

**ORDINANCE NO. 2022 – 01**

**AN ORDINANCE AMENDING ORDINANCE 2020-01 ESTABLISHING  
THE FIRE PREVENTION CODE AND LIFE SAFETY CODE FOR THE  
ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT**

**WHEREAS**, the Algonquin-Lake in the Hills Fire Protection District, located in McHenry and Kane Counties (the "District"), is a fire protection district duly organized under the laws of the State of Illinois, including but not limited to the Fire Protection District Act (the "Act," 70 ILCS 705/0.01 *et seq.*); and

**WHEREAS**, the District's Board of Trustees (the "Board") has express power pursuant to Section 11 of the Act (70 ILCS 705/11) to adopt and enforce fire prevention codes and standards parallel to the international and national standards to promote fire prevention; and

**WHEREAS**, the District's Board also has full power pursuant to Section 6(i) of the Act (70 ILCS 705/6(i)), to pass all necessary ordinances and rules and regulations for the proper management and conduct of the business of the Board of Trustees of the District for carrying into effect the objects for which the District was formed; and

**WHEREAS**, Section 11 of the Act (70 ILCS 705/11) empowers and makes it the legal duty and obligation of the District's Board to provide as nearly adequate protection from fire for all persons and property within the District as possible and to prescribe necessary regulations for the prevention and control of fire therein; and

**WHEREAS**, the District is empowered by the Act to provide reasonable safeguards through Fire Prevention Codes to protect the Public Health and Safety against the hazards of fire in buildings and structures; and

**WHEREAS**, District staff developed such a plan proposed in this ordinance; and

**WHEREAS**, the District's Board deems it necessary and in the best interest of the District and its residents to amend the Fire Prevention Codes as the District's models for the control of fire protection in

buildings and structures as herein provided; and each and all of the regulations, provisions, penalties, conditions and terms as amended by the Fire Prevention Codes listed in Exhibit A hereto, are hereby adopted and made a part thereof, as if fully set out in this Ordinance, except for the amended additions, insertions, deletions and changes set forth in **Exhibit A** previously adopted by the Board in Ordinance 2020-01 on May 27, 2020 and Ordinance 2014-02 April 23, 2014; and

**WHEREAS**, the District's Board adopts the 2018 Editions of the International Building Code and International Fire Code, which are comprehensive compilations of codes designed to meet the needs of the local fire jurisdictions through model code regulations that prescribe safeguards for the safety and public health of all communities, except as amended in **Exhibit A** attached hereto; and

**WHEREAS**, the District's Board also adopts the National Electrical Code 2017 Edition, the International Existing Building Code, 2018 Edition, and the Illinois Accessibility Code, 2018 Edition as part of the District's Fire Prevention Codes, except as amended in **Exhibit A** attached hereto.

**NOW, THEREFORE**, be it ordained by the Board of Trustees of the Algonquin-Lake in the Hills Fire Protection District, McHenry and Kane Counties, Illinois, as follows:

SECTION 1: The Board finds and determines that the facts and statements contained in the preamble to this Ordinance are true and correct and are hereby adopted as part of this Ordinance as if written here in full.

**SECTION 2:** The Fire Prevention Codes of the Algonquin-Lake in the Hills Fire Protection District, located in McHenry and Kane Counties, (hereinafter referred to as the "Fire Prevention Codes") shall hereafter be identical with the provisions of the publication(s) listed in **Exhibit A** hereto, and said publication(s) listed in **Exhibit A** hereto are hereby incorporated herein by reference as if fully set forth, except as amended in **Exhibit A** to this Ordinance. At least three

(3) Copies of these Fire Prevention Codes shall be placed on file with the District and shall be available for public inspection at all times during regular business hours as provided by law.

**SECTION 3:** That it shall be unlawful to design, construct, alter, enlarge, repair, demolish, remove, use or maintain any building or structure within the boundaries of the Algonquin-Lake in the Hills Fire Protection District in violation of any terms or provisions of this Ordinance.

**SECTION 4:** That the specific terms and conditions of this Ordinance shall prevail against other existing ordinances of the District to the extent that there might be any conflict.

**SECTION 5:** The Board ratifies Ord. 2022-01 except as amended by this Ordinance.

**SECTION 6:** All persons in violation of the Fire Prevention Codes shall be subjected to fines as set forth and established in the Codes and in the District's Ord. 2022-01. Any person, business, firm, corporation, entity or property owner with a proven violation of this Code shall be responsible for all fees, costs and expenses, including but not limited to attorney fees, litigation, adjudication and settlement costs, incurred by the Algonquin-Lake in the Hills Fire Protection District in enforcing the provisions of the adopted Code.

**SECTION 7:** Future versions of the District's Fire Prevention Code shall be revised by Board approval of additional **Exhibits** hereto that amend the current **Exhibit A**. All such revisions shall be dated and shall be effective upon approval by the Board of Trustees.

**SECTION 8:** The Board of Trustees of the District hereby declares that should any section, paragraph, sentence or word of this Ordinance or of the Code hereby adopted be declared for any reason to be invalid, it is the intent of said Board of Trustees that it would have passed all other portions of this Ordinance independent of the elimination here from of such portion as may be declared invalid.

**SECTION 9:** Neither the enactment of this Ordinance nor the repeal of any ordinance or parts of ordinances as provided for herein shall be construed to affect or abate any action or cause of action for violation of said prior ordinance or ordinances.

**SECTION 10:** That this Ordinance shall be in full force and effect from and after its passage,

approval and publication in accordance with the law beginning on January 27, 2022.

ADOPTED this 26 Day of January, 2022, by the following roll call vote:

AYES: Naatz, Teson, Black, Moss

NAYS: Ø

ABSENT: Ø



Rick Naatz  
President, Board of Trustees  
Algonquin-Lake in the Hills Fire Protection District

ATTEST:



Charles Teson  
Secretary, Board of Trustees  
Algonquin-Lake in the Hills Fire Protection District

## ORDINANCE NO. 2022 - 01

### AN ORDINANCE AMENDING ORDINANCE 2020-01 ESTABLISHING THE FIRE PREVENTION CODE AND LIFE SAFETY CODE FOR THE ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT

#### EXHIBIT A FIRE PREVENTION CODES AMENDED ADDITIONS, INSERTIONS, DELETIONS AND CHANGES THE INTERNATIONAL BUILDING CODE

The International Building Code, 2018 edition, ("Building Code") published by the International Code Council, Inc., Falls Church, Virginia, is hereby adopted by reference and made part of this Section, subject to the modifications set forth herein, and shall be applicable to the Algonquin/ Lake in the Hills, F.P.D.

In addition to those terms defined in Appendix A of this Code, any reference to Fire Code Official or Building Official shall mean the Fire Chief of Algonquin/ Lake in the Hills, F.P.D. or his/her designee; any reference to a specific chapter, other than Chapter, shall mean the applicable chapter in the applicable building code; and any reference to a code, other than Code, shall mean that particular building code of that section.

#### MODIFICATIONS TO THE BUILDING CODE

The Building Code shall be amended as follows:

1. Section 101.1, insert Algonquin/ Lake in the Hills, F.P.D.
2. Section 107.3, Examination of documents, shall be amended to read as follows:

**107.3 Examination of documents.** The Fire Code Official shall examine or cause to be examined the fire protection shop drawings and shall ascertain by such examinations whether the construction indicated and described is in accordance with the requirements of this Code and other pertinent laws or ordinances. The Fire Code Official may submit the fire protection shop drawings to a third-party plan review agency, chosen by the Fire Code Official. The property owner or owner's agent shall be responsible for the reimbursement to the Algonquin/ Lake in the Hills, F.P.D. of all fees associated with the review of documents by any third-party

plan review agency and all fees shall be paid in full prior to the issuance of the permit.

