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## ARTICLE VII. FIRE PREVENTION

### Sec. 6-101. Adoption of the International Fire Code.

There is hereby adopted by the village the 2024 International Fire Code, as hereinafter amended (hereinafter the "Fire Code"). At least one copy of the International Fire Code has been on file in the office of the village clerk for a period of at least 30 days prior to the adoption of these provisions and now are and remain on file in the office of the village clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein. The provisions of the International Fire Code, 2024 edition, published by the International Code Council, Inc. are hereby adopted by this reference, subject only to the additions, deletions and modifications specifically set forth in section 6-102 of this Code.

### Sec. 6-102. Additions, deletions and modifications of the International Fire Code.

The following sections of the aforesaid International Fire Code 2024 edition are hereby amended, deleted or modified as hereinafter set forth:

(1) *Subsection 101.1 Title.*

Insert "the Village of Northbrook, Cook County, Illinois" for "[name of jurisdiction]."

(2) *Subsection 102.7.1 Conflicts.* Delete the entire subsection and replace with the following:

**102.7.1 Conflicts.** Where differences occur between the provisions of this Code and the referenced standards, the most stringent provision shall apply.

(3) *Subsection 102.7.3 Adopted Standards.* Add a new subsection to read as follows:

**102.7.3 Adopted Standards.** The following NFPA Standards are to be adopted in their entirety. This will require all system installations to be installed per NFPA requirements and NFPA recommendations for good engineering practices and installations.

- a) NFPA 10 Portable Fire Extinguishers, 2022 edition.
- b) NFPA 13 Automatic Sprinkler Systems, 2022 edition.
- c) NFPA 13R Sprinkler Systems in Residential Occupancies, 2022 edition.
- d) NFPA 13D Installation of Sprinklers in One and Two-Family Dwellings, 2022 edition.
- e) NFPA 14 Standpipe and Hose Systems, 2022 edition.

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- f) NFPA 15 Water Spray Fixed Systems, 2022 edition.
  - g) NFPA 16 Installation of Foam Water Sprinkler and Foam Water Spray Systems, 2019 edition.
  - h) NFPA 20 Installation of Centrifugal Pumps, 2022 edition.
  - i) NFPA 24 Installation of Private Fire Service Mains and their Maintenance, 2022 edition.
  - j) NFPA 25 Inspection, Testing and Maintenance of Water Based Fire Protection Systems, 2023 edition.
  - k) NFPA 70 National Electrical Code, 2023 edition.
  - l) NFPA 72 National Fire Alarm Code, 2022 edition.
  - m) NFPA 96 Installation of Equipment for the Removal of Smoke and Grease Laden Vapors for Commercial Cooking Equipment, 2024 edition.
  - n) NFPA 101 The Life Safety Code, as adopted by the OSFM.
  - o) NFPA 1123 Fireworks Display, 2022 edition.
  - p) NFPA 1124 Manufacture, Transportation, Storage and retail sales of fireworks and pyrotechnics, 2022 edition.

(4) *Section 104.3 Right of Entry. Delete this section in its entirety and replace it as follows:*

104.3 Right of Entry, Inspections—Generally.

- a) Subject to constitutional limitations, the fire chief may, at all reasonable hours, enter any building or premises within the village for the purpose of making any inspection or investigation which, under the provisions of this chapter, the fire chief may deem necessary to be made.
- b) The fire chief, or their designee, shall have the authority to inspect, or cause to be inspected, all buildings and premises located in the village, except private dwellings, with such frequency as the fire chief shall deem necessary or appropriate, for the purpose of ascertaining and causing to be corrected any conditions liable to cause fire, or any violations of the provisions or intent of any ordinance of the village affecting a fire hazard, and for the purpose of ensuring the adequate function of all fire alarm, fire detection, and fire suppression systems required by this Code and other ordinances of the village.
- c) The fire chief, or their designee, is authorized to inspect as often as may be necessary all specially hazardous manufacturing processes, storage or installations of gases, chemicals, oils, explosives and flammable materials, all interior and exterior fire alarm and automatic sprinkler systems, and such other hazards or appliances as the fire chief shall designate, and shall issue such orders as may be necessary for the enforcement of the laws and ordinances governing the same and for safeguarding of life and property from fire.
- d) Each place of assembly must be inspected by the fire chief, or the fire chief's designee, so as to ensure compliance with all laws, regulations and orders dealing with overcrowding, use of decorations and maintenance of fire appliances in such places of assembly. Where conditions are found to be unsatisfactory, written orders for immediate correction shall be given.
- e) The fire chief, or their designee, may order the removal from any building or premises (i) combustible or explosive matter, or dangerous accumulations of rubbish or unnecessary accumulation of waste paper, boxes, shavings, any highly flammable materials, or any

