SAMPLE FIRE PROTECTION AND LIFE SAFETY CODE REVIEW

1.1. Project Name (insert name and location)

1.2. Applicable Codes and Standards

1.2.1. UFC 3-600-01

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

1.2.3. NFPA 101, for building egress and life safety and applicable criteria in UFC 3-600-01.

1.2.4. ADA and ABA Accessibility Guidelines. For Buildings and Facilities See Section 01 11 00 SUMMARY OF WORK for facility specific criteria.

1.3. Occupancy Classification

ICC IBC chapters 3 and 4

1.4. Construction Type

ICC IBC chapter 6

1.5. Area Limitations

ICC IBC chapter 5, table 503

1.6. Allowable Floor Areas

ICC IBC section 503, 505

1.7. Allowable area increases

ICC IBC section 506, 507

1.8. Maximum Height of Buildings

ICC IBC section 504

1.9. Fire-resistive substitution

1.10. Occupancy Separations

ICC IBC table 302.3.2

1.11. Fire Resistive Requirements

1.11.1. Exterior Walls - [\_\_\_\_\_] hour rating, ICC IBC table 601, 602

1.11.2. Interior Bearing walls - [\_\_\_\_\_] hour rating

1.11.3. Structural frame - [\_\_\_\_\_] hour rating

1.11.4. Permanent partitions - [\_\_\_\_\_] hour rating

1.11.5. Shaft enclosures - [\_\_\_\_\_] hour rating

1.11.6. Floors & Floor-Ceilings - [\_\_\_\_\_] hour rating

1.11.7. Roofs and Roof Ceilings - [\_\_\_\_\_] hour rating

1.12. Automatic Sprinklers and others used to determine the need for automatic Extinguishing Equipment, Extinguishing Systems, Foam Systems, Standpipe

1.12.1. UFC 3-600-01, chapters 4 and 6 systems, wet chemical systems, etc. State which systems are required and to what criteria they will be designed.

1.12.2. 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 (E.g. The entire building is Light Hazard except boiler room and storage rooms which are [\_\_\_\_\_], etc.)

1.12.3. UFC 3-600-01, Chapter 3 Sprinkler Design Density, Sprinkler Design Area, Water Demand for Hose Streams (supply pressure and source requirements).

1.12.4. UFC 3-600-01, Chapter 4 Coverage per sprinkler head. Extended coverage sprinkler heads are not permitted.

1.12.5. 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.

1.12.6. 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.

1.13. Kitchen Cooking Exhaust Equipment

Describe when kitchen cooking exhaust equipment is provided for the project. Type of extinguishing systems for the equipment should be provided. per NFPA 96. Show all interlocks with manual release switches, fuel shutoff valves, electrical shunt trips, exhaust fans, and building alarms.

1.14. Portable Fire Extinguishers, fire classification and travel distance. per NFPA 10

1.15. Enclosure Protection and Penetration Requirements. - Opening Protectives and Through Penetrations

1.15.1. ICC IBC, Section 712, 715 and Table 715.3. Mechanical rooms, exit stairways, storage rooms, janitor [\_\_\_\_\_] hour rating. IBC Table 302.1.1

1.15.2. Fire Blocks, Draft Stops, Through Penetrations and Opening Protectives.

1.16. Fire Dampers. Describe where fire dampers and smoke dampers are to be used (ICC IBC, Section 716 and NFPA 90A}. State whether isolation smoke dampers are required at the air handler.

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

1.18. Mass Notification. Describe building/facility mass notification system (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).

1.19. Interior Finishes (classification). NFPA 101.10.2.3 and NFPA 101.7.1.4

1.20. Means of Egress

1.20.1. Separation of Means of Egress, NFPA 101 chapters 7 and 12-42; NFPA101.7.1.3.

1.20.2. Occupant Load, NFPA 101.7.3.1 and chapters 12-42.

1.20.3. Egress Capacity (stairs, corridors, ramps and doors) NFPA 101.7.3.3.

1.20.4. Number of Means of Egress, NFPA 101.7.4 and chapters 12-42.

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

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

1.20.7. Measurement of Travel Distance to Exits, NFPA 101.7.6 and chapters 12-42.

1.20.8. Discharge from Exits, NFPA 101.7.7.2

1.20.9. Illumination of Means of Egress, NFPA 101.7.8

1.20.10. Emergency Lighting, NFPA 101.7.9

1.20.11. Marking of Means of Egress, NFPA 101.7.10

1.21. Elevators, UFC 3-600-01, Chapter 6; ICC IBC and ASME A17.1/CSA B44)

1.22. Accessibility Requirements, ADA and ABA Accessibility Guidelines for Buildings and Facilities

1.23. 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).

1.24. Designer of Record. 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:

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Signature and Stamp

Date

OR

Architect of Record:

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Signature and Stamp

Date

Mechanical Engineer of Record:

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Signature and Stamp

Date

Electrical Engineer of Record:

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Signature and Stamp

Date

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