



CURRICULUM VITAE

Roger B. Tate, P.E.

Mechanical & Fire Protection Engineer
5006 Andalusia Trail
Arlington, Texas 76017
972-672-7599
RTate@VFEngr.com

OVERVIEW:

Roger Tate investigates a wide variety of mechanical and fire protection issues, including workplace injuries involving machinery, fires and explosions involving combustion equipment, malfunctions of fire sprinkler systems, and water leaks of all sizes. He has over 27 years of active experience as a forensic engineer. Mr. Tate holds Bachelor of Science and Master of Engineering degrees in Mechanical Engineering, and completed two years of engineering graduate school beyond the Masters level. Prior to becoming a forensic engineer, Mr. Tate worked in the aircraft manufacturing and satellite communications industries. Since entering the forensics field he has obtained specialized knowledge in fire protection systems, fuel gas equipment, gas explosions, and underground piping failures. Mr. Tate has testified at trial in multiple civil cases and one criminal case. He holds Professional Engineer licenses in 30 states and has passed the national licensing examinations in both Mechanical and Fire Protection Engineering. Mr. Tate is a skilled teacher and has trained thousands of professionals in various venues.

EDUCATION:

Bachelor of Science in Mechanical Engineering with Special Distinction, GPA 3.89/4.00,
University of Oklahoma, Norman, Oklahoma, 1985
Master of Engineering in Mechanical Engineering, GPA 3.92/4.00, University of Texas at
Arlington, Arlington, Texas, 1991
Doctoral Studies in Mechanical Engineering, GPA 4.00/4.00, University of Texas at Austin,
1993 to 1995
Individual Study in Fire Protection Engineering, 2000

ACADEMIC HONORS:

Pi Tau Sigma – International Mechanical Engineering Honor Society
Tau Beta Pi – Engineering Honor Society
Phi Kappa Phi – Interdisciplinary Academic Honor Society

PROFESSIONAL EXPERIENCE:

VERITÉ FORENSIC ENGINEERING, LLC, 2007 - Present

Mechanical and Fire Protection Engineer - Failure analysis, repairability assessment, and product design evaluation of fire protection systems, industrial machinery, plumbing components and systems, HVAC equipment and systems, office equipment/furnishings, and household appliances. Fire and building code analysis related to fire events.

UNIFIED INVESTIGATIONS & SCIENCES, INC., 1996 to 2007

Chief Engineer (2000 to 2007) – Technical supervision, training and development of the national engineering staff

Mechanical and Fire Protection Engineer (1996 to 2007) - Failure analysis, repairability assessment, and product design evaluation of industrial machinery, office equipment and furnishings, household appliances, building mechanical systems, fire protection systems, and motor vehicle systems. Motor vehicle accident investigation and reconstruction.

CH&A CORPORATION, 1995 to 1996

Consulting Engineer, Mechanical - Motor vehicle accident investigation and reconstruction. Failure analysis, repairability assessment, and product design evaluation.

UNIVERSITY OF TEXAS AT AUSTIN, 1993 to 1995

Research Engineer/Graduate Research Assistant (Oct. 1994 - Oct. 1995) – Employed by the UT Center for Electromechanics. Researched failure limits and failure modes of graphite composite materials for energy storage flywheels.

Graduate Teaching Assistant (Jan 1994 - May 1994) - Taught laboratory section of the mechanical engineering senior design course.

S.E.A., INC., 1991 to 1993

Project Engineer, Mechanical - Motor vehicle accident investigation and reconstruction. Failure analysis, repairability assessment, and product design evaluation.

PROFESSIONAL EXPERIENCE: (continued)

LTV AEROSPACE AND DEFENSE, 1986 to 1990

Senior Installation Design Engineer (Nov. 1989 - Sept. 1990) - Member of design team for the B-2 “Stealth” Bomber. Details classified.

Senior Hydraulic Design Engineer (Oct. 1987 - Nov. 1989) - Member of design team for the YA-7F attack aircraft prototype program. Prepared specifications for procured hydraulic components. Prepared test procedures for hydraulic components. Analyzed failures that occurred during testing.

Production Technology Engineer (Sept. 1986 - Sept. 1987). Performed technology evaluations and cost/benefit studies for new manufacturing methods. Worked with a wide variety of manufacturing technologies; including composites and adhesive bonding, sheet metal fabrication, machining, heat-treating, painting, and plating. Led interdepartmental team to reduce volatile organic compound (VOC) emissions.

DALSAT INC., 1985 to 1986

Staff Mechanical Engineer - Designed satellite antenna positioning systems, a noise reducing engine enclosure, and HVAC air handling systems. Served as project engineer for initial development and construction of a mobile satellite transmission vehicle.

PROFESSIONAL ORGANIZATIONS:

Society of Fire Protection Engineers – Past President, Dallas/Fort Worth Chapter and

Member of National Engineering Licensing Committee 2006 - 2014

American Society of Mechanical Engineers - Member

National Fire Protection Association – Member

International Code Council – Building Safety Professional Member

Received *2007 Hats Off Award* from the Society of Fire Protection Engineers “in recognition of exceptional effort in support of the PE Exam for the benefit of SFPE and the profession.”

