



Charles L. Shew, PE
Senior Fire Protection Engineer

Education

B.S., Fire Protection Engineering, University of Maryland, 1986

Registered Professional Engineer (Fire Protection)

States of Georgia, Alabama, California, South Carolina, and Florida

Professional Affiliations

Society of Fire Protection Engineers, Member
National Fire Protection Association, Member
Society of American Military Engineers, Member

Professional Experience

Mr. Shew has more than twenty-five years of experience with the assessment, design, installation, and acceptance testing of fire protection features. From April 1992 through November 1995, Mr. Shew worked for the General Services Administration as a Regional Fire Protection Engineer for the Southeast Sunbelt Region, located in Atlanta, GA. There were numerous large and small projects for which Mr. Shew provided fire protection oversight and included the Memphis IRS Southeast Payment Center, which is a 900,000 square foot data processing center. Mr. Shew was also teamed with the U.S. Army Corps of Engineers to provide design review services for the U.S. EPA Laboratory at Research Triangle Park, N.C. Project tasks included design review, fire protection assessments and surveys, and acceptance testing.

Mr. Shew has knowledge of the model building codes including IBC and NFPA codes. He has demonstrated the ability to provide consultation within government organizations and to private sector clients to solve fire protection problems. While at Performance Design Technologies, Mr. Shew has provided construction oversight for two fire alarm system retrofit projects in historical U.S. Courthouses for the G.S.A. in Columbus, GA, and Wilmington, NC. Acting on behalf of the G.S.A. Regional Fire Protection Engineer, he provided fire and life safety plan reviews for the renovation of the historic U.S. Courthouse in Newnan, GA.

October 2005 through Present - Performance Design Technologies, Inc.

Senior Fire Protection Engineer: *Mr. Shew provided fire protection evaluations for Florida Power & Light at the Turkey Point and Port St. Lucie nuclear power plants. The evaluations included NFPA 805 code conformance reviews and analyses of the plant fire protection systems as part of the plant migration from the Nuclear Regulatory Commission Section 10 CFR 50.48 to the NFPA 805 risk-informed, performance-based standard. Systems evaluated included plant-wide fire alarm and detection systems, halon, and wet pipe and preaction sprinkler systems. His nuclear experience includes fire protection system code review of CANDU plants and nuclear fuel cycle facilities. He has also provided design review and commissions of fire protection upgrades for FAA control towers in the eastern USA.*

Mr. Shew served as a fire protection engineer and project manager for fire protection contracts at Fort Benning, GA. Projects have included fire alarm system design for a variety of occupancies including barracks and hazardous materials storage warehouses, fire suppression system design of FM200 suppression systems for a telephone switching facility, and fire protection assessment and analyses for ammunition repair and storage facilities.

January 2004 through July 2005 - Hartrampf, Inc.

Fire Protection Engineer: *Mr. Shew served as a fire protection engineer and project manager for fire protection consulting projects that included fire protections surveys and assessments for G.S.A. federally owned and leased office buildings throughout the southeast. Other projects included the sprinkler and fire alarm design for a Veterans Administration hospital expansion project.*

February 2002 through January 2004 - Newcomb and Boyd

Fire Protection Engineer: *Mr. Shew served as a design engineer for several fire protection design projects. His project experience included the design of fire alarm and sprinkler systems for the renovation of the historic U.S. Courthouse in Tallahassee, Fla. Mr. Shew was a member of the project team for the Hartsfield/Jackson International Airport fire alarm and sprinkler system design. Project tasks included design and layout of fire alarm and sprinkler systems using Autocad and hydraulic calculations. He performed acceptance testing for fire pumps, smoke control, sprinkler and fire alarm systems.*

May 1997 through December 2001 - Rolf Jensen and Associates, Inc.

Consulting Engineer: *Mr. Shew was Project manager for several fire protection design and consulting projects. His project experience included work on various occupancy types to include educational and office facilities, aircraft hangars, high-rise buildings, industrial complexes, healthcare, and detention/correctional facilities. Project tasks included building code/life safety analysis, design of fire alarm and fire suppression systems, fire protection and loss control surveys, and the commissioning of fire protection features (such as fire alarm, fire suppression, and smoke control systems), post incident fire scene analysis, and litigation support. He also provided fire protection system maintenance training at various locations throughout the United States for the Federal Aviation Administration.*

November 1995 through May 1997 - Simplex/Grinnell

Project Engineer: *Mr. Shew provided applications engineering for fire alarm systems, assisted clients with system architecture and project specifications for various fire alarm projects, called on potential clients to keep them updated on fire alarm system product lines, performed fire alarm systems design and layout for a variety of occupancy types, and conducted numerous presentations to clients for training and new product lines.*

June 1991 through April 1992 – Defense Mapping Agency

Fire Protection Engineer: *Mr. Shew served as the agency fire protection engineer. His project tasks included design review and fire protection program management.*

January 1987 through June 1991 - Naval Facilities Engineering Command

Fire Protection Engineer: *Mr. Shew served as a staff fire protection engineer for the Chesapeake Division. His project tasks included design and contractor submittal review, base-wide fire protection and loss prevention surveys, acceptance testing, and A/E project management. As a rotational assignment, he served as a project engineer in a field construction office. His job tasks included project management, supervision of a staff of three construction inspectors, negotiation of contract modifications, and review/approval of contractor invoices.*

Areas of Specialization

Fire Detection and Alarm System Design
Life Safety Surveys
Fire Safety Evaluations

Building Code Analysis
Fire Protection Program Evaluations
Fire Protection System Commissioning