



#### EDUCATION

- State University of New York at Buffalo
  - Bachelor of Science, Mechanical Engineering, 1982

#### PRACTICE AREAS

- Fire Protection Engineering
- Fire Protection System Design/Analysis
- Fire Protection System Design Documents (Drawings, Specifications, Cost Estimates)
- Building Code, Fire Code, and Standards Consulting
- Design/Build Projects
- Construction Administration
- Peer Review
- Fire/Life Safety/Egress Assessment

#### REGISTRATIONS

- Mechanical Engineer in CA
- Professional Engineer in IL and WA

#### PROFESSIONAL AFFILIATIONS

- National Fire Protection Association (NFPA)
- Society of American Military Engineers (SAME)
- Society of Fire Protection Engineers (SFPE)

#### CONTACT

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#### EXPERIENCE

Michael Aaron joined WJE in 2016 with more than thirty years of project experience and professional training in fire protection engineering. Mr. Aaron is a known expert in fire protection, design/build work, and construction management for all types of aircraft hangars. He is familiar with a wide range of fire protection challenges and is experienced in project management, code requirements and interpretation, construction inspection, field investigation, testing, and preparing reports, plans, and specifications. Mr. Aaron is heavily involved with NFPA standards development and has extensive experience with large water supplies, fire pumps, high-expansion and AFFF foam, sprinklers, and fire alarm systems.

Prior to joining WJE, Mr. Aaron worked at Rolf Jensen & Associates (now Jensen Hughes), where he directed the firm's military projects and hangar design services. During his career at Rolf Jensen, he designed fire suppression and fire alarm systems, performed life safety and code consulting for various facilities, and inspected and tested system installations. Prior to his career at Rolf Jensen, Mr. Aaron was a fire protection engineering specialist and mechanical engineer with the U.S. Army Corps of Engineers for more than five years.

#### REPRESENTATIVE PROJECTS

##### Fire Protection Systems Design

- Pease KC-46A Hangars - Portsmouth, NH: Expansion of two existing ANG hangars\*
- Dassault Falcon Jet - Little Rock, AR: New fourteen-bay hangar fire protection; pump house\*
- Federal Express Hangar - Memphis, TN: Large hangar fire protection design\*
- MacKown Dental Clinic - Lackland AFB, TX: Facility fire protection design; life safety\*

##### Code Consulting

- Fire Protection Engineering Criteria - U.S. Air Force: Drawings, funding document study\*
- Clean Agent Study - Code and performance requirements for clean agent selection\*
- F-35 Flight Simulator - Eielson AFB, AK: Life safety code issues; fire protection design\*
- Coast Guard Fixed and Rotary Hangar Study - Clearwater, FL: Code compliance alternatives for aircraft facilities\*

#### Design/Build Projects

- Warm Storage Hangar - Ft. Wainwright, AK: Helicopters, foam, sprinkler, and fire alarm\*
- Advanced Military Maintenance Repair and Overhaul Center - Al Ain, UAE\*
- NDIA CP26 - Doha, Qatar: World's largest aircraft hangar for Qatar Airlines; revision of design to resolve complex issues\*
- NDIA CP11 - Doha, Qatar: Emiri hangars AFFF foam, fire alarm, and sprinkler\*
- C-17 Maintenance Complex - JBER AFB, AK: Dual bay hangar and support facilities\*
- Multiple Recruit Barracks - Great Lakes, IL: Four phases of military housing\*

#### Construction Administration

- F-22 LO Composite Repair - Hickam AFB, HI: Paint hangar fire protection systems\*
- NDIA CP96 - Doha, Qatar: General aviation hangar for Qatar Airlines\*
- Madison Square Garden - New York, NY: Fire alarm and smoke control upgrade\*
- Mount Sinai Hospital Medical Center - Chicago, IL: Sprinkler upgrade\*

#### Peer Review

- Hindan C-17 Bed Down - Ghaziabad, India: C-17 hangar complex and support facilities\*
- Repair Hangar 1905 - Savannah, GA: Fire pump, foam, sprinkler, fire alarm upgrade\*
- NASSCO MLP3 - San Diego, CA: AFFF foam system performance of naval ship\*
- Oman MRO Facilities - Muscat and Salalah, Oman: Hangar, cargo warehousing, and office and transfer facilities\*

*\*Indicates with previous firms*

#### TECHNICAL COMMITTEES

- NFPA 16 – Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems, Principal
- NFPA 20- Standard for the Installation of Stationary Fire Pumps for Fire Protection, Principal
- NFPA 70 - National Electric Code, Code-Making Panel 14, Liaison Member
- NFPA 409 - Technical Committee on Airport Facilities, Principal since 1990, Secretary
- NFPA 418 - Standard for Heliports, Principal
- NFPA Committee Service Award, 2015