

Arc Flash Hazard Safety

- *Keeps you compliant with industry and regulatory safety requirements*
- *Increase safety for those working on energized equipment*
- *Contributes to performing a complete preventive maintenance plan*
- *Helps to protect the critical power system in your facility*



3' - 4"	Flash Hazard Boundary
4.9	cal/cm ² Flash Hazard at 18 Inches
#2	PPE Level
	Cotton underwear plus FR shirt and FR pants
0.48	kV Shock Hazard when cover is removed
3' - 6"	Limited Approach
1' - 0"	Restricted Approach - Class 00 Voltage Gloves
0' - 1"	Prohibited Approach - Class 00 Voltage Gloves
Equipment Name SWG-2A	
IEEE 1584 Hazards; Project 1289A -- Safety Procedure #A6D24 -- EasyPower File: "Plant-A6.dez" -- Date: September 9, 2003	

The infamous electrical hazards known as arc flash and arc blast have proven to be able to cause serious or catastrophic injury and death to electrical workers. The difficult task of keeping these vulnerable workers safe while working on energized equipment is one that requires expertise and a keen understanding of arc flash safety requirements. There are resources that

offer industry standards and recommended practice, however putting these into an effective plan of protective action in your facility requires the help of a professional firm like McPhee Electric that understands the entire process.

An arc flash hazard analysis of your electrical

Service Profile

distribution system performed by McPhee Electric can provide a complete plan of action to protect everyone from injury by an arc flash or arc blast. McPhee can survey your system, perform the arc flash calculations, label all your equipment according to regulatory compliance, provide you direction in selecting the right personal protective equipment (PPE), and support it all with on-site safety training so

your workers understand the information and dangers that are identified on the arc flash hazard labels. McPhee will help you to provide increased worker safety as well as regulatory compliance. Reduce your risk and exposure to arc flash incident consequences by contacting McPhee to discuss how we can get you started.

Arc flash analysis options – choose one or all of them to customize your analysis

- ✓ Site review to update your most recent one line electrical drawing.
- ✓ On-site information gathering and data collection and perform calculations using state of the art software.
- ✓ Design review to identify areas where arc flash hazard levels could be reduced.
- ✓ Produce arc flash hazard labels according to NEC 110.16 requirements.
- ✓ Short circuit and coordination study.
- ✓ Arc flash safety training program to provide workers with understanding of hazard warning information.
- ✓ Personal protective equipment plan
- ✓ Annual re-certification in the event of modifications or expansions of your electrical system or any additional regulatory arc flash safety requirements.
- ✓ Professional documentation for compliance with OSHA and NFPA requirements. A report of findings, proper labeling of equipment hazards, updated one line drawing, and documented safety training completion are all part of the documentation services we offer. Hard copy, CD, or secure and accessible network server storage is available for documentation.

As professionals in facilities that can be dangerous at times, McPhee is forever diligent when it comes to worker safety and opportunity cost of damaged facilities. **NFPA-70E** guidelines provide good emphasis and awareness of arc flash safety procedures in an effort to insure none of us ever has to make that call to a hospital or worst yet to the family of a co-worker. McPhee will help you understand these guidelines in order to be in OSHA compliance when it comes to Arc Flash Safety.

Momentum is building as facility and property managers get up to speed on **NFPA-70E** and the

availability of this type of analysis. Strides are being made – it's just one of those key facility practices – *staying diligent on safety related risks* – where falling behind is 'not an option' given the potentially extraordinary cost of life and property.

Whether you are looking to establish a complete arc flash hazard awareness and prevention program or enhance an existing one with some further steps, McPhee can provide you a solution. Give us a call and we can be your source of expert knowledge and experience and help make your facility more compliant in worker safety.