



MANAGER'S MEMO ITEM

ITEM: Adoption of ICC 2000 International Fire Code
WORKSHOP DATE: March 22, 2005
PREPARED BY: Phil Ruscetti, Fire Chief
BID AMOUNT: _____ **ACCOUNT:** _____
BUDGET AMOUNT: _____

PURPOSE: Adoption of Fire Prevention Code to work with updated building code

BACKGROUND:

The Fire Department first approached Council on October 18, 2004 regarding the evolution of our fire code from the current one we use, 1996 BOCA (Building Officials and Code Administrators) to the 2000 ICC (International Code Council). At that time the Council requested more information on the fire code, as well as the building code which was submitted by Code Enforcement Department. The major concern at that time was changes in the sprinkler requirements. Although sprinklers are addressed in the building code and not the fire code, the Fire Department set out to clearly define the changes and develop a program to educate all interested parties.

The Fire Department worked closely with the Code Enforcement Department to try to educate the community in a number of ways. A side by side comparison was done for both fire and building codes. A PowerPoint presentation was developed and placed on the village's web-site. The Directors of both Fire and Code Enforcement Departments attended a public discussion on November 30, 2004 which members of the business community and the Public Safety Committee were in attendance. Chief Ruscetti and Deputy Fire Chief Tutko attended a meeting of the Chamber of Commerce on December 7, 2004. Chief Ruscetti attended another meeting with the Chamber on February 10, 2005. Later that same day he met with the Downtown Management Corporation. After listening to the facts, both organizations decided to support the new codes.

The Fire Department would like to request at this time that the codes be upgraded for all the reasons stated in the Council worksheet of October 18, 2004, the documents previously presented, and the all of the presentations made by the Fire Department to Council, the Public Safety Committee, and the various community organizations.

ATTACHMENTS:

AN ORDINANCE ADOPTING THE 2000 ICC INTERNATIONAL FIRE CODE

(See previously distributed supportive information made available on the web-site and to the Public Safety Committee.)

STAFF RECOMMENDATION:

Adoption of ICC 2000 International Fire Code in its entirety with amendments, additions and deletions as indicated.

REQUESTED COURSE OF ACTION:

Place this item on the April 5, 2005 Active Agenda.

ORDINANCE NO. _____

**AN ORDINANCE ADOPTING THE
2000 ICC INTERNATIONAL FIRE CODE**

BE IT ORDAINED by the Village Council of the Village of Downers Grove in DuPage County, Illinois, as follows: (Additions are indicated by **shading**/underline; deletions by ~~strikeout~~):

Section 1. That Section 13.35. is hereby amended to read as follows:

13.35. Open burning prohibited; exceptions.

It shall be unlawful to burn or cause the burning at any location within the Village of any paper, cardboard, leaves, twigs, branches, wood, grass, grass clippings or other refuse from farming or gardening, or other combustible materials of any nature whatsoever, except as follows:

(a) Burning any combustible materials wholly within a building in a fireplace or other equipment or facility designed and constructed for such purpose; provided, that any refuse-burning incinerator installed in any residence building shall comply with the rules and regulations of the state air pollution control board as the same may from time to time be in effect;*

(b) Burning charcoal briquettes, natural gas, propane, approved wood, or commercially prepared seasoned wood chips in conjunction with any of the foregoing for cooking purposes, provided, however, in multi-family buildings which are not protected by an automatic sprinkler system charcoal burners and other open flame cooking devices including but not limited to liquefied petroleum gas burners shall not be operated on combustible or non-combustible balconies or within 10 feet of combustible construction. In multi-family buildings protected by an automatic sprinkler system charcoal burners and other open flame cooking devices including but not limited to liquefied petroleum gas burners may only be operated on non-combustible balconies. Liquefied petroleum gas fryers shall not be located within 50 feet of combustible construction.

