



KARL D. HOUSER, P.E., LEED AP SENIOR FIRE PROTECTION ENGINEER, BUILDING SCIENCE SOLUTIONS

YEARS WITH INTERTEK: 2 / YEARS IN INDUSTRY: 33

Karl brings over 20 years of experience as a fire protection engineering consultant with over 30 years of fire protection experience. In addition to consulting, he has also specified, designed, and reviewed various fire protection systems. His work includes residential, commercial and industrial buildings and processes including hospitals, sports arenas/stadiums, laboratories, flammable liquid storage buildings, historic structures, high-rise buildings, educational institutions, anechoic chambers, and multi-family dwellings. He has also consulted on accessibility issues and force protection/occupant evacuation/Mass Notification. Karl has performed inspections and fire safety/life safety assessments on hundreds of buildings and industrial processes. He has provided expert witness and litigation services on several projects.

Experience

- Sr. Fire Protection Engineer, Building Science Solutions 2015 – Present
- Perform/oversee company-wide Fire Protection Engineering services
 - Perform field inspections, witness tests of specialized fire protection systems, witness tests of fire alarm and fire suppression systems, and condition assessment surveys
 - Provide consultations on fire protection issues, risk assessments of special hazards and processes, accessible design, and security
 - Review shop drawings of fire protection systems for compliance with national codes and standards and project design/specifications
 - Perform forensic investigative services, litigation support, and condition assessments
 - Author Engineering Judgments (EJs) as solutions for a wide variety of fire protection issues
 - Assist in the development of fire test plans for clients
 - Evaluate fire test results as they apply to the built-environment
 - Participate in national and international development of codes and standards
 - 3rd-Party Inspection Programs/Adjunct Authority Having Jurisdiction

Signature Projects:

- **Mercy Medical Center: Baltimore, MD** - Numerous Joint Commission *Statement of Conditions*® Surveys, consultations
- **Statue of Liberty NM: New York, NY** - Life safety analysis, egress assessment, water supply test and inspection(s)
- **UTC/Kidde Technologies, Inc.: Ashland, MA** - Provided factory inspection for Quality Assurance and Project Compliance of FM-200 suppression systems being shipped to the GCC
- **Dubai Arena: City Walk, Dubai, UAE** - Conducted a system evaluation of a unique building facade resulting in an EJ for submission to Dubai Civil Defense authorities
- **Montgomery Park: Baltimore, MD** - Historic renovation, code consulting, inspections
- **U.S. Embassy: Guatemala City, GU** - Fire protection building selection evaluation for government agencies
- **FBI Academy: Quantico, VA** - Plan reviews, field inspections, system testing, consultations
- **Marley Station Mall: Glen Burnie, MD** - Plan reviews, shop drawing reviews, inspections, water supply acceptance test
- **Tesla Gigafactory 1/Panasonic: Sparks, NV** - Evaluation of a unique industrial fire detection and suppression system for a Lithium ion battery manufacturing and testing facility
- **Philadelphia International Airport: Philadelphia, PA** - Forensic investigation

Education

B.S. Fire Protection Engineering
B.A. Law Enforcement
University of Maryland

Professional Licensing/Certifications

Professional Engineer: MD, WI
USBGC LEED Accredited Professional

Practice Areas

Code Consulting	Inspections
Investigations	Plan Reviews
Condition Surveys	Seminar Speaker
System Testing	Design
Risk Management	Safety
Expert Witness	Shop Drawing Review
Commissioning	3rd-Party Acceptance

Professional Associations

International Code Council (ICC)
ICC Preferred Provider Program
ASTM International
National Fire Protection Association (NFPA)
The American Association of People with Disabilities (AAPD)
American Society for Healthcare Engineering (ASHE)
IFMA/Chesapeake Chapter
AIA/Baltimore

