

ARTICLE 7

FIRE REGULATIONS

CHAPTER

- 1 Fire Prevention and Protection
- 2 Basic Fire Control Measures and Regulations

ARTICLE 7

FIRE REGULATIONS

Entire Rewrite (Ord 2005-06, 1/3/05, S24)

CHAPTER 1 FIRE PREVENTION AND PROTECTION

SECTION

- 7-1-1 Adoption of the International Fire Code and the Life Safety Code, NFPA 101
7-1-2 Modification by Amendment of Various Articles and Sections of the International Fire Code and the Life Safety Code 101

7-1-1 ADOPTION OF THE INTERNATIONAL FIRE CODE AND THE LIFE SAFETY CODE, NFPA 101

The International Fire Code and its appendices published by the International Code Council, Inc., and any future revisions or amendments and the Life Safety Code 101 published by the National Fire Protection Association, and any future revisions or amendments. These are adopted for the purpose of establishing fire prevention regulations for the protection of public health, safety and welfare. There are hereby adopted as a municipal ordinance of the City by reference as though fully set forth, except as modified by Sections 7-1-2 of this Article. When any provision of this Article is found to be in conflict with any other applicable law, ordinance or code, or when the provisions of the International Fire Code and its appendices conflict with those of the Life Safety Code 101, the provision which establishes the higher standard for the promotion of public safety shall prevail. In the event of a conflict between any provisions of the International Fire Code or the Life Safety Code 101 and any provision of the City of Park Ridge Municipal Code, the specific provisions of the Park Ridge Municipal Code shall prevail.

7-1-2 MODIFICATION BY AMENDMENT OF VARIOUS ARTICLES AND SECTIONS OF THE INTERNATIONAL FIRE CODE AND THE LIFE SAFETY CODE 101

The International Fire Code and its appendices and The Life Safety Code 101 as adopted by this Article, are amended and/or supplemented to read as follows:

- A. Title: These regulations shall be known as the Fire Code of the City of Park Ridge and the Park Ridge Fire Department hereinafter referred to as “this code”.
- B. Appendices: The appendices B through G of the International Fire Code are adopted as part of this code.

- C. Permits: The Building Official shall examine or cause to be examined all applications for building permits and amendments to permits within a reasonable time after filing. If the application or the construction documents do not conform to the requirements of all pertinent laws, the building official shall reject such application in writing, stating the reasons for the rejection. If the building official is satisfied that the proposed work or operation conforms to the requirements of this Code and all applicable laws and ordinances, the Building Official shall issue the permit as soon as practicable. All costs incurred for the review process shall be paid by the applicant. Construction documents approved by the Building Official are approved with the intent that such construction documents comply in all respects with this Code. Any omissions or errors on the construction documents do not relieve the applicant of having to comply with all applicable requirements of this Code. In addition, applicant shall have construction documents when deemed necessary by the Fire Code Official converted to a digital image in an auto cad format (.dwg) on a CD-RW medium. All costs incurred for these drawings shall be paid by the applicant.

Operational permits, as defined by the International Fire Code, are not required. However, the Fire Code Official may prohibit or regulate any activity for which the International Fire Code requires an operational permit.

- D. Board of Appeals: The appeal process in Article 15 of the Municipal Code shall be used to settle disputes pursuant to this Code.
- E. Address Numbers: The Fire Code Official may require identification to be placed on exterior doors where the purpose of the door is not clearly evident.
- F. Key Boxes--Where Required

Key boxes shall also be provided on all buildings with a fire alarm system or an automatic sprinkler system. The key box shall contain the following keys:

1. Entry
2. All mechanical rooms
3. All storage rooms
4. Any key necessary to gain access to the fire alarm control panel

Building owners shall be responsible for all costs associated with maintenance of the key box.

Exceptions:

1. No building owner may refuse to obtain a key box unless the building owner must sign a waiver absolving the City from any liability associated with gaining access to the building.
2. Use Group R - 3

- G. Trusses: All buildings (except residential) that contain wood truss construction shall have a truss construction emblem affixed to the front of the structure. The truss construction emblem shall have a bright reflective color or may be made of reflective material. The following letters shall be printed on the emblem in a conspicuous size and color:

“F” to signify a floor with wood truss construction;

“R” to signify a roof with wood truss construction;

“F/R” to signify a floor and roof with wood truss construction.

The emblem shall be a nine by twelve (9” x 12”) inch rectangle with a yellow Isosceles triangle, permanently affixed to the left of the main entrance door or front of the building at a height of eight (8) feet above the ground and shall be installed and maintained by the building owner.

