FIRE PROTECTION/LIFE SAFETY CODE SUBMITTAL
Revised 1 December 2004

Instructions: The information outlined in this document shall be used to provide the ***minimum*** *requirement for development of Fire Protection and Life Safety Code submittals for all building projects. Additional and supplemental information may be used to further develop the code review. Insert N/A after criteria, which may be "not applicable".*

1. Project Name (insert name and location)

Applicable Codes and Standards

Unified Facilities Criteria (UFC): 1-200-01, General Building Requirements, 31 July 2002.

Unified Facilities Criteria (UFC): 3-600-01, Design: Fire Protection Engineering For Facilities, 17 April 2003

International Building Code (IBC) 2003 for fire resistance requirements, allowable floor area, building height limitations and building separation distance requirements, except as modified by UFC 3-600-01.

National Fire Protection Association (NFPA) 101 Life Safety Code (latest edition), for building egress and life safety and applicable criteria in UFC 3-600-01.

ADA and ABA Accessibility Guidelines for Buildings and Facilities (Federal Register July 23, 2004) Replaces UFAS and ADAAG criteria. [Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA)].

2. Occupancy Classification
IBC chapters 3 and 4

3. Construction Type
IBC chapter 6

4. Area Limitations
IBC chapter 5, table 503

Allowable floor areas
IBC section 503, 505

Allowable area increases
IBC section 506, 507

Maximum Height of Buildings
IBC section 504

Fire-resistive substitution

5. Occupancy Separations
IBC table 302.3.2

6. Fire Resistive Requirements
IBC table 601, 602

Exterior Walls – ( ) hour rating
Interior Bearing walls - ( ) hour rating

	Structural frame- ( ) hour rating Permanent partitions- ( ) hour rating Shaft enclosures- ( ) hour rating Floors & Floor-Ceilings- ( ) hour rating Roofs and Roof Ceilings – ( ) hour rating
7. Automatic Sprinklers and other Extinguishing Equipment UFC 3-600-01, chapters 4 and 6	Used to determine the need for automatic Extinguishing systems, foam systems, standpipe systems, wet chemical systems, etc. State which systems are required and to what criteria they will be designed.
UFC 3-600-01, Appendix B	Occupancy Classification– note the classification for each room. This may be accomplished by classifying the entire building and noting exceptions for rooms that differ. (Eg. The entire building is Light Hazard except boiler room and storage rooms are …, etc.)
UFC 3-600-01, Chapter 3	Sprinkler Design Density, Sprinkler Design Area, Water Demand for Hose Streams (supply pressure and source requirements).
UFC 3-600-01, Chapter 4	Coverage per sprinkler head. Extended coverage sprinkler heads are not permitted.
Available Water Supply	Provide the results of the water flow tests showing the available water supply static pressure and residual pressure at flow. Based on this data and the estimated flow and pressure required for the sprinkler system, determine the need for a fire pump.
NFPA 13, Para. 8.16.4.6.1	Provide backflow preventer valves as required by the local municipality, authority, or water purveyor. Provide a test valve located downstream of the backflow preventer for flow testing the backflow preventer at full system demand flow. Route the discharge to an appropriate location outside the building.
8. Kitchen Cooking Exhaust Equipment Equipment NFPA 96	Describe when kitchen cooking exhaust equipment is provided for the project. Type of extinguishing systems for the equipment should be provided. Show all interlocks with manual release switches, fuel shutoff valves, electrical shunt trips, exhaust fans, and building alarms.
9. Portable Fire Extinguishers NFPA 10	Fire classification and travel distance.
10. Enclosure Protection and Penetration Requirements -Opening Protectives and Through Penetrations IBC Section712, 715 and Table 715.3	Mechanical rooms, exit stairways, storage rooms, janitor (__ hour rating). IBC Table 302.1.1

Fire Blocks, Draft Stops, Through Penetrations and Opening Protectives

11. Fire and Smoke Dampers
IBC Section 716 and NFPA 90A

Describe where fire dampers and smoke dampers are to be used. State whether isolation smoke dampers are required at the air handler.

