


ARC FLASH HAZARD ANALYSIS

SPEELMAN ELECTRIC, INC.

What is arc flash?

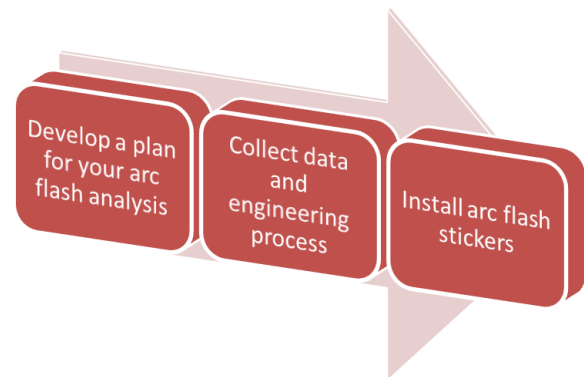
Arc flash is a violent and deadly condition that occurs when electric current leaves its intended path as a result of a short circuit or ground fault, then travels through the air and references to a ground or another phase. Many things can cause arc flash and leave a protected person severely injured or dead.

 WARNING	
Arc Flash and Shock Hazard	
Appropriate PPE Required	
89 inch	Flash Hazard Boundary
16.4	cal/cm ² Flash Hazard at 18 inches
Class 3	Cotton Underwear + FR Shirt & Pant + FR Coverall
480 VAC	Shock Hazard when cover is removed
00	Glove Class
42 inch	Limited Approach (Fixed Circuit)
12 inch	Restricted Approach
1 inch	Prohibited Approach
Bus: C-H Prot: MCB C-H	

What causes arc flash?

Some causes of arc flash are:

- A tool dropping inside of live electrical gear
- Lack of or improper maintenance of electrical gear
- Unqualified installation of electrical gear
- Moisture, corrosion, or dust



Why perform an arc flash analysis of your facility?

There are many reasons to perform an arc flash analysis:

- OSHA is starting to mandate that all buildings are compliant with arc flash analysis. This comes with strict penalties and hefty fines for non-compliance
- Many insurance companies are mandating the use of arc flash stickers on all electrical equipment operating over 50 volts
- Avoid raised insurance rates from accidents

Speelman Electric, Inc. takes pride in offering our customers this cutting edge service. We work closely with a respected electrical engineering firm to give you a complete and accurate analysis of your electrical distribution system.

Becoming OSHA Compliant

Speelman Electric, Inc. will help you take the trouble out of the arc flash analysis process. Our trained staff of qualified electricians will help you create a safer workplace, ultimately saving you the risk of costly fines and having the peace of mind that all maintenance personnel will be able to clearly identify required PPE to enter electrical equipment safely.