

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

PAUL L. FONTAINE, P.E.
Electrical Engineer

PROFESSIONAL EXPERIENCE

1999 to **Robson Forensic, Inc.**

present *Associate*

Provide assistance for electrically related accidents, defects, and failures. Areas of work include: electrocutions, electrical design and construction, electrical fires, electrical control of devices and products, and electrical power systems.

2001 to **United Illuminating Company, Shelton, CT**

present *Principal Engineer, Technical Services Department*

Develop and publish construction standards and material specifications for both overhead and underground electrical power systems. Write material specifications for control and power cables through 15,000 volts, protective devices, transformers, switchgear, and insulating fluids. Design and promulgate caution, warning, and danger signs in accordance with ANSI, OSHA, NESC, and applicable state codes and regulations. Select suppliers of material, including plant visits and audits, for conformance to published quality assurance standards. Select suppliers of Material, including plant visits and audits, for conformance to published quality assurance standards. Perform analysis of faulted cables, splices and connectors.

1980 to **Northeast Utilities, Berlin, CT**

2001 *Senior Engineer*

Distribution Material & Construction Standards Department; Publish Design & Application Standards, Construction Standards and Material Specifications for electrical power systems for use by the Connecticut Light & Power, Western Massachusetts Electric and Public Service of New Hampshire Companies in providing service to their 1.8 million customers. Northeast Utilities is a subsidiary of Consolidated Edison of New York; the largest utility in the nation with over six million electric and gas customers. Specify switchgear, control and power cables through 35,000 volts, enclosures and structures, protective devices, electrical transformers, insulating fluids. Design and promulgate caution, warning and danger signs. Select suppliers of material; including plant visits and audits. Audit newly constructed, or renovated, distribution projects. Instruct engineers, technicians and linemen in design and operating procedures. Design methodologies of constructing and operating electrical power distribution systems. Analysis of equipment failures for manufacturing defects, material fatigue, and conformance to workmanship requirements.

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PAUL L. FONTAINE, P.E. Electrical Engineer

1978 to **Connecticut Light & Power Co., Stamford, CT**
1980 *Field Engineer*

Provided electrical power delivery systems to commercial, residential, and industrial customers. Worked with commercial electricians, general contractors and local electrical inspectors to install transformers, switchgear, protective devices, power NEC, NESC and NFPA codes in meeting ventilation, fire alarm & suppressant and environmental requirements. Worked with customers in providing fault closure and momentary ratings for main switchgear

1972 to **Northeast Utilities, Berlin, CT**
1978 *Distribution Engineer*

Engineering Staff; studied switchgear construction, protection schemes, transformer design and overload. Designed new ways of providing safe and reliable means of serving customers. Designed and constructed new switchgear and structures. Authored papers on protection and power systems design for national publication.

1970 to **Virginia Power Company, Petersburg, VA**
1972 *District Engineer*

Responsible for the budget, design and construction of all distribution line and substation projects for the 40 square mile district. Designed and selected all locations for voltage regulating and protective devices. Wrote specifications for all project work. Worked with construction department to assure construction quality.

PROFESSIONAL CREDENTIALS

Professional Engineer, Connecticut

Commercial Pilot with Multi-Engine & Instrument Ratings

EDUCATION

AS Engineering, Holyoke Community College, Holyoke, MA

BSEE, University of Massachusetts, Amherst, MA

MBA, University of Hartford, West Hartford, CT

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Electrical Engineer

PROFESSIONAL MEMBERSHIPS

Electric Council of New England
Transmission and Distribution Committee
Standards and Specifications Working Group

Association of Edison Illuminating Companies
Cable Engineering Committee

PUBLICATIONS

“Underground Distribution Feeder Design,” Institute of Electrical and Electronic Engineers Transmission & Distribution Conference, 1979

“Submersible 25kV Fuse Developed,” Transmission & Distribution Magazine, 1977

“Service to Large Shopping Centers & Industrial Parks,” Institute of Electrical and Electronic Engineers Transmission & Distribution Conference, 1976

MILITARY EXPERIENCE

Naval Aviator
Carrier Jet Pilot, Attack Squadron 66
Aeronautical Engineering Duty Officer, Naval Air Systems Command
Twice Commanding Officer
Naval Postgraduate School, Monterey, CA; Aircraft Safety, Aircraft Stealth Design
Naval War College, Newport, RI; Defense & Foreign Relations