



**FIRE & RISK**  
☆☆ ALLIANCE ☆☆

# Fire Protection Code Consulting & Engineering

## About Us

Fire & Risk Alliance (FRA) is a leader in fire and risk engineering. Our staff is composed of highly trained and educated engineers and scientists that focus on developing optimized solutions for our clients throughout the world. Our hands-on practical experience, active engagement in the industry, and our applied research ensure that we provide state-of-the-art solutions to our clients.

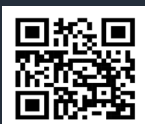
## Fire Protection Code Consulting

FRA has extensive experience in fire protection code consulting for various facility types. Our fire protection engineers are licensed in 49 states and serve clients throughout the world. Client projects have spanned a wide range of facility types and locations, each having unique challenges and needs. Industries in which we have provided code consulting services include oil and gas, energy/power, industrial, commercial, petrochemical, healthcare, residential, agricultural, and government industries. FRA staff have the ability and flexibility to work with each client's specific needs to ensure that fire and life safety objectives are met while applying local, state, and federal codes. Our ample experience has allowed us to become proficient with many standard industry best practices, specific corporate standards, and location-based code and safety requirements.

## Capabilities

FRA staff has extensive capabilities and experience supporting projects with Fire Protection Code Consulting and Engineering requirements, including:

- Dry, Wet, and Pre-Action Sprinkler System Design
- Hybrid Suppression Design
- Inert and Clean Agent Gas Design
- Emergency and Mass Notification System Design
- Foam Suppression System Design
- Fire Alarm and Detection System Design
- Life Safety and Code Analysis
- Performance-Based Design
- Client Standards Development
- Facility Inspection and Gap Analysis
- Installation Inspection, Testing, and Commissioning Services
- Code Consulting and Third Party Review
- Smoke Control and Exhaust Systems
- Fire Command Centers
- Passive Fire Protection
- Special Hazards Design



**Jeffrey E. Reetz, PE**

+1 301.247.9588

[jreetz@fireriskalliance.com](mailto:jreetz@fireriskalliance.com)

Visit us on the web: [fireriskalliance.com](http://fireriskalliance.com)



## Project Experience

- Transformer Deluge Fire Protection Design
- Fire Alarm Upgrade Design Projects
- Fire Suppression Upgrade Projects
- Airport Egress Projects
- Stadium/Sport Arena Egress
- Atrium Smoke Control Projects
- Theater Smoke Control Projects
- Fire Department Access Projects
- Combustible Dust Explosion Projects
- Battery Fire Protection
- Data Center Fire Protection
- Government Third Party Review

## Fire Protection Engineering Services

FRA staff has decades of experience in working with clients to establish proper fire protection engineering systems in facilities with clients worldwide. Whether it be fire alarm and detection systems, fire suppression systems, passive fire protection assemblies, or life safety considerations and analysis, FRA has the knowledge and expertise to create a sustainable, affordable, and innovative fire protection design for your unique needs. We work collaboratively with your team to develop cost-effective solutions to protect your assets and the public welfare. We can guide you through the federal and state regulatory requirements and ensure that your operations are protected for the long term.

## Performance-Based Design

In addition to knowing how to work with codes and regulations, FRA can also help when your needs don't fall into a specific section of codes. In today's environment, the need for Performance-Based Fire Protection and Life Safety Design (PBD) is critical. Whether the project is in the US or across the globe, FRA has the knowledge and experience to guide your project to successful completion. Our comprehensive experience in transportation, industrial, manufacturing, and oil/gas sectors separates us from our competition.

Our team is well versed with NFPA 101, as well as Performance-Based Design approaches guided by the SFPE Engineering Guide to Performance-Based Fire Protection. We have the knowledge and the experience to help with any kind of building configuration to make it as safe as possible, and we know how to work with protection requirements through smoke control, egress, dispersion, explosion and blast modeling, laboratory and specialized testing, and emergency response plan creation and training.

