

2018 IFC Proposed Amendment to Chapter 5

CHAPTER 5 FIRE CODE

SECTION:

5-5-1: Adoption

5-5-2: Amendment

5-5-3: Smoke Detectors in Residential Units

5-5-4: Penalty

5-5-1: ADOPTION:

A certain document entitled "International Fire Code 2018", 1st printing August 2017, published by International Code Council Inc., 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795 be and hereby is adopted as the "Fire Code for the Village of Orland Park," for the control of buildings and structures as provided; and each and all of the regulations, provisions, penalties, conditions and terms of said "ICC International Fire Code 2018" are adopted and made a part hereof, as if fully set out in this Code with the additions, insertions, deletions and changes prescribed in this Chapter.

A copy of the rules and regulations of the "ICC International Fire Code 2018" printed in book form was on file in the office of the Village Clerk for more than thirty (30) days prior to the adoption of this Code, and has been and is available for inspection. Reference in this Chapter to "this Code" is a reference to the "ICC International Fire Code 2018" and such reference includes that document and any amendments, or supplements thereto. References in this Code to "the building code" shall mean the Village's Building Code as set forth in Chapter 1 of this Title 5.

5-5-2 AMENDMENTS:

The above Code is amended and changed as follows:

Section 101.1 shall read as follows:

101.1 TITLE: These regulations shall be known as the "Fire Code of the Village of Orland Park" and hereinafter referred to as "this code".

Section 101.2 shall be amended to read in its entirety as follows:

101.2 SCOPE: The purpose and intent of this code is to prescribe minimum requirements to safeguard life, property, and public welfare from the hazard of fire and explosion as they directly relate to the Village of Orland Park Development Services Department's enforcement of the Building Code, Existing Structures Code and other Codes and Ordinances within the Village authority of regulation.

Section 101.5.1 is added to read as follows:

101.5.1 CONFLICTING CODE INFORMATION: In the event this code or any portion thereof shall be in conflict with the Village of Orland Park, Village Code, Ordinance 2989, the Village of Orland Park, Village Code, Ordinance 2989 shall apply.

Section 102.1 is revised to read as follows:

102.1 APPLICABILITY OF CONSTRUCTION AND DESIGN PROVISIONS: The construction and design provisions of this code shall apply to:

1. Structures and facilities constructed after the adoption of this code.
2. Existing structures and facilities when required by the building code listed in Title 5, Chapter 1, Section 13 of the Village Code.
3. Existing structures and facilities **when it is determined by** the Fire Code Official **that there is** a distinct or immediate hazard to life or property.

Section 103.1 shall be amended to read in its entirety as follows:

103.1 ENFORCEMENT OFFICER: **It shall be the duty and responsibility of the fire code official to administer and enforce this code. The fire code official shall delegate inspection and enforcement provisions of this code to the Fire Protection District of the applicable taxing body, pursuant to the fire code official authority.**

Section 103.2 shall be amended to read in its entirety as follows:

103.2 Fire Code Official: **The fire code official shall be the Village of Orland Park Building Division Manager and the Deputy Fire Code Official shall be the Village of Orland Park Development Services Director, or as designated by the Village Manager.**

Section 103.3 Deputies. **shall be deleted in its entirety.**

Section 103.4 Liability. **shall be deleted in its entirety.**

Section 103.4.1 Legal Defense. **shall be deleted in its entirety.**

Section 105.1.1 shall be revised to read as follows:

105.1.1 PERMITS REQUIRED Permits required. Permits required by this code shall be obtained from the Fire Code Official. Permit fees per Village Code Title 5 Chapter 2, shall be paid prior to issuance of the permit. Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the Fire Code Official.

105.1.1.1 Permit Plans: Fire protection plans shall be submitted prior to any construction or alterations of fire protection systems. Construction plans shall be approved by the Village of Orland Park. (Ord. 4490, 6-15-09)

Section 107.5 shall be added to read in its entirety as follows:

107.5 COORDINATED INSPECTION: The Fire Code Official shall coordinate to the extent possible, fire prevention inspections with the fire districts located within the Village during rough and final inspections and business license inspections for the purpose of not subjecting owners and occupants of structures to numerous visits by inspectors with multiple or conflicting orders.

Section 109 shall be deleted and replaced in its entirety with the following:

SECTION 109 BOARD OF APPEALS

The Board of Appeals shall consist of the hearing officers as created by Section 3-1-04 of the Land Development Code of the Village. The hearing officers shall hear and decide appeals of orders, decisions, or determinations made by the fire code official relative to the application and interpretation of this code. The Board shall adopt rules and procedures for conducting its business and shall render all decisions and findings to the appellant in writing. An application for appeal to the Board shall be based on a claim that the intent of this code or the rules legally adopted here under have been incorrectly interpreted, the provisions of this code do not fully apply, or an equivalent method of protection or safety is proposed. The Board shall not have authority to waive the requirements of this code.

Section 110.4 shall be amended to read as follows:

110.4 VIOLATION PENALTIES: Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, construct, alter or repair a fire protection system in violation of an approved plan or directive of the code official, or a permit or certificate issued under the provisions of this code, shall be subject to the penalty as described in this code (5-5-4) or as specified by other adopted ordinances.

Section 110.4.1 shall be amended to read as follows:

110.4.1 ABATEMENT OF VIOLATION. In addition to the imposition of the penalties herein described, the Fire Code Official is authorized to institute appropriate action to prevent unlawful construction or to restrain, correct or abate a violation; or to prevent illegal occupancy of a structure or premises; or to stop an illegal act, conduct of business or occupancy of a structure on or about any premises.

Section 112.4 shall be revised to read as follows:

112.4 STOP WORK 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 for a fine as stated in Section 5-5-4 of this code. Where conflicts exist within the Village Code regarding fines, the more specific shall apply.

Section 201.4 shall be amended to read in its entirety as follows:

201.4 TERMS NOT DEFINED: Where terms are not defined in this code and are defined in the building, mechanical, plumbing or reference standards (Chapter 45), such terms shall have the meanings ascribed to them as in those codes.

Section 202 shall include or revise the following definitions:

202.0: GENERAL DEFINITIONS: Shall be amended and added with the following revisions:

Fire District	The Orland, Mokena, Palos, Tinley or Oak Forest Fire Protection Districts.
Fire Code Official	The Code Official of the Village of Orland Park.
Fire Prevention Code Official	The Official of the Fire District designated to perform inspections, testing and maintenance operations as regulated under this code.
Fire District Official	The highest ranking officer of the Fire District on duty at any time.
Fire Prevention Bureau	The division of the Fire District which implements inspection and enforcement pursuant to this code.
The Village	Shall mean the Village of Orland Park, Illinois.

Section 307.1 shall be amended to read in its entirety as follows:

307.1 OPEN BURNING GENERAL: A person shall not cause or allow open burning except as provided for in sections 307.2 and 307.2.2; except that the burning or organic horticultural landscape waste shall be controlled by Title 6, Chapter 5 of the Village Code.

Section 307.2 shall be amended to read as follows:

307.2 OPEN BURNING-PERMIT REQUIRED: Open burning shall be allowed after obtaining a permit from the Village or the Fire Protection District. Open Burning Permits shall be granted pursuant to meeting the Fire Safety requirement of this Code and as allowed by the Fire Code Official and the Fire Prevention Code Official.

