

Jeffrey L. Sellon, PE, CFEI, CVFI
Electrical Engineering

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Mr. Sellon has more than 35 years of very broad-based experience in electrical failure analysis, engineering design, construction & start-up in a variety of industries. His focus is to provide clear explanations.

Work History (Forensics)

President, Principal Engineer, Sellon Forensic Inc. (SFI), 2014 – Present; Colorado
Senior Engineer, PT&C Forensic Consulting Services, P.A., 2012 – 2014; Colorado
Principal Engineer, Western Engineering & Research Corporation, 2003 – 2012; Colorado
President, Principal Engineer, Electrical Failure Analysis, Inc., 1998 – 2003; Colorado
Contract Forensic Engineer (from Behrent) to Knott Laboratory, starting 1994; Colorado

Work History (Consulting Engineering & Other)

Principal, Behrent Engineering Company, 1989 – 2001; Colorado
Principal, AC Engineering Company, 1986 – 1989; Colorado
Plant Electrical Engineer, Honeywell, Inc., 1984 – 1986; Colorado
Senior Electrical Engineer, R.W. Beck & Associates, 1982 – 1984; Washington
Senior Electrical Engineer, Dravo Engineers and Contractors, 1980 -1982; Colorado
Electrical Engineer, Behrent Engineering Company, 1975 – 1980; Colorado
Maintenance & new construction electrician, Mammoth Mountain Ski Area, 1973 – 1974; California
Student Engineer, Iowa Power & Light, prior to 1973; Iowa

Failure Analysis

Mr. Sellon identifies the causes of electrical system failures involving heavy industry, equipment breakdown, oil & gas, commercial & residential, utility including overhead power lines, mines, solar & wind energy, elevators, vehicles/marine, and appliances; shock/electrocution - safety, stray current. Electrical systems include power, control, instrumentation, grounding and lightning protection, fire alarm, communication, lighting, automation, and static electricity generation systems. Mr. Sellon also identifies failures in the construction process including defects, contracts, jobsite safety, and he provides cost estimates and cost verification of electrical construction and engineering economic analysis/present worth.

Engineering and Design

Mr. Sellon has designed generation, power distribution, motor control (hardwire & PLC including programming), grounding, lightning protection, fire alarm, lighting & receptacle, and instrumentation systems. His design experience included heavy industry, chemical, oil & gas, data processing, building, telecommunication, utility, and government agency projects such as waste water plants and airports, as well as metal & nonmetal and coal mine projects. His master plan for the electrical power distribution at Denver's airport from 230 kV to 120 volts was selected over the plans of other engineering firms including the local electric utility, which ultimately built its part of the system to his plan.

Testimony

Mr. Sellon testified in arbitrations, mediations, depositions, and various courts numerous times.

Awards and Accomplishments

Mr. Sellon is an expert and has been a frequent lecturer on Nikola Tesla, father of electrical engineering. Traveling from Colorado, he has presented lectures on Tesla at Carnegie Mellon University (Pittsburg) and Columbia University (New York). Mr. Sellon served as the technical consultant to the authors of the book Obstruction of Justice.

Affiliations

IAAI, IAEI, IEEE, NAFI, NFPA, RMEL, Lightning Data Center (inactive)



Practice Areas

- Electrical
- Equipment Breakdown
- Fire & Explosion Cause

Credentials

- BSEE, Iowa State University, '74
- Worked as electrician
- Licensed Professional Engineer in 29 states.
- NCEES record holder.
- Certified Fire and Explosion Investigator (CFEI), 1998
- Certified Vehicle Fire Investigator (CVFI), 2003
- Numerous continuing education seminars regarding aspects of electrical systems and associated failures and fire & explosion causes, electrical jobsite safety, job hazard analysis, codes, standards, and regulations such as NEC, NESC, NFPA, OSHA (Federal & State Plan), MSHA (mining), and building codes

International

- Antarctica, Antigua, Brazil, Canada