FAMILIAR TECHNOLOGIES:

The items listed below have been involved in one or more of Mr. Tate's forensic investigations. This list is intended to show the range of Mr. Tate's expertise, but it is not comprehensive.

Air Conditioning/Refrigeration Equipment - Chillers, Cooling Towers, Hydronic (water-based) Systems, Heat Pumps, Package Units, Split Systems, Condensers, Evaporators, Compressors, Ammonia Systems, Freezers, Coolers, Soda Fountains, Moisture/Mold Issues

Fire and Building Code Analysis – Compliance with Fire, Building, Fire Prevention, Life Safety, Sprinkler, Alarm, and Combustible Liquids codes in the context of fire events.

Commercial Heating Equipment – Boilers, Industrial Ovens/Furnaces, Radiant Heaters, Unit Heaters, Thermal Oxidizers (volatile organic compound emission control)

Elevator Equipment – Drive Motors, Hydraulic Rams, Lifting Cables, Sheaves (Pulleys), Governors, Running Cables, Braking Devices

Fire Protection Equipment – Sprinkler Heads, Sprinkler Piping & Fittings, Underground Fire Mains, Fire Pumps, Sprinkler System/Alarm System Interfaces, Restaurant Hood Fire Suppression Systems, Carbon Dioxide Systems, Dry & Wet Chemical Systems, Deluge Systems

Gas (Natural/LP/Propane) Equipment – Explosions, Appliances, Control Valves, LP Tanks, Pressure Regulators, Gas Piping, Barbecue Grills, Turkey Fryers, Stoves, Ovens, Carbon Monoxide Poisoning

Heavy/Agricultural Equipment – Cotton Gin Baling Machinery, Tractor Mowers (mower thrown objects), Backhoes, Front End Loaders, Excavators, Cranes, Man Lifts, Tractors, Hay Balers, Cotton Pickers

Hydraulic/Pneumatic Equipment – Pipes, Fittings, Pumps, Compressors, Valves, Hoses, Cylinders, Actuators, Motors, Pressure Regulators, Accumulators, Filters, Tanks

Manufacturing Equipment – Forklifts, Presses (stamping and printing), Saws, Shears, Brakes, Lathes, Mills, Grinders, Paint Sprayers, Paint Booths, Plastic Extruders, Dust Collectors Spray Dryers, Fluidized Bed Dryers, Screw Conveyors, Pneumatic Conveyors

Manufacturing Methods – Machining, Sheet Metal Forming, Electroplating, Painting/Coating, Adhesive Bonding, Casting, Shot Peening, Vapor Deposition, Extrusion

Materials Science – Fracture Mechanics, Corrosion, Fatigue, Plastics, Fiber-Reinforced Plastics (Composites), Adhesives, Laminates

Plumbing Equipment – Piping, Faucets, Toilets, Ice Makers, Dishwashers, Clothes Washers, Water Heaters, Hoses/Tubing, Sprinkler Heads, Water Filters, Water Softeners

Pressure Vessels – Tanks, Heat Exchangers, Dephlegmators, Condensers, Separators, Chlorine Cylinders, Liquid Nitrogen Storage, Acetylene Cylinders

Rental Equipment – Trailers, Tow Dollies, Jacks, Augers, Concrete Saws, Pressure Washers

Residential Equipment – Stoves, Clothes Dryers, Water Heaters, Boilers, Furnaces, Space Heaters, Radiant Heaters, Wood-burning Fireplaces, Decorative Gas Fireplaces

Restaurant Cooking Equipment – Fire Suppression Systems, Vent Hoods, Stoves, Grills, Deep Fryers, Salamanders, Barbecue Ovens, Dishwashers, and Water Heaters

SPECIALIZED TRAINING:

Accident Reconstruction - Texas A&M University, 1992
Analysis of Low Speed Collisions - Texas A&M University, 1996
LP Gas Industry Principles & Practices - Suburban Propane, 1997
Vapor Cloud Explosions, Flash Fires and BLEVES - American Institute of Chemical Engineers, 1998
NFPA 13 Installation of Sprinkler Systems - American Fire Sprinkler Association, 1999
NFPA 25 Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems - American Fire Sprinkler Association, 1999
Electrical Protection Devices - Unified Investigations & Sciences, 2001
Failures in Electric and Gas Service Entrances - Unified Investigations & Sciences, 2001
Hazardous Waste Operations & Emergency Response (HAZWOPER) – Compliance Solutions, 2001
Overview of Fire Alarm Systems – Unified Investigations & Sciences, 2002
Soils & Foundations – Unified Investigations & Sciences, 2002
Lightning Protection – Unified Investigations & Sciences, 2002
Concrete Technology – Unified Investigations & Sciences, 2002
Automotive Engine Failure Analysis – Unified Investigations & Sciences, 2002
Electrical Grounding – Unified Investigations & Sciences, 2002
Microbiologically Influenced Corrosion (MIC) – Society of Fire Protection Engineers, 2003
Aging Electrical Wiring Systems in Buildings – National Fire Protection Association, 2003
Boiler Combustion Safety – National Fire Protection Association, 2003
NFPA and the Law – National Fire Protection Association, 2003
Acceptance of Commercial Cooking Installations – National Fire Protection Asso., 2003
Smoke Control System Inspection and Commissioning – National Fire Protection Association, 2003
Management of Major Fire Investigations – National Fire Protection Association, 2003
Plumbing Systems – PDH Center, 2004
An Engineer's Guide to Plumbing Cross-Connections – PDH Center, 2004
The International Plumbing Code: A Guide for Use and Adoption – Geographic Information Systems, 2004
Boiler Operation, Maintenance & Safety – American Trainco, Inc., 2005
Design Considerations for Smoke Control Systems – Society of Fire Protection Engineers, 2006
Introduction to Cathodic Protection Design – Decatur Professional Development, 2006
Air Conditioning & Refrigeration – American Trainco, Inc., 2005
HVAC Controls & Air Distribution – American Trainco, Inc., 2007
Forensic Fire Engineering Analysis - Society of Fire Protection Engineers, 2008
HVAC – Variable Air Volume Systems – Decatur Professional Development, 2008
Introduction to Elevators and Escalators – American Society of Mechanical Engineers, 2009
Practicing the Science of Computational Fluid Dynamics– Decatur Professional Development, 2010
How to Perform Elevator Inspections Using ASME A17.2 – American Society of Mechanical Engineers, 2011

SPECIALIZED TRAINING: (continued)

Process Piping – General Piping Design and Nonmetallic Piping Systems – Decatur Professional Development, 2012

Valve Fundamentals – Decatur Professional Development, 2013

Automatic Sprinkler Systems – Liberty Mutual Property Loss Control Institute, 2013

Fire Pumps & Fire Protection Water Supplies – Liberty Mutual Property Loss Control Institute, 2013

Fire Protection of Industrial Hazards – Liberty Mutual Property Loss Control Institute, 2013

Heat Loss and Gain for a House – Suncam, Inc., 2014

Investigating Solid Fuel-Burning Appliance Fires – Fire Findings Laboratory, 2014

Practical Forensic Engineering – Property – Part 1 – Suncam, Inc., 2015

Geothermal Heating and Cooling – Suncam, Inc., 2015

Ground Source Water to Air Heat Pumps – Suncam, Inc., 2015

Special Inspections for High-Rise Building Smoke Control Systems – Suncam, Inc., 2016

Sprinkler Systems of the Future: The Benefit of Electronic Sprinklers – Society of Fire Protection Engineers, 2016

Service & Maintenance of Water-Based HVAC Systems – Bell & Gossett (Xylem), 2017

Inspection and Evaluation of Swinging Fire Doors in Existing Buildings – Decatur Professional Development, 2017

Overview of Fire Alarm and Detection Systems – Decatur Professional Development, 2017

Fire Protection of Sloped Combustible Attic Spaces – Society of Fire Protection Engineers, 2018

International Symposium on Fire Investigation Science and Technology – National Association of Fire Investigators, 2018

Heat Tracing Systems – Decatur Professional Development, 2019

Design of Small Water Systems– Ezekiel Enterprises, 2019

Chemical Compatibility with CPVC Pipe – Society of Fire Protection Engineers, 2019

Cooling Towers– Decatur Professional Development, 2019

SEMINARS PRESENTED:

Computer Subroutines for Calculating the Physical Properties of MIL-H-5606 and MIL-H-83282 Hydraulic Fluids – Society of Automotive/Aerospace Engineers, Dallas, Texas, October 4, 1989.

Product Liability Principles – 2nd Annual Subrogation and Defense Seminar, Unified Investigations & Sciences, Dallas, Texas, April 10, 1997 (Multiple Other Appearances)

Vehicle Fires – 9th Annual Arson Investigation Training Seminar – Insurance Committee for Arson Control, Albuquerque, New Mexico, January 19, 1998

Hazards of Fuel Burning Appliances – Multiagency Fire Investigation Task Force (MAFIT), Longmont, Colorado, January 27, 1999 (Multiple Other Appearances)

Appliance Failures – Fire Investigation Techniques Seminar, North Texas Fire Investigators' Association, Addison, Texas, July 21, 1999

LP and Natural Gas Explosions – 3rd Annual Subrogation and Defense Seminar, Unified Investigations & Sciences, Dallas, Texas, October, 1999 (Multiple Other Appearances)

Forensic Investigation Instructors Training Course – Unified Investigations & Sciences, Dallas, Texas, February 6 – 10, 2001

Water Losses: Leaks & Causes – 4th Annual Subrogation and Defense Seminar, Unified Investigations & Sciences, Dallas, Texas, March 21, 2001 (Multiple Other Appearances)

Water Heater Failures and Assessment – 2001 Engineering Education Conference, Unified Investigations & Sciences, Everett, Washington, June 21, 2001