Exceptions:

1. **Open burning fires** are permitted in approved containers that are not less than 15 feet (4572 mm) from a structure, lot line, trees, landscaping or types of combustibles.
2. **Open burning fires** are allowed with a minimum required distance from a structure of at least 25 feet (7620 mm) where the pile size is 3 feet (914 mm) or less in diameter and 2 feet (610 mm) or less in height. Conditions which could cause a fire to spread within 25 feet (7620 mm) of a structure shall be eliminated prior to ignition. Open burning permits shall not violate any other provisions of the Village Code.

3. Single Family residential barbeque cooking equipment is permitted when clearance to combustibles are maintained as required by the appliance manufacturer.

Section 307.2.2 shall be **added in its entirety** to read as follows:

307.2.2 OPEN BURNING-NO PERMIT REQUIRED: Open burning shall be allowed without prior notification to the Fire Code Official for highway flares, smudge pots and similar occupational needs.

Section 307.4 shall be amended to read as follows:

307.4 LOCATION: The location of any open burning shall not be less than 1,000 feet from any structure and provisions shall be made to prevent the fire from spreading to within 1,000 feet of any structure for Dutch Elm Disease Control, silvicultural or range or wildlife management practices, prevention or control of disease or pests

Exceptions:

1. Fires in approved non-combustible containers and no larger than a 55 gallon drum are permitted when located at least 20 feet from a structure. This clearance includes any overhanging limbs.

2. When open pile sizes are less than 3 feet in diameter and 2 feet or less in height, open burning is permitted when at least 25 feet from a structure or other combustible landscape. This clearance includes any overhanging limbs.

Section 307.4.1 shall be amended to read as follows:

307.4.1 BONFIRES. A bonfire shall not be conducted within 50 feet of a structure or combustible material. Conditions which cause said fire to spread to within 50 feet of a structure or combustible material shall be eliminated prior to ignition. **Bonfires shall not exceed 4 feet in diameter and/or 16 square feet. Bonfires may only contain cut, natural wood.**

Section 307.4.2 is amended to read as follows:

307.4.2 RECREATIONAL FIRES. Recreational fires shall not be conducted within 25 feet of a structure or combustible material. Conditions which could cause a fire to spread within 25 feet of a structure or combustible material shall be eliminated prior to ignition. **Recreational fires shall be contained in a manufactured, outdoor fireplace/pit. Recreational fires may only contain cut, natural wood that will fit within the confines of the container.**

Section 309.5 is amended to read as follows:

309.5 FIRE EXTINGUISHERS. Battery charging areas shall be provided with a fire extinguisher complying with section 906 having a **4A60BC** rating within 20 feet of the battery charger.

Section 310.9 shall be added to read in its entirety as follows:

310.9 NO SMOKING ORDINANCE: The Village of Orland Park “No Smoking Ordinance - Title 6, Chapter 2-2-2-12 shall be followed as amended.

Section 502 the following definition shall be added:

Authorized Emergency Vehicle: Authorized emergency vehicles shall be restricted to those which are defined and authorized under the laws of the State of Illinois.

Section 503.1 shall be amended to read as follows:

503.1 FIRE LANES WHERE REQUIRED: In commercial buildings, an emergency access lane shall be provided of at least 12 feet in width and available for use by emergency vehicles. See Village Code Title 9, Chapter 7, Sections 5 and 10 for additional regulations. The Village Building Code Title 5, Chapter 1, shall also apply where applicable.

Section 503.7 shall be added to read in its entirety as follows and Sections 503.7.1 and 503.7.2 are added:

503.7 FIRE LANE DESIGNATION: The Fire Code Official shall require and designate public and private fire lanes as deemed necessary for effective and efficient operation of fire apparatus. Fire lanes shall have a minimum width of 18 feet. Turn arounds shall be provided at the ends of all dead end fire lanes that exceed 150 feet. All cul-de-sacs shall have a minimum diameter of 90 feet if parking is allowed. Center islands with raised curbs (as required by the Land Development Code), shall be limited and sized to permit fire truck access.

503.7.1 PAVED FIRE LANES ON PRIVATE PROPERTY: Fire lanes on private property, devoted to public use, shall be provided so that the first responding fire district pumper unit will be able to be so located that all points of the interior of the building may be reached by 150 feet of initial attack hose. EXCEPTION: Where the size or height or location of the building does not allow this regulation to be met, an interior standpipe system, equipped with fire department hose connections approved by the Fire Prevention Bureau shall be required. The standpipe system shall be connected to a public water system, and shall have a fire department connection installed per NFPA 13 as listed in Chapter 45.

503.7.2 FIRE LANE PUBLIC OR PRIVATE ACCESS FOR FIRE APPARATUS: Public or private access shall be provided for fire apparatus when the building is three (3) stories or higher. The fire lane access for an aerial ladder and/or mechanically elevated mechanism shall be provided to cover 3/4 (75%) of all exterior building walls. Fire Lanes shall also be designed using the requirements of the Village Code Title 9-7-10 and items listed below.

1) Width of Paved Fire Lanes: The minimum width of fire lanes shall be 18 feet, and an inside radius of 45 feet shall be provided to accommodate vehicles when turning. The fire lanes shall be placed 25 feet from the building to the edge of the fire lane, or 35 feet to the center of the fire lane to the building. Public parking areas used as fire lanes shall have 25 feet to the rear of parking spaces from the building, and 24 feet of open area to the rear of the parking spaces.

2) Paved Fire lane Turn-Arounds: Fire lane turn-arounds shall have an inside radius of 45 feet and shall have a driving area width of 27 feet in order to accommodate vehicles.

3) Weight Load of a Paved Fire Lane: The weight load that a fire lane shall support is a minimum of 72,000 lbs.

Section 505.1 shall be revised to read as follows:

505.1 ADDRESS NUMBERS: New and existing building address numbers shall be placed on the front of all buildings (facing the street right of way) conforming with the requirements of the Village Building Code 5-1-13 Section 512.1. Buildings with the same address shall identify all exterior exit doors with a designation number below the address number as required by the Fire Code Official. Example A, B, C, D. Also see Section 6812 of this Code.

Section 506.1 shall be revised to read as follows:

506.1 KEY BOXES WHERE REQUIRED: A keyed Knox-box shall be installed on all commercial buildings as required by the Village Building Code 5 1-13 as amended (901.8.1 & 901.9). IFC Subsections 506.1.1, 506.1.2 and 506.2 for locks and keys shall not be deleted from this code.

Section 506.1.1.1 is added to read as follows:

506.1.1.1 TYPE OF KEY BOX. The type of key box approved for use by the Village of Orland Park and the Orland Fire Protection District is the Knox Box brand key vault/rapid entry system. The size of the required Knox box will be based upon the number of keys to be secured in the box and will be at the discretion of the Fire Code Official.

Section 506.1.3 is added to read as follows:

506.1.3 LOCATION AND NUMBER: KNOX BOX LOCATION. The installation of the Knox box shall be approved by the Fire Code Official. The Knox box shall be mounted at the height of no greater than six (6) feet above the finished floor. The total number of Knox Boxes required for each building shall be determined by the Code Official.

Section 506.3 is added 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 electronic panel rooms and/or buildings having an 800 ampere service or greater.

- a.) Switch will be mounted next to main Knox Box, or at a location specified by the fire code official. If there is a door within 5 feet of the main distribution panel, a shunt switch will not be required.
- b.) Switch to be mounted at a height of no greater than six (6) feet from the finished floor.

Section 507.1 shall be revised to read as follows:

507.1 REQUIRED WATER SUPPLY: The Fire Prevention Bureau shall work in conjunction with **an** Official of the Village on the location or relocation of new or existing fire hydrants and the placement of water mains or replacement of inadequate water mains located upon public property; deemed necessary to provide an adequate fire flow and distribution pattern.