- H. Yard Hydrants: Fire hydrants shall be provided around the perimeter of the building or property in no greater than 300-foot increments as directed by the Fire Code Official.
- I. Fire Protection System Permits: Before any fire alarm, detection or fire suppression system is installed, enlarged or extended, a permit shall be obtained from the Building Code Official. The Code Official, prior to the issuance of the building permit, shall review construction documents. All costs incurred from the review process shall be paid by the applicant.
- J. Automatic Sprinkler Systems--Where Required--Group A – 1
An automatic fire sprinkler system shall be provided for all Group A – 1 occupancies.
- K. Automatic Sprinkler Systems--Where Required--Group A – 2
An automatic fire sprinkler system shall be provided for all Group A – 2 occupancies.
- L. Automatic Sprinkler Systems--Where Required--Group A – 3
An automatic fire sprinkler system shall be provided for all Group A – 3 occupancies.
- M. Automatic Sprinkler Systems--Where Required--Group A – 4
An automatic fire sprinkler system shall be provided for all Group A – 4 occupancies.
- N. Automatic Sprinkler Systems--Where Required—Group -- B
An automatic fire sprinkler system shall be provided for all Group B occupancies.
- O. Automatic Sprinkler Systems--Where Required--Group E
An automatic fire sprinkler system shall be provided for all Group E occupancies.
- P. Automatic Sprinkler Systems--Where Required--Group F
An automatic fire sprinkler system shall be provided for all Group F occupancies.
- Q. Automatic Sprinkler Systems--Where Required—Group M
An automatic fire sprinkler system shall be provided for all Group M occupancies.
- R. Automatic Sprinkler Systems--Where Required--Group S
An automatic fire sprinkler system shall be provided for all Group S occupancies.
- S. Automatic Sprinkler Systems Where Required—Group U
When deemed appropriate by the fire code official, an automatic fire sprinkler system shall be provided for Group U occupancies.
- T. Automatic Sprinkler Systems--Monitoring and Alarms

Approved audio/visual devices shall be connected to every automatic sprinkler system so as to be seen and heard throughout the building. An outside audio/visual device shall be installed over the fire department connection.

Exception: Use groups R – 3 and R – 4.

- U. Automatic Sprinkler System--Floor Control Valves: Approved supervised indicating control valves with water flow switches shall be provided at the point of connection to the riser on each floor in a multistory building.
- V. Automatic Sprinkler System--Safety Factor: Provide a minimum of 10% or 5 psi minimum safety factor in the fire protection system hydraulic calculation. The system demand shall be 5-psi minimum below the seasonal water flow test supply.
- W. Automatic Sprinkler Systems--Construction Documents: Provide a copy of the hydraulic nameplate by each hydraulically calculated area on each drawing.
- X. Adoption of NFPA Standards: The following section is added to this Code: The following NFPA standards and any future revisions to it are adopted as part of this Code. The appendices of these standards are considered part of the standard and are mandatory and not discretionary. Unless otherwise provided by the Fire Code Official, the latest versions of these standards shall be used:
 - NFPA 14, Standpipes and Hose Systems
 - NFPA 20, Installation of Centrifugal Fire Pumps
 - NFPA 25, Inspection, Testing and Maintenance of Water Based Fire Protection Systems
 - NFPA 96, Installation of Equipment for Removal of Smoke and Grease-Laden Vapors for Commercial Cooking Equipment
- Y. Automatic Sprinkler System--XL Thinwall pipe: The use of XL Thinwall pipe is not permitted.
- Z. Automatic Sprinkler Systems--Riser Rooms/Fire Pump Rooms: Sprinkler riser rooms and fire pump rooms shall be separated from other areas of the building by two-hour rated assemblies. These separate rooms shall have both an exterior and interior access.

Exception: The Fire Code Official may waive these requirements if the applicant is able to provide certification from an approved source that another measure of safety at least equal to these requirements has been provided.

- AA. Automatic Sprinkler Systems Check Valves: When a building is provided with more than one sprinkler riser, each riser shall be equipped with a check valve.
- AB. Automatic Sprinkler--Systems Sprinkler Types: All business, assembly, and residential occupancies shall be equipped with residential and/or quick response sprinklers

Exception: Areas where the Fire Code Official has determined that another type of sprinkler head would perform in a manner at least equal to those otherwise required.