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hazardous materials and which is so situated as to endanger life or property; or (ii) obstructions to or on fire escapes, stairs, passageways, doors, or windows, liable to interfere with the operations of the fire department or egress of occupants in case of fire.

- f) The fire chief, or their designee, upon the complaint of any person or whenever the fire chief shall deem it necessary, may inspect all buildings and premises within the departmental jurisdiction. Whenever the fire chief, or their designee, shall find any building or other structure which, for want of repairs, lack of sufficient fire escapes, automatic or other fire alarm apparatus or fire extinguishing equipment or by reason of age or dilapidated condition, or from any other cause, is especially liable to fire, and which is so situated as to endanger other property or the occupants thereof, and shall find in any building combustible, hazardous or explosive matter of flammable conditions dangerous to the safety of such building or the occupants thereof, the fire chief, or their designee, shall order such dangerous conditions or materials to be removed or remedied in such manner as the order specifies.

- (5) *Section 104.5 Notices and Orders.* Add the following sections as follows:

104.5.1 The fire chief, or their designee, may order the removal from any building or premises (i) combustible or explosive matter, or dangerous accumulations of rubbish or unnecessary accumulation of waste paper, boxes, shavings, any highly flammable materials, or any hazardous materials and which is so situated as to endanger life or property; or (ii) obstructions to or on fire escapes, stairs, passageways, doors, or windows, liable to interfere with the operations of the fire department or egress of occupants in case of fire.

104.5.2 The fire chief, or their designee, upon the complaint of any person or whenever the fire chief shall deem it necessary, may inspect all buildings and premises within the departmental jurisdiction. Whenever the fire chief, or their designee, shall find any building or other structure which, for want of repairs, lack of sufficient fire escapes, automatic or other fire alarm apparatus or fire extinguishing equipment or by reason of age or dilapidated condition, or from any other cause, is especially liable to fire, and which is so situated as to endanger other property or the occupants thereof, and shall find in any building combustible, hazardous or explosive matter of flammable conditions dangerous to the safety of such building or the occupants thereof, the fire chief, or their designee, shall order such dangerous conditions or materials to be removed or remedied in such manner as the order specifies.

- (6) *Section 112 Means of appeals.* Delete this section in its entirety.

- (7) *Subsection 113.3.1 Service.* Section 113.3.1 is hereby deleted in its entirety and replaced as follows:

113.3.1 Service of orders and compliance with orders.

113.3.1.1 The service of orders issued pursuant to section 6-102(4) may be made upon the lessee, owner, occupant, or any person responsible for the conditions, either by delivering a copy personally or by delivering a copy to and leaving it with any person in charge of the premises, or in case no such person is found upon the premises, by affixing a copy in a conspicuous place on the door to the entrance of the said premises.

113.3.1.2 An order may be served upon the owner of the premises either by delivering it to and leaving it with the owner or by mailing such copy to the owner's last known post office address.

113.3.1.3 If buildings or other premises are owned by one person and occupied by another under lease or otherwise, the orders issued in connection with the enforcement of this Code shall apply to the occupant, except where the rules or orders require the making of additions to or changes in the premises themselves, such as would immediately become real estate and be the property of the owner of the premises. In such cases the rules or orders shall affect the owner and not the occupant unless it is otherwise agreed between the owner and the occupant.

