

G. Daniel Gagaris | Managing Principal Engineer - Large/Complex Loss, P.E.

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Professional Summary:

Mr. Gagaris has over 40 years of experience in a wide variety of engineering projects including forensic investigations, failure cause and origin investigations, building condition assessments, community public works infrastructure, gas and oil infrastructure, geotechnical investigations, hydrological flood-wave studies, transportation infrastructure assessments including bridges, roads, tunnels, etc., and wind-wave damage determination. He has led multiple construction defect and structural failure investigations as well as forensic teams for investigations of industrial fires and explosions. Mr. Gagaris has extensive experience working overseas for governmental organizations including assignments in the Caribbean, Central America, Europe, and South America. Mr. Gagaris has served as lead manager and inspector for multiple large catastrophic (CAT) event assignments as well as unique, complex losses, and he has provided expert opinions and testimony.

Areas of Expertise:

- Building Condition Assessments
- Civil Engineering Analysis and Design
- Construction Defect Investigations
- Construction and Project Management
- Dam and Levee Construction & Damage Assessments
- Earthquake Damage Assessments
- Failure Origin and Cause Evaluations
- Fire and Explosion Damage Assessments
- Foundation Deficiencies
- Gas & Oil Infrastructure Damage Assessments
- Marine Docks and Facilities Condition Assessments
- Power Generation Facilities
- Public Works Infrastructure Damage Assessments
- Resort and Hotel Damage Assessments
- Roof Condition and Damage Assessments
- Storm Damage Assessments
- Structural Failure Investigations
- Tank and Basin Failures and Damage Assessments
- Radio/Television Transmission Tower and Station Damage Assessments
- Tunnel and Bridge Damage Assessments

Licenses and Certifications:

Professional Engineer, Connecticut, License #PEN.0029671

Professional Engineer, Louisiana, License #PE.0034390

Professional Engineer, Maine, License #PE13304

Professional Engineer, New Hampshire, License #14148

Professional Engineer, Rhode Island, License #PE.0011065

Professional Engineer, Texas, License #102613

Professional Engineer, Vermont, License #018.0095994

Professional Engineer, Virginia, License #0402029236

Professional Engineer, Washington, License #38207

Professional Engineer, Puerto Rico, License #17641 (Inactive)

Selected Project Experience:

Blizzards and Ice Storms

Supervised and provided onsite inspections and damage assessment reports documenting the type and severity of reported ice and snow damage at various residential, commercial and industrial properties during the winter storm events of 1996, 1999, 2002, 2001, 2003, 2010, 2011 and 2015. Provided recommendations for repair or replacement of property damage in conjunction with other building consultants and estimators for insurance client. Efforts also included defense, recovery or subrogation support.

Builder's Risk Investigations

Supervised or inspected numerous Builder's Risk claims for a wide variety of residential, commercial, and industrial facilities with reported damage or other construction related issues including possible project schedule impact. Providing onsite inspections and damage assessment reports documenting the type and severity of the damage and provided recommendations for repair or replacement in conjunction with other building consultants and estimators for insurance client. Efforts also included defense, recovery or subrogation support.

Commonwealth of Virginia

Led a team of engineers who performed storm damage assessments at various state parks and other properties including buildings, bridges, dams and spillways, roads, etc. Developed scope of storm damage, repair methods, repair costs, and reconstructions durations in conjunction with other building consultants and estimators for insurance client.

Concrete and Specialty Stone Investigations

Supervised and provided onsite inspections and damage assessment reports documenting the type and severity of reported concrete and stone damage at various residential, commercial and industrial properties. Provided recommendations for repair or replacement in conjunction with other building consultants and estimators for insurance client. Efforts also included defense, recovery or subrogation support.

Selected Project Experience (continued):

Earthquake Investigations

Supervised or conducted onsite inspections and damage assessment reports of various earthquake related losses involving the Guam Earthquake (Guam, 1993), Northridge Earthquake (CA, 1994), Nisqually Earthquake (WA, 2001), the Virginia Earthquake (VA, 2011), and the Anchorage Earthquake (AK, 2018). Efforts included documenting the type and severity of the reported damage and providing recommendations for repair or replacement in conjunction with other building consultants and estimators as well as geotechnical engineers.

Government Agencies and Facility Damage Assessment

Supervising and providing onsite inspections and damage assessment reports documenting the type and severity of reported building damage at various governmental facilities and properties including state, county, municipal, and other regional agencies. Provided recommendations for repair or replacement for airports, office buildings, maintenance facilities, colleges & schools, water supply & treatment facilities, etc., in conjunction with other building consultants and estimators for insurance client. Efforts also included defense, recovery or subrogation support.

