

## Is your Arc Flash Risk Analysis adding to confusion or improving employee safety?

As a world-wide leader in Electrical Infrared Inspections, our thermographers inspect thousands of facilities each year. Their safety is paramount and we train each of our field resources in safe work practices, electrical safety, NFPA 70E and OSHA requirements. Each are outfitted with the proper equipment and personal protective equipment required to perform a high quality, safe infrared inspection.

We are frequently challenged within facilities we serve whereby an Arc Flash Hazard Analysis has either not been performed or a study that was performed, does not provide clear and specific guidance on the labels placed upon each electrical asset. Unclear information or confusing label placements can lead to confused workers which could jeopardize the enhanced safety the analysis was supposed to provide.





Some of the issues found our resources have found in the field include:

- Undefined boundaries
- Undefined PPE classifications
- Multiple labels on a single asset (example above)
- Non-compliant, missing or damaged labels (non-compliant example below)



Every day, electrical personnel make decisions based upon the information provided on these labels. If the information lacks the required details or places doubt or confusion in the worker's mind, poor decisions may be the net result. Those decisions could be as impactful as not performing the work or worst yet, unknowingly exposing the personnel to potentially hazardous situations greater than expected.

It is critical that the results of any Arc Flash Hazard analysis are fully understood by the facility's personnel, clearly reported and the corresponding equipment labels are provided that clearly define the asset, the boundaries, the PPE classification and risk. (see example below)

 <b>WARNING</b>		
<b>Arc Flash and Shock Hazard Appropriate PPE Required</b>		
<b>4</b> Cal/cm²@18" (Incident Energy)	Nominal System Voltage	<b>208V</b>
	Arc Flash Boundary	<b>7"</b>
	Limited Approach Boundary	<b>42"</b>
	Restricted Approach Boundary	<b>12"</b>
<b>AF PPE:</b> Arc-Rated: Shirt, Pants, or Coverall, Face Shield (Rating must be greater than or equal to listed Incident Energy)		
<b>Shock PPE:</b> Class 00 or Higher Voltage Gloves, Voltage Rated Tools		
<b>Other PPE:</b> Hard Hat, Safety Glasses, In Canal Hearing Protection, Leather Gloves, Leather Footwear		
<b>Equipment Bus:</b> ELEVATOR PNL		<b>PH/FX:</b> 866.772.6770
<b>Lockout Device:</b> MDP 5		<b>predictiveservice.com</b>
<b>Date:</b> 12/13/16		<b>Reference:</b> IEEE Std. 1584
		

Our experts suggest performing an Arc Flash Hazard Analysis if any of the following conditions apply:

- No arc flash analysis has been performed
- Any doubt of the validity of the past arc flash analysis results
- Partial or incomplete labels, that do not clearly detail the boundaries and PPE classification
- Labels placement or information that adds to worker confusion
- Analysis performed greater than five years ago
- Analysis performed prior to any major upgrade, retrofits and replacements to the electrical system or service.

To learn more about Predictive Service's Arc Flash Hazard Analysis service or NFPA 70E safety training, please contact [info@predictiveservice.com](mailto:info@predictiveservice.com).