Technical Investigation of Vehicle Claims Fraud – 4th Annual Subrogation and Defense Seminar, Unified Investigations & Sciences, Dallas, Texas, March 21, 2001 (Multiple Other Appearances)

Fixed Fire Protection System Claims – 6th Annual Subrogation and Defense Seminar, Unified Investigations & Sciences, Addison, Texas, March 13, 2003

Failures of Underground Fire Mains – World Fire Safety Conference & Exposition – National Fire Protection Association, Dallas, Texas, May 20, 2003

The FPE PE Exam and You – Society of Fire Protection Engineers, Dallas-Fort Worth Chapter, Dallas, Texas, September 11, 2006

The Great Freeze of 2011 – Society of Fire Protection Engineers, Dallas-Fort Worth Chapter, Dallas, Texas, January 14, 2013

SEMINARS PRESENTED: (continued)

When Codes Are Not Good Enough: A Case Study – Society of Fire Protection Engineers, Dallas-Fort Worth Chapter, Dallas, Texas, May 1, 2017

When Good Sprinkler Systems Go Bad – National Fire Sprinkler Association, North Texas Chapter, Grapevine, Texas, January 31, 2018

LICENSES IN 30 JURISDICTIONS:

Mr. Tate passed the national licensing examination in Mechanical Engineering in 1990 and the national licensing examination in Fire Protection Engineering in 2000. He passed both examinations on the first attempt.

Licensed Professional Engineer, State of Alabama No. 25274
Registered Professional Engineer in Mechanical Engineering, State of Arizona No. 35461
Licensed Professional Engineer, State of Arkansas No. 8902
Licensed Professional Engineer in Mechanical Engineering, State of California No. 32292
Licensed Professional Engineer, State of Colorado No. 39143
Licensed Professional Engineer, State of Connecticut No. 32166
Licensed Professional Engineer, State of Florida No. 59109
Licensed Professional Engineer, State of Georgia No. 28257
Licensed Professional Engineer, State of Idaho No. 11075
Licensed Professional Engineer, State of Illinois No. 062-052648
Licensed Professional Engineer, State of Kansas No. 17129
Licensed Professional Engineer, Commonwealth of Kentucky No. 20384
Licensed Professional Engineer in Mechanical Engineering, State of Louisiana No. 26551
Licensed Professional Engineer, Commonwealth of Massachusetts No. 50459
Licensed Professional Engineer, State of Michigan No. 44493
Licensed Professional Engineer, State of Mississippi No. 13301
Licensed Professional Engineer, State of Missouri No. 29559
Licensed Professional Engineer, State of Montana No. 16188PE
Licensed Professional Engineer, State of New Mexico No. 13463
Licensed Professional Engineer, State of North Carolina No. 30831
Licensed Professional Engineer, State of Ohio No. 62482
Licensed Professional Engineer, State of Oklahoma No. 16183
Licensed Professional Engineer, State of Oregon No. 74078PE
Licensed Professional Engineer, Commonwealth of Pennsylvania No. PE074501
Licensed Professional Engineer, State of South Carolina No. 24321
Licensed Professional Engineer, State of Tennessee No. 104718
Licensed Professional Engineer, State of Texas No. 68519
Licensed Professional Engineer, Commonwealth of Virginia No. 0402 041140
Licensed Professional Engineer, State of Washington No. 36462
Licensed Professional Engineer, State of Wisconsin No. 38852

EPA 608 (Ozone Depleting Refrigerant) Certified Technician - Universal

COURT TESTIMONY:

- April 24, 2019, *Khaled Yousef v. Air Conditioning Control Service Co. and EMY Diner L.P. dba Denny's*, Cause No. DC-18-00546, 14th Judicial District Court, Dallas County, Texas – Subject: Injury to Worker Removing Electric Panelboard Cover
- September 26, 2014, *Catherine Weidner v. Nationwide Property & Casualty Insurance Company*, Civil Action No. 4:13-cv-00263, United States District Court, Eastern District of Texas, Sherman Division – Subject: Damage of Corrugated Stainless Steel Tubing (CSST)
- January 24, 2014, *Kenner Plumbing Supply v. Rusich Detailing, Inc.*, Cause No. 651-121, 24th Judicial District Court, Division B, Jefferson Parish, Louisiana – Subject: Code Compliance of Storage of Flammable Liquids and LP Gas
- September 16-18, 2009, *Advanced Metallurgical Technology, Inc. v. Matheson Tri-Gas, Inc.*, Cause No. 236-224683-07, 236th Judicial District, Tarrant County, Texas – Subject: Storage Tank Explosion from Introduction of Liquid Nitrogen
- July 13, 2009, *Pioneer Civil Construction LLC and Trinity Universal Insurance Co. v. Volvo Construction North America, Inc.*, Case No. 5:08-CV-00207 JMM, United States District Court, Eastern District of Arkansas, Pine Bluff Division – Subject: Hydraulic Hose Separation and Fire
- January 28, 2009, *River Run Farm LLC v. Grundfos Pumps Corporation*, Cause No. 04-CI-00489, Laurel Circuit Court, Division 1, Commonwealth of Kentucky – Subject: Residence Fire Related to Hot Water Circulator Pump
- March 22 & 23, 2005, *Two Dots, Inc./Umlaut v. Tyco Fire (NV), Inc. and Grinnell Corporation*, Cause No. 03-12145, 101st Judicial District, Dallas County, Texas – Subject: Flood from Separated Fire Sprinkler Pipe Joint
- May 24 & 25, 2004, *Settlement Investment Management d/b/a Marina del Rey Apartments v. A.O. Smith Corporation and A.O. Smith Water Products Company, a Division of A.O. Smith Corporation*, Cause No. 48-193161-02, 48th Judicial District, Tarrant County, Texas – Subject: Burner Malfunction in Commercial Gas-Fired Boiler
- June 24, 2003, *Nationwide Mutual Insurance Company v. Robert D. Reed*, Case No. CV-N-01-0373-ECR-VPC, United States District Court, District of Nevada - Subject: Alteration of Gas Piping to Fuel an Intentional Fire
- April 5, 2001, *State of Nevada v. Robert D. Reed*, Cause No. CR-F0-00-1573, Fourth Judicial District Court – Department 1, Elko County, Nevada – Subject: Alteration of Gas Piping to Fuel an Intentional Fire

