

MAJOR CASE LISTING FOR CHRISTOPHER K LANE, PE

DESCRIPTION	PRINCIPAL PARTIES (Client in BOLD)	VENUE	Arbitration	Litigation	Other	Magnitude of Claims	FOCUS OF THE ENGAGEMENT	CLIENT		COMMENTS	Testimony		
								Plaintiff	Defendant		Report	Deposition	Trial/Hearing
Hudson Refinery EPA Superfund Site	U.S.A. EPA/DOJ v. Land O'Lakes, Inc. (Midland Oil Company)	Federal Court Oklahoma City		X		\$100M	Use and release of friable asbestos in refinery.		X	Soul expert in subject area of asbestos involving \$39M in alleged damages	X		
Garofalo Carbon Monoxide Poisoning	M. Garofalo v. Worker's Comp Insurance Carrier	N/A			X	Unspecified	Forensic analysis of carbon monoxide release from defective big rig truck exhaust	X		Case undertaken "pro bono" for unemployed/disabled trucker	X		
Victoria Hospital Cogenertion Project	Varnsdorf (National Mutual of Australiasia/AXA) v. Detroit Diesel & Engine Company, General Motors & Rolls Royce Gas Turbine Co.	Victoria Supreme Court Melbourne Australia referred to arbitration.	X			AU\$120M	Forensic analysis of chronic turbine failures due to over-firing and related damages for repairs and business interruptions.	X		Claims of AU\$120M associated with six small (6.2 MW) gas turbine cogeneration projects at Victoria State Hospitals. Principal expert versus "team" of experts from GM and Rolls-Royce. Case lasted over 3.5 years and involved 18 trips to Australia and nearly 2 yr. in country.	X		X
Saudi Arabia Turbine Islanding Controls	Tihama v. Saudi ARAMCO	Int'l Board of Arbitration - London	X			\$180M	Forensic analysis of GE Frame 7 gas turbine "Islanding" controls at three 450MW power plants at Persian Gulf Refineries.	X		Case was classic large project dsput between Owner and Contracot with claims an counter claims totalling \$180M.	X		
Turbine Inlet Cooling Design Verification	Gazprom Neif v. Samsung Engineering	Private Contract Dispute			X	\$30M	Design review and verification of turbine inlet cooling (TIC) system at refinery power plant in Badra, Iraq. Refrigeration	X		TIC design involved a complex multi-stage refrigeration system in combination with large water-based therm energy storage. Very fast track 18 day study completed on schedule for Seoul based Client.	X		
Propulsion Turbine Test Cell Incident	WESCO v. On Power Inc. & Woodward Controls	Court of Common Pleas; Allegheny County, PA		X		\$10M	Forensic investigation of a turbine test cell incident associated with failure of "Fail Safe" controls. Work involved detailed analysis of PLC ladder logic and related circuitry.	X		Turbines were part of a propulsion system for Norwegian Navy fast patrol boats based on use of Pratt & Whitney aeroderivative turbines. Controls were based on Siemens S7 PLC technology.	X		
Steam Turbine Falure due to Lube Oil Interruption	Tri-State Generation & Transmission v. Mitsubishi Int'l	US District Court AZ	X			\$10M	Forensic investigation of loss of lube oil supply to large utility steam turbine during operator action to "shift" duplex oil filters.	X		Work involved analysis of system and component design and operational factors.	X	X	
Shasta Wood Waste Power Plant; Design/Contractor Defects	Batzer Construction v. White Oak Global Advisors	Superior Court Shasta, CA		X		\$10M	Assessment of plant design and plant refurbishment results for 10MW wood waste power plant; Redding CA.	X		Project involved old technology fluidized bed combustion of wood waste to power marine steam turbine generator.	X	X	
Aspen Power	Angelina County (TX) v. Aspen Power (Trustees)	Judicial District of Angilina County, TX		X		\$120M	Assessment of fesibility issues for a 50MW municipal biomass waste fueled power plant.	X		Project was in bankruptcy; work performed for Trustee.	X	X	
Turbine Overspeed Incident	LA County Sanitation v. Siemens Power Generation			X		\$7M	Forensic analysis of catastrophic turbine overspeed incident focused on instrumentation & control issues.	X		Superior Court of California, Orange County	X	X	
AES Merida Power Plant Fuel Issues	AES Merida v. Comision Federal de Eleicidad	Int'l Board of Arbitration - Mexico City	X			\$8M	Fuel quality issues effecting plant reliability and maintenance requirements. Secondary issues with fuel metering accuracies.	X		First successful major arbitration result for any non-Mexican orgaanization is dispute with any agency of the Mexican government. Principal expert or Plaintiff involved in 3-days of hearing textimony in Mexico City.	X	X	X
Wrongful Death Power Plant Industrial Accident	Hall v. Arizona Public Service Company et al	Superior Court of Arizona County of Mariposa		X		Est. \$5M	OSHA Lockout/Tag Out (LOTO) and other worker safety requirements	X		Complex application of LOTO requirements in nested contractor relationship at operating coal fired power plant.	X	X	

