

## *Jaker Industries, Inc*

Jaker Industries, Inc key personnel have many years of experience as consultants in the analysis of electrical, mechanical and process systems for industrial facilities.

Jaker Industries, Inc is experienced with facilities and operations, including integration and evaluation of electrical power distribution systems for industrial operations and facilities.

Jaker Industries, Inc also works with some of the largest energy companies in the US to develop onsite power generation projects. Jaker's team quickly and accurately evaluates your facility maintenance and operational requirements for electrical safety.

Jaker Industries, Inc is a professional firm with a team that prides itself in identifying all of the applicable technological, operational and economic issues for our clients to provide the best solutions for their enterprise.

## *Jaker Industries, Inc*

209 N. Main Street, Suite 7  
Horseheads, NY 14845

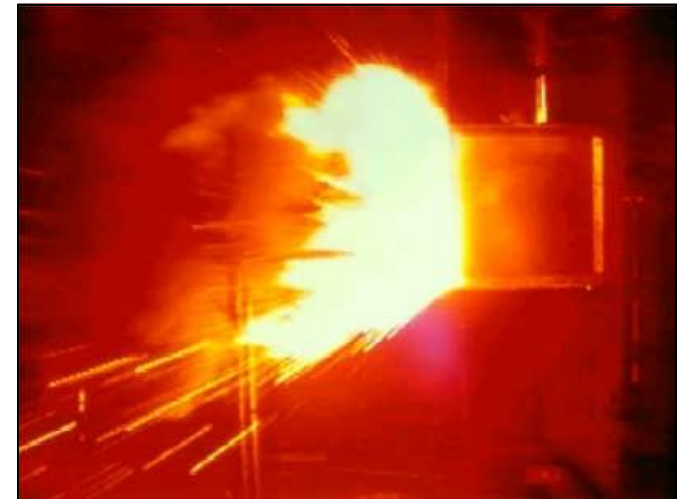
E-mail: [solutions@jakerengineering.com](mailto:solutions@jakerengineering.com)

Phone: 607-739-8003 Fax: 607-739-8347

*JAKER INDUSTRIES, INC*

# Arc Flash Training

Harden Your Facility Against Shock Hazard



## One-Day Seminar

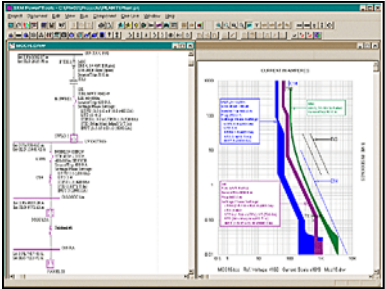
Employees that work on, or near, energized electrical equipment are exposed to faults with enough energy to burn and start deadly fires.

*JAKER INDUSTRIES, INC*

*"We Know Industry Because We Are Industry"*

# Arc Flash Compliance

How to Complete and Implement an Arc Flash Evaluation

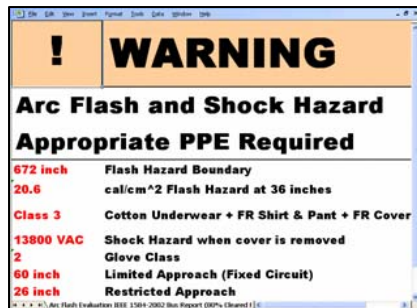


## Design Basis

In order to perform a proper Arc Flash Study, you must first analyze Short Circuit Current values, Over-Current Device coordination and perform an Arc Flash Study.

## Protective Equipment

The Arc Flash Study calculates the incident energy, boundary and level of personal protective equipment (PPE) clothing required for each accessible location in a power system.



! WARNING	
Arc Flash and Shock Hazard	
Appropriate PPE Required	
672 inch	Flash Hazard Boundary
20.6	cal/cm <sup>2</sup> Flash Hazard at 36 inches
Class 3	Cotton Underwear + FR Shirt & Pant + FR Cover
13800 VAC	Shock Hazard when cover is removed
2	Glove Class
60 inch	Limited Approach (Fixed Circuit)
26 inch	Restricted Approach

## Safety Procedures

Lockout / tagout procedures and related practices to safeguard employees from exposure to hazardous energy levels during equipment operations and service or maintenance activities.



## Training Overview:

### Program Initiation

- Collection of pertinent data.
- Identification of component lineups.
- Allowable assumptions & shortcuts
- Design Basis Document (DBD) preparation
- Operations & Maintenance (O&M) review

### Program Implementation

- Evaluating the results of the Arc Flash Study
- Systematic implementation within a facility
- Incorporate into Safety and O&M Procedures
- Evaluate effectiveness of implementation
- Identify required system & site modifications

### Program Maintenance

- Maintaining/ updating Arc Flash Study
- Establish requirements for facility changes
- Continued Personnel Training & Testing
- Maintaining DBDs and site procedures
- Reporting/ incorporating facility changes