3. Section 110.4, Inspection agencies, shall be amended to read as follows:

**110.4 Inspection agencies.** The Fire Code Official is authorized to accept reports of approved inspection agencies, provided such agencies satisfy the requirements as to qualifications and reliability. The Fire Code Official is authorized to engage a third-party inspection agency for inspections of a technical nature. The property owner or the owner's agent shall be responsible for the reimbursement to the Algonquin/ Lake in the Hills, F.P.D. of all fees associated with inspections conducted by any third-party inspection agency and shall be paid in full prior to the issuance of a Certificate of Occupancy.

4. Section 113.1 shall be amended to read as follows:

**113.1 General.** In order to hear and decide appeals of order, decisions or determinations made by the Fire Code Official relative to the application and interpretation of this code, an appeal may be made to the Algonquin/ Lake in the Hills, F.P.D. Board.

5. Section 403.6 Shall be amended to add:

[F] **403.6.3 Elevator Car Requirements:** Elevator cars are to accommodate the Algonquin Lake in the Hills Fire Protection District Ambulance Stretcher. In any buildings equipped with an elevator, at least one elevator shall be such a size and arrangement to accommodate a 28" by 84" ambulance stretcher in the horizontal, open position and shall be identified by the international symbol of emergency medical services (Star of Life). The symbol shall not be less than 3 inches in height and shall be placed on the inside on both sides of the hoist way doorframe. The inside handrail shall be set at a maximum of 36 inches in height allowed under ADA standards to better accommodate the stretcher. The cab size is to be a minimum 5'x7' platform and a minimum of 2500 lb. capacity with a 42" side slide door.

6. Table 509, Incidental Use Areas, shall be amended to add the following:

ROOM OR AREA	SEPARATION
--------------	------------

Fire sprinkler valve room	2 hours
---------------------------	---------

Fire pump room	2 hours
----------------	---------

7. Chapter 2, Definitions, shall be amended to add the following definition:

**HIGH-PILED COMBUSTIBLE STORAGE.** As defined in Section 3202 of the International Fire Code.

8. Section [F] 903.2 shall be amended to read as follows:

**[F] 903.2 Where required.** An approved automatic sprinkler system shall be provided throughout all new buildings and structures regardless of Group or fire area and in locations described in the Section. Delete exception.

9. Section [F] 903.2.1 shall be amended to read as follows:

**[F] 903.2.1. Group A.** An automatic sprinkler system shall be provided for in Group A-1 occupancies.

10. Section [F] 903.2.1.1 shall be amended to read as follows:

**[F] 903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided for in Group A-1 occupancies.

11. Section [F] 903.2.1.2 shall be amended to read as follows:

**[F] 903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided for in Group A-2 occupancies.

12. Section [F] 903.2.1.3 shall be amended to read as follows:

**[F] 903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided for in Group A-3 occupancies.

**Exception:** Areas used exclusively as participant sports areas where the main floor area is located at the same level as exit discharge of the main entrance and exit.

13. Section [F] 903.2.1.4 shall be amended to read as follows:

**[F] 903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided for in Group A-4 occupancies.

**Exception:** Areas used exclusively as participant sports areas where the main floor is located at the same level as exit discharge of the main entrance and exit.

14. Section [F] 903.2.1.5 shall be amended to read as follows:

**[F] 903.2.1.5 Group A-5.** An automatic sprinkler system shall be provided in all Group A-5 occupancies in the following areas: concession stands, retail areas, press boxes and all other accessory use areas.

15. Section [F] 903.2.2 shall be amended to read as follows and the exception shall be deleted:

**[F] 903.2.3 Group E.** An automatic sprinkler system shall be provided in all Group E occupancies.

16. Section [F] 903.2.3 shall be amended to read as follows:

**[F] 903.2.4 Group F-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy.

17. Section [F] 903.2.3.1 shall be amended to read as follows:

**[F] 903.2.4.1 Woodworking operations.** An automatic sprinkler system shall be provided throughout all Group F-1 occupancies that contain woodworking operations.

18. Section [F] 903.2.4.3 shall be amended to read as follows:

**[F] 903.2.5.3 Pyroxylin plastics.** An automatic sprinkler system shall be provided throughout buildings where cellulose nitrate film or pyroxylin plastics are manufactured, stored or handled.

19. Section [F] 903.2.7 shall be amended to read as follows:

**[F] 903.2.7 Group M.** An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy.

20. Section [F] 903.2.9 shall be amended to read as follows:

**[F] 903.2.9 Group S-1.** An automatic sprinkler system shall be provided throughout buildings containing a Group S-1 occupancy.

21. Section [F] 903.2.9.1 shall be amended to read as follows:

**[F] 903.2.9.1 Repair garages.** An automatic sprinkler system shall be provided throughout buildings used as repair garages in accordance with Section 406.

22. Section [F] 903.9.2 shall be amended to read as follows:

**[F] 903.2.9.2 Bulk storage of tires.** Buildings and structures used for the storage of tires shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1

23. Section [F] 903.2.10.1 shall be amended to read as follows:

**[F] 903.2.10.1 Commercial parking garages.** An automatic sprinkler system shall be provided throughout buildings used for the storage of commercial trucks or busses.

24. Section [F] 903.2.11.1 shall be amended to read as follows:

**[F] 903.2.11.1 Stories without openings.** An automatic sprinkler system shall be installed throughout every story or basement of all buildings.

25. **Section [F] 903.2.11.3, Buildings over 55 feet in height, delete exception 2.**

26. Section 903.2.13 shall be amended to add the following section:

**[F] 903.2.13 Group B.** An automatic sprinkler system shall be provided throughout buildings containing a Group B occupancy.

27. Section 903.2.14 shall be amended to add the following section:

**[F] 903.2.14 Group F-2.** An automatic sprinkler system shall be provided throughout buildings containing a Group F-2 occupancy.

28. Section 903.2.15 shall be amended to add the following section:

**[F] 903.2.15 Group U.** An automatic sprinkler system shall be provided throughout buildings containing a Group U occupancy.

**Exception:** Structures regulated by the International Residential Code in accordance with Section 101.2.

29. Section [F] 903.3.1.1.1, Exempt locations, delete 2, 3 and 4.

30. Section [F] 903.3.5, Water supplies, shall be amended to read as follows:

**[F] 903.3.5 Water Supplies.** Water supplies for automatic sprinkler systems shall comply with this Section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of the Illinois Plumbing Code and Chapter 6B of this Code. A minimum 10 pounds per square inch safety factor shall be provided in the fire protection system hydraulic calculations. The system demand shall be a minimum of 10 pounds per square inch below the seasonal low water flow test supply. Hydrant water flow data used for the design of any sprinkler system shall be no more than 1 year old. Water flow tests shall be witnessed by the fire department.

31. Section [F] 903.3.6, Hose threads, shall be amended to add the following sections:

**[F] 903.3.6.1 Algonquin-Lake in the Hills Fire Protection District.** The fire department connection on buildings constructed within the Algonquin-Lake in the Hills Fire Protection

District shall be based on the fire protection system demand as follows:

1. Less than 400 GPM: One 4-inch locking Starz FDC with 30 degree elbow and cap.
2. 400-999 GPM: One 4-inch locking Starz FDC with 30 degree elbow and cap.
3. Greater than 1000 GPM: Two 4-inch locking Storz FDC's with 30 degree elbow and caps. The FDC's shall be remotely located on the building.