(c) Burning combustible materials in a high temperature incinerator providing complete combustion and complying with the rules and regulations of the state air pollution control board as the same may from time to time be in effect;

(d) Burning approved wood, as defined in paragraph (g), in an outdoor bonfire at a gathering conducted by religious, educational or other not-for-profit organization; provided, that a permit therefor is previously issued by the Fire Prevention Bureau and that such bonfire is attended by adult supervision and adequate safety equipment as approved by the Fire Prevention Bureau; and

(e) Burning any combustible material other than those listed in the first paragraph herein for recognized silvicultural or range or wildlife management practices or prevention or control of disease or pests; provided, (1) that the Fire Prevention Bureau shall find that the burning thereof will not constitute a danger to the health, safety and welfare of the citizens and residents of the Village or of other communities surrounding the Village, or constitute a danger of air pollution in any other respect, (2) that the Fire Prevention Bureau shall issue a permit therefor, and (3) that any such burning shall be attended by adequate personnel and safety equipment as approved by the Fire Prevention Bureau.

(f) Burning approved wood in an approved container for recreational campfires, as defined in paragraph (g) in a safe and controlled manner. Provided that;

(1) Such fire shall be under the control of and attended at all times by a person 18 years of age or older.

(2) A portable fire extinguisher having a minimum rating of 4A or other approved extinguishing agent such as sand, dirt or water in sufficient quantity shall be available for immediate use.

(3) Such fire shall at all times be safely managed and shall not be permitted to create

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excessive flames, flying cinders or smoke.

(4) Such fire shall be located in an area separated from any structure by not less than fifteen (15) feet.

(5) Such fire shall not be used in such a manner as to emit offensive or objectional smoke or odors or when other circumstances make such fires hazardous.

(6) At no time shall such fire be utilized for waste disposal purposes.

(g) For purposes of this Section the following definitions apply:

Approved Container. A commercially manufactured device specifically designed, intended, advertised, and utilized for the purpose of recreational campfires, such as chimneas and outdoor fireplaces. Such container must be located above ground and in no event shall be built into the ground or located below grade.

Approved Wood. Seasoned dry firewood of dimensions appropriate to safely fit within the container. In particular, but without limitations, approved wood shall not include any green or fresh vegetation materials; nor shall it include any leaves, grass, bushes, roots or other similar materials, nor shall it include any construction materials, such as treated woods, plywood or pressure-treated wood, or any other materials which produce excessive smoke, cinders or other emissions characteristic of non-seasoned wood.

Bonfire. A safely conducted and controlled outdoor fire utilized for ceremonial purposes.

Recreational Campfire. A safely conducted and controlled outdoor fire utilized for comfort or relaxation. (Ord. No. 1509, § 1; Ord. No. 2434, § 9; Ord. No. 2857, § 9.)

*See State of Illinois Air Pollution Control Requirements Technical Release No. 140-2, dated October, 1969, and subsequent releases.

Section 2. That Section 17.43. is hereby amended to read as follows:

17.43. ICC International Fire Code 2000--Adoption.

The ~~Building Officials and the Code Administrators National Fire Prevention Code, as promulgated by Building Officials and Code Administrators International, Inc., being particularly the 1996 edition~~ International Code Council International Fire Code, as promulgated by the International Code Council ("ICC"), being particularly the 2000 edition thereof, is hereby adopted for the purpose of establishing rules and regulations governing conditions hazardous to life and property from fire or explosion. The same is adopted in its entirety, save and except such portions as are hereinafter deleted, modified or amended, and is, together with such amendments, incorporated as fully as if set out at length herein. Said Code, as modified and amended, may be referred to for all purposes as the "Downers Grove Fire Prevention Code" or the "Fire Prevention Code". One copy of said Code, including such amendments to it as shall hereinafter be enacted, shall be filed in the office of the Village Clerk, and additional copies shall be made available by the bureau of fire prevention. (Ord. No. 2857, § 8; Ord. No. 3185, § 2.)

