

**ENGINEER: ELECTRICAL
UTILITIES**

KENNETH L. PRITTEN, CFEI, P.E.
Engineering Design & Testing Corp.
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EDUCATION:

May 1990 Bachelor of Science in Electrical and Electronic Engineering
California State University, Sacramento

PROFESSIONAL EXPERIENCE:

**2009
to Present Engineering Design & Testing Corp.
Oakland, California**

Consulting Electrical Engineer. Fire origin and cause determination, including utility caused wildland fires. Failure and root cause analysis involving electrical power transmission, distribution, substations and control: including transformers, switchgear, circuit breakers, motors, generators and wiring circuits. Investigation of electrical contact injuries and fatalities. Provide damage assessment, loss mitigation, cost valuation, and claim evaluation.

**2005 to 2009 Pacific Gas & Electric Company
San Francisco, California**

Senior Consulting Engineer in Law-Claims Department. Investigation of incidents of a complex or sensitive nature including fire origin and cause determination, electrical contact injuries and fatalities, equipment defects, and power quality issues. Provided standards and codes interpretations, risk analysis, and conduct training for Law-Claims teams.

**2005 Pacific Gas & Electric Company
San Francisco, California**

Senior Distribution Engineer. Rotational assignment. Standards for distribution transformers, regulators, capacitor banks, and fault indicators. Consultation on the selection and use of these products.

2000 to 2005 **Pacific Gas & Electric Company**
San Jose, California

Supervising Distribution Engineer. Led multi-disciplined work group responsible for engineering, design, fuse and relay protection, operations and maintenance of the electrical distribution systems and electric load forecasting. Construction management of distribution upgrades and conductor replacement activities. Analyzed system operations, material, equipment, and facility failures. Investigated cause of electrical failures, and recommended reliability improvements.

1998 to 2000 **Pacific Gas & Electric Company**
Oakland, California

Mapping Supervisor. Department responsible for creation and maintenance of gas and electric asset records and associated databases, updating secondary and circuit maps, preparation of various patrol maps in support of scheduled visual and infrared inspections, and creation of wall maps for use in electric control centers.

1996 to 1998 **Pacific Gas & Electric Company**
Livermore, California

Distribution Engineer. Review and approval of engineering designs. Estimates for gas and electric distribution project, including sizing and placement of facilities with consideration for reliability, switching flexibility, and future load growth. Design review with respect to company and government codes and standards compliance.

1990 to 1996 **Pacific Gas & Electric Company**
Hayward, California

Electric Planning Engineer. Proposed, processed, and managed electric distribution projects. Determined area load growth and prepared deficiency studies used to justify distribution capacity upgrades to assure sufficient future electric capability. Made recommendations on new business and reconstruction projects. Prepared designs using radio and telephone controlled SCADA equipment. Determined coordination settings for protective devices. Reviewed and approved generation and cogeneration projects.

REGISTRATION:

Registered Professional Electrical Engineer in California (E 14910)
National Council of Examiners for Engineering and Surveying (38162)
Certified Fire and Explosion Investigator (14620-7514)

PROFESSIONAL ORGANIZATIONS:

Institute of Electrical and Electronic Engineers (IEEE)
Power and Energy Society (IEEE-PES)
National Fire Protection Association (NFPA)
Wildland Fire Management Section (NFPA)
Electrical Section (NFPA)
National Association of Fire Investigators (NAFI)
International Association of Arson Investigators (IAAI)
California Conference of Arson Investigators (CCAI)
Contra Costa County Office of the Sheriff, Search and Rescue (SAR) Volunteer

CONTINUING EDUCATION:

2011 Wildland Fire Litigation Conference
2011 Marine Fire Investigations
2011 Preparation for the Marine Fire Scene, I.A.A.I.
2011 Social Media for Investigators
2011 Post Flashover Fire Investigation
2010 Expert Courtroom Testimony Program
2010 Investigation of Gas and Electric Appliance Fires, Fire Findings
2010 Live Burn Wildland Arson Investigation, Alameda County Arson Task Force
2010 FI-210 - Wildland Fire Origin & Cause Determination NWCG
2010 Domestic Terrorists and their Incendiary Devices, CCAI
2009 Fire Investigation 1A, California Fire Service Training and Education System
2009 National Fire and Explosion Investigation Training Program, NAFI
2009 Computer Fire Modeling, NAFI
2009 Fire Investigator Scene Safety
2008 Advanced Fire Investigation, College of Eastern Utah
2008 Introduction to Evidence, I.A.A.I.
2008 Physical Evidence at the Fire Scene, I.A.A.I.
2008 The Scientific Method for Fire and Explosion Investigation, I.A.A.I.
2008 Critical Thinking Solves Cases, I.A.A.I.
2008 Digital Photography and the Fire Investigator, I.A.A.I.
2008 Documenting the Event, I.A.A.I.
2008 Ethics and the Fire Investigator, I.A.A.I.
2008 MagneTek: A Case Study in the Daubert Challenge, I.A.A.I.
2008 Advanced Fire/Arson Investigation, CCAI
2007 Electric Incident Workshop, Aegis
2006 Investigations of Electrical & Appliance Related Fires, I.A.A.I./AHAM