12. Detection Alarm and Communication
UFC 3-600-01, Chapter 5)
NFPA 101 para. 3.4 (chapters 12-42)
NFPA 72

13. Mass Notification Describe building/facility mass notification system UFC 4-021-01 And UFC 4-021-01 type and type of base-wide mass notification/ communication system. State whether the visible notification appliances will be combined with the fire alarm system or kept separate (Note: Navy has taken position to combine visible notification appliances with fire alarm)

14. Interior Finishes (classification)
NFPA 101.10.2.3
NFPA 101.7.1.4

15. Means of Egress
NFPA 101 chapters 7 and 12- 42.

Separation of Means of Egress.
NFPA101.7.1.3

Occupant Load
NFPA101.7.3.1 and chapters 12-42.

Egress Capacity (stairs, corridors, ramps and doors)
NFPA101.7.3.3

Number of Means of Egress
NFPA101.7.4 and chapters 12-42.

Dead end limits and Common Path of Travel
NFPA 101.7.5.1.6 and chapters 12-42.

Accessible Means of Egress (for accessible buildings)
NFPA101.7.5.4

Measurement of Travel Distance to Exits
NFPA101.7.6 and chapters 12-42.

Discharge from Exits
NFPA101.7.7.2

Illumination of Means of Egress
NFPA101.7.8

Emergency Lighting
NFPA101.7.9

Marking of Means of Egress
NFPA101.7.10

15. Elevators
UFC 3-600-01, Chapter 6
IBC and ASME A17.1 – 2000
(Safety Code for Elevators and Escalators)

16. Accessibility Requirements
ADA and ABA Accessibility Guidelines for Buildings and Facilities

Certification of Fire Protection and Life Safety Code Requirements

(Note: Edit the Fire team membership if necessary)

Preparers of this document certify the accuracy and completeness of the Fire Protection and Life Safety features for this project in accordance with the attached completed form(s).

Architect-Engineer
Certification of Fire protection and Life Safety Code Requirements
(Note: Edit the Fire team members if necessary)

Preparers of this document certify the accuracy and completeness of the Fire Protection and Life Safety features of this project.

Fire Protection Engineer of Record:

_____
Signature Date

OR

Architect of Record:

_____
Signature Date

Mechanical Engineer of Record:

_____
Signature Date

Electrical Engineer of Record:

_____
Signature Date

NOTE: Remaining portion of this exhibit is for use by the Louisville District Office

Engineering Certification

Fire Protection and Life Safety Code Quality Assurance Review

Project Name

The Project contract drawings, specifications, **FIRE PROTECTION/LIFE SAFETY CODE SUBMITTAL,** and related design analysis support documentation have received a Design Quality Assurance Review. All comments have been successfully resolved and RTA or (Certified Final) documents are recommended for Construction Contract Award.

Engineering Division Life Safety/Fire Protection Team:

Architectural: Building Code/Life Safety Code Review:

_____

Signature Date

Mechanical: Fire Suppressions Systems Review:

_____

Signature Date

Electrical: Fire Notification Systems Review:

_____

Signature Date

IN-HOUSE DESIGN FIRE PROTECTION LIFE SAFETY REVIEW

INTERIM or PRELIMINARY DESIGN

(Project name and location)

The project specific ***FIRE PROTECTION/LIFE SAFETY CODE SUBMITTAL*** has been completed and is attached.
The life safety/fire protection plans, code review, and related design analysis documentation have been checked and approved by the in-house design team.

Project Design Team Leader Signature _____ Date _____

Engineering Division Life Safety/Fire Protection Team:

Architectural Fire Team Member Signature: _____ Date _____

Electrical Fire Team Member Signature _____ Date _____

Mechanical Fire Team Member Signature _____ Date _____

IN-HOUSE DESIGN FIRE PROTECTION LIFE SAFETY REVIEW

FINAL DESIGN

(Project name and location)

The project specific ***FIRE PROTECTION/LIFE SAFETY CODE SUBMITTAL*** has been completed and is attached.
The construction contract plans, specifications, and related design analysis documentation have been checked and approved for accuracy and coordination.

Project Design Team Leader Signature Date

_____ _____

District Fire Team Approval:

Architectural Fire Team Member Signature: Date

_____ _____

Electrical Fire Team Member Signature Date

_____ _____

Mechanical Fire Team Member Signature Date

_____ _____