COURT TESTIMONY: (continued)

October 18, 2000, *Joseph Kropka v. KML, Inc.*, Cause No. 98-14058, 201st Judicial District, Travis County, Texas – Subject: Gas Range’s Lack of Involvement in Cause of Fire

April 10, 2000, *Terry G. Moore v. Shaio Yun Feng*, Cause No. 99-00741-H, 160th Judicial District, Dallas County, Texas – Subject: Minor Impact Auto Injury Evaluation

September 18, 1995, *John L. Nowak v. Dillard’s Department Stores*, Judicial District Court, Harris County, Texas – Subject: Automotive Accident Reconstruction

November 1993, *Robert Corbitt v. State Industries, Inc, et al.*, Cause No. 91-50091, 125th Judicial District Court, Harris County, Texas – Subject: Failure of Plastic Water Heater Drain Valve Due to Chlorine Attack

ARBITRATION APPEARANCES:

Mr. Tate has appeared in person at six arbitration hearings. The subjects were:

- Cause of damage to an automobile
- Error during the installation of an electric water heater
- Failure of a residential water filter
- Burner malfunction in a commercial gas-fired boiler
- Failure of plastic nut on toilet connector (two different cases)

DEPOSITION TESTIMONY:

May 21, 2019, *Whitaker v. United Service Mechanical LLC and BJ Hooker’s Distilleries Corp.*, Cause No. 2017-81568, 270th Judicial District Court, Harris County, Texas - Subject: Relationship of Code Violations to Injury During Flash Fire

April 12, 2019, *Janak II, Inc., dba Fairfield Inn v. ABCO Fire Protection, Inc. and Dimar Systems, LLC*, Cause No. 2016523188, 237th Judicial District Court, Lubbock County, Texas - Subject: Failure of Dry Pipe Fire Sprinkler Piping in Freezing Weather

August 24, 2018, *The Hanover Insurance Company as subrogee of Dallas Chop House et al.*, Cause No. DC-16-07828, 101st Judicial District Court, Dallas County, Texas - Subject: Malfunction of Restaurant Fire Suppression System

August 2, 2018, *Patricia Olivas et al. v. Monterrey Asset Management, LTD, et al.*, Cause No. 2016-DCV-3546, County Court at Law No. 6, El Paso County, Texas - Subject: Code Requirements for Smoke Alarms in Apartment

DEPOSITION TESTIMONY: (continued)

February 21, 2018, *AIG Property Casualty as subrogee of Leonard and Nanci MacKenzie v. Dallas Plumbing Company*, Cause No. DC-16-16107, 134th Judicial District Court, Dallas County, Texas - Subject: Plumber's Recommendations Regarding Aged Water Heaters

January 2, 2018, *Scoggin v. BNSF Railway Co. and TOG Hotel Fort Worth, LLC.*, Cause No. DCCV15-039-87, 87th Judicial District Court, Anderson County, Texas - Subject: Partial Separation of Chair Back from Chair Base

February 8, 2017, *Achim v. Texas Anti-Crime Security Service et al.*, Cause No. 2013-14246, 23rd Judicial District Court, Harris County, Texas - Subject: Building and Fire Code Compliance of Apartment Building where Fatality Fire Occurred

April 27, 2016, *Lexington Insurance Company et al. v. Leviton Manufacturing Company et al.*, Cause No. 45,927, 23rd Judicial District Court, Wharton County, Texas - Subject: Need for Fire Sprinkler Systems in Egg Production Facility in Rural Location

November 9, 2015, *Douglas Brumfield v. United Fire and Casualty Company and Simon Hubig Company*, Cause No. 2013-6380, Civil District Court, Division G-11, Orleans Parish, Louisiana - Subject: Improper Design and Construction of Fire Suppression System for Commercial Fryer