Section 3. That Section 17.44. is hereby amended to read as follows:

17.44. Same--Definitions.

For the purposes of the Fire Prevention Code, the following words and phrases shall have the meanings respectively ascribed to them by this section:

Code official. The person granted the authority to enforce the fire prevention and safety regulations of the Village as set forth in Section ~~F 105.0103.2~~ of the ~~BOCA National Fire Prevention~~ ICC International Fire Code, or his or her designee.

Jurisdiction. The Village of Downers Grove.

Legal representative or legal officer. The Village Attorney for the Village of Downers Grove. (Ord. No. 2857, § 8.)

Section 4. That Section 17.45. is hereby amended to read as follows:

17.45. Same--Amendments.

The deletions from and modifications and amendments to the Fire Prevention Code are as follows:

~~(a) Section F 107.2.3 and Table F 107.2.3 are deleted in their entirety.~~

(e1) Section ~~F 113.0~~**108.1** is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

~~F 113.0~~**108.1 Appeal procedures.** Any person aggrieved by any decision or interpretation of the fire official made under the provisions of this Code may take an appeal to the Building Board of Appeals in accordance with the procedures prescribed in Section 7-9 of the Downers Grove Municipal Code herein.

~~(b2) Section F 112.3~~**109.3** is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

~~F 112.3 Penalty for violations~~**109.3 Violation penalties.** Any person, firm or corporation violating any of the provisions of the code or failing to comply with any order issued pursuant to any section thereof shall be guilty of a petty offense, and upon conviction thereof shall be punished as provided in Section 1-15 of the Downers Grove Municipal Code. Each day that a violation continues, after a service of notice as provided for in this Code, shall be deemed a separate offense.

~~(3) Section 307.1 is amended as follows:~~

~~(h) Section F 403.4~~**307.1** is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

~~F 403.4~~**307.1 General.** Open burning shall be allowed only as permitted in Section 13-35 of the Downers Grove Municipal Code.

~~F 403.3 Allowable burning.~~ Open burning shall be allowed without prior notification to the code official for recreational campfires and highway safety flares only.

~~(4) Section 307.2 through 307.5.1 are deleted in their entirety.~~

~~(f) Section F 501.2 is hereby amended by deleting the words "building code official" and substituting in lieu thereof the words "code official."~~

~~(j) Section F 501.2.1 is amended by adding the following language at the conclusion thereof:~~

~~_____ "and the Village Alarm Code in Chapter 17, Article VI of the Downers Grove Municipal Code."~~

~~(e5) Sections F 311.1 and F 311.2 are~~**503 is** amended by ~~deleting the same in their entirety and by substituting in lieu thereof~~**adding** the following:

~~F 311.1~~**503.1.4 Fire lanes on private property used by the public.**

a. For private property used by the public such as schools, hospitals, churches, shopping centers, apartment complexes, office complexes, theaters, bowling alleys and similar facilities, fire lanes shall be established and designated in the locations deemed necessary by the code official. The owner or occupant of the property shall execute an agreement with the Village allowing the Village to enforce the fire lane restrictions by issuing parking tickets for vehicles illegally parked in fire lanes designated under this section. The Village Manager is authorized on behalf of the Village Council to execute agreements with property owners, lessees or managers for the enforcement of fire lane restrictions on private property. Such agreement shall be signed prior to issuance of any applicable building permits for the property.

b. Fire lanes may be established and designated on property as aforesaid where the parking of motor vehicles or other obstructions may interfere with the ingress and egress of Fire Department vehicles for the protection of persons and property.

~~_____ c. Fire lanes designated for newly developed areas of public use shall meet the following requirements:~~

~~_____ (1) A fire lane shall be a thoroughfare a minimum of 18 feet wide;~~

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~~_____ (2) A fire lane shall be accessible from a public street or a public way;~~

~~_____ (3) A fire lane shall be located a minimum of 10 feet from a building, as measured from the outer wall of such building;~~

~~_____ (4) A fire lane shall be located so that a minimum 13 feet 6 inches of unobstructed height over the pavement is preserved; or such fire lanes shall meet such other requirements as the fire official may determine in his discretion to be substantially equivalent to the above requirements and sufficient for the protection of the public safety and welfare.~~

(6) Section 503.3 is amended by adding the following to the end of the paragraph:

F 311.2 Signage and obstructions.

a.—Fire lanes designated pursuant to this section shall be posted by the owner of the property with signs reading substantially as follows: "No Parking Fire Lane."

