



Curriculum Vitae of

JOHN A. PALMER, PH.D., P.E., C.F.E.I.

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SYNOPSIS

Dr. Palmer has extensive experience in cause and origin analysis of electrical accidents, electrical equipment failures, electrical fires, structural fires, vehicle fires, and explosions. He also performs product testing and design review. He has consulted on cases involving industrial processes, electric machinery and systems, elevators, consumer electronics, control systems, and electrical safety (including electric shock and electrocution), including the application and analysis of codes—including the National Electrical Code (NEC), National Electrical Safety Code (NESC), and California Public Utilities Commission General Order 95 (G.O. 95). He has also provided litigation support for multiple intellectual property matters. Dr. Palmer's education and research experience includes a vast array of aspects relating to electrical engineering, electric power, control systems, and electromechanical systems. An area of particular emphasis throughout his career has been his focus on electric power equipment, including transformers and electric machines and drives. He has conducted power system fault studies, protective device coordination, and load flow studies. Dr. Palmer's extensive experience includes electromagnetic fields and high-voltage systems. His responsibilities and research often include working with thermodynamics, fluid dynamics and liquid dielectrics. Career research projects include: analytical and computational assessment of overheating of pipe-type underground cables; experimental, analytical and computational assessment of static electricity problems in large power transformers; modeling of pulsed linear induction motors; distributed generation; and optical and ultrasonic diagnostic and monitoring tools for power equipment. Dr. Palmer's research has led to the development of a controller device for a power transformer cooling system, resulting in a patent. In addition, he has taught principles of failure analysis, electromechanical energy conversion, power systems, power system protection, power electronics and power quality as part of the electrical engineering curriculum at several universities. He has authored over twenty journal and conference publications, has given numerous presentations and workshops, is co-author of a handbook for the NESC, and is on NESC subcommittees for updating the NESC.

EDUCATION

Rensselaer Polytechnic Institute	
Ph.D. Electric Power Engineering	1996
<i>Thesis: Dynamics of Streaming Electrification in Large Power Transformers</i>	
M.Eng. Electric Power Engineering	1992
<i>Thesis: Effect of Harmonics on Current Carrying Capacity of HPFF Cable</i>	
Brigham Young University	
B.S. Electrical Engineering	1991
<i>Power Emphasis, Math Minor</i>	

REGISTRATION

Registered Professional Engineer in Utah, Colorado, Alabama, Wyoming, Florida, Arizona, Idaho, Michigan, Virginia, California, Arkansas, Texas, Nevada, and Kentucky
 Certified Fire and Explosion Investigator (NAFI)

EXPERIENCE

Palmer Engineering and Forensics, LLC, North Salt Lake, Utah President	2009 – Pres
University of Utah, Salt Lake City, Utah Associate Professor, Lecturer – Electrical Engineering Department Adjunct Associate Professor -- Electrical Engineering Department Adjunct Instructor – Electrical Engineering Department	2016-Pres 2014-2016 2011-2014
Knott Laboratory, LLC, Centennial, Colorado Manager, Electrical Engineering and Fire Investigations Senior Engineer	2005 - 2009 2000- 2005
University of Colorado Denver, Denver, Colorado Adjunct Instructor – Electrical Engineering Department	2006-2008
Colorado School of Mines, Golden, Colorado Assistant Professor – Division of Engineering/Center for Adv. Ctrl of Elec Pow Systems	1996-2000
NEI Electric Power Engineering, Inc., Arvada, Colorado, Consulting Engineer	1999-2000
Rensselaer Polytechnic Institute, Troy, New York Research Assistant	1991-1996

EXPERT TESTIMONY

Dr. Palmer has provided expert testimony in various jurisdictions across the country. He has been qualified as an expert witness and has provided litigation support in cases involving personal injury, product defects, property loss/subrogation, intellectual property, and class action lawsuits. He has testified over 135 times in depositions, hearings and trials.

PROFESSIONAL AFFILIATIONS

Dr. Palmer is a member of the following technical and professional societies:

NSPE - National Soc. of Prof. Engineers	IEEE (<i>Sen. Mem.</i>)- Inst. of Elect. and Electronics Engineers
NAFI – Nat. Asscn of Fire Investigators	Industrial Application Society
NFPA – Nat. Fire Protection Association	Power and Energy Society
ASME - American Soc. of Mech. Engineers	Product Safety Engineering Society