CURRICULUM VITAE

Mel Gilkinson, RME

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EXPERT SUMMARY

Mr. Mel Gilkinson is a consultant with the Fire & Electrical group at 30 Forensic Engineering. Mel achieved his 309a Electrical Licence through IBEW Local 804 and his Ontario Master Electrician Licence (ME) through the Electrical Safety Authority (ESA). He has investigated hundreds of solar installations for code conformity and tested installations for faults and issues that could create future problems. Along with work in the solar industry, he has investigated electrical failures in residential, industrial, agricultural, and institutional settings. He also assisted in the development of the CSA 1000 Model Code Standard (Canadian Guideline for Field Approval of Electrical Equipment). Prior to joining 30, Mel worked in the electrical industry in multiple capacities: he completed installations of various types; worked as a provincially recognized electrical inspector and equipment approvals inspector (Canadian and American code specifications); and performed Quality Assurance and Control in the nuclear industry. Over a career spanning over 40 years, Mel has gained expansive experience performing a variety of investigations in his field.

SPECIALIZED PROFESSIONAL COMPETENCIES

Quality Control Inspections:

- Quality Assurance/Quality Control Inspections of Electrical Installations and Equipment for the Nuclear Power industry
- Equipment Approvals for CSA and UL Electrical Standards (light commercial, heavy industrial and agricultural), Canada, United States, Mexico, Japan, Germany
- Development of SPE1000 Model Code

Electrical Inspections / Installations:

- CSA Part 1 Electrical Installation Inspections
- Residential, Commercial, Heavy Industrial, Agricultural Electrical Installations

PROFESSIONAL LICENSING AND CERTIFICATIONS

Licensed Master Electrician, 2014

Electrical Quality Assurance and Quality Control (Nuclear Power Industry), Bruce Power, 2008

Electrical Approvals Inspector (CSA/UL requirements), Ontario Hydro, 1990

Provincial Journeyman Electrical Inspector, Ontario Hydro, 1989

Interprovincial Certificate of Qualification 309a, 1978

ADDITIONAL COURSES

- Multiple Electrical Safety Code Updates CSA and NEC, Ontario Hydro and IBEW, 1975 – Present
- Working at Heights
- First Aid, CPR
- WHMIS
- Environmental Awareness
- Rigging, Lifting and Material Handling
- Fall Protection
- Lock out – Tag out Procedures
- Electrical Safety Awareness
- Asbestos Awareness
- Elevating Work Platforms
- Confined Spaces
- CSA SPE1000 Model Code
- Fault Current
- Arc Flash
- IR Photography

EMPLOYMENT BACKGROUND

30 Forensic Engineering

Consultant, Fire & Electrical
2020 – Present, Toronto, ON

- Performed electrical fault and failure investigations
- Conducted installation commissioning
- Analysis of electrical installations to Part 1 Canadian Electrical Code

Electrical Specialist, Renewable Energy
2012 – 2020, Toronto, ON

ES Fox Ltd.

Quality Assurance Specialist
QA/QC at the Bruce Power Nuclear Facility Restart, Units Number 3 & 4
2008 – 2012, Tiverton, ON

- Performed Quality Control and Quality Assurance for high voltage, distribution and industrial control equipment
- Carried out witness inspections at multiple North American locations

Electrical Approvals/Field Inspector

Representing Ontario Hydro, Entela and QPS
1986 – 2008

- Evaluated multiple types of electrical equipment for compliance of applicable standards for major corporations including; Aecon Industrial, Ainsworth Electric, Bruce Power, Cami Automotive, Eaton Electric, ES Fox Ltd., General Electric, General Motors, KBA North America, Linamar, Research in Motion, Siemens PTD, Siemens Mexico, State Electric and Toyota North America (and its multiple subsidiaries)