

STEPHEN P. WARHOE, PH.D., P.E., CCP, CFCC



Dr. Warhoe is a Senior Principal with Long International and has a proven record as a testifying expert on delay, productivity loss, cost damages, project audit, and construction and project management. His background is rooted in years of practical experience planning, controlling, and managing major design and construction projects well over US\$4 billion in value. With over 35 years of experience in project controls, risk management, project management, construction management, and dispute resolution, he is a recognized expert in schedule delay analysis, productivity loss, damage assessment, project controls, and construction dispute avoidance and resolution. Dr. Warhoe is also a recognized construction expert on complex, disputed projects valued over US\$6 billion and individual disputes over US\$3 billion. Dr. Warhoe also specializes in productivity loss analysis and quantification determination. He has modeled productivity loss, including the

use of system dynamics modeling, on which he wrote his Ph.D. dissertation. As recognition for his expertise and respect in the project controls field, he was elected president of AACE International from 2008 to 2009 and was made an Honorary Life member in 2019. He was the primary author or co-author on three of AACE's industry-recognized Recommended Practices relating to 1) the change management process, 2) identification of the elements necessary for practitioners to demonstrate entitlement to a change order request or claim, and 3) demonstrating entitlement to cumulative impact claims. He has also contributed to several other Recommended Practices published by AACE International and is currently the Vice President of AACE's Technical Board.

EDUCATION

Ph.D., Strategy, Project & Program Management, Skema Business School, Paris, France, 2012

M.B.A., Colorado State University, Denver, 1993

B.S., Civil Engineering, University of Colorado, Denver, 1986

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Colorado, No. 29909

Certified Cost Professional (CCP), AACE International, No. 01430

Certified Forensic Claims Consultant (CFCC), AACE International, No. 12

PROFESSIONAL AFFILIATIONS

AACE International:

- Association Technical Director, 2020–Present
- Technical Board Member, 2010–Present
- Honorary Life Member, 2019
- Association President, 2008–2009

TEACHING EXPERIENCE

Adjunct Professor, International Masters in Business Administration program, Tongji University, Shanghai, China, “Topics in Project Management and Cost Engineering,” 2011–2013

Adjunct Professor, Masters in Project Management, Skema Business School, Paris, France, “Cost Engineering Topics,” 2009–2011

TECHNICAL EXPERIENCE

Representative U.S. and international technical experience includes (in no particular order):

- Development of project and risk management plans and procedures for complex mega projects
- Management of commercial, manufacturing, and heavy civil construction projects, including program and project management, project controls, and management of major domestic and international engineering and construction contractors as the owner's representative
- Forensic identification and systemic evaluation of significant engineering and construction problems and their cause/effect relationship leading to cost and schedule overruns
- Management of project performance measurements and assessments using earned value management and other techniques
- Direct and indirect cost calculation and assessment
- Audit of a mega project's processes and procedures developed by the contractor regarding its program and project management, performance management, and project controls
- Deposition and expert witness testimony
- Development of computerized database management systems
- CPM schedule analyses of the impacts of delays, disruption, acceleration, and loss of labor productivity
- Contract/entitlement analysis
- Speaking on and authoring numerous articles and other publications about construction claims, project cost and schedule control, change order management, and project management

PROJECT EXPERIENCE

As an expert in program/construction management and claims and dispute resolution consulting, Dr. Warhoe has worked on numerous U.S. and international projects representing owners, designers, contractors, and insurance underwriters.

Representative Project, Program, and Construction Management Experience

- On behalf of the Panamanian government, performed a project and construction management prudence assessment of the contractor responsible for managing the \$5.25 billion Panama Canal Expansion program and the prime contractors performing the work. Responsibilities included assessing the contractor's performance regarding risk management, schedule management, budget management, cost control, document controls, change and claims management, and reporting to the Panamanian government. Also worked with the Panamanian government and its counsel to strategize how to address claims submitted by construction contractors.
- Performed a cold-eye class three estimate review on behalf of the owner concerning a FEED-level budgetary cost estimate developed by the EPC contractor for the development of a major mine (four metals) in Panama. The project's EPC contractor performed the project on a fast-track basis. Responsibilities included performing a qualitative review, including evaluating the basis of estimate for alignment with the cost estimate and determining the maturity levels of the design, project schedule, equipment procurement plan, and risk assessment process used to calculate the estimate's contingency value.
- Lead Schedule Engineer for the construction of Limerick Nuclear Generating Station, Unit II in southeastern Pennsylvania. Responsibilities included performance tracking and forecasting of all civil construction on the US\$4 billion program. Directed civil construction superintendents daily as to what

work was the highest priority for completion, monitored construction performance, forecasted completion dates, coordinated the work of other craft areas, and tracked delayed and disrupted work on the project.