November 4, 2015, *Feigleson and Woolley v. Oberg Property Management Services et al.*, Cause No. D-1-GN-11-003133, 261st Judicial District Court, Travis County, Texas - Subject: Freeze Failures of Plastic Fire Sprinkler Piping

August 10, 2015, *Lori Guest et al. v. Priefert Manufacturing Co Inc.*, Cause No. 37634, Benchmark Arbitrations - Subject: Mechanical Design of Electric Power Disconnect Switch in Machine Control Box

August 28, 2014, *Andra Group, LP v. Security National Insurance Co.*, Cause No. 12-12602, 192nd Judicial District Court, Dallas County, Texas & *Empress Group Realty v. Security National Insurance Co.*, Cause No. DC-12-12603, 95th Judicial District Court, Dallas County, Texas - Subject: Extent of Damage to Rooftop Air Conditioning Units from Hail

July 17, 2014, *The Netherlands Insurance Company as Subrogee of Richard Winkles v. Crown Equipment Corporation*, Cause No. 2011-10780-16, 16th Judicial District Court, Denton County, Texas - Subject: Injury from Collision Between Lift Truck and Storage Rack

January 31, 2014, *James T. Moser III and Natalie Moser v. Atmos Energy Corporation, Hemphill Construction Company, Inc., et al.*, Cause No. 251-10-1082-CIV, 1st Judicial District, Circuit Court of Hinds County, Mississippi - Subject: Injury Fire from Natural Gas Leak

DEPOSITION TESTIMONY: (continued)

December 2, 2013, *Lexington Insurance Company as Subrogee of RR IL Care Group, L.P. and Sara Rozean v. RES ICD, L.P., d/b/a Integrated Construction and Development; ABCO Fire Protection, Inc.; and Allied Insulation & Supply, Inc.*, Cause No. 2012-504,487, 99th Judicial District, Lubbock County, Texas - Subject: Freeze Damage to Fire Sprinkler Piping

November 22, 2013, *Catherine Weidner v. Nationwide Property & Casualty Insurance Company*, Civil Action No. 4:13-cv-00263, United States District Court, Eastern District of Texas, Sherman Division – Subject: Damage of Corrugated Stainless Steel Tubing (CSST)

August 20, 2013, *Deford & Associates Corporate Interior Design v. Automatic Fire Protection, Inc.*, Cause No. 199-01940-2012, 199th Judicial District, Collin County, Texas - Subject: Standard of Care of Forensic Fire Protection Expert

June 17, 2013, *Fallon et al. v. Direct Distributors, Inc. and Vulcan Manufacturing Co., Ltd.*, Civil Action No. 4:12-cv-00174, United States District Court, Eastern District of Texas, Sherman Division – Subject: Injury from Fall of Bat-Wing Mower

March 7, 2013, *Great American Insurance and 1505 Elm Street Owners Association v. Ricchi Dallas Investments, LLC*, Cause No. DC-11-15827, 193rd Judicial District, Dallas County, Texas – Subject: Freeze Failure of Sprinkler Piping in Building Under Renovation

August 7, 2012, *Kenner Plumbing Supply v. Rusich Detailing, Inc.*, Cause No. 651-121, 24th Judicial District Court, Division B, Jefferson Parish, Louisiana – Subject: Code Compliance of Storage of Flammable Liquids and LP Gas

August 2, 2012, *Security National Insurance Co. v. Briohn Building Corporation et al.*, Case No. 12 CV 88, United States District Court, Eastern District of Wisconsin – Subject: Failure of Underground Water Main

May 24, 2012, *Hospice of East Texas v. Simplex Grinnell LP*, Case No. 6:11-CV-00209-MHS, United States District Court, Eastern District of Texas, Tyler Division – Subject: Freeze Failures in Dry Pipe Fire Sprinkler System

January 23, 2012, *Emmert Industrial Corp. v. Hulcher Services, Inc. and Union Pacific Railroad*, Cause No. 236-228956-08 236th Judicial District, Tarrant County, Texas – Subject: Derailment and Overturn of Heavy Load Freight Car

November 2, 2011, *360 Master Condominium Community Inc. v. Tyco Fire Suppression & Building Products and Tyco Fire Products LP*, Civil Action No. A09CA 933SS, United States District Court, Western District of Texas, Austin Division – Subject: Failure of CPVC Fire Sprinkler Pipe

DEPOSITION TESTIMONY: (continued)

December 15, 2010, *Higginbotham Bros. & Co. Ltd. v. Morris Air Conditioning & Heating, Inc.*, Cause No. CV-41934-08-12, District Court of Angelina County – Subject: Commercial Fire from Gas Furnace

December 9, 2010, *Bradley Glenn Luttrell and Cheryl Luttrell v. Atmos Energy Corporation*, Cause No. 09-05434-B, County Court at Law No. 2, Dallas County, Texas – Subject: Residence Explosion from Natural Gas Leak