1) This section applies to newly constructed buildings and structures and to those having the area of height of the building or structure enlarged.

2) All buildings or structures shall be served by a public water supply system meeting these criteria. This system shall be under pressure with an average static pressure of not less than 35 pounds per square inch (psi). Flow tests shall be conducted in accordance with NFPA 291 listed in Chapter 44. Flow tests shall be calculated at 20 psi residual pressure. The supplies shall be available for a four hour duration.

3) No part of any building or structure shall be over 300 feet from at least one public fire hydrant.

Section 507.5.1 shall be revised to read as follows:

507.5.1 FIRE HYDRANTS WHERE REQUIRED: All new and existing oil storage, lumber yards, amusement or exhibition parks, and educational or institutional complexes and similar occupancies and uses involving high fire or life hazards, and which are located more than 150 feet from a public street or which require quantities of water beyond the capabilities of the public water distribution system shall be provided with properly placed fire hydrants. Such fire hydrants shall be capable of supplying fire flows as required by the Fire Code Official and shall be connected to a water system in accordance with accepted engineering practices. The Fire Code Official shall designate and approve the number and location of fire hydrants. The Fire Code Official may require the installation of sufficient fire hose and equipment housed in accordance with the approved rules and may require the establishment of a trained fire brigade when the hazard involved requires such measures. The Village Land Development Code 6-410 B. 6 "Fire Hydrant Spacing", shall apply for location regulations of Village Fire Hydrants.

1) Fire hydrants should be located along public streets so that no portion of the building or structure will be over 300 feet from a single fire hydrant. Where this is not possible, additional hydrants should be located on the premises accessible to motorized fire apparatus.

2) One hydrant shall be located at each intersection and intermediate hydrants where distance between intersections exceeds 400 feet.

3) Where streets or parking lots dead end, hydrants shall be placed along the access route.

4) At least one fire hydrant shall be located within 300 feet of the building.

5) Additional fire hydrants shall be provided within 500 feet of the building so that the fire flow required divided by 1000 will equal the number of hydrants available.

6) Hydrants should be so located that:

a) Hydrants will be located approximately ten (10) feet from all weather roadways. If this cannot be done, the closest part of the hydrant shall be set back at least two (2) feet from the curb line;

b) No fire hydrants may be installed on underground building water service lines; and

c) Access to fire hydrants shall be by all-weather roadways adequate in width, clearance and strength for firefighting purposes. Such routes shall be maintained accessible during all seasons of the year.

7) Fire hydrants used in conjunction with water supplies shall meet the standards of the American Water Works Association Standard No. C-502, and shall have two 2 1/2 inch and one 4 1/2 inch outlets with auxiliary gate valves on the hydrant branch line. Threads shall be American National Standard. Four and one-half (4 1/2) inch outlets shall face roadways.

8) All new and existing fire hydrants shall be color coded in accordance with NFPA 291 (Chapter 3) listed in Chapter 44. Hydrants rated at less than 20 psi shall have the rated pressure stenciled in black on the hydrant cap.

Section 509.3 is added to read as follows:

509.3 ACCESS TO FIRE EQUIPMENT: In multi-family dwellings where there is no common area, fire alarm panels and sprinkler system valves shall be located in a room accessible only to authorized 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.

Section 511 is added to read as follows:

511 EMERGENCY NOTIFICATION: It shall be the responsibility of the property owner and/or manager to provide current contact persons and telephone numbers of persons to be notified in case of an emergency involving their property and/or building to the appropriate Fire Protection District.

Section 604.5 shall be amended to read in its entirety:

604.5 EXTENSION CORDS: Extension cords and flexible cords shall not be a substitute for permanent wiring. Extension cords and flexible cords shall not be affixed to structures; extended through walls, ceilings or floors, or under doors or floor coverings, nor shall such cords be subject to environmental damage or physical impact.

Existing Model Code Subsections **604.5.1** through **604.5.4** remain applicable to this section.

Section 607.1 shall be amended to read in its entirety:

607.1 COMMERCIAL KITCHEN HOODS - GENERAL: Commercial kitchen exhaust hoods shall comply with the requirements of the ICC® International Mechanical Code and NFPA 96.

Section 607.5 is added to read as follows:

607.5 HOOD SYSTEM SUPPRESSION: For all new construction and/or installation all hood and duct extinguishing systems shall comply with the U.L. Standard # 300 and be supervised by the buildings fire alarm system if one exists. Hood systems installed in buildings without fire alarms systems are required to provide direct notification of the hood alarm to the Fire Protection District, if a building fire alarm system does not exist.

Section 901.1.1 shall be added to read:

901.1.1 BUILDING CODE CONFORMANCE: The sections and subsections of this Chapter 9 shall not conflict with any of the building code requirements shown in the Village Code 5-1-13.

Where similar specification items are regulated the Building Code shall apply as determined by the Fire Code Official.

Section 901.3.1 shall be added to read as follows:

901.3.1 FIRE SPRINKLER AND ALARM PLANS: Fire protection system plans shall be submitted to the Village of Orland Park for review and approval prior to any construction of new or change to existing equipment systems. Completion letters are required from the installer per NFPA 72 and NFPA 13 standards prior to the issuance of a Certificate of Occupancy.

Section 901.4.7 shall be added to read in its entirety as follows:

901.4.7 FIRE SPRINKLER INSTALLERS: A copy of the Fire Sprinkler Contractor's License shall be submitted with the plans. The Office of the Illinois State Fire Marshal requires any person, partnership, corporation or other business entity that installs or repairs any fire sprinkler system in Illinois to be licensed. The Fire Sprinkler Contractor Licensing Act [225 ILCS 317/1 et seq.] establishes the minimum standards for licensure of fire sprinkler installation contractors for the purpose of protecting the public health and general welfare of the citizens of Illinois.

Section 901.7 shall be modified to read in its title as follows: Section 901.7 SYSTEMS OUT OF SERVICE AND FIRE WATCH

Sections 901.7.7 and 907.7.8 shall be added:

901.7.7 FIRE WATCH: The Fire District or the Village may require a fire watch upon any premises on which dangerous or hazardous conditions exist. Conditions that may require a fire watch shall include, but are not limited to, the following circumstances:

1. Newly constructed building opened for occupancy prior to completion of the fire safety equipment and supervision.

2. Building in which the fire safety equipment and supervision is placed out of service and will not be restored within one (1) hour.
3. At special times when a building(s) occupancy is greater than the posted numbers.
4. Special programs or events where there will be space for standing room over the seating area and the exits will handle both seated and standing people.
5. Situations where the fire load is greater than normal day to day operation.

901.7.8 NUMBER OF INSPECTORS: The Fire Code Official shall determine the number of personnel required for the fire watch. The owner or occupant shall be charged for the fire watch when applicable.

Sections 903.2 and 903.3 shall be revised to read as follows:

903.2 and 903.3 AUTOMATIC FIRE SPRINKLER SYSTEMS REQUIRED: These sections shall comply with the Village Building Code Title 5-1-13. Items not referenced in the Building Code shall be reviewed by the Fire Code Official for applicability.

Section 903.2.4 is amended to read as follows:

903.2.4 GROUP F-1: An automatic sprinkler system shall be provided throughout all Group F-1 occupancies. All sprinkler systems will be electronically supervised by an approved fire alarm system. All spec warehouse buildings (Use groups S and F) with a ceiling height of 25 feet or greater shall be protected with an ESFR fire sprinkler system or a hydraulically calculated system for class IV commodities with in rack storage calculated to the greatest storage height.

