



arc flash advisors

About Us



**Call today to speak
to an Arc Flash
Advisors specialist!**

**Visit our website at
arcflashadvisors.com**

We are experts in arc-flash hazard analysis, relay coordination, forensics services, electrical testing, inspection, and maintenance.

Arc Flash Advisors Ltd., a division of Gratton Infrared Services Inc. was founded by a group of passionate electrical engineers, licensed electricians, and certified thermographers. From various electrical power industries, we have been performing power systems analysis, maintenance, inspection, testing, commissioning, and forensics engineering services for the past 40 years and have incorporated the best practices from various industries into Arc Flash Advisors process.

With combined experience of over 132 years, over 360 power system studies performed, dozens of forensic expert witness testimony appearances, and over 130 years experience in maintenance, inspection, testing and commissioning field services, you can rest assured that your facility is in expert hands with Arc Flash Advisors.

Specializing in engineering services, arc flash training and equipment supply, Arc Flash Advisors offers compliant solutions for arc flash protection!

- Complete engineering services in accordance with NFPA 70E/CSA Z462-08 and IEEE 1584
- Complete site assessment and data collection
- Short circuit and protective device coordination studies, and arc flash risk assessment
- Labelling strategy for all electrical operating devices in accordance with NFPA 70E/CSA Z462-08
- Full line of leading personal protective equipment products
- Comprehensive arc flash training programs

Are you in compliance?

The CSA Z462 has been adopted in Canada as the foremost consensus standard on electrical safety. This standard requires that an arc flash study be performed to determine the properly rated PPE equipment and work method essential for ensuring electrical safety in the workplace.

What Legislation / Standards Apply?

Canadian Electrical Code
Provincial Electrical Codes
Provincial Occupational Health and Safety Acts

Bill C-45
IEEE 1584
NFPA 70E/CSA Z462-08



Studies, Engineering, and Training

- Electrical safety training
- Systems and operational training
- Facility upgrade analysis
- Failure analysis
- Forensic analysis
- Power quality surveys
- Arc-Flash studies
- Infrared thermography
- Power quality studies
- Incident analysis
- Ground system surveys

Arc-Flash Solutions

- Complete Engineering Services
- Site Assessment and Data Collection
- Short Circuit and Protective Device
- Coordination Studies
- Labelling
- Easy-to-Read Detailed Arc Flash Study
- Reports
- Arc Flash Hazard Training
- Complete Arc Flash Equipment Supply

Commissioning Services

- Startup and commissioning
- Low, medium, and high voltage
- Coordination studies
- Commissioning plans
- Base line infrared thermography

Renewal Parts

- Low and medium voltage breaker parts
- Low and medium voltage switchgear parts
- Current transformers
- Potential transformers
- Vacuum interrupters
- Relays, meters, motor control parts

Field Services

- Electrical systems repair
- On-site switchgear repair
- Oil circuit breaker replacement
- Infrared Predictive Maintenance
- Transformer replacement
- Transformer services
- Infrared thermography
- Substation construction
- Switchgear installation
- Disaster recovery assistance
- Fault locating
- Project management
- Lighting Retrofit
- Energy Audits

Acceptance and Maintenance Testing

- Receptacle testing as per CSA Z32
- Circuit breaker testing—low, medium, and high voltage
- Doble power factor testing
- Insulation resistance testing
- High potential testing on switchgear and cables
- High current injection testing
- On-line partial discharge testing
- Relay testing and calibration
- Automatic transfer switch testing
- Transformer testing
- Ground resistance testing
- Earth ground testing
- Ground fault testing
- Partial discharge surveys
- Cable partial discharge testing
- Corona surveys
- Oil sampling and analysis
- Battery testing

Engineering Forensics

- Arc flash incident energy, degree of burn damage, PPE
- Electrical code violations
- Electrical shock—calculation of current through human body, and degree of personal trauma
- Inadvertent contact with power lines
- OSHA and OHSA violations
- Investigation of origin and cause of electrical fires caused by a variety of equipment
- Origin and cause of natural gas /propane appliances fires
- Origin and cause of plastics manufacturing fires
- Fires caused by information technology equipment and UPS
- Post-fire fire alarm system verification
- Investigation of failures in large electrical equipment (which did not cause fire in building)
- Failure investigation of motors, pumps and valves in air conditioning system

Upgrade and Life Extension Services

- Circuit breaker upgrades
- Retrofit solid state trip devices
- Vacuum interrupter retrofits and upgrades
- Trip unit upgrades
- Shop repair on all low/medium voltage breakers
- New, used, and surplus in stock equipment and parts

Transformers

- 1000–5000kva

Switchgear

- 480 volt-38kv

Circuit Breakers

- Low and medium voltage



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