October 5, 2010, *St. Paul Surplus Lines Insurance Company, as subrogee of Pelican Refining Co., LLC v. Polaris Engineering & Construction Inc., et al.*, Cause No. 2007-5979, 14th Judicial District Court, Parish of Calcasieu, Louisiana – Subject: Mechanical Malfunction of Industrial Circuit Breakers

March 25, 2010, *St. James United Methodist Church v. Perkins Fire Pro, Inc. et al.*, Cause No. CV 2008-784-5, Jefferson County Circuit Court, Arkansas – Subject: Unexpected Sprinkler Head Discharges

June 12, 2009, *Penske Plastics, Inc. v. Southern Woodenware, Inc.*, Civil Cause No. 05129, Circuit Court, Wilson County, Tennessee – Subject: Effect a Functional Sprinkler System Would Have Had on a Fire

May 19, 2009, *Coastal Drilling Company L.L.C. v. Lemoine Marine Refrigeration, Inc. and First Operations LP*, Cause No. 146,927, 16th Judicial District Court, Division “G”, Parish of St. Mary, Louisiana – Subjects: Thermal Experiments regarding HVAC unit involved in a Fire and Design of the HVAC unit

April 7, 2009, *Pioneer Civil Construction LLC and Trinity Universal Insurance Co. v. Volvo Construction North America, Inc.*, Case No. 5:08-CV-00207 JMM, United States District Court, Eastern District of Arkansas, Pine Bluff Division – Subject: Hydraulic Hose Separation and Fire

January 15, 2009, *Advanced Metallurgical Technology, Inc. v. Matheson Tri-Gas, Inc.*, Cause No. 236-224683-07, 236th Judicial District, Tarrant County, Texas – Subject: Storage Tank Explosion from Introduction of Liquid Nitrogen

November 25, 2008, *AM 400 North St. Paul LLC v. Integrity Air Conditioning LLC*, Cause No. 08-03642, 134th Judicial District, Dallas County, Texas – Subject: Separation of Plumbing Line

May 29, 2008, *Chandler v. Enterprise Two Fire & Protection*, Cause No. 06-06-467, 271st Judicial District, Wise County, Texas – Subject: Restaurant Kitchen Fire Suppression System

DEPOSITION TESTIMONY: (continued)

April 30, 2008, *Eloy Leal v. American Water Heater Company*, Cause No. 342-222752-07, 342nd Judicial District, Tarrant County, Texas – Subject: Corrosion Failure of Water Heater

December 19, 2006, *Hyman Hendler & Sons, Inc. v. Palmer Fire Protection*, Case No. BC343702, Superior Court of the State of California for the County of Los Angeles – Subject: Errors in Fire Sprinkler System Inspection

November 16, 2005, *Twin Brothers Marine L.L.C. v. Westchester Surplus Lines Insurance Company*, Cause No. 112,684, 16th Judicial District Court, Parish of St. Mary, Louisiana – Subject: Damage to Roll Forming Machine

September 13, 2005, *Plano-Richardson Lodge 2845 of the Benevolent & Protective Order of Elks v. Continental Casualty Company*, Cause No. 3:04-CV-1342-BH, United States District Court, Northern District of Texas, Dallas Division – Subject: Source of Water Related to Microbial Growth in Building

March 2, 2005, *Two Dots, Inc./Umlaut v. Tyco Fire (NV), Inc. and Grinnell Corporation*, Cause No. 03-12145, 101st Judicial District, Dallas County, Texas – Subject: Flood from Separated Fire Sprinkler Pipe Joint

October 15, 2004, *Bradbury & Stamm Construction Company, Inc. v. Grand Court Amarillo, L.P. et al.*, Cause No. 89095-C, 251st Judicial District, Potter County, Texas – Subject: Freeze and Flood from Fire Sprinkler System

August 3 & 4, 2004, *Holden v. Arch Chemicals, Inc. consolidated with Holden v. State of Arizona consolidated with Cardinal Health, Inc. v. Central Garden & Pet Co.*, Cause Nos. CV 2000-016167, CV 2001-009443, CV 2002-014966, CV 2002-015018, CV 2002-014225, Superior Court, Maricopa County, Arizona – Subject: Thermal Interactions Between Self-Heating Calcium Hypochlorite, Its Packaging and Its Storage Environment

May 18, 2004, *John L. Chilton and Karen K. Chilton v. Air Rite Air Conditioning Company*, Cause No. 153-189941-01, 153rd Judicial District, Tarrant County, Texas – Subject: Fire in Gas Furnace Closet

April 20, 2004, *Settlement Investment Management d/b/a Marina del Rey Apartments v. A.O. Smith Corporation and A.O. Smith Water Products Company, a Division of A.O. Smith Corporation*, Cause No. 48-193161-02, 48th Judicial District, Tarrant County, Texas – Subject: Burner Malfunction in Commercial Gas-Fired Boiler

November 4, 2003, *Grace Tuck v. A.O. Smith Corporation*, Cause No. 02-7697-F, 116th Judicial District, Dallas County, Texas – Subject: Corrosion Failure of Water Heater