- On behalf of an independent power transmission firm in Ontario, Canada, considered a nuclear power generation plant operator's request concerning alleged delay impacts resulting from a *force majeure* shutdown event and advised the transmission owner. Performed an audit of the operator's shutdown procedures and reviewed documentation related to the shutdown and its cause. Based on document review and analyses, provided opinions concerning: a) whether delay impacts to the Unit I commissioning period occurred coincident with the Unit II *force majeure* event, and b) if the resulting Unit I delays were attributable to work associated with or caused by the Unit II *force majeure* event.
- As Project Manager for a major U.S. brewing company's capital construction program, led and managed all facility and utility infrastructure capital improvement project work on the largest brewing manufacturing plant and warehouse facility in the U.S. and other U.S. brewing, packaging, and warehouse facilities. Responsibilities included design consultant procurement, design management, construction specification development, major equipment vendors, and contractor procurement, including oversight of bidding processes, bid evaluations, contractor change order management, and maintaining overall project schedule and budget management.
- Program Manager for a prominent Washington State Department of Transportation (WSDOT) mega program valued at US\$4.3 billion. Responsibilities included creating the program's business vision through consensus-building methods and leading the program's development and implementation regarding business processes, procedures, and performance measures. The program included the replacement of the world's longest floating bridge and several interchanges located over the length of a six-lane freeway. Additionally, recruited, hired, managed, coached, mentored, and trained business staff concerning the following functions:
 - Project controls, including planning, CPM scheduling (Primavera P6), and earned value cost control (Ares Prism)
 - Cost estimating
 - Contracts and consultant management, including developing, reviewing, and approving consultant contracts
 - Finance planning and management
 - Budget planning and development
 - Records management and document control
 - Construction program management, including review and analysis of contractor change requests and claims.
 - Information Technology (IT) support

Was also responsible for making presentations to WSDOT project and regional senior management and staff. Provided project management-related training to project staff and many WSDOT management staff.

- Worked with representatives of BAA to create a risk management program for the US\$6 billion Heathrow International Airport capital improvement program. Was on the team assigned to develop a risk management program that integrated BAA's updated policies and procedures with new software infrastructure. Developed risk management processes and procedures at the project, program, and portfolio levels.
- Represented the Malaysian government as a Construction Manager and Project Controls Expert. Oversaw 21 civil and process projects cumulatively valued at over US\$1 billion at the Kuala Lumpur International Airport, a greenfield mega civil construction program valued at over US\$3.6 billion. Some of the most significant projects included the construction of the airport fuel lines, fuel tank farm, transition structure for

the external fuel supply line, and airport parts and equipment warehouse with automatic storage and retrieval systems (ASRS).

- Led and managed the Washington State Department of Transportation's (WSDOT) risk management for a fast-tracked US\$4 billion tunnel/freeway design and construction program in Seattle, Washington. Duties included developing and implementing risk management processes and procedures tailored to WSDOT's risk management procedures to meet the risk management needs of one of the most complex programs executed in the state's history.
- Managed a US\$25 million nationwide construction management Indefinite Delivery/Indefinite Quantity (ID/IQ) contract with the U.S. National Park Service to upgrade and add new infrastructure.
- Construction Manager for the construction of a US\$13 million middle school for the Poudre School District in Fort Collins, Colorado.
- Program and Construction Management Consultant for the US\$1 billion Clark County School construction program in Las Vegas, Nevada. Duties included evaluating claims and disputes received by the school district from construction contractors and advising district management on construction management issues.
- Lead schedule controls engineer on a US\$100+ million Motorola semiconductor manufacturing plant design and construction project, including clean room, support facilities, and equipment installation. The project was in Austin, Texas.
- Lead cost and schedule engineer on a US\$100 million+ design and build Fujitsu semiconductor manufacturing plant in Gresham, Oregon.

