

Fire Protection Design

Code Consulting – Analyzing applicable building, life safety and fire protection codes and standards to provide guidance for the design of fire protection systems which will meet these prescriptive requirements. The analysis will also identify where performance-based alternative approaches may be used to meet the intent of the code and satisfy the project objectives.

Systems Review – Reviewing drawings and installations of fire protection systems for existing facilities for the purpose of evaluating design, function and code compliance. These evaluations provide a sound basis upon which building owners, property managers and architects/engineers can make decisions regarding retrofit or replacement of fire protection systems.

Systems Evaluation – Conducting evaluations for existing fire protection systems to measure critical factors such as life expectancy, expansion capability, and modification potential. These evaluations provide the framework for cost-effective approaches to upgrading facilities.

Specifications Development – Developing detailed specifications for fire protection systems that provide for maximum performance and cost-effectiveness by enabling multiple suppliers to bid. This service scope may also include the preparation of cost estimates for the recommended systems.

Systems Design – Providing innovative, cost-effective designs to meet performance-based objectives or prescriptive codes covering a wide range of fire protection and life safety systems:

- **Fire Detection**
- **Fire Alarm**
- **Automatic Sprinkler**
- **Foam**
- **Special Hazard**
- **Water Supply**

Drawings Reviews – Analyzing fire protection system drawings to determine whether or not the designs conform with the fire protection master plan as well as comply with applicable codes and standards.

Fire Modeling – Applying scientific modeling tools and methods for determining fire growth, exit times, system activation times, smoke movement and other variables. Using leading edge software, we are able to develop unique fire protection design strategies as well as evaluate and validate alternative performance-based approaches.

Third Party Plan and Installation Reviews – Reviewing of fire protection system designs and/or the actual installation process to verify compliance with the fire protection master plan, manufacturers' design/installation guidelines and applicable codes and standards.

Coordination of Disciplines – Monitoring of work performed by other disciplines to determine if the master fire protection plan has been achieved and all systems are integrated and operable according to their design.

Construction Management – Administering contracts, furnishing on-site coordination of trades and providing project, cost, time and quality management on behalf of the facility's owner, property manager or construction supervisor. The objective is to make sure fire protection systems are installed as designed, on-time and within the project budget.

Inspection/Testing – Providing inspection, performance testing and evaluation of fire protection systems for acceptance by the Authority Having Jurisdiction. This scope of services also includes review of final submittals and record drawings for verification of project completion.