- AC. Standpipe Systems—Testing: In addition to the requirements set forth in NFPA 25, all dry standpipes must be hydrostatically tested annually at a minimum of 130 psi for two hours.
- AD. Fire Alarm and Detections Systems--Addressable Fire Control Panels: All fire alarm systems shall be of the addressable type. A remote indicator panel and associated controls shall be provided in an approved location. The visual zone indication shall lock in until the system is reset and shall not be canceled by the operation of an audible-alarm silencing switch.
- Exception: Zoned panels are permitted if approved by the Fire Code Official. When a zoned panel is permitted, 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 associated controls shall be provided in an approved location as determined by the Fire Code Official. The visual zone indication shall lock in until the system is reset and shall not be cancelled by the operation of an audible alarm-silencing switch. A separate zone by floor shall be provided for the following types of alarm-initiating devices where provided:
1. Smoke detectors
 2. Sprinkler water-flow devices
 3. Manual fire alarm boxes and
 4. Other approved types of automatic fire detection devices or suppressions systems.
- AE. Fire Alarm and Detections Systems--System Improvements: In the event that a fire alarm panel requires replacement or if there is an addition to the current fire alarm system, the entire system shall be upgraded to meet current codes and standards.
- AF. Fire Alarm and Detections Systems-Where Required Group-Group A: A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group A occupancies.
- AG. Fire Alarm and Detections Systems-Where Required Group-Group B: A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group B occupancies.
- AH. Fire Alarm and Detections Systems--Where Required Group E: A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group E occupancies.
- AI. Fire Alarm and Detections Systems--Where Required --Group F: A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group F occupancies.
- AJ. Fire Alarm and Detections Systems-Where Required Group-Group H: A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group H occupancies. An automatic smoke detection system shall be installed for highly toxic gases, organic peroxides and oxidizers in accordance with other sections of this code.
- AK. Fire Alarm and Detections Systems--Where Required --Group M: A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group M occupancies other than covered mall buildings complying with Section 402 of the *International Building Code*.

- AL. Fire Alarm and Detections Systems--Where Required --Group R: A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group R occupancies other than Group R – 3.
- AM. Automatic Fire Detection: An approved automatic fire detection system shall be installed in all Use Groups not provided with an automatic sprinkler system and in accordance with NFPA 72. Devices, combination of devices, appliances, and equipment shall comply with section 907.1.2. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where during normal operation products of combustion are present in sufficient quantity to activate a smoke detector.
- AN. Fire Department Connections: The fire department connection shall be located a maximum of 100 feet from a hydrant. Fire department connections shall be arranged in such a manner that the attachment to any one sprinkler connection shall serve all sprinkler systems and the attachment to any one standpipe connection will serve all standpipes within the building.
(Ord 2005-120, 12/5/05, S24), (Ord.2007-73,9/4/07)
- AO. Fire Pumps--Test Headers: An exterior test header shall be provided on all fire pump installations. An OS & Y control valve shall be provided on all fire pump test headers.
- AP. Floor Level Exit Signs: In all new construction and all remodeling projects requiring the installation of illuminated exit signs, wherever an illuminated exit sign is required, a low-level exit sign shall be installed twelve (12) inches above the floor. The low-level exit signs shall be located on the striker side of the door or in a location determined by the fire code official. Low -level exit signs will not be required in areas considered impractical by the fire code official.
(Ord 2005-120, 12/5/05, S24)
- AQ. Above Ground Storage Tanks: Flammable and combustible liquid storage tanks of any capacity above ground installed before the passage of this ordinance shall comply with this section. After the passage of this ordinance, above ground storage tanks of flammable or combustible liquids of any capacity shall not be allowed.
- AR. Defective Containers and Tanks: The site shall be restored as required by all local codes and/or the City Building Department. Where the code official determines that the removal of the tank and piping is not necessary, the tank and piping shall be abandoned in place by the following method:
1. All flammable or combustible liquids from the tank and all connecting lines shall be removed.
 2. The suction, inlet, gauge and vent lines shall be disconnected.
 3. The tank shall be completely filled with an inert solid material, and the remaining underground piping shall be capped.
 4. A record of tank size, location, date of abandonment and method utilized for placing the abandoned tank in a safe condition shall be kept by the City of Park Ridge Fire Department.
 5. The Fire Department Fire Prevention Bureau shall be notified a minimum of two (2) business days prior to any tank removal.

AS. Residential Sprinkler Code: The following section is adopted separately from the International Fire Code:

1. All new one and two family residential construction (IFC Use Group R – 3) shall be equipped with residential sprinklers in accordance with NFPA 13 D.