Representative Claim and Dispute Resolution Experience

- Served as a delay and schedule expert concerning a dispute between a South American oil refining company and an EPC contractor relative to a cost-reimbursable US\$3.2 billion design, procurement, and construction expansion of a major oil refinery in the country of Colombia. In an ICC International Court of Arbitration proceeding, the owner asserted that the EPC contractor overcharged the owner by an additional US\$3 billion and delayed the mechanical completion of the refinery by approximately two and a half years. Evaluated and analyzed the baseline schedule, monthly schedule updates spanning over five years, and the project records to create a comprehensive delay analysis that objectively allocated delay responsibilities to the appropriate parties. Delays on this project amounted to nearly US\$1 billion in disputed time-related damages. Other analyses included man-hour and material quantity resource reconciliations between the EPC contractor's productivity reports and schedule updates and an analysis of delays during the project's pre-commissioning, commissioning, and start-up phase. In addition to cross-examination testimony, participated in three joint expert sessions during which tribunal members elicited expert testimony on various topics, including delay, schedule analysis, and change management.
Arbitration Testimony.
- On behalf of the owner, provided analyses and prepared expert reports on the defense of claims and viability of counterclaims to recover delay and disruption costs paid to an EPC contractor on a more than US\$6 billion LNG plant in Australia. In total, each party's alleged damages exceeded US\$2 billion. Dr. Warhoe's analyses included: 1) an assessment of the contractor's expert's quantification of costs incurred for various onsite and offsite support facilities, and 2) an assessment of the contractor's expert's quantification of its management personnel costs during the delay period.
- On behalf of an insurer for a major rail transportation company in the U.S., performed a delay analysis regarding the business interruption loss it suffered due to the shutdown of an oil refinery in Pennsylvania. The plant shutdown resulted from a fire and explosions at the plant. After the shutdown, the refinery owners filed for bankruptcy and decided not to rebuild the plant. In anticipation of a trial, calculated the

time it would have taken the refinery owners to rebuild the plant and place it back into operation to determine the duration of the business interruption. A settlement was reached between the parties before depositions were taken and the trial.

- Performed expert cost and quantum analyses concerning a U.S. Federal Court suit between a major EPC contractor and its commercial general liability insurance underwriters relative to rework at several major coal-fired power plants in the Ohio River Valley. The dispute related to the EPC contractor's failure to perform its project scope of work, which resulted in major design errors on a US\$500 million design, procurement, and construction program. The scope of work was associated with retrofitting eight scrubber units located at four coal-fired power plants. *Two Deposition Testimonies.*
- Assisted in cost analyses concerning disputed design and construction cost overruns for the initial construction and ensuing Three Mile Island retrofit work as part of central Ohio's multibillion-dollar Zimmer Nuclear Power Plant.
- Retained by counsel for a qui tam plaintiff to review a prime construction contractor's pricing procedures and the pricing for various bid unit prices involved in constructing a major U.S. Corps of Engineers dam in southern California. In addition, provided opinions regarding the adequacy and accuracy of data in support of the procedures and preparation of various unit price bids.
- Represented the owner in negotiations of over US\$7 million in construction changes disputed by the general contractor on a US\$7 million steel manufacturing plant renovation in Pueblo, Colorado.
- Evaluated project delays and alleged damages incurred by the contractor concerning the construction of a multi-floor residential housing facility in Chicago, Illinois, for students attending the University of Chicago. The project delays and other damages arose from poor installation productivity and quality defects caused by the contractor's exterior metal wall panel subcontractor. *Arbitration Testimony.*
- Evaluated and performed schedule delay expert witness services regarding an approximately \$25 million dispute between an electric power generator and a power distribution company in Alberta, Canada. Services included identifying and analyzing project records to determine schedule impacts resulting from accelerating the start of planned outage work in parallel with necessary work associated with a forced outage on a coal-fired power plant.
- Performed schedule delay expert witness services, including testimony, concerning an approximately US\$30 million dispute between an electrical power generator and a consortium of power distributors in Alberta, Canada, regarding a coal-fired power plant. *Arbitration Testimony.*
- Evaluated and analyzed delays claimed by a structural steel fabrication and erection subcontractor regarding the construction of a major sports stadium in the State of Qatar. The stadium was constructed initially for the 2022 FIFA World Cup soccer tournament. The steel subcontractor claimed it was delayed in the fabrication and construction phases for several reasons, including owner-initiated scope changes that affected the fabrication process and several obstacles on the project site that impacted the construction phase.
- Provided evaluation and expert opinions concerning delays and the contractor's project management practices in a construction dispute between a developer and its prime contractor. The project concerned the construction of a mixed-use commercial building in Boise, Idaho.
- On behalf of a joint venture design-builder, provided a third-party evaluation and expert opinions regarding the delay analysis and expert reports written by its dispute resolution consultant. The dispute related to the contractor's claim of over 1,400 days of delays during a bridge's design and construction phases. The objective was to identify the primary strengths and weaknesses concerning the delay analysis methodology used by the client's expert and how the expert supported his conclusions and opinions.