**[F] 903.3.7 Fire Department Connections.** Fire department connections shall be visible and unobstructed on a street front, parking lot, fire lane or other accessible location approved by the appropriate Building Official and appropriate fire protection district. A fire hydrant shall be located within 100 feet of fire department connections and every 300 feet around the perimeter of the building. A blue weatherproof 75-candela exterior strobe light shall be installed on the exterior of the building above each fire department connection and shall be activated by water flow only.

32. Section 903 shall be amended to add the following section:

**[F] 903.3.8.6 Fire pump test header.** An outside test header shall be provided on all fire pump installations. An OS&Y control valve with a tamper switch shall be provided on all fire pump test headers.

33. Section 903 shall be amended to add the following section:

**[F] 903.3.9 Riser check valve.** Provide a check valve in each sprinkler riser.

34. Section 903 shall be amended to add the following section:

**[F] 903.3.10 Hydraulic placard information.** A reproduction of each hydraulic placard shall be included on the design drawings near the corresponding hydraulically calculated area.

35. Section 903 shall be amended to add the following section:

**[F] 903.3.11 Sprinkler room access.** Where fire sprinkler risers or fire pumps are located in a separate room, a minimum of a 36-inch side-swinging door complying with Section 715.4 shall be installed to provide direct access into the room from inside and outside of the building. Where the fire sprinkler risers are not located in a separate room, a minimum of 36-inch side-swinging door complying with Section 715.4 shall be installed in an exterior wall, in an approved location, to provide access to the vicinity of the sprinkler risers from the outside of the building. A sign shall be provided on the exterior of the door(s) with minimum 4-inch high non-script letters stating, "SPRINKLER CONTROL VALVES" and/or "FIRE PUMP ROOM," as applicable.

36. Section 903 shall be amended to add a new section that will read as follows:

**[F] 903.3.12 Thin wall pipe.** The use of XL thin wall sprinkler pipe shall not be permitted in dry sprinkler systems or pre-action sprinkler systems.

37. Section [F] 903.4, Sprinkler system supervision and alarms, shall be amended to read as follows:

**[F] 903.4 Sprinkler systems supervision and alarms.** All valves, controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches shall be electrically supervised by the building fire alarm system.

**Exceptions:** No change

38. Section [F] 903.4.1, Signals, shall be amended to add to read as follows:

**[F] Section 903.4.1 Monitoring.** Alarm, supervisory and trouble signals shall be distinctly different and automatically transmitted via radio signal to a UL listed Central Station in accordance with NFPA 72 (2016 Ed.), including Annex, and shall be approved by the Fire District. Exceptions included.

39. Section [F] 903.4.2 shall be amended to read as follows:

**[F] 903.4.2 Alarms.** A fire alarm shall monitor all automatic sprinkler systems. Approved audible and visual devices shall be connected to every automatic sprinkler system. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system.

Actuation of the automatic sprinkler system shall actuate the building fire alarm system flow alarm, 24 V DC Blue colored strobe and water flow indicating appliances through the fire protection district direct connection. Visual alarm devices shall be arranged so the flashing light beam can be seen at the required level of intensity from all common use areas. Visual alarm appliances shall be provided as directed in Section [F] 907.5.2.3 and in restrooms. Audible alarms shall be arranged so the alarm can be heard in all areas of the building, as directed in Section [F] 907.5.2.

40. Section [F] 903.4.3 shall be amended to read as follows:

**[F] 903.4.3 Floor control valves.** Approved, supervised indicating floor control valves with water flow switches shall be provided at the point of connection to the riser on each floor in multiple story buildings, including all floor levels below grade.

41. Section [F] 905.3 shall be amended to read as follows:

**[F] 905.3. Required installations.** Class I standpipe systems shall be installed where required by Sections 905.3.1 through 905.3.7 and in locations indicated in Sections 905.4. Standpipe systems are permitted to be combined with automatic sprinkler systems unless otherwise noted.

Exception: Standpipe systems are not required in buildings and structures regulated by the International Residential Code in accordance with Section 101.2, Exception 1.

42. Section [F] 905.3.1 shall be amended to read as follows:

**[F] 905.3.1 Height.** Automatic Class I standpipe systems shall be installed throughout all buildings and portions of buildings:

1. With more than 2 stories above the lowest level of fire department vehicle access.
2. With more than 2 stories below the highest level of fire department vehicle access.
3. Where there is a floor level located more than 30 feet above the lowest level of fire department vehicle access, including mezzanines.
4. Where there is a floor level located more than 30 feet below the highest level of fire department vehicle access, including mezzanines.
5. Where any portion of the building floor area, including mezzanines, is more than 400 feet of travel from the nearest point of fire department vehicle access

43. Section [F] 905.3 shall be amended to add the following section:

**[F] 905.3.9 High-piled combustible storage.** Buildings or portions of buildings with high-piled combustible storage shall be equipped with a Class I automatic wet standpipe system. Standpipe hose connections shall be located in high-piled combustible storage areas where storage exceeds 12 feet in height. Hose connections shall be located at each door to the high-piled combustible storage area. Where the travel distance between hose connections exceeds 200 feet, the Building Official is authorized to require additional hose connections be provided in approved locations. The standpipe system shall be:

1. A separate riser piping system.
2. Hydraulically calculated for a minimum of 250 gallons per minute at 75 pounds per square inch to the most hydraulically remote fire hose valve.
3. Where system pressures exceed 100 pounds per square inch, a reduced pressure field-adjustable type hose valve shall be provided.

44. Section [F] 905.4 shall be amended to add the following to the list of locations of Class I standpipe hose connections:

7. In Group A-1 and A-2 occupancies with occupant loads of more than 1,000, hose connections shall be located on each side of any stage, on each side of the rear of the auditorium, on each side of the balcony and on each tier of dressing rooms.

45. Section [F] 905.4 shall be amended to add the following section:

**[F] 905.4.3 Hose connection threads.** Each Class I standpipe hose connection shall be equipped with a 2.5-inch NST male hose valve, with a removable 2.5-inch female to 1.5- inch male adapter, which shall be permanently chained to the hose connection.

46. Section [F] 905.5, Locations of Class II standpipe hose connections, shall be deleted in its entirety.

47. Section [F] 905.6, Locations of Class III standpipe hose connections, shall be deleted in its entirety.

48. Section [F] 907.1.3, Equipment, shall be amended to read as follows:

**[F] 907.1.3 Equipment.** All fire alarm systems shall be of the addressable type. Systems and their components shall be listed and approved for the purpose for which they are installed.

49. Section [F] 907.2, Where required, shall be amended to read as follows:

**[F] 907.2 Where required.** An approved manual, automatic or manual and automatic fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in accordance with Section 907.2.1 through 907.2.23, as amended, and provide occupant notification in accordance with Section 907.5. An approved manual fire alarm system shall be provided in all Groups. An approved automatic fire detection system installed in accordance with NFPA 72 shall be provided in all non-sprinklered Groups. Where automatic sprinkler protection, installed in accordance with Section 903.2.1 - 903.2.12, is provided and connected to the building fire alarm

system, automatic heat detection required by this Section shall not be required. Devices, combinations of devices, appliances and equipment shall comply with Section 907.1.2. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where, during normal operation, products of combustion are present in sufficient quantity to activate a smoke detector. All fire alarm control panels of full function annunciator panels shall be installed within 10 feet of the main entrance or in a location approved by the fire protection district.

