

10 → ASTONISHING AMAZING FACTS ABOUT ARC FLASH



An Arc Flash is an energy discharge that forms when a fault occurs in an electrical circuit. The arcing fault results in a tremendous amount of energy released as current flowing through ionized air. It is not necessary to touch live components to sustain an arc flash injury. Arc Flash is NOT SHOCK.

1

5 to 10

ARC EXPLOSIONS occur in electric equipment in the U.S.

EVERY DAY.



2



More than

20000

people

are treated **ANNUALLY** in **BURN CENTERS** with **ARC FLASH INJURIES.**



3

ARC FLASH causes numerous

DEATHS

each year. *

* The actual number of deaths due to arc flash is not reported well. What IS known, is that deaths from Arc Flash incident have been steadily on the decline due to safety training, regulations, PPE and **PROPER LABELING** of equipment.

4

Electrical arcs produce some of the **HIGHEST TEMPERATURES**

known to occur on **EARTH.** Up to

35,000°F

which is **4X**

the temperature of the **SURFACE OF THE SUN!**



5

All known materials are **VAPORIZED** at this temperature, which causes a

SUDDEN EXPANSION OF AIR.



Blast pressure waves have **THROWN WORKERS** across rooms.

6

Arcs spray **DROPLETS OF MOLTEN METAL** at speeds that exceed

700 MPH

BLAST SHRAPNEL CAN PENETRATE THE BODY

Molten metal from an arc can be propelled for distances up to **10 FT**

7

Even when several feet from the arc,

FATAL BURNS

can occur.



Clothing can be ignited from **10 FEET** away. Clothed areas can be burned more severely than exposed skin.

8

The arc blast can have a **SOUND MAGNITUDE**

140dB

of

at a distance of 2 feet from the arc,

resulting in **HEARING LOSS.**

What?!

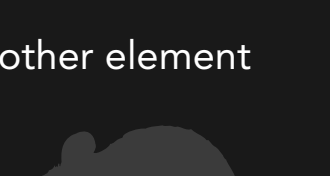
9

ARC FLASH

can be caused by something as simple as a **RODENT**, tool or other element

in the breaker area that compromises the distance between

ENERGIZED COMPONENTS.



10

2 out of 3

electrical injuries are a result of

INAPPROPRIATE ACTION

of a **WORKER.**



As your **ARC FLASH LABELING EXPERTS**, we have all the tools you need to properly label equipment for Arc Flash Hazard. We also carry Lockout/Tagout products and PPE. Take the proper precautions, be standards compliant, and reduce the risks of injury and death. We are the leaders in visual safety!

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Sources: NFPA 70E - 2012 Edition, Rockwell Automation (www.rockwellautomation.com), Falcon Engineering Consultants (www.falconengr.com)