- Delay expert concerning a construction dispute on an oil refinery near Karbala City in the Republic of Iraq. The dispute was between the general contractor and its civil subcontractor. The subcontractor's role was to provide civil-related construction services for process and non-process facilities within the refinery project. The International Chamber of Commerce (ICC) adjudicated the dispute via the International Court of Arbitration. Provided analyses, opinions, and expert testimony concerning the delays the general contractor claimed occurred during the civil subcontractor's execution of its two subcontracts. *Arbitration Testimony.*
- Provided expert construction management analyses and expert testimony on behalf of the owner concerning a contract dispute with its scaffolding contractor relative to the construction of a more than US\$9 billion chemical plant in Lake Charles, Louisiana. The project, once complete, was to convert ethane feedstock into ethylene and a range of ethylene-based derivatives. Provided expert opinions and testimony concerning whether changes in scaffolding quantities or project prolongation entitled the scaffolding contractor to change the contract's indefinite all-inclusive unit rate. *Deposition and Arbitration Testimony.*
- Assisted with the CPM schedule and productivity analyses relative to constructing a major oil and gas management facility for the Kuparuk Oil Field near Prudhoe Bay, Alaska. Weather conditions played a significant role in the analyses.
- Performed delay and productivity analyses on behalf of the city of Dayton, Ohio, concerning the construction of airplane taxiways at the primary airport for the city. *Deposition Testimony.*
- Served on behalf of a general contractor that constructed a stormwater (snowmelt runoff) collection system, which fed a diversion line through the Continental Divide. The diversion line was built to enhance the water supply system of the city of Cheyenne, Wyoming municipal water system. Assisted in the analysis and preparation of a claim for an equitable adjustment. Issues included constructive changes to the contract occurring in an environmentally and seasonally weather-restrictive contract framework and resulting delays and cost impacts.
- Evaluated CPM schedule delay and damage analyses submitted by a general contractor and performed independent CPM schedule delay, productivity, and damage analyses regarding the construction of a plant to manage used deicing fluid at the Denver International Airport. Delay analysis addressed the contractor's claim that delays caused by the owner affected its ability to complete on time due to the movement of critical work into periods of cold weather conditions. Damage analysis included evaluating the contractor's expended costs, the base bid estimate, delay analysis, and change orders. *Deposition Testimony.*
- Aided in the analysis and expert strategy in defense of a delay claim by a contractor building a school in a coastal village in western Alaska. The contractor was responsible for delivering construction materials to the site. Most of the project's materials were provided via barge, limited by a relatively short delivery window due to Alaskan coastal climate conditions. Sensitivity to the local climate was an essential factor in the schedule analysis.
- Provided construction management and dispute resolution expertise concerning the major renovation and upgrade of a meat processing plant in southwest Oklahoma. Reviewed the contractor's CPM schedule and payment applications and provided opinions regarding contractor entitlement.
- Evaluated circumstances that allegedly led to a construction accident resulting in the electrocution of a construction worker during a project to add underground utility piping for an operating hospital in Edmonds, Washington. Wrote an expert report addressing the prime contractor's liability associated with the accident. *Deposition Testimony.*
- Evaluated a schedule delay analysis submitted by a contractor concerning additions and modifications to Washington State SR-518 projects. Evaluated project baseline CPM schedule and updates and reconciled

with state inspection reports along with contractor's narrative delay claim. Submitted a report of findings and recommendations to the state's executive management team.

- Performed CPM schedule delay, productivity, and damage analyses supporting a contractor's claim relative to the construction of luxury condominium units in Telluride, Colorado.
- Developed CPM schedule delay analysis on behalf of a developer involved in a dispute with a contractor terminated for convenience relative to a multi-unit apartment complex in Denver, Colorado. *Arbitration Testimony.*
- Performed construction performance analysis and CPM schedule delay analysis for a general contractor that disputed services provided by its glass subcontractor on constructing an engineering classroom building on the University of Colorado campus in Boulder, Colorado. *Arbitration Testimony.*
- Performed contract evaluation, CPM schedule delay, and cost analyses on behalf of an architect-engineer concerning a dispute with the Crawford County (Ohio) commissioners for a new jail facility's design and construction management.
- Represented counsel for an Italian general contractor and assisted in the CPM schedule delay analysis for the construction of two hospitals in Kuwait.
- Assisted in the cost analysis of the post-fire reconstruction of the MGM Grand Hotel in Las Vegas, Nevada.