~~_____ b. Fire lanes designated pursuant to this section shall be kept accessible to the Fire Department. Parking of motor vehicles or otherwise obstructing such fire lanes shall be prohibited at all times.~~

(d7) Section F 303.0703 is amended by adding the following section:

F 303.1.1703.5 Marking of Assemblies. Where fire rated assemblies are installed, they shall be marked at a minimum spacing of 20 feet with appropriate labeling as approved by the authority having jurisdiction. Markings shall include the hour rating of the assembly present. Areas where penetrations in these assemblies are made shall have a label adjacent to the opening protective installed. Labels may be placed above drop ceilings and under carpeting as necessary. Labels shall be of contrasting color and lettering shall be of at least 1/2" in size, legible from the floor level where installed.

(m8) Section F 501.0901.1 is amended by adding the following sentence:

All fire protection systems shall be designed and installed in accordance with the requirements of this Code and the Village Alarm Code in Chapter 17, Article VI of the Downers Grove Municipal Code.

(9) Section 901.4 is amended by adding the following at the conclusion thereof:

Fire detection and alarm systems shall be installed by an approved UL listed contractor.

(10) (s) Section F 504.3901.4.1 is amended by deleting the exception therein in its entirety and by adding the following language at the end of the first sentence of this section: "and shall continue to be periodically tested pursuant to Chapter 17, Article VI of the Downers Grove Municipal Code. Before any re-occupancy, a test of the system shall be witnessed by the code official."

(11) Section 901 is amended by adding the following section:

F 501.7901.9 Resetting fire alarm systems. Upon activation of a fire alarm system, the system shall not be reset (restored to a secured or clear condition) by any person until Fire Department personnel are on the scene and direct the system to be reset.

(12) Section 901 is amended by adding the following section:

F 501.8901.10 Silencing fire alarm systems. Upon activation of a fire alarm system, the system shall not be silenced (alarm devices shut off) by any person until Fire Department personnel are on the scene and direct the system to be silenced.

(n13) Section F 502.1902.1 is amended by adding the following definition:

SIGNIFICANT REMODELING. When the cost of the remodeling or reconstruction exceeds thirty five (35%) of the reconstruction costs of the building or structure exclusive of land and furnishings. Reconstruction costs shall be determined by the Code Official based upon the latest B.O.C.A. Building

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Construction Statistics report. Provided, the applicant, at the applicant's expense, may submit a written report prepared by a licensed architect or certified appraiser setting forth an opinion of the reconstruction costs. In such event, the Code Official shall consider such report, in addition to the B.O.C.A. Building Construction Statistics report in arriving at a determination of the reconstruction costs.

(14) Section 903.1 is amended by adding the following language at the conclusion thereof:

~~F 503.8~~ 903.1 Chapter ~~349~~ of the ~~1996 BOCA Building~~ 2000 International Building Code shall not take precedence over any fire protection or life safety system requirements of this ordinance. Any existing building or structure which exceeds the maximum area or height limits of the Downers Grove Building Code, Section ~~904.1903~~, shall be equipped with an electrically supervised automatic fire suppression sprinkler system and fire protective signaling system throughout the building in accordance with the provisions of Chapter 17, Article VI of the Downers Grove Municipal Code and the Building Code if:

(~~1a~~) The building or structure undergoes any significant remodeling, addition of usable floor space, or change of actual use which increases the hazard level in the building in any manner. Any existing building or structure not exceeding the maximum area limits of Section ~~904.1903~~ that undergoes an addition of usable floor space, the addition area shall be added to the existing building area so as to determine the maximum area limits for the installation of a complete sprinkler system in the existing building or structure and the addition thereof; or

(~~2b~~) The building or structure undergoes a change to a more restrictive use.