MAJOR CASE LISTING FOR CHRISTOPHER K LANE, PE

Rathdrum Power Plant Performance	Avista Turbine Power v. Rathdrum Power LLC	American Arbitration Association	X		\$5M	Assessment of plant design for turbine inlet cooling, overall plant performance relative to original proforma projections and fuel metering issues.	X	Assessment included both technical and economic performance issues.	X	X	X
Klickitat Landfill Gas Engine Failures	Klickitat County Public Utility v. Waukesah Engine Dresser, Inc.	American Arbitration Association	X		\$5M	Forensic investigation of multiple major engine failures and maintenance issues.	X	Forensic investigation of major engine failures while operating on low Btu landfill gas.	X		X
Basin Electric Organic Rankine Cycle Power Plant	Basin Electric Coop. v. Lacy Henry, Judy Henry, MPS Generation et al	US Bankruptcy Court Eastern district of NC		X	\$5M	Technical design, performance and economics for series of Organic Rankine Cycle (ORMAT) Power Plants in north central plains of US.	X	Design and performance assessment of organic Rankine Cycle power generation plants using waste heat as fuel.	X	X	X
Personal Injury Case; Texas Power Plant Steam Leak	Homero Alvarado & Valania Alvarado v. Bechtel Corp., Bechtel Power Corp. & Alstom Energy	US District Court Hassis County, TX		X	\$5M	Forensic investigation to determine causes for (1) initiation and (2) duration of large steam leak and thermodynamic effect of duration on extent of tissue damage.	X	Determination of effects of the duration of exposure to high temperature steam included research into nuclear weapons effects of high temperature exposure to pigs from experiments in China and Soviet Union. After trial Defendant Bechtel requested and received unprecedented permission to retain Mr. Lane as expert in claims against co-defendant Alstom.	X	X	X
Leaburg Dam Gate Hoist Mechanical Failure Incidents	Eugene Water & Electric Board v. MWH Americas, Inc. et al	Lane County (OR) District Court		X	\$8M	Forensic analysis of the mechanical failure of Low Speed High Torque hydraulic motors used to hoist roll gates at the Leaburg Dam and the role of PLC controls, safety interlocks and operator actions to defeat/ignore interlocks and alarms.	X	Work necessitated detailed analysis of roll gate dynamics, acceleration derived kinetic energy and arrest impulse energy transfer to hydraulic motor rotor as well as detailed assessment of PLC controls and related circuits.		X	
Biola University Engine Failure	Biola University v. SEC Energy Products & Services, Inc.	California Superior Court of Los Angeles		X	\$3M	Forensic investigation of engine failure associated with improper maintenance actions.	X	Straight forward case involving use of excessive torque for reassembly of engine components.	X		
Bowerman Power Landfill Power Plant	Bowerman Power v. HR Green California	American Arbitration Assoc. Chicago	X		\$12M	Assessment of plant design and conformance to contract specifications and performance guarantees at 20MW landfill gas fueled power plant, Irvine, CA.	X	Complex plant design associated with gas conditioning for removal of H2S, siloxanes and other contaminants and effects on downstream machinery and plant performance and reliability.	X		
Albuquerque Engine Failure	Albuquerque Bernalillo County Water Authority as the Insured	Insurance Claim		X	\$759K	Investigation and opinion on root cause for major engine failure covered by boiler & machinery insurance.	X	Defendant designation is loosely applied to correspond to the insurer.	X		
City of Lamar Power Plants	City of Lamar (CO) et al v. Arkansas River Power Authority & SYNCORA	Dist. Court Prowers County (CO)		X	\$100M	Brief engagement in large case that settled quickly involving shutdown and repowering of a municipal power plant.	X			X	
Lake Cogen Cycling Operation	Lake Cogeneration vs. Florida Power Company dba Progress Energy	Superior Court, Lake County, FL		X		Technical and cost analysis for change from base loading to diurnal cyclic operation of a GE LM6000 based combined cycle power plant in central FL.	X	Technically complex case with extensive research into effects of cyclic operation of a thermal power plant.	X		
New Hampshire Landfill Gas Processing	Androscoggin Valley Regional Refuse Disposal District v. R.H. White Construction, Inc. v. Fuss & O'Neill, Inc.	US District Court, New Hampshire		X	\$4M	Investigation of design defects in landfill gas conditioning system leading to material failure and increased maintenance requirements in operating power plant.	X	Engagement by party who was Defendant and Counterclaimant therefore indicated as both Plaintiff and Defendant.	X		