Section 903.2.6 is amended to read as follows:

903.2.6 GROUP I: An automatic sprinkler system shall be installed in all Group I occupancies, INCLUDING ALL: Group homes, half-way houses, residential board and care facilities, congregate care facilities, assisted living facilities, alcohol and drug centers and social rehabilitation facilities, regardless of the number of persons occupying such buildings. All sprinkler systems will be electronically supervised by an approved fire alarm system.

Section 903.2.8 is amended to read as follows:

903.2.8 GROUP R: Group R occupancies to comply with the requirements to be found in section 5-1-13 (69) of the Village Building Code with respect to Group R occupancies.

Section 903.2.9 is amended to read as follows:

903.2.9 GROUP S-1: An automatic sprinkler system shall be installed in all Group S-1 occupancies. All sprinkler systems will be electronically supervised by an approved fire alarm system. All spec warehouse buildings (Use groups S and F) with a ceiling height of 25 feet or greater shall be protected with an ESFR fire sprinkler system or a hydraulically calculated system for class IV commodities with in rack storage calculated to the greatest storage height.

Section 903.2.9.1 is amended to read as follows:

903.2.9.1 REPAIR GARAGES: An automatic sprinkler system shall be installed in all repair garage occupancies. All sprinkler systems will be electronically supervised by an approved fire alarm system.

Section 903.2.9.2 is amended to read as follows:

903.2.9.2 BULK STORAGE OF TIRES: An automatic sprinkler system shall be installed in all Bulk Storage of Tires buildings. All sprinkler systems will be electronically supervised by an approved fire alarm system.

Section 903.2.10 is amended to read as follows:

903.2.10 GROUP S-2 PARKING GARAGES: An automatic sprinkler system shall be provided throughout all buildings classified as an enclosed and open/unenclosed parking garage.

Section 903.2.10.1 is amended to read as follows:

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. All sprinkler systems will be electronically supervised by an approved fire alarm system.

Section 903.2.11.1 is amended to read as follows:

903.2.11.1 STORIES AND BASEMENTS WITHOUT OPENINGS: Unless otherwise exempted from this code, an automatic sprinkler system shall be installed in all stories and basements without openings. All sprinkler systems will be electronically supervised by an approved fire alarm system.

Section 903.2.11.1.2 is amended to read as follows:

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. All sprinkler systems will be electronically supervised by an approved fire alarm system.

Section 903.2.11.1.3 is amended to read as follows:

903.2.11.1.3 BASEMENTS: All basements shall be equipped throughout with an approved automatic sprinkler system. All sprinkler systems will be electronically supervised by an approved fire alarm system.

Section 903.3.1.2 is amended to read as follows:

903.3.1.2 NFPA 13R SPRINKLER SYSTEMS: Automatic sprinkler systems in Group R occupancies up to and including four stories in height in buildings not exceeding 60 feet in height above grade plane shall be permitted to be installed throughout in accordance with

NFPA 13R. An addressable fire alarm system shall be installed as required by the Orland Fire Protection District.

Section 903.3.5.3 is added to read 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 and the total sprinkler demand. The total sprinkler demand shall include the sprinkler demand and the hose stream demand.

Section 903.3.5.4 is added to read as follows:

903.3.5.4 MULTI-TENANT OCCUPANCY: When an automatic fire suppression system is installed in a 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.

Section 903.3.7 is amended in its entirety and to read as follows:

903.3.7 FIRE DEPARTMENT CONNECTIONS: The location of the fire department connection shall be approved by the fire prevention code official. The fire department connection shall consist of one five inch Storz coupling on a 30 degree elbow mounted between 36 inches and 48 inches above the finished floor/ground.

Section 903.4 is amended to read as follows:

903.4 SPRINKLER SYSTEM SUPERVISION AND ALARMS: Valves, controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and water flow switches on all sprinkler systems shall be electronically supervised by an approved fire alarm system.

Section 903.4.2 is amended to read as follows:

903.4.2 ALARMS: An approved audible and visual device shall be connected to each automatic sprinkler system in accordance with sections 903.4.2.1 and 903.4.2.2. Sprinkler system 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.

Section 903.4.2.1 is added to read as follows:

903.4.2.1 EXTERIOR VISUAL DEVICE: A clear 75cd, weather-proof strobe light shall be provided above the fire department connection. The strobe light shall be supervised by the fire alarm system and shall only operate upon water flow activation. A 10 inch 120 V DC alarm bell will also be required above the fire department connection. On single family residential structures that are protected with a fire sprinkler system, an exterior horn-strobe device will be installed the side of the structure facing the roadway and a 6 inch bell will be installed on the duct work in the house both attached to a flow switch.

Section 903.4.2.2 is added to read as follows:

903.4.2.2 INTERIOR DEVICE: Interior audible and visual alarm device, supervised by a fire alarm system, shall be provided in accordance with Sections 907.5.1 through 907.5.2.3.4.

Section 903.4.2.3 is added to read as follows:

903.4.2.3 FIRE SPRINKLER INSPECTORS TEST VALVES: Fire sprinkler system inspectors test valves shall be accessible at all times and located no more than 6 ft above the finished floor. On multiple riser systems, test valves shall be marked as to which riser and area it tests.

Section 903.4.3 is amended in its entirety and to read as follows:

903.4.3 FLOOR CONTROL VALVES: Indicating control valves and water flow switches shall be provided at the point of connection to the riser on each floor in multiple story buildings.

Section 903.7 is added to read as follows:

903.7 OUTSIDE ACCESS DOOR: Provide an outside access door to the sprinkler riser valve room and fire pump room.

Section 903.8 is added to read as follows:

903.8 SPRINKLER VALVE ROOM: Provide a minimum 1 hour separation of sprinkler valve room.

Section 904.3 shall be amended to read in its entirety:

904.3 AUTOMATIC FIRE-EXTINGUISHING SYSTEM INSTALLATION: Automatic fire-extinguishing systems shall be installed in accordance with this section 904.3.1 through 904.3.5. All new kitchen hood automatic fire-extinguishing suppression systems (904.11) and alternative automatic fire-extinguishing systems (904) shall be supervised by the building fire alarm system.

905.3.1.1 BUILDING AREA: Class I standpipe systems shall be installed in all buildings where any portion of the building's interior area is more than 150 feet of travel, vertically, and horizontally, from the main entrance of the building or fire department vehicle access. Where the most remote portion of a floor or story is more than 150 feet from a hose connection, the Fire Code official may require that additional hose connections be provided in approved locations.

Section 905.12 shall be added to read as follows:

905.12 STANDPIPE SYSTEM: See Section 503.7.1 and allowed exceptions in NFPA 14. Standpipes are required per Section 905.4 of the Fire Code.

Section 906.1 shall be amended to read in its entirety as follows:

906.1 PORTABLE FIRE EXTINGUISHERS WHERE REQUIRED: All tenant spaces and buildings except Use Groups R-3 and R-4 shall have a minimum of one (1) fire extinguisher located within five (5) feet of each exit door. All other areas shall have extinguishers installed in accordance with NFPA 10 listed in Chapter 80. All locations shall be approved by the Fire Code Official. 906.1, Fire Code items 2 - 6 shall apply in addition to Table 906.1 for locations of required portable extinguishers.

Section 906.2 shall be amended to read in its entirety as follows:

906.2 GENERAL REQUIREMENTS: The minimum size fire extinguisher shall have a 4A 60BC rating. Subsection 906.2.1 shall apply to this Section 906.2

Section 906.3 shall be deleted.