2. In addition to the requirements in that standard, the following local rules will apply:

a. All piping shall be hydrostatically tested at 200 psi for two hours and be witnessed by the Fire Code Official or his or her designee.

b. Two business days advance notice shall be given before scheduling this test.

c. A six-inch alarm bell will be attached to the HVAC system ducting and will activate on water flow.

d. An acceptable horn/strobe device will be affixed to the exterior of the building in a location approved by the Fire Code Official.

e. Documentation of backflow-certification must be affixed to the sprinkler riser.

f. All piping passing through cold areas of the building shall be protected against freezing in a manner approved by the Code Official. Such protection may include:

i. Placing protective enclosures around the piping and insulating around the tops and sides of the pipe

ii. Providing insulation no less than R- 38 over the sprinkler piping

iii. Running heating ducts in proximity of the sprinkler piping

All freeze protection measures shall be approved by the fire code official before the building is dry-walled.

g. Whenever possible, residential sprinkler systems shall be designed without the use of a residential sprinkler pump. The use of a residential sprinkler pump must be approved by the fire code official prior to installation.

h. Sprinklers shall be installed in attached garages. Sprinklers shall be located to protect the living spaces of the house from a fire originating in the garage. Dry horizontal sidewall sprinklers may be used to meet this requirement.

AT. Condominium Conversions: In any residential rental property undergoing a condominium conversion, if any electrical and/or any wall or ceiling opening occurs, or access is available on either side of the wall or ceiling, “updating” shall occur. “Updating” means that any required system must be either installed or modified to meet the current code regulations. In buildings with six (6) units or more, updating shall require the installation of a fire sprinkler system and the installation of smoke detectors on each level of the unit, in each bedroom and in any area outside each bedroom. The smoke detectors shall be AC powered with battery back-up. The smoke detectors shall be wired together to activate simultaneously in case of a fire. In buildings with less than six (6) units, updating shall require the installation of smoke detectors only.

(Ord 2005-120, 12/5/05, S24)

AU. Fire Alarms – Direct Connect. All fire alarms required to be installed pursuant to the Fire Code must be directly connected to the City of Park Ridge in a manner approved by the City.

(Ord 2007-74, 10/01/2007)

ARTICLE 7

FIRE REGULATIONS

Entire Rewrite (Ord 2005-06, 1/3/05, S24)

CHAPTER 2 BASIC FIRE CONTROL MEASURES AND REGULATIONS

SECTION

- 7-2-1 Authority at Fires and Other Emergencies
- 7-2-2 Interference with Fire Department Operations
- 7-2-3 Compliance with Orders
- 7-2-4 Vehicles Crossing Fire Hose Prohibited
- 7-2-5 Definition of Authorized Emergency Vehicles
- 7-2-6 Vehicles Following Apparatus
- 7-2-7 Unlawful Boarding or Tampering with Fire Department Equipment
- 7-2-8 Damage, Injury, Fire Department Equipment, Personnel
- 7-2-9 Blocking Fire Hydrants and Fire Department Connections
- 7-2-10 Hydrant Use Prohibited
- 7-2-11 Exterior Fires
- 7-2-12 Maintenance of Fire Suppression Equipment
- 7-2-13 Sale of Defective Fire Extinguishers
- 7-2-14 Sale, Discharge, and Seizure of Fireworks
- 7-2-15 Penalty for Violations

7-2-1 AUTHORITY AT FIRES AND OTHER EMERGENCIES

The Fire Official or duly authorized representative, as may be in charge at the scene of a fire or other emergency involving the protection of life an/or property, is empowered to direct any and all operations as may be necessary to extinguish or control any suspected or reported fires, gas leaks, or other hazardous conditions or situations or take any other action necessary in the reasonable performance of his or her duty. The Fire Official 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 Fire Official 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 reenter the area until authorized to do so by the Fire Official.

7-2-2 INTERFERENCE WITH FIRE DEPARTMENT 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, conspire to interfere with, obstruct or hamper any Fire Department operation.

7-2-3 COMPLIANCE WITH ORDERS

No person shall fail or refuse to comply with any lawful order or direction of the Fire Official or interfere with the compliance attempts of another individual.

7-2-4 VEHICLES CROSSING FIRE HOSE PROHIBITED

A vehicle shall not be driven or propelled over any fire hose of the Fire Department when laid down on any street, alley-way, private drive or any other vehicular roadway without the consent of the Fire Official in command of the operation.

7-2-5 DEFINITION OF AUTHORIZED EMERGENCY VEHICLES

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

7-2-6 VEHICLES FOLLOWING 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 other emergency, or to drive any vehicle within the immediate area where fire apparatus is in operation.

