

JOHN G. O'NEILL, F.S.F.P.E.

EDUCATION

B.S., Fire Protection Engineering, University of Maryland, College Park, MD, 1969.

REGISTRATIONS & MEMBERSHIPS

Registered Professional Engineer (Fire Protection), California.

Fellow, Society of Fire Protection Engineers and National Fire Protection Association, 2000

Chairman, Technical Correlating Committee on Automatic Sprinklers, NFPA No. 13, 13-D & 13-R.
#16., #24

Former member of U.S. Technical Advisory Group to ISO on Fire Suppression Systems.

SPECIALTY FIELDS

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| Systems Design | Project Management |
| Construction Assemblies | Litigation Support |
| Fire Tests | Life Safety Analysis |
| Master Planning | Historic Buildings |

SPECIALIZED PROFESSIONAL COMPETENCE

Systems Design: Water supply and distribution systems, automatic sprinklers, water mist foam, clean agents extinguishing systems, fire alarm and detection systems.

Research & Development: Full-scale fire tests, construction assemblies, and fire suppression systems.

Loss Investigations: Fire, explosion, system and equipment failures.

Hazard Analysis: Industrial, hazardous materials processes and storage.

Life Safety Analysis: Health care, assembly, residential, museums, office, detention and correction, high-rise buildings.

Litigation Support: Expert witness support for fire protection and life safety matters.

MAJOR PROJECTS AND ACTIVITIES

- Conducted fire investigations and provided expert witness services regarding various fixed fire suppression systems performance.
- Provided expert witness services for a case involving the failure of fire protection water supply piping to a U.S. Navy hangar, Willow Grove Naval Air Station, PA.
- Expert witness for a case centered on sprinkler installation support deficiencies in a Veterans Administration Medical Center in Tuscaloosa, AL.
- Expert witness services for a case regarding freeze related sprinkler system failures at a country club and residential complex in Northern Virginia.
- Expert witness regarding sprinkler system performance in a fire involving a large battery storage distribution warehouse in Lyon Station, PA.
- Investigator regarding an alleged failure of a wet-chemical fire suppression system in a kitchen equipment fire at a conference center in Lynchburg, VA.
- Expert witness involving a contractors claim for installation of fire sprinkler and fire alarm systems at a U.S. Air Force medical center in Ohio. Client was the U.S. Army Corps of Engineers, Louisville District.
- Expert witness services and special investigations involving sprinkler, foam-water and special fire suppression systems.
- Expert witness regarding the alleged failure of sprinkler systems in a large warehouse fire in New Orleans. The fire resulted in millions of dollars worth of merchandise loss.
- Project manager for design of phased life safety improvements, sprinkler and fire alarm systems in the 2.2 million sq. ft Main State Department in Washington, DC.
- Project Manager responsible for providing life safety and code analysis for the restoration of the historic (1697) Wren Building at the College of William & Mary, Williamsburg, VA. Project components for this unsprinklered, historic academic building included a detailed survey of the building to determine means of egress, and the use of computer modeling to determine if conditions within the building pose exiting hazards for occupants.
- Project Manager responsible for comprehensive survey and code analysis for historic Ford's Theatre, Washington, D.C. Developed a fire protection improvement plan that integrated the historic preservation requirements of this unique national landmark. Following plan acceptance, prepared detailed design documents for the installation of fire protection improvements to include sprinkler and fire detection and alarm systems.
- Project Manager for fire protection and security for a \$120M renovation (physical plant renewal) of the Museum of American Art & National Portrait Gallery also known as the Patent Office Building. The historic building is comprised of over 500,000 sq. ft. All of the new systems are being integrated into the sensitive historic fabric of the building.
- Project Manager for fire protection, life safety study and smoke detection design projects at the U.S. Naval Academy, Annapolis, MD. Projects included work at historic Bancroft Hall residential complex, and at the Superintendent's Quarters that are also located in an historic building. Recommendations with cost estimates were developed to bring the building to an acceptable level of life safety and fire protection with current codes.

- Principal-in-Charge for fire protection consulting and design project for 1.75 million square foot, \$200 million Archives II project. Directly developed fire test plan and provided technical supervision of full-scale tests to develop fire protection concepts for protection of mobile compact shelving systems storing textural records in 750,000 square feet of stack areas.
- Project manager for sprinkler, fire alarm, fire pump and life safety Improvements in secured Department of Defense facilities including projects of \$10 million in fire protection systems construction costs.
- Project manager for surge analysis studies and design of fire suppression system improvements for U.S. Air Force One Hangar at Andrews AFB.
- Project Manager for the design of sprinkler, fire pump, and fire alarm systems as part of a design-build team for a new six-story office building in Yuzhno-Sakhalinsk, Russia. Systems included wet pipe, dry pipe and preaction sprinkler systems design to seismic zone 4 earthquake criteria.
- New Continental/Continental Express Terminal, Cleveland Hopkins International Airport. Cleveland, OH. Project Manager responsible for providing all fire protection and life safety code consultation for a \$80 million new passenger terminal and underground passenger connector. GBA prepared a special analysis and recommendations involving alternative approaches to occupant loading factors for the terminal and extended travel distances for the 900 ft long underground passenger connector tunnel.
- Construction management support for resolution of issues involving fire rated construction and fire protection systems in residential, commercial and institutional buildings.
- Project manager for sprinkler, fire alarm, fire pump and life safety improvements in secured Department of Defense facilities including projects of \$10 million in fire protection systems construction costs.

TECHNICAL PAPERS, ARTICLES, REPORTS PUBLISHED

National Bureau of Standards Reports:

“Fire Test of an Interstitial Steel Truss Floor-Ceiling Assembly,” 1972.

“Fire Test of a Hospital Corridor Wall Assembly,” 1972.

“Fire Tests of Stairwell -- Sprinkler Systems,” 1981.

“Fast Response Sprinklers in Patient Room Fires,” *Fire Technology*, November, 1981.

“Full-Scale Fire Tests and Development of Design Criteria for Sprinkler Protection of Mobile Shelving Units,” *Fire Technology*, first quarter edition, 1994.

“Securing Our Nations History with Improved Fire Protection,” *Consulting Specifying Engineer*, May, 1995.