Each fire protective signaling system shall be equipped with audio/visual fire alarm warning devices located so as to be seen, and heard effectively above all other sounds, by all occupants in every occupiable space within the building. The sound level of alarm devices shall be at least 15 dBA above the ambient sound level or 5 dBA above the maximum sound level having a duration of at least sixty seconds, whichever is greater, such levels to be measured five feet above the floor level in the occupiable area.

(15) Section 903.3 is amended by adding the following section:

903.3.6.1 High rise structure connections. High rise structures shall carry a five inch stortz to two - 2 1/2 inch siamese adapters as part of the ~~standard tool kit~~ high rise equipment box required under Section ~~403.7911.1~~ of the ~~BOCA International Building Code~~.

Exception: A fire department connection having the standard internal threaded swivel fittings of 2 1/2 inches NST may be substituted for the five inch stortz connection with the approval of the authority having jurisdiction where system pressures may exceed hose test pressure or water supply could require an extensive hose lay to the structure.

~~(x16)~~ Section ~~F 518.0903.3.7~~ is amended by adding the following ~~section~~ language at the conclusion thereof:

~~Section F 518.5 Fire Department Connections.~~ The fire department connections shall be five inch stortz type connectors compatible with the hose couplings currently used by the local fire department and connected to the riser by means of a five inch or larger piping system.

(17) Section 903 is amended by adding the following section:

~~F 501.9903.7~~ **Primary System Flow Switches.** Where all components of a sprinkler system are individually controlled and send independent zoned alarms. ~~Any~~ main flow switches, pump running and other associated primary water flow indicators shall be connected to a supervisory zone. The primary flow indicator will be tied to the external (24 VDC) device which will be non-silenceable as required by NFPA 72 for indication of water flow.

Exception: All devices will be connected in accordance with the requirements as indicated, modification and application of this Code section is subject to the authority having jurisdiction.

(18) Section 903 is amended by adding the following section:

F-503.903.8 Dry sprinkler system. All dry pipe systems shall have a dryer on the air compressor to minimize moisture within the system piping.

(e19) Section F-503.3905.3.1 is amended by deleting the same in its entirety and by substituting in lieu thereof the following adding the following after the word "buildings":

"three or more stories in height" F-503.3 Fire standpipes. All buildings three or more stories in height and all buildings in which the floor level of the lowest story is located more than thirty feet below the highest level of Fire Department vehicle access shall have standpipe systems installed throughout in accordance with the Downers Grove Building Code. The standpipes shall have an approved Fire Department connection with hose connections at each floor level.

(y20) Section F-519.2906.1(1) is amended by deleting Section the first sentence and replacing it with the following:

519.2(1) therein in its entirety and substituting in lieu thereof the following: "1. In all buildings of Use Groups A-1, A-2, A-3, A-4, A-5, B, E, F-1, F-2, H-1, H-2, H-3, H-4, I-1, I-2, I-3, M, R-1, R-2, R-3 if containing a child care facility, S-1, S-2 and U."

(21) Section 906.1(2) is amended by adding the following to the end of Section 519-2(2)906.1(2):

2...A an extinguisher of a type appropriate to the hazard present (Class K) shall be installed. Wet chemical extinguishers are acceptable and desirable where a fryer application is present.

(p22) Section F-503.4.2907 is amended by deleting the same in its entirety and by substituting in lieu thereof adding the following:

F-503.4.2907.1.3 Power source. The power source for smoke detectors shall be an AC primary source with a battery backup power source. Exception: Smoke detectors powered by DC power from a fire alarm control panel and such panel being (primary) powered by AC power are acceptable if the system is connected to the Village's fire alarm receiving equipment in accordance with the provisions of Chapter 17, Article VI, of the Downers Grove Municipal Code.

