



Equipment Labels and Risk Reduction Arc Flash Analysis Services

Our staff has extensive experience in electrical safety, allowing us to thoroughly evaluate electrical systems and quickly deliver comprehensive solutions. We perform detailed arc flash analyses to provide correct equipment warning labels required by code, and provide strategies to minimize energy available in an arc flash event. This decreases your risk and ensures your facility meets codes and standards regulating arc flash including OSHA Standards 29 (CFR) Part 1910, NFPA Standard 70 and NFPA 70E (NCE), and IEEE.1584.

Arc Flash Analysis Services

- Field data gathering of electrical equipment and documentation—where necessary we can upgrade your single line diagrams to reflect the latest conditions of the power distribution system.
- Analysis of field data and evaluation of the arc flash hazards using specialized software like ESA or EDSA—for each transformer, switchboard, motor control center, or panelboard, relevant arc flash data will be calculated. Arc fault magnitude, arc flash boundaries, incident energy and the category of personal protection equipment (PPE) required at each location is provided.
- Provide a comprehensive Power Study that calculates the magnitude of fault currents, voltage drops and coordination of overcurrent protection devices, in addition to identifying arc flash hazards.
- Provide warning labels indicative of hazard levels and Personal Protection Equipment (PPE) required at all equipment locations.

Additional Services

- Recommendations for removal or lowering of hazard intensities; replacing fuses, adjusting trip settings of circuit breakers and relays, and other modifications of the power distribution equipment.
- Cost estimates for implementing the recommendations listed above.



 WARNING	
Arc Flash Hazard Appropriate PPE Required	
Flash Protection Boundary _____	
Flash Hazard Category _____ Min. Arc Rating (cal/cm ²) _____	
FLASH PPE	<input type="checkbox"/> FR shirt <input type="checkbox"/> Hard hat <input type="checkbox"/> Leather gloves
<input type="checkbox"/> Cotton underwear	<input type="checkbox"/> FR pants <input type="checkbox"/> Face shield <input type="checkbox"/> Leather shoes
<input type="checkbox"/> T-shirt	<input type="checkbox"/> FR overalls <input type="checkbox"/> Ear protection <input type="checkbox"/>
<input type="checkbox"/> Long-sleeve shirt	<input type="checkbox"/> Flash suit <input type="checkbox"/> Safety glasses <input type="checkbox"/>
<input type="checkbox"/> Long pants	<input type="checkbox"/> Flash hood <input type="checkbox"/> Safety goggles <input type="checkbox"/>
Equipment ID: _____	