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113.3.1.4 Any such order shall forthwith be complied with by the owner or occupant of such premises or buildings. If such order is made by the fire marshal or an inspector, as agents of the fire chief, such owner or occupant may within 48 hours appeal in writing to the fire chief, who shall, within five business days, review such order and file their decision thereon, and unless by their authority the order is revoked or modified it shall remain in full force and be complied with within the time fixed in said order or decision of the fire chief.

*Subsection 113.4 Violation penalties.* Delete this section in its entirety.

- (8) *Subsection 114.4 Failure to comply.* Modify the last sentence so the subsection reads as follows:

114.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine, as established in this Code.

- (9) *Section 503 Fire Apparatus Access Roads.* Add new subsection 503.7 Fire lanes as follows:

503.7 Fire Lanes.

- a) In this section, "fire lane" means any street, alley, driveway, accessway, roadway or easement of access which is maintained or intended to provide ingress or egress for fire control vehicles and equipment to or from any building, structure, fire department connection (FDC) or fire hydrant location. A fire lane may be on publicly dedicated property or located wholly or partially on or over private property.
- b) Whenever the fire chief determines that a fire lane will assist in preventing or eliminating a dangerous, difficult or hazardous condition associated with fire defense, protection or prevention on any premises and the owner of such premises enters into an agreement and/or dedication as may be necessary to prevent or eliminate the condition involved, such fire lane will be established.
- c) The village manager is hereby authorized to enter into any fire lane agreement(s) with the property owner(s), and such agreements shall be in a form approved by the village attorney. Such agreements will be recorded with the Cook County Recorder of Deeds. When entering into an agreement, the property owner shall pay a fee as established in the Village of Northbrook Annual Fee Ordinance to cover the cost of creating and recordation of the agreement.
- d) Fire lanes established in accordance with this section shall be posted with approved signs to identify their location purchased from the village for an amount established in the Village of Northbrook Annual Fee Ordinance by the owner of the property and installed by the owner in locations designated in the agreement.
- e) It shall be unlawful for any person to block or obstruct, including vehicle parking or standing, in any manner whatsoever, wholly or partially, any duly established and posted fire lane. Any person who violates this section shall be guilty of an offense punishable by a fine as established in the Village of Northbrook Annual Fee Ordinance.
- f) Whenever a fire lane is blocked or obstructed in any manner whatsoever, authority is hereby granted to the fire chief to remove the vehicle or other obstruction by towing, utilizing an approved towing service with any towing paid by the owner or operator of the towed vehicle.

503.7.1 Fire Lane Signage.

- a) Fire Department access or fire lanes shall be identified on private streets or drives by use of the phrase "NO PARKING – FIRE LANE – SEC. 24-101 \$110 Fine", and shall be designated by the approved signs as follows:

- 1. Signs shall be eighteen (18) inches in height by twelve (12) inches in width

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2. Lettering shall be red on a white back ground no less than three (3) inches in height.
  3. The perimeter of the sign shall have a red border no more than 3/8 inch in width.
  4. The background shall be reflective 3m high intensity sheeting or equal.

b) The signs shall be no less than seven (7) feet from the bottom of the sign to grade. The signs shall be within 5ft of the beginning and end of the fire lane and no more than 50 feet between signs.

(10) *Subsection 505.3 Wood truss warning sign.* Add a new subsection to read as follows:

**505.3 Wood truss warning sign.** The owner of any commercial, industrial structure which has a wooden truss roof assembly shall be required to mount warning signs meeting the following minimum requirements:

- a) Size and Construction: A four (4") red metallic letter 'T' sign located on the front and rear entrances (preferably under the building address), or in a location to be determined by the fire code official.
- b) Property owner responsibility: It shall be the responsibility of each property owner to mount, maintain, and prevent obstruction of any warning signs required to be mounted on the building or structure.

(11) *Subsection 506.3 Electric shunt switch.* Add a new subsection to read as follows:

**506.3 Electric shunt switch.** An electric Knox shunt/shut off switch shall be required in buildings of all use groups with multiple electric services. The switch will be mounted next to main Knox box or at a location specified by the fire code official.