Hotels and Resorts, Various Locations United States of America

Supervised or inspected numerous hotels and resorts throughout the United States and the Caribbean. Providing onsite inspections and damage assessment reports of buildings and infrastructure systems as well as golf courses, hiking & mountain biking trails, ski areas, pools and water parks to document the type and severity of the damage, and provided recommendations for repair or replacement in conjunction with other building consultants and estimators for insurance clients. Efforts also included recovery or subrogation support.

Hurricanes Ida, Laura, Delta, Zeta and Sally CAT Events Damage Assessments

Supervised or inspected numerous structures throughout Louisiana and Texas that sustained damage during the hurricanes of 2020 and 2021, and served as the Engineer-of-Record for the associated engineering reports. Efforts also included defense and recovery or subrogation support.

Hurricane Super Storm Sandy CAT Event Damage Assessments

Supervised or inspected numerous structures throughout New Jersey, New York and New England that sustained damage during the hurricane of 2012. Efforts also included defense and recovery or subrogation support.

Hurricane Irene & Tropical Storm Lee CAT Events Damage Assessments

Supervised or inspected numerous structures throughout New Jersey, New York and New England that sustained damage during the hurricanes and/or tropical storms of 2011. Efforts also included defense and recovery or subrogation support.

Hurricanes Katrina, Rita, Wilma and Ike CAT Events Damage Assessments

Supervised or inspected numerous structures throughout Alabama, Florida, Louisiana, Mississippi and Texas that sustained damage during the hurricanes of 2005 and 2008, and served as the Engineer-of-Record for the associated engineering reports in Louisiana and Texas. Efforts also included defense and recovery or subrogation support.

Hurricanes Charley, Frances, Ivan and Jeanne CAT Events Damage Assessments

Supervised or inspected numerous structures throughout Florida that sustained damage during the hurricanes of 2004. Efforts also included defense and recovery or subrogation support.

Selected Project Experience (continued):

Hurricanes Georges, Mitch and Floyd CAT Events Damage Assessments

Supervised or inspected numerous structures throughout Puerto Rico and the Dominican Republic as well as Florida, Louisiana and Texas that sustained damage during the hurricanes of 1998, and numerous structures throughout North Carolina, New York and New England during the hurricanes of 1999. Efforts also included defense and recovery or subrogation support.

Hydro-electric Facilities

Supervised and/or conducted onsite inspections and damage assessment reports of various hydro-electric facilities including buildings, dams, head race tunnels, power generation equipment, as well as transmission & distribution lines and substations. Efforts included documenting the type and severity of the observed and reported damage and providing recommendations for repair or replacement in conjunction with other rail transportation consultants and estimators. Efforts also included recovery or subrogation support.

Louisiana Petroleum Terminal Damage Assessment

Led a team of engineers that inspected three hurricane damaged petrochemical facilities in southern Louisiana. Damages were caused by wind and flooding as well as power outages. The inspection was complicated by the presence of asbestos in multiple structures. Developed a comprehensive report and repair cost estimate identifying hurricane-related damages for insurance client.

Marine & Waterfront Facilities

Supervising and providing onsite inspections and damage assessment reports documenting the type and severity of reported marine and other waterfront damage at various residential, commercial and industrial properties. Properties included private & public docks, commercial docks, marinas, piers & wharfs as well as support equipment and facilities. Provided recommendations for repair or replacement in conjunction with other building consultants and estimators for insurance client. Efforts also included defense, recovery or subrogation support.

Newark International Airport

Led a team of engineers to evaluate the structural condition of an aviation fuel storage tank under construction that was damaged in a windstorm. Worked with the contractor and their engineering consultants in developing a repair method that reduced the delay in the project. Presented conclusions to the insurance client that were then used as the rationale for the decision to repair and not demolish the fuel storage tank.

New Hampshire Petroleum Terminal Damage Assessment

Inspected industrial facility located in New Hampshire following a tank floor failure that severely damaged the adjoining tanks and pipes as well as the surrounding paved area. Worked with a metallurgist and developed recommendations for areas of the tank floor and structure that required demolition and replacement.

Paint Plant Explosion and Fire Structural and Process Equipment Damage Assessments

Led a team of engineers who performed multiple inspections of building and process equipment damage to paint plant in the Columbus, Ohio. Providing onsite inspections and damage assessment reports documenting the type and severity of the damage and provided recommendations for repair or replacement in conjunction with other building consultants and estimators.

Port Authority of NY & NJ Ferry Rail Terminal

Supervising and providing onsite inspections and damage assessment reports documenting the type and severity of reported storm damage at the Ferry Rail Terminal serving metropolitan New York. Provided recommendations for repair or replacement in conjunction with other building consultants and estimators for insurance client.

Selected Project Experience (continued):

Radio & Television Tower and Station Systems

Supervised and provided onsite inspections and damage assessment reports documenting the type and severity of reported radio and television facilities and other broadcast equipment damage. Provided recommendations for repair or replacement in conjunction with other building consultants and estimators for insurance client.