(q) Section F-503.5 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

F-503.5907.1.4 Fire protective signaling system. The following shall be equipped with an electrically supervised fire protective signaling system connected to the Village's fire alarm receiving equipment in accordance with the provisions of Chapter 17, Article VI of the Downers Grove Municipal Code:

- (1a) All buildings or structures equipped with a fire suppression system, fire sprinkler system or fire detection system;
- (2b) All buildings of Use Groups A-4, E, I-1, I-2, I-3; and
- (3c) Any other building required by any code or ordinance to be equipped with a fire alarm, fire detection or fire suppression system.

Each fire protective signaling system shall be equipped with audio/visual fire alarm warning devices located so as to be seen, and heard effectively above all other sounds, by all occupants in every occupiable space within the building. The sound level of alarm devices shall be at least 15 dBA above the ambient sound level or 5 dBA above the maximum sound level having a duration of at least sixty seconds, whichever is greater, such levels to be measured five feet above the floor level in the occupiable area.

907.1.5 General Requirements for Alarm and Fire Detection Systems in the Village.

F-503.7 Fire detection system (a) All buildings or structures of Use Groups A-4, E, I-1, I-2, I-3 and R-1, shall be protected throughout all spaces by an approved supervised fire detection and fire

protective signaling system connected to the Village's fire alarm receiving equipment in accordance with the provisions of Chapter 17, Article VI of the Downers Grove Municipal Code, unless such building or structure is fully protected by an approved supervised fire sprinkler system. ~~Each fire protective signalling system shall be equipped with audio/visual fire alarm warning devices located so as to be seen, and heard effectively above all other sounds, by all occupants in every occupiable space within the building. The sound level of the alarm devices shall be at least 15 dBA above the ambient sound level or 5 dBA above the maximum sound level having a duration of at least sixty seconds, whichever is greater, such levels to be measured five feet above the floor level in the occupiable area.~~

~~F-503.7.1 Fire detection system: (b)~~ All buildings or structures of Use Groups A-2, A-3, B, F, H, M, R-2, S-1, and S2, which are located within the concentrated business district (as defined in the Comprehensive Zoning Ordinance) and are required to have a certain degree of separation between floors, paths of exit access, occupancy or uses, shall be permitted to substitute a complete fire detection and fire protective signaling system installed throughout the building for the required degree of separation if in the opinion of the code official such separation is impractical. The fire detection and fire protective signaling system shall be connected to the Village's fire alarm receiving equipment in accordance with the provisions of Chapter 17, Article VI of the Downers Grove Municipal Code and the Building Code. ~~Each fire protective signaling system shall be equipped with audio/visual fire alarm warning devices located so as to be seen, and heard effectively above all other sounds, by all occupants in every occupiable space within the building. The sound level of alarm devices shall be at least 15 dBA above the ambient sound level or 5 dBA above the maximum sound level having a duration of at least sixty seconds, whichever is greater, such levels to be measured five feet above the floor level in the occupiable area.~~

F-503.7.2 Fire detection system. (c) All buildings or structures containing a residential use and any other occupancy that is not a residential use shall have a complete fire detection and fire protective signaling system installed throughout the building. The fire detection and fire protective signaling system shall be connected to the Village's fire alarm receiving equipment in accordance with the provisions of Chapter 17, Article VI of the Downers Grove Municipal Code.

(d) Each fire protective signaling system shall be equipped with audio/visual fire alarm warning devices located so as to be seen, and heard effectively above all other sounds, by all occupants in every occupiable space within the building. The sound level of alarm devices shall be at least 15 dBA above the ambient sound level or 5 dBA above the maximum sound level having a duration of at least sixty seconds, whichever is greater, such levels to be measured five feet above the floor level in the occupiable area.

(23) Section 907.2 is amended by adding the following to the end of paragraph two:

All fire alarm systems shall be UL certified upon acceptance by Downers Grove. Fire Department UL certification of the fire alarm system shall be maintained for the life of the structure.

(24) Section 907.2.1 is amended by deleting the first sentence and inserting: "A manual fire alarm system and automatic fire detection system shall be installed in accordance with NFPA 72 in group A occupancies"

(25) Section 907.2.1 is further amended by deleting the exception.