**Exception:** Buildings and structures regulated by the International Residential Code in accordance with Section 101.2, Exception 1.

50. Section [F] 907.2.1, Group A, delete the exception.
51. 907.2.1.1 System Initiation in Group A occupancies were occupant load of 1,000 or more, Delete exception
52. Section [F] 907.2.2, Group B, delete the exception.
53. Section [F] 907.2.3, Group E, delete exception 1,2, 4
54. Section [F] 907.2.4, Group F, delete the exception.
55. Section [F] 907.2.5, Group H, shall be amended to read as follows:

**[F] 907.2.5 Group H.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group H occupancies. An automatic fire detection system shall be installed in accordance with NFPA 72 in all incidental use areas, all accessory use areas and any non-sprinklered room or area in a Group H occupancy in compliance with Section 903.3.1.1.1, Exception 1.

- III. Section [F] 907.2.7, Group M, delete exception 2.
56. Section [F] 907.2.8.1, Manual fire alarm system, shall be amended to read as follows:

**[F] 907.2.8.1 Manual fire alarm system.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group R-1 occupancies.

Delete Exceptions 1 and 2.

57. Section [F] 907.2.8.2, Automatic fire alarm system, shall be amended to read as follows:

**[F] 907.2.8.2 Automatic fire alarm system.** An automatic fire alarm system shall be installed in accordance with NFPA 72 in all Group R-1 interior common areas.

Delete: Exception.

58. Section [F] 907.2.9, Group R-2, shall be amended to read as follows:

**[F] 907.2.9 Group R-2.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group R-2 common areas. An automatic fire detection system shall be installed in accordance with NFPA 72 in all Group R-2 common areas.

Delete Exceptions 1, 2 and 3

59. **Section [F] 907.2.12, High-rise buildings.** All exceptions shall be deleted.

60. Section [F] 907.5.2.3.1, Public use areas and common use areas, shall be amended to read as follows:

**[F] 907.5.2.3.1 Public use areas and common use areas.** Visible alarm notification appliances shall be provided in public areas and common areas. A clear weatherproof 75-candela exterior strobe shall be installed on the exterior of all multi-tenant buildings over the main entrance to each tenant space, and shall be activated by the fire alarm devices within that tenant space only. A blue weatherproof 75-candela exterior strobe shall be installed on the exterior of the building above the fire department connection and shall be activated by water flow only.

61. Section [F] 907.6.3 Initiating Device Identification, delete exception 1 and 2

62. Section [F] 907.6.4, Zones, shall be amended to read as follows:

**[F] 907.6.4 Zones.** Each floor shall be zoned separately and a zone shall not exceed 22,500 square feet. The length of any zone shall not exceed 300 feet in any direction. Multi-tenant buildings shall ring by tenant space.

63. Section [F] 907.6.4.2, High-rise buildings, shall be amended to read as follows:

**[F] 907.6.4.2 High rise building.** A separate zone by floor shall be provided for each of the following types of alarm-initiating devices where provided.

1. Manual fire alarm boxes
2. Heat detectors
3. Smoke detectors
4. Sprinkler water-flow switches
5. Other suppression systems
6. Other fire detection devices

Section [F] 907.6.6 Monitoring, shall be amended to add to read as follows:

**Section [F] 907.6.6 Monitoring.** Fire alarm systems required by this chapter or by the International Building Code shall be monitored by an approved listed supervising station in accordance with NFPA 72 (2016 Ed.), including Annex, and shall be approved by the Fire District.

Exceptions included.

Add Section 907.6.6.3 Signal Equipment - Any alarm, supervisory, and/or trouble signal or any combination of such signals shall be immediately retransmitted to the Fire District communications/dispatch center at SEECOM.

Add Section 907.6.6.4 Alarm Record Reporting - At the start of each shift change at the approved listed supervising station, a status of all alarm, supervisory, and trouble signals or any

combination of such signals shall be reported via fax to the Fire District (847-854-2609).

64. Section 1006.1, Minimum number of exits, shall be amended to add the following section: For the purposes of this Chapter, tenant spaces shall be provided with exits as required by Table 1006.3.2

65. Section 1006.3.3, Single exits, shall be deleted in its entirety.

66. Section 1008.3, Illumination emergency power, shall be amended to add an additional location for emergency illumination, which shall read as follows:

All rooms containing building fire sprinkler riser(s), fire pump(s) and fire alarm control panel(s) shall be provided with emergency lighting.

67. Chapter 29, Plumbing Systems and the Illinois State Plumbing Code shall govern the erection, installation, alterations, repairs, relocation, replacement, addition to, use or maintenance of plumbing equipment and systems. Plumbing systems and equipment shall be constructed, installed and maintained in accordance with the Illinois State Plumbing Code.

68. Chapter 35, add the following to the list of NFPA Standards:

All standards listed in Chapter 80 of the International Fire Code.

## **INTERNATIONAL FIRE CODE/2018**

The International Fire Code, 2018 edition, and appendices B, C, D, E, H, I ("Fire Code"), be and the same are hereby adopted by reference and made a part of this Section, subject to modifications set forth herein, and shall be applicable to the Algonquin / Lake in the Hills, F.P.D.

## **MODIFICATIONS TO THE FIRE CODE**

The Fire Code shall be amended as follows:

1. For the purpose of this code, any Fire Code sections repeated within the International Building

Code and modified therein shall also be considered modified accordingly within the Fire Code.

2. Section 101.1, insert Algonquin I Lake in the Hills, F.P.D. of Algonquin.

3. Section 104.7, Inspection agencies, shall be amended to added the following:

**104.7.3 Inspection agencies.** The Fire Code Official is authorized to accept reports of approved inspection agencies, provided such agencies satisfy the requirements as to qualifications and reliability. The Fire Code Official is authorized to engage a third-party inspection agency for inspections of a technical nature. The property owner or the owner's agent shall be responsible for the reimbursement to the Algonquin/ Lake in the Hills, F.P.D. of all fees associated with inspections conducted by any third-party inspection agency and shall be paid in full prior to the issuance of a Certificate of Occupancy.

4. Section 105.4.1.1, Examination of documents, shall be amended to read as follows:

**105.4.1.1 Examination of documents.** The Fire Code Official shall examine or cause to be examined the fire protection shop drawings and shall ascertain by such examinations whether the construction indicated and described is in accordance with the requirements of this Code and other pertinent laws or ordinances. The Fire Code Official may submit the fire protection shop drawings to a third-party plan review agency, chosen by the Fire Code Official. The property owner or owner's agent shall be responsible for the reimbursement to the Algonquin/ Lake in the Hills, F.P.D. of all fees associated with the review of documents by any third-party plan review agency and all fees shall be paid in full prior to the issuance of the permit.

5. Section 109.1 shall be amended to read as follows:

**109.1 Board of appeals established.** In order to hear and decide appeals of order, decisions or determinations made by the fire code/building code official relative to the application and interpretation of this code, an appeal may be made to the Algonquin /Lake in the Hills, F.P.D. Board.

6. Section 109.3, Qualifications, shall be deleted in its entirety.

7. All required smoke detectors shall be 110-volt with battery-backup, interconnected and supplied by a general lighting circuit. Where smoke detectors are installed adjacent to unconditioned spaces, conduit shall be connected to the side of the junction box.

8. Section 113.1 shall be amended to read as follows:

**113.1 General.** In order to hear and decide appeals of order, decisions or determinations made by the Fire Code Official relative to the application and interpretation of this code, an appeal may be made to the Algonquin/ Lake in the Hills F.P.D Board

9. Chapter 202.1, Definitions, shall be amended to add the following definition:

**Approved container.** An outdoor fireplace, barbecue grill or pit not more than 36 inches in diameter designed to contain a recreational fire.

