

HOW SAFE IS YOUR ELECTRICAL SYSTEM?



ED11

MILLER ELECTRIC COMPANY
Powering the Possibilities



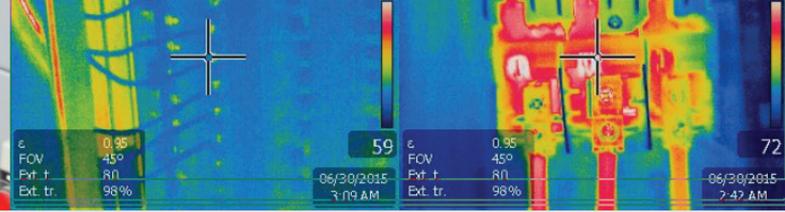
WHY WE DO IT

Every year over 2,000 people are admitted into burn centers with severe electrical injuries from arc flash incidents. At Miller Electric Company, we are committed to make a difference and to do all we can to decrease this unacceptable statistic. We believe that by delivering the best in class design, coordination, and maintenance we can reduce the probability of an arc flash. This will lead to:

- Increased uptime
- OSHA and regulatory compliance
- Everyone going home at the end of the day



MILLER ELECTRIC COMPANY: ARC FLASH & SAFETY



COST OF AN ARC FLASH

EVERY DAY in America there are an average of:

- Over 5 arc explosions in equipment
- 6 workers who are admitted into burn centers with severe burns from arc flash incidents
- Up to 2 worker deaths related to arc flash incidents

While the lives of our co-workers are priceless, the monetary cost of an arc flash can be as high as \$15,000,000 for direct and indirect costs.

IMPACT TO BUSINESS

- Extensive Medical Treatment
- Litigation Fees and Court Costs
- Insurance Premium Increases
- OSHA Fines and Citations
- Investigation Costs
- Extensive Down Time
- Loss of Production
- Loss of Customers
- Reputation Impacts
- Costly Replacement and Repair



HOW WE DO IT



Arc Flash Risk Assessments



Preventive Maintenance Program



Electrical Design and Methods Review



Protective Device Coordination Study



NFPA 70E Training



WHAT IS AN ARC FLASH?

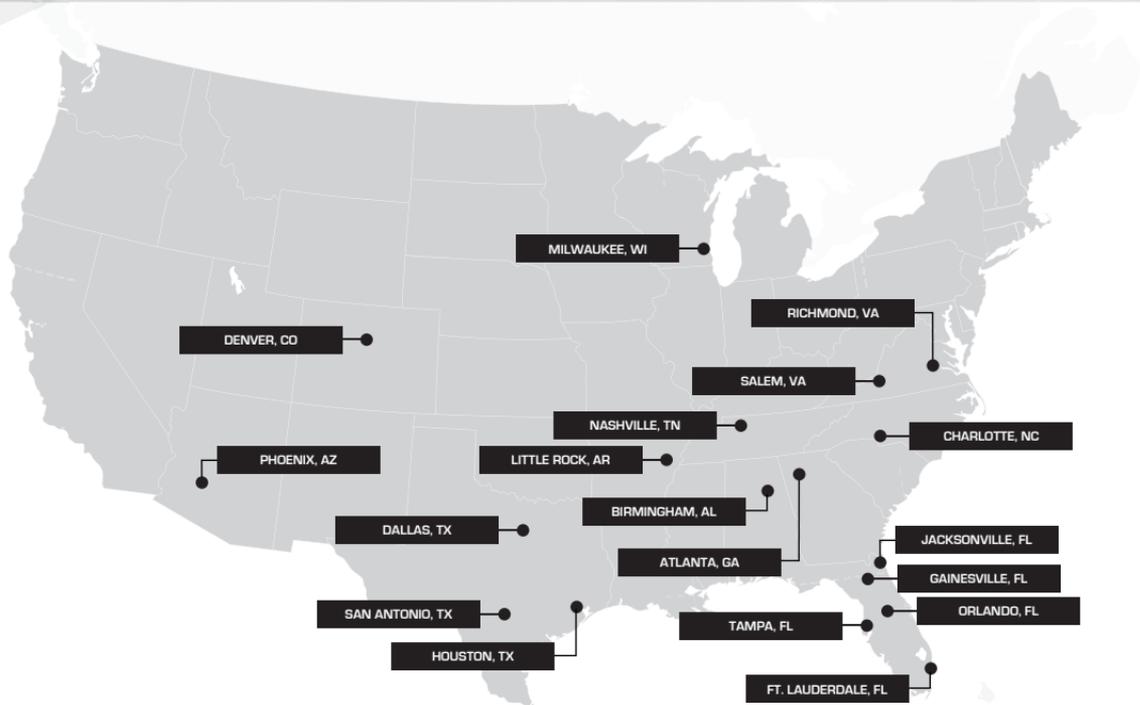
Basically, it's an electrical explosion. During an arc flash, energy is released rapidly due to unexpected arcing between electrical circuits, parts, components or other items. Temperatures in an arc flash can exceed **35,000°F**, and metal conductors vaporize creating an extremely violent blast. While circuit breakers can mitigate the risk of arc flash, they do not always prevent them because the fault current may be lower than the rating of the circuit breaker. The resistance causes the current to remain low while energy builds up to an explosion that is the arc flash.

An arc flash can be caused by a tool, rodent or any other element that could compromise the distance between energized components. Incidents often occur when personnel fails to ensure that the equipment has been properly de-energized.

An arc flash can cause third degree burns and potential death, as well as other injuries including blindness, hearing loss, nerve damage, and cardiac arrest.



MILLER LOCATIONS



1.800.554.4761 | WWW.MECOJAX.COM