(26) Section 907.2.2 is amended by deleting the same in its entirety, including the exception, and adding the following:

907.2.2 Group B. "A manual fire alarm system and automatic fire detection system shall be installed in accordance with NFPA 72 in group B occupancies."

(27) Section 907.2.3 is amended by deleting the same in its entirety, including the exception and adding the following:

907.2.3 Group E. A manual fire alarm system and automatic fire detection system shall be

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installed in accordance with NFPA 72 in group E occupancies. When automatic sprinkler systems or smoke detectors are installed, such system or detectors shall be connected to the building fire alarm system.

(28) Section 907.2.4 is amended by deleting the same in its entirety, including the exception and adding the following:

907.2.4 Group F. “A manual fire alarm system and automatic fire detection system shall be installed in accordance with NFPA 72 in group F occupancies.

(29) Section 907.2.5 is amended by deleting first sentence and inserting; “ A manual fire alarm system and automatic fire detection system shall be installed in accordance with NFPA 72 in group H occupancies.

(30) Section 907.2.6 is amended by deleting the exception.

(31) Section 907.2.6.1 is amended by deleting the exceptions.

(32) Section 907.2.6.2.2 is amended by deleting the first sentence.

(33) Section 907.2.6.2.3 is amended by deleting exceptions 2 and 3.

(34) Section 907.2.7 is amended by deleting the same in its entirety including the exceptions and adding the following:

907.2.7 Group M. A manual fire alarm system and automatic fire detection system shall be installed in accordance with NFPA 72 in group M occupancies.

(35) Section 907.2.7.1 is deleted in its entirety.

(36) Section 907.2.9 amended by deleting the same in its entirety, including the exceptions and adding the following:

907.2.9 Group R-2. A manual fire alarm system and automatic fire detection system shall be installed in accordance with NFPA 72 in group R-2 occupancies and deleting the exceptions.

(37) Section 907.2.12 is amended by deleting the number "75 feet (22 860 mm)" and inserting the following "40 feet".

(38) Section 907.2.12.3 is amended by deleting the exception.

(39) Section 907.2.12.4 is hereby added as follows:

907.2.12.4 High Rise. In all buildings defined as high-rise, suitable fire department radio communications in addition to hard-wired systems shall be determined prior to construction. Suitable repeaters or antenna systems shall be approved by the fire department.

(40) Section 907.2.18.1(1) is amended by adding the words; "fire alarm and sprinkler room" after the word "machine".

(41) Section 907.2.19 is amended by adding the words; “and automatic fire detection system” after the words "manual fire alarm system".

(42) Section ~~F 503.0~~907.3. is hereby amended by adding the following sections as follows:

Section 907.3.1.1 is amended by deleting the exceptions.

Section 907.3.1.2 is amended by deleting the exception.

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~~Section 907.3.1.6 is amended by deleting the words; "more than three stories or"~~

~~Section 907.3.1.8 is amended by deleting the words; "with more than three stories or with more than 16 dwelling units"~~

~~Section 907.3.1.8 is amended by deleting exception number 1.~~

~~Section 907.3.1.9 is amended by deleting the exceptions.~~

~~(43) Section 907.4.1 is amended by deleting the exception.~~

~~(44) Section 907.9.2 is amended by deleting the number "75 feet (22 860 mm)" and and inserting in lieu thereof: "40 feet".~~

~~(45) Section 907.15 is amended by adding the following section:~~

~~**907.15.1 Connection to Village.** All fire alarm systems shall be supervised by connection to the Village fire alarm receiving panel in the manner specified by the Municipal Code and shall transmit alarm, trouble, and supervisory signals.~~

~~In lieu of connecting to the Village's alarm receiving panels as set forth above, any property within the municipal limits of Downers Grove which is under the jurisdiction of a fire protection district organized pursuant to state law shall instead connect to the alarm receiving panels of the fire protection district. Such alternative connection shall be according to the fire protection district's rules and regulations for connection.~~