- a) Switch should be mounted at a height of 6 (six) feet from the finished floor.
- b) The Knox box shall be clearly identified as EMERGENCY ELECTRICAL SHUT OFF.
- c) A sign indicating the address range the emergency electrical shut off powers down shall be affixed near the box with a permanent weather proof sign.

(12) *Subsection 507.5.1.1 Hydrant for Fire Department connections.* Delete this subsection in its entirety and insert a new title and language so it reads as follows:

**507.5.1.1 Hydrant for Fire Department connections.** Buildings equipped with a standpipe or a sprinkler system installed in accordance with Chapter 9 of this code shall have a fire hydrant within 100 feet of the fire department connection as determined by the fire code official.

(13) *Subsection 509.2.1 Access to fire equipment.* Add a new subsection to read as follows:

**509.2.1 Access to fire equipment.** In other than 13D sprinkler systems, where there is no common area, fire alarm panels and sprinkler system valves shall be located in a room accessible only to fire personnel from the exterior of the building. The fire department shall have access at any time to such equipment without entering an individual dwelling unit or private space. Rooms shall be designed in accordance with IFC Section 913.6.

(14) *Subsection 604.1.1 Automatic elevators for Fire Department use.* Add new subsection as follows:

**604.1.1 Automatic elevators for Fire Department use.** Where elevators are provided in buildings that are: (1) three or more stories above grade plane; (2) three or more stories below grade plane; or (3) are use groups I, R-1 or R-2, at least one elevator shall be provided for fire department emergency access to all floors. The power supply for these elevators shall be normally provided by the premises' electrical supply. In the event of a power supply failure, an emergency electrical system shall automatically provide power for a duration of not less than 24 hours, installed per section 1203. Elevators designated as emergency access shall accommodate an 88" long and 26" wide stretcher within the elevator cab, accounting for handrails and shall be identified by the international symbol for emergency medical

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services (star of life). The symbol shall not be less than 3 inches (76 mm) high and shall be placed inside on both sides of the hoist way door frame.

- (15) *Subsection 901.4.7.5 Sprinkler-Fire pump room.* Add new subsection as follows:

**901.4.7.5 Sprinkler-Fire pump room.** Provide a minimum 2 hour rated enclosure with an automatic fire suppression system with both an outside door at grade and an interior door access." When below grade, the room shall be accessed by a two-hour rated corridor immediately adjacent to a rated stairwell enclosure.

- (16) *Subsection 903.2.1.1 Group A-1.* Delete the entire subsection and replace with the following:

**903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided throughout all Group A-1 occupancies.

- (17) *Subsection 903.2.1.2 Group A-2.* Delete the entire subsection and replace with the following:

**903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided throughout all Group A-2 occupancies.

- (18) *Subsection 903.2.1.3 Group A-3.* Delete the entire subsection and replace with the following:

**903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided throughout all Group A-3 occupancies.

- (19) *Subsection 903.2.1.4 Group A-4.* Delete the entire subsection and replace with the following:

**903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided throughout all Group A-4 occupancies.

- (20) *Subsection 903.2.1.5 Group A-5.* Delete the entire subsection and replace with the following:

**903.2.1.5 Group A-5.** An automatic sprinkler system shall be provided throughout all Group A-5 occupancies.

- (21) *Subsection 903.2.2 Group B.* Add a new subsection as follows:

**903.2.2 Group B.** An automatic sprinkler system shall be provided throughout all Group B occupancies.

- (22) *Subsection 903.2.2.1 Ambulatory care facilities.* Delete the entire subsection and replace with the following:

**903.2.2.1 Ambulatory care facilities.** An automatic sprinkler system shall be installed throughout the entire floor containing an ambulatory care facility.

