



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.

#### Visual inspection

- Loose connections
- Damaged Equipment
- Equipment Ratings
- Voltage and Current measurements

#### Infrared inspection

- Overheating components
- Equipment hot spots
- Corroded connections
- Damage insulation
- Loose connection
- Partially blown fuses
- Arcing and Insulation tracking

#### System Review

- Review breaker logs/trip indicators
- Analyse the design verses anticipated load
- Review equipment ratings anticipated short currents



#### References:

- Ontario Electrical Safety Code (OESC)

#### Deliverables

- Visual and Infrared scan report including recommendations
- Repair minor deficiencies if possible
- Optional – Multi-day power systems monitor report
- Optional – quote to affect repairs

#### Introduction and Executive Summary

Arc-Flash Advisors Ltd. is please to submit a proposal for performing electrical system diagnostic.

#### ENERGIZED INSPECTION:

- Open the electrical panels and measure voltages and currents to insure proper operation.
- Conduct a visual inspection of all accessible components
- Infrared scan to detect system anomalies

#### DE-ENERGIZED INSPECTION:

- Conduct a visual inspection of all components
- Megger Testing of Insulation of cables and breakers

#### MULTI-DAY POWER SYSTEM MONITOR

- Attach a power monitor to the system for multiple day measurement
- Attach a harmonic monitor to measure line and ground harmonics
- Attach a power factor monitor to measure power factor