Table 906.3(1) and Table 906.3(2) shall be deleted.

Section 906.4 shall be amended to read in its entirety as follows:

906.4 COOKING GREASE FIRES: All areas with a wet-chemical extinguishing system shall have a six-liter wet chemical potassium based fire extinguisher installed within the area in addition to other required fire extinguishers. Additional extinguishers may be required by the Fire Code Official. See Section 904.11.5 for requirements for portable fire extinguishers for commercial cooking equipment.

Section 907.1.4 shall be added to read in its entirety as follows:

907.1.4 FIRE ALARM PANEL LOCATION: All new fire alarm control units shall be located at the main entrance / exit. All fire alarm systems shall be of the addressable type. The Fire Code Official may make an exception and allow a non-addressable system on a very small alarm system.

Section 907.2 is amended to read as follows:

907.2 WHERE REQUIRED-NEW BUILDINGS AND STRUCTURES: An approved manual and automatic 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 Section 907.2.1 through 907.2.23 and provide occupant notification in accordance with section 907.5, unless other requirements are provided by another section of this code. Where automatic sprinkler protection is installed and connected to the building's fire alarm system, automatic heat detection by this section shall not be required. A remote full function annunciator panel may be required by the Fire Code Official if the main fire alarm panel is not located by the front entrance of the occupancy/structure.

Section 907.2.1 is amended to read as follows:

907.2.1 GROUP A: A manual/automatic fire alarm system shall be installed in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group A occupancies.

Section 907.2.2 is amended to read as follows:

907.2.2 GROUP B: A manual/automatic fire alarm system shall be installed in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group B occupancies.

Section 907.2.3 is amended to read as follows:

Group E Exceptions 1,2,3,4 to 907.2.3 are deleted.

Section 907.2.4 is amended to read as follows:

907.2.4 GROUP F: A manual/automatic fire alarm system shall be installed in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group F occupancies.

Section 907.2.7 is amended to read as follows:

907.2.7 GROUP M: A manual fire/automatic alarm system shall be installed in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group M occupancies.

Section 907.2.8.1 is amended to read as follows:

Exception 2 for 907.2.8.1 is deleted.

Section 907.2.9.1 is amended to read as follows:

907.2.9.1 MANUAL FIRE ALARM SYSTEM: A manual and automatic fire alarm system shall be installed in a method approved by the Fire Code Official in accordance with NFPA 72 in the common areas of all Group R-2 occupancies.

Section 907.2.10.1 is amended to read as follows:

Exception 2 for 907.2.10.1 is deleted.

Section 907.2.10.1.2.1 is added to read as follows:

907.2.10.1.2.1 GROUP S: A manual/automatic fire alarm system shall be installed in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group S occupancies.

Section 907.2.12 is amended to read as follows:

Exceptions 4, 5 are deleted.

Section 907.2.12.1.3 is added to read as follows:

907.2.12.1.3 DUCT SMOKE DETECTORS: Duct smoke detectors shall be connected to the building's fire alarm control panel when a fire alarm system is provided. Activation of a duct smoke detector shall initiate a supervisory/trouble signal and shut down the individual units. Duct smoke detectors shall not be used as a substitute for required open area detection. Duct smoke detectors shall be required in all air handling units 2000 CFM or greater.

Section 907.2.24 is added to read as follows:

907.2.24 WHERE REQUIRED-NEW BUILDINGS AND STRUCTURES: A fire alarm system utilizing automatic fire detection and manual fire alarm devices shall be provided

throughout all buildings not provided with an automatic fire sprinkler system complying with NFPA 13 or NFPA 13R.

Section 907.5 is amended to read as follows:

907.5 OCCUPANT NOTIFICATION SYSTEM: A fire alarm system shall annunciate at the fire alarm control unit and shall initiate occupant notification upon activation, in accordance with Sections 907.5.1 through 907.5.2.3.3. The activation of any of the following devices shall result in occupant notification: automatic fire/smoke detectors, automatic sprinkler system water flow devices, manual fire alarm boxes and automatic fire extinguishing systems when installed in buildings or structures that are provided with occupant notification.

Section 907.5.2.3.4 is added to read as follows:

907.5.2.3.4 MULTI-TENANT GROUP M: Multi-tenant Group M buildings shall “ring by zone”, activated by the fire sprinkler system flow switch, manual pull station and/or automatic fire detection for each space. A weatherproof, clear, 75cd outside strobe shall be installed over the entrance to each tenant space, or as directed by the Fire Code Official.

Sections 907.6.5 and 907.6.5.1 are amended to read in their entirety as follows:

907.6.5 EXISTING FIRE PROTECTIVE SIGNALING SYSTEM: All Fire Protective Signaling shall have an approved signaling and monitoring system.

907.6.5.1 FIRE ALARM MONITORING AND SUPERVISION:

1. All new fire detection and protective signaling systems installed within the Village of Orland Park shall be monitored by a remote supervisory station as designated by the Village of Orland Park as the Authority Having Jurisdiction in accordance with NFPA 72-13 (2013 Edition) as listed in Chapter 80.

2. All existing fire suppression, detection and protective signaling systems installed within the Village of Orland Park shall be monitored by a remote supervisory station as designated by the Village of Orland Park as the Authority Having Jurisdiction in accordance with NFPA 72-13 (2013 Edition) as listed in Chapter 80.

Section 907.8 is amended to read in its entirety as follows:

907.8 INSPECTION, TESTING AND MAINTENANCE FOR FIRE ALARM AND DETECTION SYSTEMS: The maintenance and testing schedules and procedures for all new and existing fire alarm and detection systems shall be in accordance with this section and Chapter 10 of NFPA 72.

(Remaining Subsections 907.8.1 and 907.8.2 of this Section shall be applicable)

Section 907.11 is added to read as follows:

907.11 ZONES: Each floor shall be zoned separately and a zone shall not exceed 10,000 square feet. The length of any zone shall not exceed 200 feet in any direction; a zoning indicator panel and the associated controls shall be provided in an approved location. A

separate zone by floor shall be provided for the following types of alarm initiating devices where provided:

- A. Detection devices.
- B. Sprinkler water-flow alarms.
- C. Manual fire alarm boxes.
- D. Each tenant space in multi-tenant occupancies, and
- E. Other approved type of automatic fire detection devices or suppression systems.

Section 909.22 is added to read as follows:

909.22 In garage settings where a carbon monoxide detection device controls the activation of an exhaust system this system must shut down upon the activation of the fire detection and/or suppression systems. This will have a manual override control which will be installed under direction of the Fire Code Official.

Section 909.22.1 is added to read as follows:

909.22.1 This system is subject to acceptance and testing by the Fire Prevention Code Official.

Section 912.7 shall be added to read as follows:

912.7 FIRE DEPARTMENT CONNECTIONS FROM HYDANTS: Fire hydrants shall be placed within 100 feet of all fire sprinkler systems and or standpipe connections provided on buildings unless otherwise directed by the Fire Code Official.

Section 913.4 is amended to read 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 by a fire alarm system in a method approved by the Fire Code Official in accordance with the provisions of NFPA 72.

Section 913.4.2 is added to read as follows:

913.4.2 FIRE SPRINKLER SYSTEM: Fire pump test header. Provide an outside test header on all fire pump installations. Provide a supervised OS&Y control valve on all fire pump test headers.

Section 916.12 is added to read as follows:

916.12 CARBON DIOXIDE ALARM SYSTEMS: A blue horn strobe shall be installed on the front exterior of any building that has CO2 monitoring/alarm to indicate CO2 leaks/oxygen deficiency. The monitoring/alarm systems must be connected to the building's fire alarm system.