- (23) *Subsection 903.2.3 Group E.* Delete the entire subsection and replace with the following:

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

- (24) *Subsections 903.2.4 and 903.2.4.1 Group F-1.* Delete the language in this subsection and the related Subsection 903.2.4.1 within it and replace it with the following:

**903.2.4 Group F-1.** An automatic sprinkler system shall be provided throughout all Group F-1 occupancies.

- (25) *Subsection 903.2.5 Group H.* Delete the entire subsection and replace with the following:

**903.2.5 Group H.** An automatic sprinkler system shall be installed in all Group H occupancies.

- (26) *Subsection 903.2.6 Group I.* Delete the entire subsection and replace with the following:

**903.2.6 Group I.** An automatic sprinkler system shall be installed in all Group I occupancies.

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- (27) *Subsection 903.2.7 Group M.* Delete the entire subsection and replace with the following:  
**903.2.7 Group M.** An automatic sprinkler system shall be installed in all Group M occupancies.
- (28) *Subsection 903.2.8 Group R.* Delete the language in this subsection and the related subsections within it and replace it with the following:  
**903.2.8 Group R.** An automatic fire sprinkler system shall be installed in all Group R occupancies.
- (29) *Subsection 903.2.9. Group S-1.* Delete the entire subsection and replace with the following:  
**903.2.9 Group S-1.** An automatic sprinkler system shall be installed in all Group S-1 occupancies.
- (30) *Subsection 903.2.9.1. Repair garages.* Delete the entire subsection and replace with the following:  
**903.2.9.1 Repair garages.** An automatic sprinkler system shall be installed in all buildings used as repair garages.
- (31) *Subsection 903.2.9.2 Bulk storage of tires.* Delete the entire subsection and replace with the following:  
**903.2.9.2 Bulk storage of tires.** An automatic sprinkler system shall be installed in all buildings used for the bulk storage of tires.
- (32) *Subsection 903.2.10 Group S-2.* Delete the entire subsection and replace with the following:  
**903.2.10 Group S-2.** An automatic sprinkler system shall be provided throughout all buildings classified as an enclosed parking garage.
- (33) *Subsection 903.2.10.1 Commercial parking garages.* Delete the entire subsection and replace with the following:  
**903.2.10.1. Commercial parking garages.** An automatic sprinkler system shall be provided throughout all buildings used for storage of commercial trucks, trailers, transport container units or buses.
- (34) *Subsection 903.2.11.1 Stories without openings.* Delete the exception in this subsection:
- (35) *Subsection 903.2.11.1.2 Openings on one side only.* Delete the entire subsection and replace with the following:  
**903.2.11.1.2 Openings on one side only.** Where openings in a story are provided on only one side and the opposite wall of such story, the story shall be equipped throughout with an automatic sprinkler system.
- (36) *Subsection 903.2.11.1.3 Basements.* Delete the entire subsection and replace with the following:  
**903.2.11.1.3 Basements.** All basements shall be equipped throughout with an approved automatic sprinkler system.
- (37) *Subsection 903.3.1.1.1 Exempt locations.* Delete this section in its entirety.
- (38) *Subsection 903.3.1.3.1 Garage protection. Add new subsection as follows:*  
**903.3.1.3.1 Garage protection.** A dry horizontal sidewall sprinkler shall be installed to protect the garage man door into the house against fires that begin in the garage. Sprinkler should be installed as close as feasible to the man door into the dwelling.
- (39) *Subsection 903.3.5.3 Safety factor. Add new subsection as follows:*  
**903.3.5.3 Safety factor.** Hydraulically calculated sprinkler systems shall maintain a minimum of 10% or five (5) pounds per square inch cushion (whichever is greater) between the seasonal low water supply

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and the total sprinkler demand. The total sprinkler demand shall include the sprinkler demand and the hose stream demand.

- (40) *Subsection 903.3.5.4 Multi-tenant occupancy.* Add new subsection as follows:

**903.3.5.4 Multi-tenant occupancy.** When an automatic fire suppression system is installed in a new multi-tenant building, each tenant shall have its own sprinkler supply line off the main or riser with its own water flow switch and control valve. A strobe light shall be mounted on the exterior front of that tenant space and as indicated in Section 903.4. The strobe light shall activate upon water flow and/or fire alarm activation within the individual unit.

- (41) *Subsection 903.4.3 Alarms.* Delete the entire subsection and replace with the following:

**903.4.3 Alarms.** An approved audible device, located on the exterior of the building in an approved location, shall be connected to each 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. An exterior audio/visual device shall be located over the fire department connection in addition to the alarm bell. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system. In one and two family dwelling units an exterior horn strobe and interior bell attached to the duct work shall activate by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system.

