

Right Electric, Inc.

317 Meridian Rd, Butler, Pennsylvania 16001 724/482-2181

Your full Service Electrical Contractor from installation to training!

Arc Flash Analysis

2005 Code Change

Article 110.16 - Switchboards, panelboards, motor control centers, etc. that may require adjustments, examination, service or maintenance while energized shall be field marked to warn of potential arc flash hazard. NFPA 70E provides assistance in determining the severity of the potential exposure, planning for safe work, and selection of Personal Protection Equipment.



What is an Arc Flash?

An Arc Flash occurs when an electrical current passes through the air between ungrounded or grounded conductors. Temperatures can reach 35,000° F. Exposure to these temperatures can burn the skin and ignite clothing. More than 2,000 people are treated for burns annually. An arc flash can be fatal at distances of up to 10 feet.

Causes of an Arc Flash

Faulty equipment, dropped tools, accidental contact between energized parts, buildup of dust.

Why Label?

- N.E.C. Article 110.16 requires
- Reduces Injuries
- Provides safer working environment
- Reduces liability
- Complys with regulations

References:

OHSA 29 CFR 1910
NEC Article 110.16
NFPA 70E Standard

NFPA 70E Standard for Electrical Safety in the Workplace

- Requires a company to determine the qualified persons to work on energized equipment.
- Requires an “Arc Flash Hazard Analysis” to determine the available energy (130.3)
- Requires an “Energized Work Permit” in some cases (130.1.A)



*“Do it **RIGHT** The First Time”*

Our Services for Arc Flash:

Right Electric in conjunction with a licensed professional engineering staff can perform an Arc Flash Analysis (as required by NFPA 70E 130.3) of your electrical system and provide you with required labeling. In addition to the analysis we can provide the following:

- Placement of Labels
- CD copies of the results
- Training for qualified persons on reading & understanding the Arc Flash Labels
- Training on NFPA 70E and the selection of Personal Protective Equipment for Energized work
- Procedures for Energized Work
- Copies of NFPA 70E – “Standard for Electrical Safety in the Workplace”

Additional Services:

We also offer the following services and will tailor them to your specific needs:

- Training for NFPA 70E Standard
- Personal Protective Equipment purchasing, testing & stamping as required by OSHA 1910.137
- Building Ground Electrode Testing using Fall of Potential Method (IEEE sect. 9)
- Panel Manager – re-listing and updating panel schedules for your facility (provided on CD)

Why Right Electric?

We have the qualified people to collect the required information safely, provide and explain the information gathered, and provide pricing for any corrections and repairs required.

Please contact us for further details:

Jim Leary jimleary@rightelectric.com
Travis Saeler travissaeler@rightelectric.com



www.rightelectric.com