

Christopher Cummiskey | Mechanical/Fire Protection Engineer, PE

155 West St. Suite 6, Wilmington, MA 01887

Cell Phone: 774-301-3277
Chris.Cummiskey@efiglobal.com

Professional Summary:

Mr. Cummiskey has more than 15 years of experience in both engineering and fire protection roles, 9 of which are in the field of fire protection and mechanical system engineering. His diverse experience includes fire protection system design and review, electrical system review, mechanical and HVAC system review, failure and root cause analysis, electrical/mechanical system design, construction oversight and certification of fire protection and life safety building components. Analysis of electrical and mechanical systems and components to determine failure modes.

Areas of expertise include the following:

- Appliance failures
- HVAC Systems
- Gas systems and components
- Water system losses
- International Building Code
- International Fire Code
- NFPA Codes
- Standard for the Installation of Sprinkler Systems (NFPA 13, 13R, 13D)
- Standard for the Installation of Standpipe and Hose Systems (NFPA 14)
- Standard for the Installation of Stationary Pumps for Fire Protection (NFPA 20)
- The National Electrical Code (NFPA 70)
- The National Fire Alarm and Signaling Code (NFPA 72)
- Standard for the Installation of Air-Conditioning and Venting Systems (NFPA 90A)
- The Life Safety Code (NFPA 101)
- Various state and local codes

Licenses and Certifications:

Oil Burner Technician, MA, License #BU-319030

Professional Engineer, MA, License #49546

Professional Engineer, RI, License #9897

Professional Engineer, CT, License #28863

Professional Engineer, NY, License #090783

Professional Engineer, NH, License #14980

Professional Engineer, ME, License #14273

Professional Engineer, VT, License #018.0118696

Professional Engineer, OH, License #85921

National Council of Examiners for Engineering and Surveying (NCEES) Record #48189

Certified Fire and Explosion Investigator, National Association of Fire Investigators, #22081-13382

Certified Fire Plans Examiner (CFPE-13-0063), National Fire Protection Association, 2013
NFPA 1403 Live Burn Instructor, Rhode Island Fire Academy, 2006
NFPA 1041 Fire Instructor, Rhode Island Fire Academy, 2006
NFPA 1001 Firefighter Level I & II, Rhode Island Fire Academy, 2005
Certified Fireplace & Chimney Inspector, Fireplace Investigation, Research & Education Service

Project Experience:

GAP Distribution Warehouse Sprinkler and Life Safety Systems Analysis

Post fire analysis of a major fire loss involving a 975,000 square foot distribution warehouse. Scope involved a performance analysis of the water-based sprinkler system, its design, application and operation during the fire, and its interface with the fire alarm system.

Willimantic Paper Company Warehouse Sprinkler and Life Safety Systems Analysis

Assist in the fire investigation of a major fire at the Willimantic Paper Company in Willimantic Connecticut. Perform an engineering review of the building fire protection systems and assist in determining system operational characteristics. Also perform system deficiency analysis to assist in determining liability.

University of Rhode Island Life Safety Risk Assessment Analysis

Perform Life Safety and Risk Analysis for over 40 buildings located throughout the University of Rhode Island's four campuses. Analysis findings were utilized to implement safety measurements to minimize client's risk and exposure. Evaluations included Life Safety, Building Egress, Occupant Traffic, Fire Risk, Mechanical Risk, Electrical Risk, and Overall Building Safety. Findings also used to prioritize funding for repairs.

Community College of Rhode Island Fire Sprinkler and Fire Alarm Design

Work included fire alarm design and fire sprinkler design services for the Community College of Rhode Island Knight Campus Fieldhouse. Mr. Cumiskey also assisted in the design for the main knight campus building which consists of approximately 630,000 square feet of building area including architecturally complex ceilings and structural walls.

John F. Kennedy International Airport Traffic Control Tower Fire Alarm/Electrical/Mechanical System Replacement

John F. Kennedy International Airport is one of the busiest airports in the US. The fire alarm system in the entire building was replaced including HVAC interconnections and new dedicated power supply to comply with current codes.

Port Authority Bus Terminal Fire Alarm/Mass Notification System Replacement

Fire alarm system replacement throughout the largest operational bus terminal in New York City. Installation of a mass notification system throughout the bus terminal and surrounding walkways to assist NYPD and FDNY in alerting building occupants of incidents within the terminal.