- (42) *Subsection 903.3.9 High-rise building floor control valves.* Delete the entire subsection and replace with the following:

**903.3.9 Floor control valves.** Approved supervised indicating control valves and waterflow devices shall be provided at the point of connection to the riser on each floor in any buildings over two stores above or below grade.

- (43) *Subsection 903.1.1.3 Where required.* Add new subsection as follows:

**903.1.1.3 Where required:** automatic fire suppression sprinkler systems shall be installed where required by this Code throughout existing commercial buildings and structures when there is a 2,000 square foot or greater aggregate increase in the footprint of the building or structure, or a change in use group classification which increases the recognized fire hazard for the building or structure. However, in no case shall the increase cause an un-sprinkled building to be greater than 4,000 square feet gross floor area.

- (44) *Subsection 905.3.1 Height.* Delete the entire subsection, including the list of exceptions and replace with the following:

**905.3.1 Height.** Class I standpipe systems shall be installed throughout buildings where the floor level is greater than two stories in height or more than one story below grade. These standpipes shall have 2½-inch to 1½-inch reducer hose valves.

- (45) *Reserved.*

- (46) *Subsection 905.5 Location of Class II standpipe hose connections.* Delete the entire subsection and replace with the following:

**905.5 Location of Class II standpipe hose connections.** Class II systems are not permitted. Any requirement for standpipes shall be achieved by Class I or III systems.

- (47) *Subsection 907.1.2.1 Fire alarm design credentials.* Add a new subsection as follows:

**907.1.2.1 Fire alarm design credentials.** Fire alarm designers must be either NICET Level III certified or a State certified Professional Engineer (PE).

- (48) *Subsection 907.1.3.1 Addressable systems.* Add new subsection as follows:



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**907.1.3.1 Addressable systems.** All fire alarm systems shall be of point addressable type.

- (49) *Subsection 907.2 Where required in new buildings and structures.* Delete subsection and substitute:

**907.2 Where required in new buildings and structures.** An approved fire alarm system installed in accordance with the provisions of this Code and NFPA 72 shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.23, including buildings with a fire alarm control unit required to monitor a required sprinkler system and provide occupant notification in accordance with Section 907.5, unless other requirements are provided by another section of this Code.

A minimum of one manual fire alarm box shall be provided in an approved location to initiate a fire alarm signal for fire alarm systems employing automatic fire detectors or water-flow detection devices. Where other sections of this Code allow elimination of fire alarm boxes due to sprinklers, a single fire alarm box shall be installed.

- (50) *Subsection 907.6.6.1 Transmission of alarm signals.* Delete subsection and substitute as follows:

**907.6.6.1 Radio transmission.** All fire protective signaling systems required by this Code or voluntarily installed by the owner of the building or structure shall be equipped with a wireless system operating on radio transmissions and shall be fully compatible with the receiving equipment at the owner's selected private central station or the fire department's emergency signal receiving equipment at its central answering point, as applicable. Any such system shall comply with the requirements of this Section 917 and such other technical standards as are necessary and required by the code official.

- (51) *Subsection 915.6.1.1 Fan shut down.* Add new subsection as follows:

**915.6.1.1 Fan shut down.** In a garage setting in which a carbon monoxide detection controls the activation of an exhaust system the exhaust system must shut down upon the activation the fire detection and/or suppression systems. There shall be a manual override control device installed at the direction of the Fire Code Official.

- (52) *Subsection 912.3 Fire Hose Threads.* Delete entire subsection and replace with the following:

**912.3 Fire Hose Threads.** The fire department connection shall be located on the front of the building or at a location approved by the fire code official. The fire department connection shall consist of one four-inch Storz coupling on a 30-degree elbow mounted between 36 inches and 48 inches above the finished floor.

- (53) *Subsection 913.4 Valve supervision.* Delete Subparagraphs 3 and 4 of this subsection so it reads as follows:

**913.4 Valve supervision.** Where provided, the fire pump suction, discharge and bypass valves, and the isolation valves on the backflow prevention device or assembly shall be supervised open by one of the following methods.