Section 507.5 Fire Hydrant Systems shall be amended to read as follows:

[F] 507.5.1 Where required fire hydrants shall be provided around the perimeter of a building in 300 feet increments. Delete Exceptions

10. Section [F] 903.2 shall be amended to read as follows:

**903.2 Where required.** An approved automatic sprinkler system shall be provided throughout all new buildings and structures regardless of Group or fire area and in locations described in the Section. Delete exception.

11. Section [F] 903.2.1 shall be amended to read as follows:

**903.2.1. Group A.** An automatic sprinkler system shall be provided for in Group A-1 occupancies.

12. Section [F] 903.2.1.1 shall be amended to read as follows:

**903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided for in Group A-1 occupancies.

13. Section [F] 903.21.2 shall be amended to read as follows:

**903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided for in Group A-2 occupancies.

14. Section [F] 903.2.1.3 shall be amended to read as follows:

**903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided for in Group A-3 occupancies.

**Exception:** Areas used exclusively as participant sports areas where the main floor area is located at the same level as exit discharge of the main entrance and exit.

15. Section [F] 903.2.1.4 shall be amended to read as follows:

**903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided for in Group A-4 occupancies.

**Exception:** Areas used exclusively as participant sports areas where the main floor is located at the same level as exit discharge of the main entrance and exit.

16. Section [F] 903.2.1.5 shall be amended to read as follows:

**903.2.1.5 Group A-5.** An automatic sprinkler system shall be provided in all Group A-5 occupancies in the following areas: concession stands, retail areas, press boxes and all other accessory use areas.

17. Section [F] 903.2.2 shall be amended to read as follows and the exception shall be deleted:

**903.2.3 Group E.** An automatic sprinkler system shall be provided in all Group E occupancies.

18. Section [F] 903.2.3 shall be amended to read as follows:

**903.2.4 Group F-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy.

19. Section [F] 903.2.3.1 shall be amended to read as follows:

**903.2.4.1 Woodworking operations.** An automatic sprinkler system shall be provided throughout all Group F-1 occupancies that contain woodworking operations.

20. Section [F] 903.2.4.3 shall be amended to read as follows:

**903.2.5.3 Pyroxylin plastics.** An automatic sprinkler system shall be provided throughout buildings where cellulose nitrate film or pyroxylin plastics are manufactured, stored or handled.

21. Section [F] 903.2.7 shall be amended to read as follows:

**903.2.7 Group M.** An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy.

22. Section [F] 903.2.9 shall be amended to read as follows:

**903.2.9 Group S-1.** An automatic sprinkler system shall be provided throughout buildings containing a Group S-1 occupancy.

23. Section [F] 903.2.9.1 shall be amended to read as follows:

**903.2.9.1 Repair garages.** An automatic sprinkler system shall be provided throughout buildings used as repair garages in accordance with Section 406.

24. Section [F] 903.9.2 shall be amended to read as follows:

**903.2.9.2 Bulk storage of tires.** Buildings and structures used for the storage of tires shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1

25. Section [F] 903.2.10.1 shall be amended to read as follows:

**903.2.10.1 Commercial parking garages.** An automatic sprinkler system shall be provided throughout buildings used for the storage of commercial trucks or busses.

26. Section [F] 903.2.11.1 shall be amended to read as follows:

**903.2.11.1 Stories without openings.** An automatic sprinkler system shall be installed throughout every story or basement of all buildings.

27. Section [F] 903.2.11.3, Buildings over 55 feet in height, delete exception 2.

28. Section 903.2.13 shall be amended to add the following section:

**903.2.13 Group B.** An automatic sprinkler system shall be provided throughout buildings containing a Group B occupancy.

29. Section 903.2.14 shall be amended to add the following section:

**903.2.14 Group F-2.** An automatic sprinkler system shall be provided throughout buildings containing a Group F-2 occupancy.

30. Section 903.2.15 shall be amended to add the following section:

**903.2.15 Group U.** An automatic sprinkler system shall be provided throughout buildings containing a Group U occupancy.

**Exception:** Structures regulated by the International Residential Code in accordance with Section 101.2.

31. Section [F] 903.3.1.1.1, Exempt locations, delete 2, 3 and 4.

32. Section [F] 903.3.5, Water supplies, shall be amended to read as follows:

**903.3.5 Water Supplies.** Water supplies for automatic sprinkler systems shall comply with this Section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of the Illinois Plumbing Code and Chapter 6B of this Code. A minimum 10 pounds per square inch safety factor shall be provided in the fire protection system hydraulic calculations. The system demand shall be a minimum of 10 pounds per square inch below the seasonal low water flow test supply. Hydrant water flow data used for the design of any sprinkler system shall be no more than 1 year old. Water flow tests shall be witnessed by the fire department.

33. Section [F] 903.3.6, Hose threads, shall be amended to add the following sections:

**903.3.6.1 Algonquin-Lake in the Hills Fire Protection District.** The fire department connection on

buildings constructed within the Algonquin-Lake in the Hills Fire Protection District shall be based on the fire protection system demand as follows:

- I. Less than 400 GPM: One 4-inch locking Storz FDC with 30 degree elbow and cap.
- II. 400-999 GPM: One 4-inch locking Storz FDC with 30 degree elbow and cap.
- III. Greater than 1000 GPM: Two 4-inch locking Storz FDC's with 30 degree elbow and caps. The FDC's shall be remotely located on the building.

**[F] 903.3.7 Fire Department Connections.** Fire department connections shall be visible and unobstructed on a street front, parking lot, fire lane or other accessible location approved by the appropriate Building Official and appropriate fire protection district. A fire hydrant shall be located within 100 feet of fire department connections. A blue weatherproof 75-candela exterior strobe light shall be installed on the exterior of the building above each fire department connection and shall be activated by water flow only.

34. Section 903 shall be amended to add the following section:

**[F] 903.3.8.6 Fire pump test header.** An outside test header shall be provided on all fire pump installations. An OS&Y control valve with a tamper switch shall be provided on all fire pump test headers.

35. Section 903 shall be amended to add the following section:

**[F] 903.3.9 Riser check valve.** Provide a check valve in each sprinkler riser.

36. Section 903 shall be amended to add the following section:

**[F] 903.3.10 Hydraulic placard information.** A reproduction of each hydraulic placard shall be included on the design drawings near the corresponding hydraulically calculated area.

37. Section 903 shall be amended to add the following section:

**[F] 903.3.11 Sprinkler room access.** Where fire sprinkler risers or fire pumps are located in a separate room, a minimum of a 36-inch side-swinging door complying with Section 715.4 shall be installed to provide direct access into the room from inside and outside of the building. Where the fire sprinkler risers are not located in a separate room, a minimum of 36-inch side-swinging door complying with Section 715.4 shall be installed in an exterior wall, in an approved location, to provide access to the vicinity of the

sprinkler risers from the outside of the building. A sign shall be provided on the exterior of the door(s) with minimum 4-inch high non-script letters stating, "SPRINKLER CONTROL VALVES" and/or "FIRE PUMP ROOM," as applicable.

38. Section 903 shall be amended to add a new section that will read as follows:

**[F] 903.3.12 Thin wall pipe.** The use of XL thin wall sprinkler pipe shall not be permitted in dry sprinkler systems or pre-action sprinkler systems.