Section 1001.1.1 shall be added to read:

1001.1.1 BUILDING CODE CONFORMANCE: The sections and subsections of this Chapter 10 shall not conflict with any of the building code requirements shown in the

Village Code 5-1-13. Where similar specification items are regulated, the Building Code shall apply as determined by the Building/Fire Code Official.

Section 1021.1 shall be amended to read:

1021.1 NUMBER OF EXITS: The number of exits required for a building, floor or space shall conform with the Village Code, Title 5, Chapter 1.

Section 1103.1 shall be revised to read as follows:

1103.1 REQUIRED CONSTRUCTION FOR EXISTING BUILDINGS: Existing buildings shall comply with the minimum requirements as regulated by the adopted Building Code as referenced in the Village Code (VC) Title 5, Chapter 1. This adopted Building Code includes deletions and revisions to the IBC Model Code language as amended.

Chapter 11 -Construction Requirements for Existing Buildings:

The following Sections shall be deleted:

Section 1103.2 shall be deleted - Emergency responder radio coverage in Existing buildings

Section 1103.3 shall be deleted - Existing Elevator Operation, Emergency fire-fighting operation

Section 1103.6 shall be deleted - Existing Standpipes

Section 1103.7.1 to 7.6 shall be deleted - Existing Fire alarm systems

Section 1103.9 shall be amended to read as follows:

1103.9 CARBON MONOXIDE ALARMS IN EXISTING I AND R USE GROUPS:

See the Carbon Monoxide Alarm Detector Act, 430 ILCS 135/1 et seq., for required carbon monoxide detectors and a building owner's responsibility for existing buildings. State laws are enforced through the Attorney General's Office

Section 2301.1 shall be revised to read as follows:

2301.1 AUTOMOTIVE AND GARAGE USES SCOPE: Automotive motor fuel-dispensing facilities, marine motor fuel-dispensing facilities, fleet vehicle motor fuel-dispensing facilities and repair garages shall be in accordance with this chapter and the International Building Code, International Fuel Gas Code and the International Mechanical Code. Such operations shall include both operations that are accessible to the public and private operations. Title 5 Chapter 1 "Building Code" Section 13 amendments shall apply wherever conflicts occur between this code and the Building Code.

Section 3101.1 shall be revised to read as follows:

SECTION 3101

TENTS AND OTHER MEMBRANE STRUCTURES GENERAL

3101.1 SCOPE: Tents and membrane structures shall comply with this chapter. The provisions of Section 3103 are applicable only to temporary membrane structures. The provisions of Section 3104 are applicable to temporary and permanent membrane structures.

Section 3101.1.1 is added to read as follows:

3101.1.1 PORTABLE FIRE EXTINGUISHERS: Portable fire extinguishers shall be a 4A60BC extinguisher and shall follow the provisions in section 906.

Section 3101.1.2 is added to read as follows:

3101.1.2. OCCUPANT LOAD SIGN: A Sign with maximum occupant load must be prominently posted at the main entrance at all times.

3101.2. VILLAGE CODE REGULATIONS: Requirements of the Land Development Code or other Village Codes amendments/restrictions shall apply to these types of structures.

Section 5003.4 shall be amended with additions to read as follows:

5003.4 MATERIALS SAFETY DATA SHEETS: All buildings, and/or tenant spaces containing hazardous materials shall provide a Knox box document storage cabinet for placement of the MSDS sheets. The box shall be large enough to accommodate all information.

Sections 5003.4.1 through 5003.4.7 shall be added to read in their entirety as follows:

5003.4.1 HAZ-MAT KNOX BOX LOCATION: The location of the "Knox Box" shall be by the main entrance unless an alternate location is approved in writing by the Fire District.

5003.4.2 HAZ-MAT KNOX BOX MOUNTING HEIGHT: The "Knox Box" shall be mounted between a minimum of 48 inches to a maximum height of six (6) feet above the immediate surrounding grade in which a person can stand on without any assistance.

5003.4.3 KNOX BOX: All buildings, structures or tenant spaces to be supervised as required by this code shall provide a "Knox Box" for placement of keys for access to the building, structure or tenant space for fire district use in case of an emergency. Tenants in a shopping center and multi-story office building may share a "Knox Box" with other tenants. However, verification in writing from the fire district is required. There shall be a maximum of seven (7) tenants per box.

5003.4.4 BUILDING ACCESS KEYS: Building or tenant space access keys shall be provided to the Fire District to be placed in the building knox box prior to occupancy.

5003.4.5 KNOX BOX LOCATION: The location of the "Knox Box" shall be by the main entrance unless an alternate location is approved in writing by the Fire District.

5003.4.6 KNOX BOX MOUNTING HEIGHT: The "Knox Box" shall be mounted between a minimum of 48 inches to a maximum height of six (6) feet above the immediate surrounding grade in which a person can stand on without any assistance.

5003.4.7 KNOX BOX SUPERVISION: All "Knox Boxes" shall be supervised in the "trouble mode" of the fire alarm system.

Section 5601.1 and 5601.2.2 shall be amended to read in its entirety as follows:

5601.1 SCOPE-FIREWORKS: Except as hereinafter provided, it shall be unlawful for any person, firm, co-partnership, or any corporation to offer for sale, display for sale, sell at retail, provide storage for, use or possess, manufacture fireworks or explode any fireworks within the Village of Orland Park, provided, however, the Board of Trustees of the Orland Fire Protection District shall have the right to issue a permit for the supervised public displays of fireworks, provided the applicant for such permit shall comply with the regulation hereinafter established for the issuance of such permit, in accordance with applicable state law and intergovernmental agreements entered into with underlying municipalities.

EXCEPTION: Nothing in this ordinance shall be construed to prohibit the use of fireworks by railroads, public utilities, public or private carriers, or other transportation agencies for signal purposes or illumination, or the sale or use of blank cartridges, for show or theater, or for the signal or ceremonial purposes in athletics or sports, or for use by veteran or military organizations.

5601.2.2 SALE AND RETAIL DISPLAY OF FIREWORKS: This subsection shall be deleted.

Section 5601.3 shall be amended to read in its entirety as follows:

5601.3 PROHIBITED EXPLOSIVES: The storage of explosives and blasting agents is prohibited.

Sections 5601.7 shall be amended to read in its entirety as follows:

5601.7 SEIZURE: The Village Police Department shall seize, take, remove or cause to be removed at the expense of the owner, all stocks of fireworks or explosives offered or exposed for display or sale, stored or held in violation of this article.

Section 5605 MANUFACTURE, ASSEMBLY AND TESTING OF EXPLOSIVES, EXPLOSIVE MATERIAL AND FIREWORKS: This entire Section shall be deleted.

Section 5608.1 shall be amended to read in its entirety as follows:

5608.1 FIREWORKS DISPLAY RULES AND REGULATIONS FOR APPROVAL:

1. The supervised public display of fireworks may be permitted under the following requirements:

A. The person in charge of a public fireworks display shall be at the site and have a copy of the permit in his possession at all times during the set-up and display.

B. Due to the hazardous nature of materials involved no fireworks should be stored on location prior to set up and show time.

C. Persons setting up and shooting the fireworks display should be experienced and professional shooters.

D. Sufficient security should be provided to keep all persons except company employees at least five hundred feet from display area during setup and firing.

2. The supplier of the fireworks should have a current State of Illinois permit number.

3. There shall be no trees or utility poles or any type of obstruction within fifty (50) feet of the firing area or range and the site shall be no less than two hundred (200) feet from railroads, highways, general public, or any other structures, nor less than six hundred (600) feet from any hospital, asylum or infirmary.