**Veteran's Memorial Auditorium, Providence, RI
Life Safety Code Evaluation, Sprinkler and Fire Alarm System Design Services**

Mr. Cummiskey assisted the State of Rhode Island in conducted a life safety code evaluation of the Veterans Memorial Auditorium office building addition and provided the State of Rhode Island with a report outlining corrective actions for code compliance. Mr. Cummiskey also provided the necessary design documents, bid documents and performed construction administration for the additions to the fire alarm and fire sprinkler system. Note the Veteran's Memorial Auditorium is listed on the U.S. National Register of Historic Places.

**State of Massachusetts Department of Mental Health
Life Safety, Fire Sprinkler and Fire Alarm Code Evaluation**

Scope of work included the evaluation of the Pocasset and Fall River Mental Health facilities to comply with local, state, and Joint Commission Standards for passive and active fire protection systems.

Court Qualifications/Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global Inc, Fall River, MA, 2016-Present, Principal Fire Protection/ Senior Mechanical Engineer
Fire Design Group, Kingston, RI, 2015-2016, Senior Fire Protection Engineer
Jensen Hughes, Providence, RI, 2007-2015, Staff Fire Protection Engineer
Schneider Electric, West Kingston, RI, 2006-2007, Power and Cooling Systems Engineer
Union Fire District, South Kingstown, RI, 1999-2007, Firefighter and Training Officer

Specialized Education:

Investigating Solid Fuel-Burning Appliance Fires, Western Michigan University (hosted by Fire Findings, Inc.), 16 Hour Tested Course, 2016.

Investigating Residential Dryer Fires, Western Michigan University (hosted by Fire Findings, Inc.), 16 Hour Tested Course, 2016.

Investigation of Gas and Electric Appliance Fires, Western Michigan University (hosted by Fire Findings, Inc.), 30 Hour Tested Course, 2016.

Circuit Protection Devices, Continuing Education and Development Inc., 3 hour Tested Course, Completed February 19, 2016.

Introduction to Interior Electrical Distribution Systems, Continuing Education and Development Inc., 3 hour Tested Course, Completed February 18, 2016.

Ethical Issues in Forensic Engineering, Continuing Education and Development Inc. 1 hour Tested Course, Completed February 19, 2016

Boiler Classification and Application, Continuing Education and Development Inc. 2 hour Tested Course, Completed February 18, 2016.

SunCam Continuing Education 4 hour Tested Course - Forensic Analysis Involving Fugitive Natural Gas and Propane. Completed December 12, 2016

SunCam Continuing Education 2 hour Tested Course - Introduction to Manufacturing Methods for Metals Casting and Forging Methods. Completed December 18, 2017

SunCam Continuing Education 4 hour Tested Course - An Introduction to the Analysis and Design of Bolted Connections. Completed Jun 11, 2018

Arc Mapping Basics, IAAI 4 hour Tested Course, 2016.

Basic Electricity, IAAI, 4 hour Tested Course, 2016.

Electrical Safety, IAAI, 3 hour Tested Course, 2016.

Scene Documentation, IAAI, 4 hour Tested Course, 2016.

Explosion Dynamics, IAAI, 4 hour Tested Course, 2016.

Fire Protection Systems, IAAI, 3 hour Tested Course, 2016.

Insurance and the Fire Investigation, IAAI, 4 hour Tested Course, 2016.

Investigating Natural Gas Systems, IAAI, 3 hour Tested Course, 2016.

Accreditation, Certification, and Certificates, IAAI, 3 hour Tested Course, 2016.

Residential Building Construction, IAAI, 3 hour Tested Course, 2016.

Residential Electrical Systems, IAAI, 4 hour Tested Course, 2016.

Residential Natural Gas Systems, IAAI, 3 hour Tested Course, 2016.

Analysis of the Station Nightclub Fire, IAAI, 4 hour Tested Course, 2016.

Analysis of the Charleston Sofa Super Store Fire, IAAI, 4 hour Tested Course, 2016.

Effective Investigation and Testimony, IAAI, 3 hour Tested Course, 2016.

Basic Oil Burner Installation/Troubleshooting, RW Beckett Co. 8 Hour Course, 2016.

Advanced Oil Burner Installation/Troubleshooting, RW Beckett Co. 8 Hour Course, 2016.

Tank Inspection Procedures, NORA (National Oil Research Alliance), 2016.

Underground Storage Tank Testing, NORA (National Oil Research Alliance), 2016.

Education:

Masters of Science, Fire Protection Engineering, Worcester Polytechnic Institute, Worcester, MA, 2011.



Bachelors of Science, Mechanical Engineering, University of Rhode Island, Kingston, RI, 2007

Affiliations:

National Fire Protection Association (NFPA)

Society of Fire Protection Engineers (SFPE)

National Association of Fire Investigators (NAFI)