39. Section [F] 903.4, Sprinkler system supervision and alarms, shall be amended to read as follows:

**[F] 903.4 Sprinkler systems supervision and alarms.** All valves, controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches shall be electrically supervised by the building fire alarm system.

Exceptions: No change

40. Section [F] 903.4.1, Signals, shall be amended to add to read as follows:

**[F] Section 903.4.1 Monitoring.** Alarm, supervisory and trouble signals shall be distinctly different and automatically transmitted via of radio signal to an approved UL listed Central Station in accordance with NFPA 72 (2016 Ed.), including Annex, and shall be approved by the Fire District. Exceptions included.

41. Section [F] 903.4.2 shall be amended to read as follows:

**[F] 903.4.2 Alarms.** A fire alarm shall monitor all automatic sprinkler systems. Approved audible and visual devices shall be connected to every automatic sprinkler system. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system.

Actuation of the automatic sprinkler system shall actuate the building fire alarm system flow alarm, 24 vdc Blue colored strobe and water flow indicating appliances through the fire protection district direct connection. Visual alarm devices shall be arranged so the flashing light beam can be seen at the required level of intensity from all common use areas. Visual alarm appliances shall be provided as directed in

Section [F] 907.5.2.3 and in restrooms. Audible alarms shall be arranged so the alarm can be heard in all areas of the building, as directed in Section [F] 907.5.2.

42. Section [F] 903.4.3 shall be amended to read as follows:

**[F] 903.4.3 Floor control valves.** Approved, supervised indicating floor control valves with water flow switches shall be provided at the point of connection to the riser on each floor in multiple story buildings, including all floor levels below grade.

43. Section [F] 905.3 shall be amended to read as follows:

**[F] 905.3. Required installations.** Class I standpipe systems shall be installed where required by Sections 905.3.1 through 905.3.7 and in locations indicated in Sections 905.4. Standpipe systems are permitted to be combined with automatic sprinkler systems unless otherwise noted.

**Exception:** Standpipe systems are not required in buildings and structures regulated by the International Residential Code in accordance with Section 101.2, Exception 1.

44. Section [F] 905.3.1 shall be amended to read as follows:

**[F] 905.3.1 Height.** Automatic Class I standpipe systems shall be installed throughout all buildings and portions of buildings: With more than 2 stories above the lowest level of fire department vehicle access. With more than 2 stories below the highest level of fire department vehicle access. Where there is a floor level located more than 30 feet above the lowest level of fire department vehicle access, including mezzanines. Where there is a floor level located more than 30 feet below the highest level of fire department vehicle access, including mezzanines. Where any portion of the building floor area, including mezzanines, is more than 400 feet of travel from the nearest point of fire department vehicle access.

45. Section [F] 905.3 shall be amended to add the following section:

**[F] 905.3.9 High-piled combustible storage.** Buildings or portions of buildings with high-piled combustible storage shall be equipped with a Class I automatic wet standpipe system. Standpipe hose connections shall be located in high-piled combustible storage areas where storage exceeds 12 feet in

height. Hose connections shall be located at each door to the high-piled combustible storage area. Where the travel distance between hose connections exceeds 200 feet, the Building Official is authorized to require additional hose connections be provided in approved locations. The standpipe system shall be:

- A separate riser piping system.
- Hydraulically calculated for a minimum of 250 gallons per minute at 75 pounds per square inch to the most hydraulically remote fire hose valve.
- Where system pressures exceed 100 pounds per square inch, a reduced pressure field-adjustable type hose valve shall be provided.

46. Section [F] 905.4 shall be amended to add the following to the list of locations of Class I standpipe hose connections: In Group A-1 and A-2 occupancies with occupant loads of more than 1,000, hose connections shall be located on each side of any stage, on each side of the rear of the auditorium, on each side of the balcony and on each tier of dressing rooms.

47. Section [F] 905.4 shall be amended to add the following section:

**[F] 905.4.3 Hose connection threads.** Each Class I standpipe hose connection shall be equipped with a 2.5-inch NST male hose valve, with a removable 2.5-inch female to 1.5- inch male adapter, which shall be permanently chained to the hose connection.

48. Section [F] 905.5, Locations of Class II standpipe hose connections, shall be deleted in its entirety.

49. Section [F] 905.6, Locations of Class III standpipe hose connections, shall be deleted in its entirety.

50. Section [F] 907.1.3, Equipment, shall be amended to read as follows:

**[F] 907.1.3 Equipment.** All fire alarm systems shall be of the addressable type. Systems and their components shall be listed and approved for the purpose for which they are installed.

51. Section [F] 907.2, Where required, shall be amended to read as follows:

**[F] 907.2 Where required.** An approved manual, automatic or manual and automatic fire alarm system

installed in accordance with the provisions of this code and NFPA 72 shall be provided in accordance with Section 907.2.1 through 907.2.23, as amended, and provide occupant notification in accordance with Section 907.5. An approved manual fire alarm system shall be provided in all Groups. An approved automatic fire detection system installed in accordance with NFPA 72 shall be provided in all non-sprinklered Groups. Where automatic sprinkler protection, installed in accordance with Section 903.2.1 - 903.2.12, is provided and connected to the building fire alarm system, automatic heat detection required by this Section shall not be required. Devices, combinations of devices, appliances and equipment shall comply with Section 907.1.2. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where, during normal operation, products of combustion are present in sufficient quantity to activate a smoke detector. All fire alarm control panels of full function annunciator panels shall be installed within 10 feet of the main entrance or in a location approved by the fire protection district.

**Exception:** Buildings and structures regulated by the International Residential Code in accordance with Section 101.2, Exception 1.

52. Section [F] 907.2.1, Group A, delete the exception.

53. 907.2.1.1 System Initiation in Group A occupancies were occupant load of 1,000 or more, Delete exception

54. Section [F] 907.2.2, Group B, delete the exception.

55. Section [F] 907.2.3, Group E, delete exception 1,2, 4

56. Section [F] 907.2.4, Group F, delete the exception.

57. Section [F] 907.2.5, Group H, shall be amended to read as follows:

**[F] 907.2.5 Group H.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all

Group H occupancies. An automatic fire detection system shall be installed in accordance with NFPA 72 in all incidental use areas, all accessory use areas and any non-sprinklered room or area in a Group H occupancy in compliance with Section 903.3.1.1.1, Exception 1.

III. Section [F] 907.2.7, Group M, delete exception 2.

58. Section [F] 907.2.8.1, Manual fire alarm system, shall be amended to read as follows:

**[F] 907.2.8.1 Manual fire alarm system.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group R-1 occupancies.

Delete Exceptions 1 and 2.

59. Section [F] 907.2.8.2, Automatic fire alarm system, shall be amended to read as follows:

**[F] 907.2.8.2 Automatic fire alarm system.** An automatic fire alarm system shall be installed in accordance with NFPA 72 in all Group R-1 interior common areas.

Delete: Exception.

60. Section [F] 907.2.9, Group R-2, shall be amended to read as follows:

**[F] 907.2.9 Group R-2.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group R-2 common areas. An automatic fire detection system shall be installed in accordance with NFPA 72 in all Group R-2 common areas.

Delete Exceptions 1, 2 and 3

61. Section [F] 907.2.12, **High-rise buildings**, all exceptions shall be deleted.

62. Section [F] 907.5.2.3.1, Public use areas and common use areas, shall be amended to read as follows:

**[F] 907.5.2.3.1 Public use areas and common use areas.** Visible alarm notification appliances shall be provided in public areas and common areas. A clear weatherproof 75-candela exterior strobe shall be installed on the exterior of all multi-tenant buildings over the main entrance to each tenant space, and shall

be activated by the fire alarm devices within that tenant space only. A blue weatherproof 75-candela exterior strobe shall be installed on the exterior of the building above the fire department connection and shall be activated by water flow only.