Railroad and People Mover Investigations

Supervised or conducted onsite inspections and damage assessment reports of various railroad and people mover losses involving design and construction of track facilities and associated support systems as well as rolling stock. Efforts included documenting the type and severity of the reported damage and providing recommendations for repair or replacement in conjunction with other rail transportation consultants and estimators.

Terrorist Attacks 2001

Supervised or conducted onsite inspections of numerous structures and infrastructure systems throughout lower Manhattan of New York City that sustained damage during the attacks of September 11, 2001.

Whitney Museum of Art, New York, NY

Led a team of engineers who performed property damage assessments of the building's electrical system due to flooding. Providing onsite inspections and damage assessment reports documenting the type and severity of the damage and provided recommendations for repair or replacement in conjunction with other building consultants and estimators for insurance client. Efforts also included recovery or subrogation support.

Representative Military Engineering and Project Experience:

Costa Rican Earthquake

Costa Rica and Panama

- ▶ Relief operations involved all major engineering disciplines at public facilities and utility systems including government office buildings, schools, health facilities, roads, bridges, airfields, seaports, as well as electrical, water, and sewage distribution systems. Engineering services provided include scope of damage assessments, estimates for repairs or replacement, emergency repairs, and geotechnical investigations.

Nation Assistance Construction Mission

Bolivia, Guyana, Honduras, and Panama

- ▶ In charge of planning, coordinating and executing nation assistance construction missions throughout Central/South America. Planned and supervised the execution of three \$2.0 million engineer exercises in Bolivia, Guyana, Honduras, and Panama. Also developed and managed the master plan for use of housing and other real estate in Panama/Honduras. Performed quality control inspection on several construction projects including airfields, roads, bridges, schools, health facilities, and water well drilling operations. Work included engineering disciplines of structural concrete, electrical and plumbing systems, building envelope repairs, geotechnical problems, and use of explosives in blasting operations.

Representative Military Engineering and Project Experience (continued):

U.S. Army Corps of Engineers, Louisville District

Cincinnati, Ohio and Wright-Patterson Air Force Base, Ohio

- ▶ Assistant Area Engineer, responsible for management and quality assurance for various projects to include the medical facility, jet engine test cell, several research labs, and two training reserve centers. Work consisted of design review and inspection of architectural, civil, electrical, mechanical, asbestos abatement, and safety as well as preparation of change orders as required for these projects and areas of responsibilities.
- ▶ Assistant Resident Engineer, responsible for management and quality assurance for a major addition/alteration to the medical facility at Wright -Patterson Air Force Base, OH. Work included project schedule and analysis, inspection of architectural, civil, electrical, mechanical, and asbestos abatement as well as preparation of change orders as required for these areas of responsibilities.
- ▶ Project Engineer, responsible for management and quality assurance for a floating fuel pier and mooring cells on the Ohio River. Work included concrete, steel, electrical distribution, fire protection, vapor recovery and controls. Also responsible for quality assurance of a flood control project on the Mill Creek in Cincinnati, OH. Work included reinforced concrete flood and retaining walls, earthen levees, relocation of private and public buildings, utilities, bridges, railroad lines, and roads.

U.S. Army Engineer Center

Fort Leonard Wood, Missouri

- ▶ Training Branch Chief / Instructor, responsible for engineering instruction to over 1,400 Army officers. Course work involved planning and design of structures, concrete, electrical, sewage, water and project management including scheduling.

Professional Experience:

EFI Global Inc., Managing Principal Engineer – Large/Complex Loss, April 2022 – Present

Sedgwick, Inc., Senior Building Consultant – Building Consulting Group, October 2021 – April 2022

Envista Forensics, Senior Project Manager, Principal Consultant, Director of Specialty Losses – March 2016 – October 2021

Professional Experience (continued):

Douglas G. Peterson & Associates, Inc., Chief Operating Officer and Director of Catastrophe & Infrastructure Investigations, Project Manager, June 1993 – March 2016

Douglas G. Peterson & Associates, Inc., Consulting Engineer, October 1992 – May 1993

U.S. Army Corps of Engineers, Project Manager, Project and Area Engineer, Engineer Supervisor, Branch Chief/Senior Instructor, Catastrophe Response Manager, June 1978 – January 1993

Education:

Bachelor of Science, Applied Science and Engineering, United States Military Academy at West Point, NY, 1978

Affiliations:

American Society of Civil Engineers, Member
Society of American Military Engineers, Past Member
National Association of Subrogation Professionals, Member
New England Claim Executives' Association, Member
Claims and Litigation Management Alliance, Fellowship
Transportation Worker Identification Card, Member
Secure Worker Access Consortium (NY), Member