1. Central-station, proprietary or remote-station signaling service.
2. Local signaling service that will cause the sounding of an audible signal at a constantly attended location.

- (54) *Subsection 5608.8.1 Fire department supervision of displays.* Add new subsection as follows:

**5608.8.1 Fire department supervision of displays.** All outside public fireworks displays are required to have a fire department standby, to be determined by the fire chief or his/her designee. Fire department expenses incurred by this standby will be billed to the host of the display. Local governmental agencies may be exempt from this fee.

- (55) *Subsection 5704.2.9 Above-ground tanks.* Delete the language in this subsection in its entirety and replace it so it reads as follows:

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**5704.2.9 Above-ground tanks.** Above-ground outside storage of flammable and combustible liquids is prohibited.

**Exception:** Above-ground outside storage tanks of Class II or III combustible liquids shall follow all applicable codes in this chapter and be allowed as follows:

1. An above-ground tank may be used for the purpose of temporarily storing and dispensing Class III used to fuel the operation of equipment at an active construction site, provided that:
  - a. The above-ground storage tank has a fuel storage capacity of not more than 500 gallons;
  - b. The above-ground tank is located in compliance with all sections of this code and not less than 100 feet from adjacent residentially zoned lot lines;
  - c. The above-ground tank is portable and not permanently installed at the construction site;
  - d. The above-ground tank is not present at the construction site for greater than 365 days.
2. An above-ground tank may be used for the purpose of storing and dispensing liquids used to fuel the operation of an emergency generator system, provided that:
  - a. The above-ground tank has a fuel storage capacity of not more than 2,000 gallons;
  - b. Storage shall be located 100 feet or further from adjacent residentially zoned districts;
  - c. Screening shall be provided.

. (74) *Subsection 5903.3 Building Construction Requirements.* Add a new subsection as follows:

**5903.3.1.1 Building Construction Requirements.** All areas containing magnesium shall be equipped with automatic actuating roof vents equal to not less than five (5) percent of the ceiling area of the fire containment area.

(75) *Subsection 5906.3.1 Indoor storage.* Delete the subsection in its entirety and replace it with the following:

**5906.3.1 Indoor storage.** Indoor storage of magnesium shall be in accordance with the following:

1. Storage of raw material shall be limited to no more than 30,000 pounds of magnesium per fire containment area;
2. Storage of finished goods shall be limited to no more than 20,000 pounds of magnesium per fire containment area;
3. Storage of scrap magnesium shall be limited to no more than 20,000 pounds of magnesium per fire containment area;
4. All magnesium raw material storage, scrap storage and processing must be contained within a fire containment area with a fire resistance rating of not less than four (4) hours;
5. All magnesium storage and processing shall be in building of resistive or non-combustible construction; and
6. Storage of raw material, finished goods and scrap shall be in separate and distinct fire containment areas.

(76) *Subsection 5906.4.4 Mixed storage.* Add a new subsection as follows:

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**5906.4.4 Mixed storage.** Raw material storage areas shall contain only unprocessed (raw) materials stored on pallets. Scrap material storage areas shall contain clean scrap magnesium only, which shall be held in approved storage containers.

(77) *Subsection 5906.5.5.1 Emergency Disconnects.* Add a new subsection as follows:

**5906.5.5.1 Emergency Disconnects.** Emergency electrical disconnects for all electrical equipment, apparatus and fixtures shall be provided at the principle exit from the die casting room.

(78) *Subsection 5906.5.9 Signage.* Add a new subsection as follows:

**5906.5.9 Signage.** All entrances to any area containing magnesium must be provided with a signage to alert plant and emergency service personnel to the presence of magnesium in the area. Such signage shall consist of contracting letter not less than three (3) feet in height, with a stroke width not less than  $\frac{3}{4}$  inch, containing essentially the following message: Danger! Magnesium is stored or processed in this area. In the event of a fire "DO NOT USE WATER".

**Secs. 6-103—6-110. Reserved.**