATION OF CUSTOMIZED ARC FLASH LABELS THAT EXCEED NFPA 70E REQUIREMENTS
- ✧ COMPLETE ARC FLASH ANALYSIS USING THE LATEST INDUSTRY ACCEPTED SOFTWARE (ETAP OR SKM)
- ✧ IDENTIFY AND PROVIDE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE)
- ✧ CUSTOMIZED LABELS IN A VARIETY OF MATERIALS SUITABLE FOR HIGH TEMPERATURE, CORROSIVE OR HIGH UV ENVIRONMENTS
- ✧ UPDATE EXISTING FACILITY DOCUMENTATION
- ✧ ON-SITE CUSTOMIZED NFPA 70E TRAINING BY INSTRUCTORS QUALIFIED BY THE NFPA AS CERTIFIED ELECTRICAL SAFETY COMPLIANCE PROFESSIONALS (CESCP)
- ✧ CREATION OF CUSTOMIZED SAFETY PROCEDURES SUCH AS LOCK-OUT TAG-OUT AND SAFETY ASSESSMENTS
- ✧ TEAM OF PROFESSIONALLY LICENSED ELECTRICAL ENGINEERS PERFORM THE ANALYSIS AND ARE AVAILABLE TO CONDUCT FIELD INSPECTIONS AND ASSESSMENTS



WARNING
Arc Flash and Shock Hazard
Appropriate PPE Required

4.3 Minimum System Voltage: 4 to 48 kV
Arc Flash Boundary: 12 ft. or less
Limited Approach Boundary: 30 ft.
Restricted Approach Boundary: 35 ft.

1000 Volts All Rated Using Safety Shield & Helm, or equivalent, on both face & back. All rated using safety shield, or full hood, heavy duty leather gloves, or All Rated heavy-duty leather gloves shield or equal for limited approach work.

2500 Volts Full face hood, safety glasses, voltage rated tools

5000 Volts Full face, safety glasses, or Level Hearing Protection, leather footwear.

Please refer to Article 130 for PPE details.

Equipments: 1000 Volts
Circuit Breakers: 2500 Volts
Reference: IEEE 1582, IEC 61850-2, IEEE 61001-2014
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BENEFITS OF ARC FLASH ANALYSIS

- Compliance with Federal and State regulations
- Adherence to industry standards
- Meets insurance requirements
- Enhances workplace safety and educates employees
- Identifies and corrects safety issues and prioritizes upgrades
- Optimizes electrical protection and operation
- Documents your electrical system
- Avoids fines and operational downtime

REGULATIONS • STANDARDS COMPLIANCE DIRECTIVES

- IEEE 1584 – Guide for Performing Arc Flash Hazard Calculations
- NFPA 70E – Electrical Safety in the Workplace
- NFPA 70 110.16 (National Electrical Code) – Arc Flash Hazard Warning
- OSHA Part 1910.132.(d)(1) – “The employer shall assess the workplace to determine if hazards are present ...”
- OSHA Part 1910.132.(d)(1)(i) – Select, and have each affected employee use, the types of PPE that will protect the affected employee ...”
- OSHA Part 1910.132.(d)(2) – “The employer shall verify that the required workplace hazard assessment has been performed ...”
- OSHA Part 1910.335.(1)(i) – Employees working in areas where there are potential electrical hazards shall be provided with ...”



20+ Years of Arc Flash Analysis Experience

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WARNING

**Arc Flash and Shock Hazard
Appropriate PPE Required**

4.3	Nominal System Voltage: 4.16 kV
Cal/cm ² @ 36"	Arc Flash Boundary: 135 in.
(Incident Energy)	Limited Approach Boundary: 60 in.
	Restricted Approach Boundary: 26 in.

Arc Flash PPE: Arc Rated: Long-Sleeve Shirt & Pants, or Coverall, or Suit; Face Shield & Bataclava, or Suit Hood, Heavy-Duty Leather Gloves, or Arc-Rated Gloves (Rating must be greater than or equal to listed Incident Energy)
Shock PPE: Class 1 or Higher Voltage Gloves, Voltage Rated Tools
Other PPE: Hard Hat, Safety Glasses, In Canal Hearing Protection, Leather Footwear

Always refer to NFPA 70E for PPE details

Equipment Name: LAPD-SWG-1
 Lockout Device: SWYD BKR 115-1 & 2; 1010-S2-1
 Reference: IEEE 1584 (2002) & NFPA 70E (2010)
 Date: Feb-12-2019

**NFPA
70E
STANDARD**
for Electrical
Safety in the
Workplace