



## SERVICE PROFILE

# Building and Fire Code Consulting



- Building code, fire code, and standards consulting
- Code compliance master plan and strategy development
- Code compliance alternatives
- Plan review and inspection services
- Code development
- Fire safety assessment
- Fire and egress modeling
- Fire growth/smoke development modeling
- Fire and emergency planning
- Fire hazard and risk analysis
- Fire research and testing
- Performance-based design
- Structural fire protection and fire resistance design
- Third-party peer review
- Loss investigation/expert testimony

Building and fire codes continue to evolve as new technology, architectural trends, and lessons learned from past incidents influence code and standard revisions. As a leader in the field of fire protection engineering, WJE participates in the development of building and fire codes at the national and local levels. Our in-depth knowledge of regulatory history, intent, and new requirements allows us to partner with clients in developing effective, custom compliance solutions for the design, construction, and rehabilitation of even the most challenging buildings.

WJE's fire protection engineers help clients develop code-compliant solutions to achieve greater design flexibility, while addressing cost-effectiveness and investment value. WJE provides timely advice based on considerable code development experience, fire protection engineering knowledge, and a thorough understanding of building construction and fire hazards.

WJE analyzes fire hazards, evaluates risks, and develops project-specific code compliance strategies for all types of structures, from new construction to historic building renovations. WJE professionals provide assistance with selecting the appropriate building systems and materials, reviewing design details, preparing egress plans, and observing the implementation of the code compliance strategy during the construction phase.

When faced with construction challenges, complex building configurations, or unique hazards, WJE can provide an alternative code compliance approach utilizing code equivalencies; analysis of human factors and fire risk; advanced fire, structural, and egress modeling; and performance-based design.

