



Paul Way, P.E., CFEI, CFI, PI

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PROFESSIONAL PROFILE

Paul Way has performed thousands of investigations since 1995, specializing in large complex loss investigations. He has particular expertise in the following areas: electric shock/electrocution; low, medium, and high voltage electrical equipment and systems; transformers; rotating machines; substations and electrical power generation facilities; electrical distribution and transmission design and inspection; electrical grounding system design; chemical and manufacturing plants, timber and paper mills; construction and commissioning, consumer product failure and fires, and marine fires. Paul has performed dozens of investigations involving transmission and distribution system design, installation, and failure modes.

Paul is proficient in mechanical design, repair, and troubleshooting of refinery process equipment, including piping system design and analysis, heat exchanger design and repair, pump design and flow analysis, and valve design and repair. He is trained in material selection for strength and corrosion resistance, mechanical design, failure analysis, and pressure drop studies. Before pursuing an engineering career, Paul worked as an appliance and furnace repair technician and is experienced with proper operation and repair of large appliances, including clothes washers and dryers, dishwashers, and furnaces.

Paul has over ten years of experience performing electrical facilities, distribution, transmission, and generation design and analysis. As a result of his unique background, he has extensive electrical and mechanical engineering, design, and failure analysis knowledge. He has experience with hydroelectric, gas turbine-driven, and combined cycle power plants; electrical substations, including transformer and switchgear equipment; petrochemical plants and pipelines; wastewater treatment plants; potable water pumping systems; heavy manufacturing plants; wildland fire; and heavy construction.

With degrees in both electrical engineering and forest resource management he is a known expert in wildland fire investigation, vegetation management, right-of-way management, and electrical distribution and transmission issues.

Paul is involved in many of the wildland fires in the United States and has particular expertise in wildland fire mitigation plans, auditing, pre-inspection plans and tree/vegetation treatment activities. Finally, he has extensive knowledge of design, maintenance, and repair activities that can impact grid reliability and fire ignition risk. Paul has participated in many fires and failures involving lithium-ion battery systems and battery energy storage facilities.

POSITIONS

Brillouin Consulting **Principal Engineer**

Aurora, CO

Jan 2026 - Present

Forensic Engineer specializing in electrical fire cause and origin, electrical system failures, electrical and electronic product analysis, and testing, ground system and soil resistivity testing, and engineering consulting on electrical system design and analysis. Paul provides expert litigation support and testimony to law firms, insurance companies, and manufacturers.

Jensen Hughes, Inc. **Technical Fellow, Electrical Engineering**

Mountlake Terrace, WA

June 2020 - Dec 2025

Forensic Engineer specializing in electrical fire cause and origin, electrical system failures, electrical and electronic product analysis, and testing, ground system and soil resistivity testing, and engineering consulting on electrical system design and analysis. Heavy equipment accident reconstruction. Appliance fire and failure investigations. A complete list of forensic projects is available on request.

CASE Forensics
Director, Technical Lead Electrical
Principal, Electrical Engineer

Mountlake Terrace, WA
July 2016 - May 2020
Dec 1997 - June 2016

Pacific Testing Laboratories
Consulting and Forensic Engineering Department Manager
Senior Project Engineer

Seattle, WA
Feb 1997 - Nov 1997
Feb 1996 - Jan 1997

Provided engineering and design consulting to heavy industrial, commercial, construction, and manufacturing clients. Performed electrical system analysis, ground system design and testing, including soil resistivity testing, and plant control design. Evaluated electrical system safety, design, and equipment selection. Performed power quality studies and investigation of power-related equipment failures. Performed due diligence studies for property acquisition.

Zurn/Nepco
Lead Electrical Engineer

Redmond, WA
Oct 1992 - Jan 1996

Lead Electrical Engineer providing engineering and design, technical analysis, and resolution of electrical engineering problems. Prepared construction drawings, construction specifications, and design calculations. Reviewed, analyzed, and resolved field construction problems and discrepancies and interfaced with client, utility, and contractors as required. Prepared equipment procurement specifications and requisitions including bid analysis. Evaluated grounding requirements and prepared coordination studies. Provided field startup assistance and troubleshooting. Prepared standard specifications for engineered equipment. Coordinated all electrical aspects of power plant, substation, transmission engineering, design, and construction.

