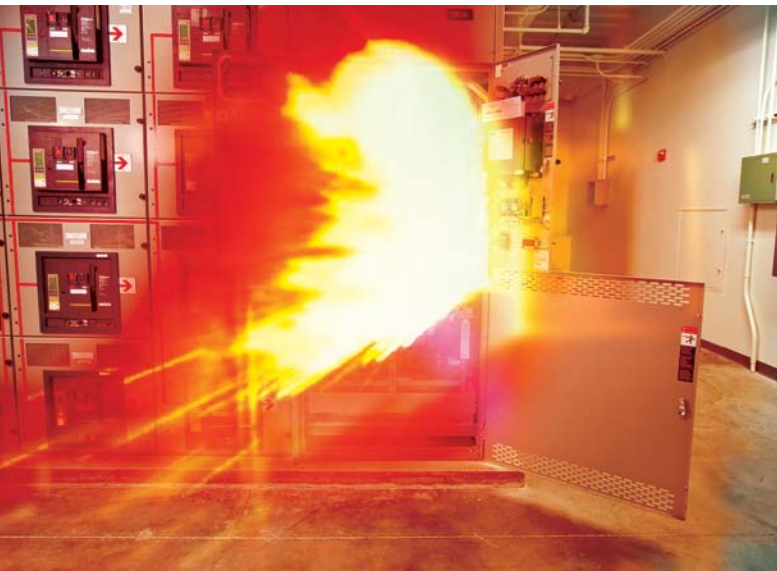


The Single Most Devastating Incident That Can Occur in Your Data Center May be an Arc Flash

Arc Flash incidents — highly concentrated radiant thermal energy resulting from an arcing fault between two points — are potentially devastating events that kill or injure between five and ten people every day. Without an up-to-date Arc Flash Study, proper labeling of electrical equipment, and customized training, your business is at risk. Arc flashes can result in harm to your employees and contractors, business disruption, costly damage to equipment and facilities, legal liability and hefty fines.



An up-to-date arc flash study is a vital part of managing the dynamic, ever-changing systems environment and protecting IT system availability in your data center.

Arc Flash Facts:

- Your company is responsible for having a safety program that ensures proper arc flash labels on electrical equipment.
- You can be held liable and/or fined if an employee or contractor is harmed in an arc flash incident at your facility.
- NFPA 70E specifies the need for Arc Flash Studies and updates in Section 130.3. OSHA strictly enforces these requirements.
- Arc flash risks can include personal injury/death, regulatory fines, equipment damage, revenue or job loss, increased insurance premiums, and personal and/or corporate litigation.
- Our Arc Flash Studies are a vital tool for identifying and mitigating potential electrical hazards when employees or contractors work on or near energized conductors or circuits. By calculating the flash protection boundary inside which workers must use appropriate Personal Protective Equipment (PPE), this study helps you comply with critical safety regulations.

Protect Your People, Facility and Business:

- Emerson engineers conduct a review of your electrical distribution system to identify areas to reduce potential arc flash hazards. Several areas are evaluated, including fault levels, exposure times, remote operations, remote racking and system grounding.
- We will conduct a comprehensive assessment of your facility to identify areas of risk and non-compliance — then formulate a plan that will bring your facility into compliance in the most efficient way possible.
- Based on the findings of the Arc Flash Study, Emerson provides PPE category requirements and recommendations.
- Our Arc Flash Training program includes arc flash awareness, standards and codes, selection and use of appropriate PPE and more.
- Optional annual re-certification is available to keep your Arc Flash Study and labels current for compliance with NFPA 70E and OSHA standards.

Rely on the Experts to Perform Arc Flash Studies

Our Arc Flash Studies are conducted by professional engineers and field technicians from Emerson's Electrical Reliability Services (ERS) group. Located throughout the United States, ERS technicians are certified by the InterNational Electrical Testing Association (NETA), ensuring ongoing education and adherence to strict standards in safety and electrical testing knowledge.

- **Expertise** — We are industry leaders in electrical testing, maintenance and engineering services. With more than 40 years in electrical testing experience and state-of-the-art tools, we deliver comprehensive arc flash solutions.
- **Comprehensive Documentation** — Emerson will provide you appropriate documentation for compliance offices, establish an arc flash hazard labeling plan that complies with the National Electrical Code (NEC), and develop a personal protective equipment plan that addresses applicable OSHA standards.
- **Resources** — ERS provides a nationwide network of NETA-certified field technicians with more than 350 engineers, PEs and field technicians in more than 30 service centers.



Proper Arc Flash labels are required on electrical equipment.

⚠ **DANGER**

QUALIFIED WORKERS ONLY
PPE REQUIRED

17	inch	Flash Hazard Boundary
1.1	cal/cm ²	Flash Hazard at 18 inches

Category 0 Long Sleeve Shirt & Pants, Safety Glasses, Hearing Protection, Leather Gloves

480	VAC	Shock hazard when cover is removed
00		Class Glove with Leather Protectors
42	inch	Limited Approach (Fixed Circuit)
12	inch	Restricted Approach
1	inch	Prohibited Approach

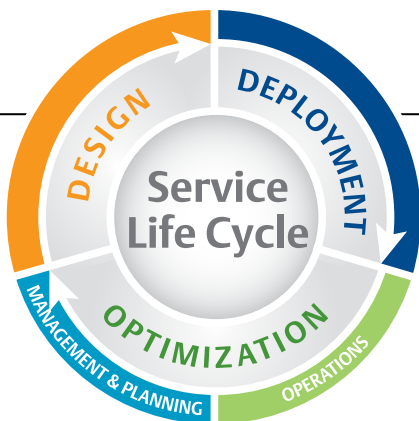
Location: **PNL 0**

EMERSON
Network Power

Electrical Reliability Services, Inc.
10606 Bloomfield Avenue
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(562) 236-9555

Job #: SAMPLE1 Prepared on: 08/03/07 By: ERS

Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements



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