

Arc Flash Advisors agrees to furnish an Infrared Inspection of the main electrical system.

Arc Flash Advisors was founded by a group of passionate electrical engineers, licensed electricians, and certified thermographers from various electrical power industries, who perform electrical power systems analysis, preventative maintenance, inspection, testing and commissioning services and have incorporated the best practices from various industries into the Arc Flash Advisors process.

References:

- ASNT-SNT-TC-1A recommendations for thermal/infrared testing, as established by the American Society for Non-Destructive Testing (ASNT)
- Section 02 27 23 National Master Specification (NMS) - Thermographic Assessment - Electrical Systems

Before arrival the client should insure:

All electrical equipment is operating under normal load, keys for panels, rooms and access ways are available. Ladders, lifts and booms are available or if not notify AFA before the work starts, and one escort is available to assist in the event of problems.

Deliverables

- Thermal imaging scans of all electrical equipment/panels, equipment as outlined
- Thermal imaging report with recommendations to resolve any anomalies identified
- Reports to include digital images, thermal images and recommendations
- Equipment Scanned Checklist (Excel)



DATA COLLECTION PHASE AND INSPECTION:



The AFA crew will open all accessible panels for inspection, record and document all visual and thermal anomalies including; electrical hot spots, overloaded cables, overheating fuses, overheating breakers, and improper wiring.



Equipment

- Flir T400 Camera (320 x 240) resolution, temperature range (-20°C to +1200°C)
- Therma CAM Reporter 9.1 Professional
- Electrical Equipment and Tools
- Arc Flash Personal Protective Equipment

Advanced Technology

AFA uses the latest, leading edge infrared technology from Flir Systems to provide integrated capture reporting and repository solutions. Our infrared inspections are performed using state-of-the-art, fully-radiometric, thermal imaging cameras with minimum of 320 x 240 resolution, which provides superior imaging quality and accurate evaluation of your thermal situations.