4. Wet the grass down around mortar continuously for a minimum of eight (8) hours before firing or to the satisfaction of the Fire Code Official. There shall be one mortar loader for each six (6) mortars.

5. The Fire District shall be at the site of the firing with a minimum of one (1) engine that is properly staffed.

6. Mortar holes to be drilled in a minimum three quarters (3/4) of the length of the mortar and dirt to be packed around the mortar.

7. Mortars shall be two (2) feet apart with the minimum distance of six (6) feet between mortars of different sizes.

8. Loader and shooter shall wear tight fitting non-combustible clothing and shall not have been under the influence of alcoholic beverages or drugs or controlled substances for twelve (12) hours before firing.

9. No firing shall take place if the wind is twenty (20) miles per hour or above.

10. All aerial displays shall be kept in wooden boxes with self closing covers: maximum size of thirty-six (36) inches by twenty-four (24) inches by twenty-four (24) and two (2) inches off the ground, and boxes shall be a minimum of ten (10) feet from the mortars.

Section 5608.2 shall be amended to read in its entirety as follows:

5608.2 PERMIT APPLICATION: The application for permit for supervised display of fireworks shall be made directly to the Fire District. Each application for a permit shall be made at least fifteen (15) days in advance of the date of the display and action on such application shall be taken forty-eight (48) hours after such application is received by the appropriate Fire District officials. The Village Code Title 8 (Police Department) Chapter 6 Section 10 (as amended) shall apply to Fireworks regulations.

Sections 5608.11 through 5608.11.5 FIREWORKS shall be added to read in their entirety as follows:

5608.11 INFORMATION: Each applicant shall supply the Fire District with sufficient information so that the Fire District may file with the State Fire Marshal's Office notice relative to public display of fireworks.

5608.11.1 LIMITATION: After a permit has been issued under these rules and regulations, the possession, sale, use and detonation of fireworks for such display shall be limited for that purpose only.

5608.11.2 TRANSFER: No permit granted hereunder shall be transferred to any other person, organization or location.

5608.11.3 NOT FIRED FIREWORKS: The supplier of the fireworks shall be solely responsible for the recovery of all fireworks, and aerial displays that have not fired and shall not transfer same to any unlicensed person or organization

5608.11.4 RECOVERY: Recovery or the search for un-fired displays shall start immediately, or not later than sunrise. The area of a misfire shell shall be guarded by the display company at their cost from the time of the firing until the discovery and removal of the shell.

5608.11.5 COST: The cost of recovering the shells shall be solely the responsibility of the fireworks supplier and/or dealer.

Section 5703.6.12 and its Subsections shall be added to read in their entirety as follows:

5703.6.12 FUEL DISPENSING SYSTEMS: Above ground tanks are permitted to be used to store motor fuels on premises generally not accessible to the general public when they are installed in a special enclosure constructed in accordance with NFPA 30 listed in Chapter 80, or are protected by a listed and approved tank enclosure assembly which provides fire resistance protection of not less than 2 hours from exposure to a flammable liquid pool fire provided that specific approvals is obtained from the Fire District. See vaults required for all tanks per Section 5704.2.8. Above ground tanks shall conform with Section 5704.2.9.5 when allowed inside buildings and 5704.9.6 for tanks outside of buildings.

5703.6.12.1 BARRIER PROTECTION: Physical barriers complying with Sections 5704.2.8.6, 5704.2.7.5, 5704.4.5 and 312 shall be provided to protect the area where tanks are located.

5703.6.12.2 ACCESS: Each tank and each special enclosure shall be surrounded by a clear accessible space not less than 3 feet in width to allow for maintenance and inspection. All tanks require vaults per 5704.2.8. See Section 5704.2.8.4 for intent.

5703.6.12.3 CAPACITY LIMITS: Tanks containing motor fuels shall not exceed 2,500 gallons individual, or 5,000 gallons aggregate capacity. Installations having the maximum allowable aggregate capacity shall be separated from other such installations by not less than 100 feet.

5703.6.12.4 SHUT-OFFS: Tanks shall be provided with automatic fuel shut-off devices capable of stopping the delivery of fuel into the storage tank at 90 percent tank capacity. See Sections 5704.2.7.5.8 and 5704.2.9.7.6 for "Overfill Protection".

5703.6.12.5 FUEL DELIVERY: Motor fuels shall be transferred from tanks by means of fixed pumps so designed and equipped as to allow control of the flow and to prevent leakage or accidental discharge. Dispensing devices are permitted to be installed on top of special enclosures. See Section 5705.2 for "Liquid Transfer" for container filling.

5703.6.12.6 TANK OPENINGS AND CONNECTIONS: Tank and tank enclosure openings for inspection and for piping and vent connections shall be through the top only. Approved anti-siphon devices shall be installed at each connection of piping to a tank when such tank piping extends below the level of the top of such tank.

5703.6.12.7 SEPARATION DISTANCES: Each tank and each special enclosure shall be separated from buildings, lot lines, and public ways by not less than that shown in Table 5704.4.2 and in no case less than 5 feet for Types II & III liquids.

5703.6.12.8 DIKING: Sufficient concrete diking to handle a full load of the largest tank shall be provided as noted in Section 5704.2.10 and per NFPA 30 listed in Chapter 80.

Section 5704.2.11.4 shall amend 5704.2.11.4.2 and add Sub-Section 5704.2.11.4.3 to read:

5704.2.11.4.2 UNDERGROUND TANKS DISCHARGE LINE LEAK DETECTORS: An approved discharge line lead detector shall be installed on all discharge lines from the underground storage tanks that utilize a submersible pump for pressurization of the discharge line system.

5704.2.11.4.3 LIQUID SUMP: For the purpose of monitoring the possibility of an underground leak of product from an underground storage tank, a ten inch (10") minimum diameter galvanized steel culvert sump shall be installed as close as possible to underground storage tanks used for the storage of flammable, combustible and/or hazardous liquids. The culvert sump shall extend upward from a minimum of one foot (1') below the bottom of the lowest tank in the area. The culvert shall be perforated with a reasonable number of large holes from its lowest level upward to allow any liquid in the ground to flow into the sump. The steel culvert sump shall be surrounded with Number Two (#2) Stone for a minimum of twenty-four inches (24") in diameter. The top of the culvert sump shall be housed in a metal vault enclosure with a removable cap for ease of inspection and maintenance. The location, design and installation shall be approved by the fire district.

Section 5704.2.12.3 shall be added to read in its entirety as follows:

5704.2.12.3 RETESTING: All tanks and piping shall be retested every five (5) years when less than 15 years of age, and every two (2) years thereafter. Testing shall be performed by a certified testing agency and results forwarded to the applicable Fire District.

Section 5704.2.14 shall be added to read in its entirety as follows:

5704.2.14 REMOVAL AND DISPOSAL OF TANKS: Removal and disposal of tanks shall comply with Sections 5704.2.14.1 and 5704.2.14.2 and shall require permit(s) from the Village of Orland Park.

Section 5706.6.2 shall be amended to read in its entirety as follows:

5706.6.2 TANK VEHICLE PARKING AND GARAGES: No tank vehicle shall be left unattended on any lot, street, highway, avenue, alley or any other location within the Village of Orland Park, public or private.