Professional Development:

10-hour Construction Safety and Health, South Deerfield, MA 2017
Technical Symposium on Corrosive Imported Drywall, Tampa, FL 2009
Asbestos Abatement, Georgia Tech University, Atlanta, GA 1988
Construction Management, Corps of Engineers, 1986
Construction Contract Negotiations, Corps of Engineers, 1986
Engineer Officers' Advance Course, U.S. Army Engineer School, Ft. Belvoir, VA 1982
Engineer Officers' Basic Course, U.S. Army Engineer School, Ft. Belvoir, VA 1978

Presentations/Publications:

- ▶ "Earthquake Overview," Eberl Claims Service Annual Conference, 2017, Oklahoma City, Oklahoma, panelist.
- ▶ "Case Study: The Berkeley Earthquake", New York Power Conference, 2015, New York, New York, panelist.
- ▶ "Earthquake Overview," Bluegrass Insurance Management, CAT Conference, 2015, Orlando, Florida, panelist.
- ▶ "Earthquake Overview," Zurich Core Team Meeting, 2014, Schaumburg, Illinois, panelist.
- ▶ "El Nino and the Effects on the 2012 Hurricane Season," The Hartford Pond September Meeting, Honorable Order of the Blue Goose, International, 2012 Hartford, Connecticut.
- ▶ "Earthquake Overview," Zurich Core Team Meeting, 2012, Schaumburg, Illinois, panelist.
- ▶ "Solar Storms," RLI Insurance Co., Property Meeting, 2012, Peoria, Illinois.
- ▶ "Earthquake Overview," RLI Insurance Co., Property Meeting, 2012, Peoria, Illinois, panelist.
- ▶ "Flooding Losses – On the Rise," Property Claim Services' Catastrophe Conference, 2012, Baltimore, Maryland
- ▶ "Chinese Drywall Claims – An Update," Property Loss Research Bureau, Liability Insurance Research Bureau Claims Conference, 2011, Nashville, Tennessee, panelist.
- ▶ "Earthquake Overview," Zurich Core Team Meeting, 2011, Schaumburg, Illinois, panelist.
- ▶ "Corrosive Drywall Status Report & Investigation Considerations," Vermont Claims Association, 2010, Colchester, Vermont.
- ▶ "Chinese Drywall: Update on Coverage & Subrogation," Property Loss Research Bureau, Liability Insurance Research Bureau Claims Conference, 2010, San Antonio, Texas, panelist.
- ▶ "Corrosive Drywall, aka Chinese Drywall," Loss Executives Association Mid-Winter Conference, 2010, Tampa, Florida, panelist.
- ▶ "Earthquake Overview," Zurich Core Team Meeting, 2008, Schaumburg, Illinois, panelist.
- ▶ "Earthquake Overview," Zurich Core Team Meeting, 2005, Schaumburg, Illinois, panelist.

Presentations/Publications (continued):

- ▶ “Responding to Mold: Routine Fire Losses to Ground Zero,” Loss Executive Association, The National Forum for Property Loss Professionals, 2002, Princeton, New Jersey.
- ▶ “Terrorism: What We’re Learning from Recovery/Restoration at Ground Zero,” Annual Congress & Exposition presented by Claims Magazine and Society of Claim Law Associates, 2002, Orlando, Florida, panelist.
- ▶ “Building Damage Issues: Recovery-Restoration at Ground Zero,” Property Loss Research Bureau, Pre-Conference Program, 2002, Anaheim, California, panelist.
- ▶ “Managing Service Providers in Catastrophe Operations,” Property Claim Services’ Catastrophe Conference, 2001, Savannah, Georgia.
- ▶ “Flood Catastrophes and Cost Estimates,” National Association of Catastrophe Adjusters, 1999, New Orleans, Louisiana.
- ▶ “Controlling Contamination Risk and Adjuster Safety,” Mid-Hudson Claims Association, 1998, Newburgh, New York.
- ▶ “Controlling Contamination Risk and Adjuster Safety,” Property Claim Services’ Catastrophe Conference, 1998, San Diego, California, panelist.
- ▶ “Analysis of Recent Catastrophes - Flood Overview,” Property Loss Research Bureau, Liability Insurance Research Bureau Claims Conference, 1997, Atlanta, Georgia, panelist.
- ▶ “Recognizing Hazardous Materials in Claims Situations,” Loss Executives Association Mid-Winter Conference, 1994, Tampa, Florida, panelist.
- ▶ “Cost Estimates and Catastrophes,” Annual Training Conference, William H. McGee Company, Inc., 1993, New York, New York.
- ▶ “Asbestos Considerations for Construction Projects,” US Air Force Medical Symposium, 1989, Wright Patterson Air Force Base, Ohio.

Expert Testimony:

Litigation CV available upon request.