Anvil Corporation
Senior Electrical Engineer

Bellingham, WA
April 1990 - Sept 1992

Electrical Engineer responsible for engineering and design, equipment procurement, project management activities in petrochemical and other industrial plants. Performed engineering analysis of electrical systems and recommended protective devices and schemes. Selected equipment for hazardous area installations and performed hazardous area analysis.

R.W. Beck and Associates
Electrical Engineer

Seattle, WA
June 1989 - Mar 1990

Electrical Engineer responsible for engineering and design, equipment procurement, and project management activities for municipal and government projects. Coordinated all engineering disciplines including mechanical, electrical, and structural.

Chevron
Plant Engineer

El Segundo, CA
June 1987 - May 1989

Plant Engineer, responsible for plant and shutdown engineering and budgeting activities. Performed piping system analysis, heat exchanger mechanical design, pump design, failure analysis, and pressure drop studies. Received training in all engineering disciplines and became familiar with materials selected for strength and corrosion resistance. Reviewed equipment and material failures and damage and recommended upgrades to prevent future problems.

US Army Corps of Engineers
Engineering Intern

Pomeroy, WA
June 1985 - May 1987

Lower Granite/Little Goose Dam Project. Responsible for general plant electrical and mechanical engineering activities including generator rotor and stator maintenance.

Way's Appliance Service
Repair Technician

Fremont, NE
Jan 1974 - Sept 1978

Large appliance repair technician employed in family business. Specialized in repair and installation of clothes washers and dryers, dishwashers and furnaces. Performed service calls, shop repairs, electrical troubleshooting, and installations.

ACADEMIC CREDENTIALS

University of Idaho
B.S., Electrical Engineering

Moscow, ID
1987

University of Idaho
B.S., Forest Resource Management

Moscow, ID
1983

ACADEMIC CREDENTIALS

- Professional Engineer: Alaska, No. 10729, California, No. 20929, Hawaii, No. 16251, Idaho, No. 13289, Montana, No. 19993, Nevada, No. 020628, Oregon, No. 69242PE, Texas, No. 123690, Washington, No. 35289
- Licensed Unarmed Private Investigator: Montana, No. 10410, Washington, No. 1369
- Certified Fire Investigator, IAAI, 2011, No. 21-042014
- Certified Fire and Explosion Investigator, NAFI, 1998, No. 6146-1947

PROFESSIONAL AFFILIATIONS

- International Association of Arson Investigators (IAAI)
- Institute of Electrical and Electronic Engineers (IEEE)
- National Association of Fire Investigators (NAFI)
- National Fire Protection Association (NFPA)
- Puget Sound Marine Claims Association (PSMCA)