Delete Section 5706.6.2.1 in its entirety. (Parking of Tanks near Res. Educ. Inst & High Risk areas)

Delete Section 5706.6.2.2 in its entirety. (Parking of Tanks on Thoroughfares)

Delete Section 5706.6.2.3 in its entirety. (Parking of Tanks for Durations exceeding 1-hour)

Delete Section 5706.6.3 in its entirety. (Parking of Tanks in Garaged buildings)

Section 6109.16 shall be added to read in its entirety:

6109.16 LP-GAS ABOVE GROUND STORAGE: The above ground storage of liquefied petroleum gas requires a separate permit application for approval by The Village of Orland Park.

Delete Sections 6111.1, 6111.2 in their entirety (Parking and Garaging of LP-Tank Vehicles)

Section 6111.3 shall be added to read in its entirety as follows:

6111.3 PARKING AND GARAGING: The parking and garaging of tank vehicles used for the transportation of liquefied petroleum gases shall be in accordance with NFPA 58 listed in Chapter 45. No tank vehicle shall be left unattended on any lot, street, highway, avenue, alley or any other location within the Village of Orland Park, public or private.

Chapter 68: BASIC FIRE CONTROL MEASURES: Shall be added to read as follows:

Section 6801 SCOPE: Adoption of fire control measures and regulations. There has been adopted by the Orland Fire Protection District fire control measures and regulations as herein set forth for the purposes of controlling conditions which could impede or interfere with fire suppression forces.

Section 6802 AUTHORITY AT FIRES AND OTHER EMERGENCIES: The Fire District Official or duly authorized representatives, as may be in charge at the scene of a fire or other emergency involving the protection of life and property, is empowered to direct such operations as may be necessary to extinguish or control any suspected or reported fires, gas leaks or other hazardous conditions or situations or of taking any other action necessary in the reasonable performance of their duty.

The Village Police Department may prohibit any person, vehicle or object from approaching the scene and may remove or cause to be removed from the scene any person, vehicle or object which may impede or interfere with the operations of the fire department.

The Village Police Department may remove or cause to be removed any person, vehicle or object from hazardous areas. All persons ordered to leave a hazardous area shall do so immediately and shall not re-enter the area until authorized to do so by the Village Police Department.

Section 6803 INTERFERENCE WITH FIRE DISTRICT OPERATIONS: It shall be unlawful to interfere with, attempt to interfere with, conspire to interfere with, obstruct or restrict the mobility of or block the path of travel of any fire department emergency vehicle in any way, or to interfere with, attempt to interfere with, conspire to interfere with, obstruct or hamper any fire department operation.

Section 6804 COMPLIANCE WITH ORDERS: A person shall not willfully fail or refuse to comply with any lawful order or direction of the Fire District Official or to interfere with the compliance attempts of another individual.

Section 6805 VEHICLES CROSSING FIRE HOSE: A vehicle shall not be driven or propelled over any unprotected fire hose of the fire district when laid down on any street, alleyway, private drive or any other vehicular roadway without the consent of the fire prevention code official in command of said operation

Section 6806 DEFINITION OF AUTHORIZED EMERGENCY VEHICLE: Authorized emergency vehicles shall be restricted to those which are defined and authorized under the laws of the State of Illinois.

Section 6807 OPERATION OF VEHICLES ON APPROACH OF AUTHORIZED EMERGENCY VEHICLES: Upon the approach of any authorized emergency vehicle, giving audible and visual signal, the operator of every other vehicle shall immediately drive the same to a position as near as possible and parallel to the right-hand edge or curb of the street or roadway, clear of any intersection and shall stop and remain in such position until the authorized emergency vehicle or vehicles shall have passed, unless otherwise directed by the Village Police Department officer(s).

Section 6808 VEHICLES FOLLOWING FIRE APPARATUS: It shall be unlawful for the operator of any vehicle, other than one on official business, to follow closer than 300 feet from any fire apparatus traveling in response to a fire alarm or to drive any vehicle within the block or immediate area where fire apparatus has stopped in answer to a fire alarm.

Section 6809 UNLAWFUL BOARDING OR TAMPERING WITH FIRE DISTRICT EMERGENCY EQUIPMENT: A person shall not without proper authorization from the Fire District Official in charge of said fire district emergency equipment, cling to, attach himself to, climb upon or into, board or swing upon any fire district emergency vehicle, whether the same is in motion or at rest, or sound the siren, horn, bell or other sound-producing device thereon, or to manipulate or tamper with, or attempt to manipulate or tamper with any levers, valves, switches, starting devices, brakes, pumps, or any equipment.

Section 6810 DAMAGE, INJURY-FIRE DEPARTMENT-EQUIPMENT, PERSONNEL: It shall be unlawful for any person to damage or deface, or attempt or conspire to damage or

deface, any fire district emergency vehicle at any time or to injure, or attempt or conspire to injure, fire district personnel while performing departmental duties.

Section 6811 BLOCKING FIRE HYDRANTS AND FIRE DISTRICT CONNECTIONS: It shall be unlawful to obscure from view, damage, deface, obstruct or restrict the access to any fire hydrant or any fire district connection for the pressurization of fire suppression systems, including fire hydrants and fire department connections located on public or private streets and access lanes or on private property. All vehicles blocking fire hydrants and fire department connections shall be moved immediately.

Section 6812 BUILDING ADDRESS NUMBERS: New and existing buildings shall have approved address numbers placed in a location that shall be plainly visible from the street. The location of the address numbers shall be approved by the Fire Code Official. Address numbers shall be a minimum of 6 inches (6") high with a minimum stroke width of one-quarter (1/4) inches wide. Address numbers on glass doors, windows, or store fronts shall be white in color. Address numbers meeting the above requirements shall be affixed to the rear and all of each tenant space exterior doors in multi-tenant occupancies. (Ord. 3343, 3-6-00). Residential Address numbers are allowed to be reduced to 4 inches in height.

Chapter 80: REFERENCED STANDARDS: Shall be amended to add, change or delete the following standards.

(A) Add or Revise the Following Standards:

NFPA 13-2013 Installation of Fire Sprinklers

NFPA 14-2013 Installation of Standpipe and Hose Systems

NFPA 70-2011 National Electric Code

NFPA 72-2013 National Fire Alarm Code

NFPA 96-2011 Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations as referenced in the ICC 2012 Mechanical Code

NFPA-291-2007 Recommended Practice for Fire Flow Testing and Marking of Hydrants

(B) Delete the following sections from the NFPA 70-2011 National Electrical Code Standard as referenced in the Village Code 5-5, the following Articles of the NEC 2011 are hereby deleted:

320 Armored Cable: Type AC

330 Metal Clad Cable: Type MC

334 Nonmetallic-Sheathed Cable: Types NM, NMC, and NMS

338 Service Entrance Cable: Types SE and USE

362 Electrical Nonmetallic Tubing: Type ENT

604 Manufactured Wiring Systems

5-5-3: SMOKE DETECTORS IN RESIDENTIAL UNITS:

See Village Code 5-1-11 (Building Code) requirements for required placement of single station smoke alarms in all R (Residential) and I-1 (Assisted Residential) occupancies. This includes all sleeping rooms and every room in the path of the means of egress from the unit.

5-5-4 PENALTY:

Any person, firm, corporation or entity who violates, disobeys, omits, neglects, refuses to comply with or who resists enforcement of any of the provisions of this Chapter, shall upon conviction be fined according to the fine schedule located in Appendix B for each offense.

(Ord. 4254, 6-18-07; Amd. Ord. 4342, 3-3-08; Amd. Ord. 4807, 4-1-13; Amd. Ord. 4978, 4-6-15; Amd. Ord. 5103, 6-6-16; Amd. Ord. 5224, 10-2-17)