MAJOR CASE LISTING FOR CHRISTOPHER K LANE, PE

El Dorado Inlet Air Filter Fire	El Dorado Energy (Star Power) v. Laron, Inc.	US District Court, Las Vegas, NV		X		\$5M	Evaluation of inlet air filter system replacement options and costs, and review of business interruption damages assessment by others.	X	Filter unit replacement work done from perspective of a project engineer and engineering contractor. Business interruption analysis involved interpretation and application of prevailing Energy Sales Agreement (ESA).	2		
Sea Planes Engine Failures	Sea Planes, Inc. v. Caterpillar et al	US District Court, Central District of California		X		\$10M	Investigation of repeated failure of Caterpillar C32 marine diesel engines in a commercial "fast" ferry.	X	Lane testimony challenged for admissibility based on lack of specificity for each individual failure as compared to identification of certain specific known product defects and statistical application of same. Court ruled testimony was admissible.		X	
Mineral Park Power Plant	Mineral Park & Bluefish Energy v. Saulsbury, Inc.	Superior Court of AZ		X		\$5M	Investigation of failure of a GE LM6000 gas turbine due to ingestion of contaminants via inlet filter system or by direct injection via water injection system.	X				
Wells Dam Bearing Failure	Kingsbury Bearings and Toshiba; Douglas G. Peterson & Assoc. as representative of the Insurer	Insurance Claim			X	\$10M	Preliminary investigation of failure of a large thrust bearing at the Wells Dam on the Columbia River. Focus on design and operation of oil lubrication aspects of failure.		Engaged by insurance claims investigation firm.			
Simi Valley Compressor Injury	Christopher Latham v. Natural Gas Systems, Inc.	Superior Court of California, Ventura County		X		Unknown	Accident investigation focused on maintenance actions by Defendant	X	No report by testimony by deposition.		X	
El Bajio Combined Cycle Power Plant	InterGen v. Comision Federal de Electricidad	International Arbitration, Mexico City	X			\$10M	Assessment of the technical issues and related costs associated with fuel gas quality to a 600 MW combined cycle power plant.	X	International Arbitration held in Mexico City involving the El Bajio Combined Cycle Power Plant in San Luis de la Paz near Queretaro, Mexico.		X	X
Connecticut Landfill Generation	Reource Technology Corp. v. Connecticut Resource Recovery Authority	US District Court of Northern Illinois		X		\$5M	Design, operation and maintenance of a landfill gas fueled power generation system. Calculation of damages.	X				
Occidental Turbine Overspeed Explosion	Occidental Petroleum Corp. v. Shaw Global Energy Services, Inc.	215th Judicial District Court of Harris County, TX		X		\$20M	LOTO an other issues associated with care, custody and control of an operating steam power plant being shutdown and secured for major maintenance. Assessment of monetary damages associated with a damaged steam turbine and related business interruption.	X	Interesting case where Contractor unknowingly erected scaffolding in preparation of maintenance work and where said scaffolding interfered with closure of a non-return valve resulting in turbine overspeed event. LOTO an related issues involved. Extensive analysis of monetary damages.		X	