PROFESSIONAL EXPERIENCE

Long International, Inc.

Seattle, Washington Area (June 2009 to Present)

Dr. Warhoe provides various dispute resolution services including, but not limited to, schedule delay and acceleration analyses, productivity analysis, change order analysis, cost and damages analyses, review of bids, estimates, and contract documents, claims and expert report preparation, and expert testimony.

Baillie & Associates

Seattle, Washington (July 2006 to June 2009)

Dr. Warhoe served as Senior Consultant to the Washington State Department of Transportation regarding the more than US\$4 billion SR-520 Bridge reconstruction projects. He established program controls performance standards and developed management processes and procedures. In addition, he developed, reviewed, negotiated, and approved all consultant contracts. Moreover, he delivered executive reports, presentations, and training sessions to senior management and project staff. Dr. Warhoe also recruited, hired, and trained all project team members.

URS Corporation

Denver, Colorado (July 2002 to June 2006)

Dr. Warhoe was the Regional Manager of the Construction Management and Claims and Dispute Resolution Practices and oversaw the company's regional construction projects. He managed all Division of Construction dispute resolution and construction management services encompassing a nine-state region. Additionally, he directed business development and marketing for construction management and dispute practice divisions. Dr. Warhoe was the company's primary testifying expert for the Rocky Mountain region on issues of delay and damages related to construction project disputes. He also analyzed and wrote comprehensive expert reports pertaining to delay disputes and led a profitable office with 20–25 direct staff reports.

PEAC, LLC/CDI*Denver, Colorado (September 1998 to June 2002)*

As a Senior Project Manager for the Coors Brewing Company, Dr. Warhoe planned and managed all phases of building, plant infrastructure, and utility projects at the Coors plants in Golden, Colorado, and Memphis, Tennessee. In addition, Dr. Warhoe prepared expert delay, productivity, and damage analyses as an independent consultant. Moreover, he provided litigation support, including expert testimony concerning construction disputes.

URS Corporation*Denver, Colorado (October 1990 to September 1998)*

As a Project Controls Manager, Dr. Warhoe focused on managing project controls for major environmental contracts out of the Denver and Seattle company offices. He managed the controls for two US\$100 million+ federal environmental mitigation programs and several other projects in various business sectors. Dr. Warhoe also created and successfully implemented the company's first Earned Value Management System, which was employed to manage the performance of both environmental programs.

CRSS, Inc.*Greenville, South Carolina, and Los Angeles, California (July 1987 to October 1990)*

Dr. Warhoe served as a Project Controls Engineer on numerous projects, including designing microchip manufacturing plants and amusement parks. He was responsible for developing and implementing a design performance management system for a multi-discipline design project to ensure an on-time and under-budget delivery.

Bechtel Western Power Company*Pottstown, Pennsylvania (January 1987 to July 1987)*

As a Schedule Engineer, Dr. Warhoe was responsible for all civil construction scheduling associated with constructing the Limerick Nuclear Generating Station located near Pottstown, Pennsylvania. The scheduled construction work included structural erection, major concrete structures, pipe penetration seals, carpentry, structural footings, and major excavation. Dr. Warhoe introduced and initiated the use of Primavera's scheduling software as a tool for the Civil Construction Department's planning and progress management.

Kellogg Corporation*Littleton, Colorado (November 1984 to December 1986)*

As a Senior Claims Analyst, Dr. Warhoe performed schedule and cost/damage analyses for various construction dispute and litigation matters. Projects included nuclear power plants, major hotels, airports, pipelines, hospitals, and manufacturing plants.

PUBLICATIONS, SEMINARS, AND SPEAKING ENGAGEMENTS

"Demonstrating Entitlement to Cumulative Impact Claims in Construction," AACE International Recommended Practice No. 130R-23, April 2023.

"Strategies for Testifying Experts to Handle Attorney Challenges," AACE International ConEx, San Antonio, Texas, June 2022, co-author.