PUBLICATIONS AND PRESENTATIONS

- Way, P.T., "Vegetation Management and Power Lines," Wildland Fire Litigation Conference, Coronado, CA, 2016
- Way, P.T., "Wildfire Ignition Sources," Wildland Fire Litigation Conference, Monterey, CA, 2016.
- Way, P.T., "Large Loss Investigations," Hands Across the Border, IAAI, Langley, BC, 2016.
- Way, P.T., "What the Heck is a SCADA System and What Does It Tell the Investigator? Wildland Fire Litigation Conference, Monterey, CA, 2014.
- Way, P.T., "Power Generation, Transmission and Distribution," Wildland Fire Litigation Conference, Monterey, CA, 2011.
- Way, P.T., Henriksen, T.L., "An Assessment of the Ability of Light Bulbs to Ignite Various Types of Cardboard, Fire and Materials," 12th International Conference, January 2011.
- Way, P.T., "Arcs, Sparks and Winter Fires," CASE Studies Continuing Education CE/CLE Seminar for Adjusters and Attorneys, Mountlake Terrace, WA, 2010.
- Way, P.T., "Accidental Fire Cause," SAFECO Insurance Company, SIU Meeting, 2007.
- Way, P.T., "How to Prepare for a Cold Weather Fire Investigation," Arson Reporter, Washington State IAAI, Chapter 21, Fall Issue, 2007.
- Way, P.T., "Fires Caused by Electronics," National Association of Subrogation Professionals (NASP), National Association of Subrogation Professionals Annual Conference, New Orleans, LA, 2007.
- Way, P.T., "Power Generation, Transmission, and Distribution Equipment," FM Global Adjusters and Risk Management Internal Training Seminar, Bellevue, WA, 2007.
- Way, P.T., "Product Failure and Product Liability Forensic Investigations, An Engineer's Perspective," University of Washington Extension, Private Investigation Program, coordinated by the King County Public Defender Office, Seattle, WA, 2003.
- Way, P.T., "Premises Liability and Safety Hazards," Washington State Trial Lawyers Association (WSTLA) Conference, Seattle, WA, 1999.
- Way, P.T., "Electrical Fire Investigation," Two-day seminar presented to Aberdeen Fire Department Personnel, Aberdeen, WA, 1999.
- Way, P.T., "Electrical Fire Investigation," Two-day seminar presented to Douglas County Fire District 2 Personnel, East Wenatchee, WA, 1999.

CONTINUING EDUCATION AND TRAINING

- 12th Annual Wildland Fire Litigation Conference, Coronado, 2018.
- 11th Annual Wildland Fire Litigation Conference, Coronado, 2017.
- 2017 EC&M NEC Code Change Conference, Seattle, December 2016.
- 10th Annual Wildland Fire Litigation Conference, Monterey, 2016.
- Evidence Examination: What Happens at the Lab?, CFI Trainer.Net, October 2016.
- Preparation for the Marine Fire Scene, CFI Trainer.Net, October 2016.
- Basic Electricity, CFI Trainer.Net, October 2016.
- Electrical Safety, CFI Trainer.Net, October 2016.
- Explosion Dynamics, CFI Trainer.Net, April 2016.
- Construction Safety & Health 10-Hour, OSHA, October 2015.
- 15th Annual Fire and Materials Conference, San Francisco, February 2015.
- Seattle Insurance Seminar, Insurance Society of Idaho, September 2014.
- Seattle Insurance Seminar, Insurance Society of Montana, September 2014.
- Seattle Insurance Seminar, Insurance Society of Oregon, September 2014.
- Seattle Insurance Seminar, Insurance Society of Pennsylvania, September 2014.
- 8th Annual Wildland Fire Litigation Conference, Monterey, 2014.
- Seattle Insurance Seminar, Insurance Society of Philadelphia, 2013.
- Asbestos Awareness Training, RGA Environmental, 2012.
- Hazardous Waste Operations and Emergency Response (24-Hour HAZWOPER) Certification, Compliance Solutions, 2012.
- 13th Annual Fire and Materials Conference, San Francisco, CA, 2013.
- 5th Annual Wildland Fire Litigation Conference, Monterey, 2011.
- The International Symposium on Fire Investigation Science and Technology, University of Cincinnati, 2010.
- International Symposium on Electrical Insulation, IEEE, 2010.
- HVAC Fundamentals I, CASE Forensics, 2008.
- 58th Annual Fire Investigation Scientific Based Training, IAAI, 2007.
- Intensive Course on Electrical Contacts, IEEE, 2004.
- 8th International Fire and Materials Conference, San Francisco, CA, 2003.
- Arctic/Cold Regions Engineering Course, University of Washington, 2002.
- 24th Annual Advanced Fire & Arson Seminar, IAAI Oregon Chapter 31, 2002.
- Refrigeration & Air Conditioning, NTT, Inc., HVAC Division, 2002.
- 7th International Fire & Materials Conference, San Francisco, CA, 2001.
- National Electrical Code Training, National Technology Transfer, 1999.
- EG2404A Telecommunications Grounding for the Autoplex System, Lucent Technologies, 1996.
- Refinery Training Program, Chevron USA, El Segundo, 1987-89.