7-2-7 UNLAWFUL BOARDING OR TAMPERING WITH FIRE DEPARTMENT EQUIPMENT

A person shall not, without proper authorization from a Fire Official, climb upon or into, board or swing upon any Fire Department emergency vehicle, whether the same is in motion or at rest, or sound the vehicle's siren, horn, bell or other sound producing device, or manipulate or tamper with, or attempt to manipulate or tamper with any levers, valves, switches, starting devices, brakes, pumps, or any equipment or protective clothing on, or a part of any Fire Department emergency vehicle.

7-2-8 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 Department emergency vehicle at any time, or to injure, or attempt to injure or conspire to injure Fire Department personnel while performing departmental duties.

7-2-9 BLOCKING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS

It shall be unlawful to obscure from view, damage, tamper with, deface obstruct or restrict the access to any fire hydrant or Fire Department connection. No shrubs, trees or other obstructing materials shall be permitted within a five (5) foot radius of any fire hydrant or connection.

7-2-10 HYDRANT USE PROHIBITED

A person shall not use or operate any fire hydrant unless such person first secures a permit for such use from the Fire Official and/or the City Water Department.

7-2-11 EXTERIOR FIRES

It shall be unlawful for any person to burn or permit to be burned, outdoors, any materials not contained in (1) an outdoor cooking grill in good working order and used in accordance with manufacturer's instructions; or (2) any manufactured incinerator, appliance, or firebox that is in good working order and used in accordance with manufacturer's instructions. An approved outdoor incinerator, appliance or firebox shall include any such device that is UL, FM or ULC listed. Only materials intended for use in such a device may be burned in the device. This may include seasoned hardwood, synthetic fireplace logs, propane or natural gas, kerosene or charcoal. The burning of yard waste or construction debris is prohibited in all instances. All safety devices provided by the manufacturer shall be used. This shall include, but shall not be limited to, screens, spark arrestors and covers. Outdoor cooking grills may be used on balconies and patios in multifamily residential occupancies. This shall not limit the authority of individual property owners or managers to enact rules concerning these devices that are more restrictive than this Code.

Exceptions: Whenever the Fire Code Official shall find that a public purpose exists for an exterior fire, and a permit has been obtained from the proper authorities of the State of Illinois and the County of Cook, the Fire Code Official is hereby authorized to allow an exterior fire.

7-2-12 MAINTENANCE OF FIRE SUPPRESSION EQUIPMENT

No person shall obstruct, remove, tamper with or otherwise disturb any fire hydrant or fire appliance required to be installed or maintained under the provisions of this code except for the purpose of extinguishing fire, training or testing purposes, recharging, or making necessary repairs, or when permitted by the Fire Official. Whenever a fire appliance is removed as herein permitted, it shall be replaced or re-installed as soon as the purpose for which it was removed has been accomplished. Defective and non-approved fire appliances or equipment shall be replaced or repaired as directed by the Fire Official.

7-2-13 SALE OF DEFECTIVE FIRE EXTINGUISHERS

No person shall sell, trade, loan or give away any form, type or kind of fire extinguisher which is not approved by the Fire Official, or which is not in proper working order, or the contents of which do not meet the requirements of the Fire Official. The requirements of this section shall not apply to the sale, trade or exchange of obsolete or damaged equipment for junk when the units are permanently disfigured or marked with a permanent sign identifying the unit as junk.

7-2-14 POSSESSION, SALE, DISCHARGE, AND SEIZURE OF FIREWORKS

It is unlawful for any person to possess, manufacture, store, offer or expose for sale, sell or discharge any fireworks, except for a competent display operator who is licensed by the State of Illinois and bonded and who has received prior approval from the Park Ridge Fire Department. The use of fireworks or other pyrotechnics will not be permitted inside any building. Anyone found to be in violation of this section shall relinquish all illegal fireworks to the police department who shall then destroy them. Fireworks include any combustible or explosive composition prepared for the purpose of producing a visible or audible effect by combustion, explosion or deflagration or detonation.

7-2-15 PENALTY FOR VIOLATIONS

Any of the provisions of this Article 7, or any violations or failure to comply with any order made thereunder, or any violation of any statement of specifications or plans submitted and approved thereunder, shall severally for each and every such violation and noncompliance respectively, be punishable by a fine of not less than one hundred (\$100.00) dollars nor more than five hundred (\$500.00) dollars. The imposition of one penalty for any violation shall not excuse the violation or permit it to continue, and all such persons shall be required to correct or remedy such violations or defects within a reasonable time; and when not otherwise specified, a separate offense shall be deemed committed for each day that prohibited conditions are maintained. The application of the above penalty shall not be held to prevent the enforced removal of prohibited conditions.