- “Demonstrating Entitlement for Contract Change Orders or Claims – As Applied in Engineering, Procurement, and Construction,” AACE International Recommended Practice No. 120R-21, April 2022.
- “Contract Change Management – As Applied in Engineering, Procurement, and Construction,” AACE International Recommended Practice No. 100R-19, February 2020.
- “Modeling Productivity Loss Using System Dynamics to Understand Cumulative Impact,” Cost Engineering Magazine, September/October 2014.
- “Third Party Cold-Eyed Estimate Reviews and Validations,” AACE International Annual Meeting, New Orleans, Louisiana, June 2014.
- “Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption – A System Dynamics Approach,” Ph.D. Dissertation, Skema Business School, Lille, France, August 2012.
- “Understanding Change of Scope Effects on DBB Projects Using System Thinking,” AACE International Annual Meeting, Anaheim, CA, June 2011.
- “Understanding the Effects of Rework and Change of Scope on Productivity and Project Performance Using Systems Thinking,” System Dynamic Society Annual Conference, Seoul, South Korea, July 2010.
- “Schedule Specifications – Handle with Care,” Cost Engineering Magazine, January/February 2009.
- “Is the Theory of Cumulative Impact a Provable Reality?” Cost Engineering Magazine, July 2007.
- “Is the Theory of Cumulative Impact a Provable Reality?” AACEI Annual Meeting, Las Vegas, Nevada, June 2006.
- “What Can Be Done to Avoid Claims? A Common-Sense Approach to Avoid Claims for Project Managers,” City of Boulder, Colorado, January 2006.
- “Construction Management: A Concept in Search of a Definition,” Co-Presenter, Super Conference, San Francisco, California, December 2005.
- “Cumulative Impact Claims – Are they Real?” Colorado Bar Association, Denver, Colorado, November 2005.
- “Project Documentation – Use It or Lose It,” co-presented with John Hanover, Esq., Peckar & Abramson, P.C., Los Angeles Bar Association, Los Angeles, California, September 2005.
- “Mitigate and Manage Adverse Weather Impacts,” URS Corporation’s Claims & Disputes Newsletter, February 2005.
- “The Basics of Earned Value Management,” AACEI Annual Meeting, Washington, D.C., June 2004.
- “Understanding Risk to Mitigate Changes and Avoid Disputes,” co-authored with Adam Winegard, URS Corporation, AACEI Annual Meeting, Orlando, Florida, June 2003.
- “Define Allowable Project Indirect Costs Early,” URS Corporation’s Claims & Disputes Newsletter, March 2003.

TESTIMONY EXPERIENCE

- 2021 *Reficar v. Chicago Bridge & Iron (CB&I)*, International Court of Arbitration, International Chamber of Commerce, virtual testimony. *Arbitration Testimony*.
- 2021 *Apache Industrial v. Sasol Chemical*, American Arbitration Association, virtual testimony. *Arbitration Testimony*.



- 2021 *Apache Industrial v. Sasol Chemical*, American Arbitration Association, virtual testimony. *Deposition Testimony*.
- 2020 *HDGSK Unincorporated JV v. Al Essam Group*, International Court of Arbitration, International Chamber of Commerce, virtual testimony. *Arbitration Testimony*.
- 2019 *Black & Veatch Corporation v. Aspen Insurance (U.K.) LTD and Lloyd's Syndicate 2003*, U.S. Federal Court, Kansas City; deposition in Seattle, Washington. *Deposition Testimony*.
- 2019 *James McHugh Construction Company v. G&L Associates & The Hanover Insurance Company*, American Arbitration Association; Chicago, Illinois. *Arbitration Testimony*.
- 2016 *Estate of Jason F. Vanlandingham v. Sellen Construction Co.*, Washington State Superior Court; Seattle, Washington. *Deposition Testimony*.
- 2014 *Black & Veatch Corporation v. Aspen Insurance (U.K.) LTD and Lloyd's Syndicate 2003*, U.S. Federal Court, Kansas City; deposition in Berkeley, California. *Deposition Testimony*.
- 2012 *TransAlta Generation Partnership v. ASTC Power Partnership*, Calgary, Alberta, Canada. *Arbitration Testimony*.
- 2004 *City and County of Denver, Colorado (Denver International Airport) v. TechSites, Inc.*, Denver, Colorado. *Deposition Testimony*.
- 2003 *Alliance Construction Solutions, Inc. v. GlassTech, Inc.*, Boulder, Colorado. *Arbitration Testimony*.
- 2002 *Del Norte Neighborhood Development Co. v. Stanisz Construction Co.*, Denver, Colorado. *Arbitration Testimony*.
- 2001 *City of Dayton, Ohio v. Excel Construction Co.*, District Court, State of Ohio; Columbus, Ohio. *Deposition Testimony*.