63. Section [F] 907.6.3 Initiating Device Identification, delete exception 1 and 2

64. Section [F] 907.6.4, Zones, shall be amended to read as follows:

**[F] 907.6.4 Zones.** Each floor shall be zoned separately and a zone shall not exceed 22,500 square feet. The length of any zone shall not exceed 300 feet in any direction. Multi-tenant buildings shall ring by tenant space.

65. Section [F] 907.6.4.2, High-rise buildings, shall be amended to read as follows:

**[F] 907.6.4.2 High rise building.** A separate zone by floor shall be provided for each of the following types of alarm-initiating devices where provided.

- Manual fire alarm boxes
- Heat detectors
- Smoke detectors
- Sprinkler water-flow switches
- Other suppression systems
- Other fire detection devices

66. Section [F] 907.6.6 Monitoring, shall be amended to add to read as follows:

**Section [F] 907.6.6 Monitoring.** Fire alarm systems required by this chapter or by the International Building Code shall be monitored via radio signal to a UL listed Central Station in accordance with NFPA 72 (2016 Ed.), including Annex, and shall be approved by the Fire District. Exceptions included.

67. Add Section 907.6.6.3 Signal Equipment - Any alarm, supervisory, and/or trouble signal or any combination of such signals shall be immediately retransmitted to the Fire District communications/dispatch center at SEECOM.

68. Add Section 907.6.6.4 Alarm Record Reporting - At the start of each shift change at the approved listed supervising station, a status of all alarm, supervisory, and trouble signals or any combination of such signals shall be reported via fax to the Fire District (847-854-2609).
69. Section 1006.1, Minimum number of exits, shall be amended to add the following section: For the purposes of this Chapter, tenant spaces shall be provided with exits as required by Table 1006.3.2
70. Section 1006.3.3, Single exits, shall be deleted in its entirety.
71. Section 1008.3, Illumination emergency power, shall be amended to add an additional location for emergency illumination, which shall read as follows:

All rooms containing building fire sprinkler riser(s), fire pump(s) and fire alarm control panel(s) shall be provided with emergency lighting.
72. Chapter 29, Plumbing Systems and the Illinois State Plumbing Code shall govern the erection, installation, alterations, repairs, relocation, replacement, addition to, use or maintenance of plumbing equipment and systems. Plumbing systems and equipment shall be constructed, installed and maintained in accordance with the Illinois State Plumbing Code.
73. Chapter 35, add the following to the list of NFPA Standards: All standards listed in Chapter 80 of the International Fire Code.

**Delete 903.1.1 Alternative Protection**

**Delete 903.3.1.1.1 Exempt Locations**

## **NATIONAL ELECTRICAL CODE/2017**

The National Electrical Code, 2017 edition, promulgated by the National Fire Protection Association, ("Electrical Code") be the same is hereby adopted by reference and made part of this Section, subject to modifications set forth herein, and shall be applicable to the Algonquin/ Lake in the Hills, F.P.D.

### **MODIFICATIONS TO THE ELECTRICAL CODE**

1. Article 700.12 General Requirements shall be amended to add the following: Emergency systems shall be properly identified.
2. Article 700.16 shall be amended to add the following:  
Emergency lighting consisting of not less than 2 lamps shall be provided in all non- residential bathrooms, connected to the bathroom lighting circuit.
3. Article 760 shall be amended to add the following:  
Accessible fire alarm cable, conduit and junction boxes shall be the color red in their entirety.

## **INTERNATIONAL EXISTING BUILDING CODE/2018**

The International Existing Building Code, 2018 edition, ("Existing Building Code") be and the same, is hereby adopted by reference and made part of the Section, subject to modifications set forth herein, and shall be applicable to the District.

### **MODIFICATIONS TO THE EXISTING BUILDING CODE**

The Existing Building Code shall be amended as follows:

1. Section 101.1, insert Algonquin/Lake in the Hills, F.P.D.
2. Section 101.2 shall be amended to read as follows:

**101.2 Scope.** The provisions of the Existing Building Code shall apply to the repair, alteration, change of occupancy, addition and relocation of existing, non-residential and mixed use occupancy buildings located within the Algonquin/ Lake in the Hills F.P.D. New buildings or a building or portion of a building that has not been previously occupied or used for its intended purpose shall comply with the provisions of the Building Code for new construction. Repairs, alterations, change

of occupancy, existing buildings to which additions are made, historic buildings and relocated buildings complying with the provisions of the Building Code, Mechanical Code, Plumbing Code, Electrical Code and Residential Code, as applicable, shall be considered in compliance with the provisions of the code.

3. Section 105.2, Work exempt from permit, delete: 1, 3, 4 and 5.

4. Section 112.1 shall be amended to read as follows:

**112.1 General.** In order to hear and decide appeals of orders, decisions or determinations made by the Fire Code Official relative to the application and interpretation of this code, an appeal may be made to the Algonquin/ Lake in the Hills, F.P.D. Board.

5. Section 112.3, Qualifications, shall be deleted in its entirety.

6. Section [P] 408.1, Plumbing, shall be amended by inserting Illinois State Plumbing Code in place of International Plumbing Code.

### **2018 Illinois Accessibility Code**

The Illinois Accessibility Code, effective date October 23, 2018, (410 ILCS25 Illinois Administrative Code 400) ("Accessibility Code") be and the same, is hereby adopted by reference and made part of this Section and shall be applicable to the District. In the event of a conflict between the provisions of the Illinois Accessibility Code and the International Building Code, the most restrictive provisions shall apply.

### **Plan Review, Permits and Contribution Fees**

1. The District shall have day to day authority to review fire protection plans for new sites, buildings, and other permit projects to determine whether such proposed projects meet the code requirements.
2. The District Shall collect the following fees for their services:
  - a. For projects involving a construction area of 3,000 square feet or less, the

- project representative will be assessed a flat fee of \$300.00
- b. For projects involving construction area of 3,001 square feet or greater, the project representative will be assessed a fee of \$0.12 per square foot of construction area.

3. Fees outlined in no. 2 above include the following items for each project:

- a. All on-site consultations
- b. Up to two fire protection system acceptance tests
- c. All fire protection system inspections.

4. The District will also collect the following fees for each of the following as applicable to the project:

- a. Black iron ductwork inspections: \$100.00
- b. Fire pump tests: \$100.00
- c. Underground fire protection water main tests: \$100.00

5. For Project where it is determined that the District must utilize the expertise of a fire protection system consultant for plan reviews, inspections, or acceptance testing, the project representative shall be responsible for payment of the third-party consultant's fees. The project representative will be provided with the third-party consultant's fee schedule at time of initial project review.

6. The District shall be entitled to a one-time contribution fee, per dwelling unit of up to \$600 for developments within the boundaries of the District.

**False Fire Alarm Service Charges:**

**Definitions:**

**False Alarm:** Any fire alarm signal which indicates the existence of an emergency, when in fact no such emergency exists, and shall include any alarm signal generated by any fire protection system by whatever means, but shall not include alarms resulting from any of the following causes:

- A. Fire causing damage to structures or contents of a protected premises, verified by the ALFPD
- B. Structural and/or physical damage as the result of severe weather including: earthquakes, tornados, lighting or other severe weather.
- C. Electrical service interruptions by the local power company

**Fire Protection System:** Shall include, but not limited to: fire alarm systems, fire sprinkler systems, commercial kitchen hood suppression systems, carbon monoxide systems, clean agent systems, air sampling systems, and fire pumps.