DEPOSITION TESTIMONY: (continued)

July 17, 2003, *3-JJJ Construction Inc. v. Dallas Automatic Sprinkler, Inc.*, Cause No. 02-04579-H, 160th Judicial District, Dallas County, Texas – Subject: Corrosion of Underground Fire Water Main

June 20, 2003 and May 29, 2002, *Savcor Coatings, Ltd. v. Able Machinery Movers, Inc.*, Cause No. 01-4163-F, 116th Judicial District, Dallas County, Texas – Subject: Preparation of Machinery for Shipping

February 7, 2003, *Wuu Jau Company and Assurance Company of America v. GLM Industrial Fire Safety*, District Court of Oklahoma County, Oklahoma – Subject: Sprinkler Piping Failure

October 21, 2002, *Debora Brooks v. Big Daddy's Wrecker, Inc.*, Cause No. 01-04-236, 271st Judicial District, Wise County, Texas – Subject: Design of Winch Controls

January 12, 2001, *Nationwide Lloyds Co. as Subrogee of Baharak Shams and Anthony Afafsari Shams v. Candlewick Homes, Inc., Masonry Supply, Inc. and The Vermont Castings Majestic Products Co.*, Cause No. 67-182354-00, 67th Judicial District, Tarrant County, Texas – Subject: Instructions for Fireplace Installation

November 10, 2000, *Commerce and Industry Insurance Company v. Grinnell Corporation, et al., Civil Action No. 97-0775, Section "R" Magistrate 2 – Consolidated With – Ian David McAuslin, et al. v. Grinnell Corporation, et al.*, Civil Action No. 97-803, United States District Court, Eastern District of Louisiana – Subject: Sprinkler Piping Failures and Impairment of Sprinkler Performance

November 7, 2000, *Old World Antiques, Inc. and Oswald Printing and Office Supply, Inc. v. American Water Heater dba Craftmaster and Sterling Pipe and Tube*, Cause No. B-30879-0004, 242nd Judicial District, Hale County, Texas – Subject: Corrosion Failure of Water Heater

April 6, 2000, *State Farm Lloyds as Subrogee of Craig Bagley and Kimberly Bagley v. Mark Williams dba Mark Williams Construction, Tim Smith dba Tim Smith Plumbing*, Cause No. 249-221-98, 249th Judicial District Court, Johnson County, Texas – Subject: Temperature Testing at Flue of Gas Water Heater

September 1, 1999, *Joseph Kropka v. KML, Inc.*, Cause No. 98-14058, 201st Judicial District, Travis County, Texas - Subject: Gas Range's Lack of Involvement in Cause of Fire

July 12, 1999, *Christopher Scott Little and Catherine Little v. Bradford-White Corporation*, Civil Action No. 98-2200, United States District Court, Western District of Arkansas, Fort Smith Division – Subject: Design of Instantaneous Gas Water Heater

DEPOSITION TESTIMONY: (continued)

April 28, 1999, *Harms v. Charvoz Dauphin v. Suspa GmbH and Stabilus GmbH*, Civil Action No. 4:97-CV-408-Y, United States District Court, Northern District of Texas, Fort Worth Division – Subject: Mechanical Design of Office Chair

February 25, 1999, *Les Hendrix and David Hendrix v. Waxahachie Moore Properties v. Briggs & Stratton Company, Grayson Company of the Southwest and Ground Hog, Inc.*, Cause No. 56451, 40th Judicial District, Ellis County, Texas – Subject: Injury from Pull Rope of Gasoline Engine

September 22, 1997, *James Vernon Davis v. General Electric Corporation*, Cause No. B-142-017, 60th Judicial District, Jefferson County, Texas – Subject: Carbon Monoxide Poisoning from Gas Furnace

March 2, 1994, *Harry McAninch, Jr. v. C. Jim Stewart & Stevenson, Inc., et al.*, Cause No. 93-CV-0201, 212th Judicial District Court, Galveston County, Texas – Subject: Collision Between Forklift and Rack Shelving

June 24, 1993, *Katherine Hedding, et al. v. Cummins Southern Plains, Inc., et al.*, Cause No. 92-034534, 281st Judicial District Court, Harris County, Texas – Subject: Reconstruction of Auto/Pedestrian Collision

June 10, 1993, *Merlinda Rhodes, et al. v. Winona White*, Cause No. 93-009442, 270th Judicial District Court, Harris County, Texas – Subject: Damage Match/Mismatch Between Vehicles

September 16, 1992, *Robert Corbitt v. State Industries, Inc, et al.*, Cause No. 91-50091, 125th Judicial District Court, Harris County, Texas – Subject: Failure of Plastic Water Heater Drain Valve Due to Chlorine Attack

January 23, 1992, *Randy J. Strobe v. Ronald Lynn Humpreys, Individually and d/b/a Ron's Towing & Recovery*, Cause No. 90-04318, 334th Judicial District Court, Harris County, Texas – Subject: Reconstruction of Collision involving Heavy Trucks