**Improper Maintenance:** Where a fire protection system has not been properly maintained by the property owner, which results in false alarms or nuisance alarms in a non-emergency situation which cause a transmission of a fire trouble or fire supervisory condition.

**Nuisance Alarms:** Any supervisory or trouble alarms signals that are determined to be a nuisance causing continuing activations due to improper maintenance or improper usages.

**User:** The owner of the property from which the false alarm or nuisance alarm originates, and any individual, partnership, corporation, organization or other entity on the property with the permission of the owner.

**12 Month Period:** The 12-month period shall begin with first false alarm or nuisance alarm action.

## **I. Service Charges:**

- a. False alarms, an alarm user shall be issued the following. All false alarm service charges shall be remitted to the Algonquin Lake in the Hills Fire Protection District by the alarm user upon receipt of the statement for each service fee.
  - i. First and Second False alarms within a twelve month period: A warning letter will be issued with no fine.
  - ii. Third and Fourth False Alarms: a service fee of \$300.00 for each false alarm.
  - iii. Each additional alarm within a twelve month period after the fourth false alarm shall result in a service charge of at least \$350.00 increasing by \$50.00 for each additional false alarm, not to exceed \$500.00 per each additional false alarm.
- b. **Nuisance Alarms**, an alarm user will be issued the following. All nuisance alarm service charges shall be remitted to the Algonquin Lake in the Hills Fire Protection District by the alarm user upon receipt of the statement for each service fee.
  - i. First and Second nuisance alarms in a twelve month period: A warning letter will

be issued with no service charge.

- ii. Third and Fourth nuisance alarms within a twelve month period: \$100.00 services fee will be charged per nuisance alarm.
- iii. Each additional nuisance alarm with a twelve month period after the forth nuisance alarm shall result in a service charge of \$250.00, with each charge increasing by \$50.00 for each addition nuisance alarm, not to exceed \$500.00 per nuisance alarm.

## **Fire Watch**

### **Definitions:**

**Out of Service Alarms or fire protection system:** Any required fire alarm system or fire protection system that will not function and/or transmit signals as designed and approved by the local building official and/or ALFPD

**Fire Watch:** A temporary measure intended to ensure continuous and systematic surveillance of a building or portion thereof by one or more qualified individuals for the purposes of identifying and controlling fire hazards, detecting early signs of unwanted fire, raising an alarm of fire and notifying the fire department.

#### **1. Implementation of a Fire Watch:**

- a. Where an impairment or deficiency is noted as defined by NFPA 72, National Fire Alarm and Signaling Code is deemed by the ALFPD to effect the overall occupant notification, and will be in effect for greater than 4 hours within a 24 hour period, a fire watch shall be implemented.

- b. Where an impairment or critical deficiency is noted as defined by NFPA 25 Standard for the inspection, testing and maintenance of water based fire protection systems, is deemed by the ALFPD to effect the overall operation of the fire occupancies fire sprinkler system in regards to life safety for greater than 4 hours

within a 24 hour period, a fire watch shall be implemented.

## **2. Fire Watch Requirements**

a. Notify SEECOM (the dispatching agency), the Algonquin-Lake in the Hills Fire Protection District, and all facility personnel, in writing and by telephone, that the fire alarm/sprinkler system is not operational. The phone numbers are:

**SEECOM 815-356-1117**

**Algonquin-Lake in the Hills Fire Protection District 847-658-8233**

b. Establish a temporary fire watch by individuals who are dedicated solely to the fire watch duties. It shall be the responsibility of management to ensure the fire watch personnel are capable of performing all function of a fire watch as defined in this document.

c. Provide fire watch personnel with a means of identifying themselves as authorized representatives of the facility.

d. Each route to be covered by fire watch personnel shall be designated by the facility.

e. The route shall be explicitly defined to ensure that the fire watch personnel patrols the correct area.

f. The fire watch personnel assigned to each route shall be provided with instructions, all details regarding the route, and the functions to be carried out in covering the route.

g. Fire watch personnel shall make rounds at one (1) hour intervals. When operations in the property are suspended, rounds shall be made hourly. During the rounds, the fire watch personnel shall make a thorough inspection of all buildings or spaces including concealed areas, such as attics, unoccupied storage areas, etc. Fire watch personnel shall sign a log sheet maintained in the facility main office or other location approved by this office. Log sheet shall state begin time and end time of each individual round and the name (printed) and the initials of the personnel.

h. Procedures shall be established for orderly conduct of the operations at the property, including procedures for fire loss prevention both by employees of the property protected and by outside contractors, and the prompt reporting of any fires discovered by calling 911 immediately.

i. Each facility shall establish programs for fire watch personnel to ensure they are familiar with the property being protected, including:

- i. All buildings, occupancies, and hazards
- ii. Fixed fire protection systems
- iii. Manual and automatic fire alarm systems
- iv. Portable fire extinguishers
- v. Emergency shutdown procedures and equipment for which they are responsible
- vi. The facility emergency action plan
- vii. Emergency power generator systems

j. Each facility shall ensure that fire watch personnel are familiar with the site specific emergency plans for dealing with fires and other emergencies.

k. Each facility shall ensure that fire watch personnel are familiar with the procedures to follow in the recognition and reporting of an emergency, including:

- i. How to notify the fire department and other emergency response organizations.

- ii. The personnel to be contacted.

l. Each facility manager / administrator shall ensure that:

- i. Fire watch personnel are not permitted to change the time record charts.
- ii. The changing and review of time record charts are done by the manager/administrator or the manager/administrators designee.

- iii. Time record charts of fire watch personnel are promptly reviewed
- iv. Files are maintained for review by representatives of the authority having jurisdiction.
- v. All irregularities are investigated, recorded and corrective action taken

m. A continuously updated directory of names, telephone numbers, and other information to assist in making emergency calls shall be kept at the facilities administrative office. This directory shall include the telephone numbers of key facility personnel to be notified in an emergency, fire, police and emergency medical service departments, and other outside agencies needed in an emergency.

n. The owner is responsible to cancel the fire watch once the fire protection system has been fully restored. Once the fire watch has been canceled, the owner or representative must notify the monitoring agency, SEECOM and the Algonquin-Lake in the Hills Fire Protection District.

STATE OF ILLINOIS )  
COUNTIES OF MCHENRY AND KANE )  
SS

## **SECRETARY'S CERTIFICATE**

I, Charlie Teson, the duly qualified and acting Secretary of the Board of Trustees of the Algonquin-Lake in the Hills Fire Protection District, McHenry and Kane Counties, Illinois, do hereby certify that I am the keeper of its books and records and that the attached hereto is a true and correct copy of an Ordinance entitled:

## ORDINANCE NO. 2022 - 01

## AN ORDINANCE AMENDING ORDINANCE 2020-01

## ESTABLISHING THE FIRE PREVENTION CODE AND LIFE SAFETY CODE FOR THE

## **ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT**

which Ordinance was duly adopted by said Board of Trustees at a regular meeting held on the 26<sup>th</sup> day of January, 2022.

I do further certify that a quorum of said Board of Trustees was present at said meeting and that the Board complied with all requirements of the Illinois Open Meetings Act.

IN WITNESS WHEREOF, I have hereunto set my hand this 26 day of January 2022.

Charles Tesson

Charles Teson  
Secretary, Board of Trustees  
Algonquin-Lake in the Hills Fire Protection District