~~(46) Section ~~F 513.1~~907.20 is amended by adding immediately at the conclusion thereof the following: "and as specified in the Alarm Code in Chapter 17, Article VI of the Downers Grove Municipal Code.~~

~~(47) Section ~~F 513.2~~907.20.2 is amended by deleting the same in its entirety and substituting in lieu thereof the following:~~

~~**F 513.2**907.20.2 Testing. Complete and satisfactory tests shall be performed on all devices in accordance with Chapter 17, Article VI of the Downers Grove Municipal Code.~~

~~(v) Section F 513.2.1 is deleted in its entirety.~~

~~(48) Section ~~F 514.1~~907.20.5 is amended by adding immediately at the conclusion thereof the following: "and as specified in the Alarm Code in Chapter 17, Article VI of the Downers Grove Municipal Code."~~

~~(49) Section ~~F 501.4~~909.3 is amended by adding the following language at the conclusion thereof:~~

~~"or as specified in the Village Alarm Code in Section 17, Article VI, of the Downers Grove Municipal Code, whichever is more often."~~

~~(50) Section 912 is amended by adding the following:~~

~~**F 503.1**912.5.1 Backflow prevention. Whenever a backflow prevention device is required to be installed on an existing hydraulically calculated sprinkler system, the system shall be recalculated to assure that the design density of the sprinkler system is satisfied. Should the design density be inadequate, the automatic sprinkler system shall be redesigned for compliance with the required design density.~~

~~**F 503.12**912.5.2 Backflow prevention - antifreeze systems. Wherever an existing antifreeze sprinkler system is not protected by a reduced pressure backflow prevention device, the system shall be altered to incorporate a reduced pressure backflow prevention device at the point of connection to that section of the system containing such additives.~~

~~(51) Section ~~F 501.0~~913 is amended by adding the following section:~~

~~**F 501.2**913.2.1 Fire pump emergency power. Any fire pump installed to meet the hydraulic design needs of an automatic fire sprinkler system shall be connected to an automatically switched emergency power generator to assure operation at all times. The emergency power generator, all switching~~

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equipment, and the connection to the fire pump shall meet all requirements of the National Electrical Code (NFPA 70) as adopted by the Village.

(aa52) Section ~~F 610.0~~1003.2.11 is hereby amended by adding the following section:

~~F 610.1.1~~1003.2.11.2.1 **Emergency lighting.** Where emergency lighting units are required by Village ordinance or regulation, twenty percent (20%) of those lights must have battery power if the building or structure has an emergency generator for such lighting. For multi-story buildings, stairs shall at a minimum have a battery powered unit at every fourth landing. These battery powered units on the stairs can be applied toward the twenty percent (20%) requirement.

(z53) Section ~~F 605.0~~1011.3 is amended by adding the following section:

~~F 605.1.1~~1011.3.1 **Check out lanes.** At no time shall check-out lanes be blocked by stored carts, displays, chains or other fixed obstructions to free access.

(f54) Section ~~F 315.0~~1404 is amended by adding the following section:

~~F 315.1.1~~1404.8 **Restriction of combustible materials.** Where required by the code official, no combustible construction materials or packaging shall be stored inside the building or structure until the sprinkler system is activated. Where deemed necessary by the code official, the activated sprinkler system shall be supervised by a temporary connection to the Village's fire alarm receiving equipment.

~~(g) Section F 403.3 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:~~

(gg55) Section ~~F 3207.0~~2210 is amended by adding the following sections:

~~F 3207.6~~2210.2.2.1 **Storage of waste oils.** Waste oils shall be stored in a listed double wall tank located outside the building with a minimum 2" diameter steel vent pipe extending at least 18" above the roof line. The tank shall be installed on a concrete pad with drainage and shall be protected from vehicular traffic damage in an approved manner and shall be blocked from view by an approved fence a minimum of six feet high. The tank and all associated piping shall be air pressure tested in the manner prescribed by the manufacturer and such test shall be witnessed by the code official.

~~F 3207.6~~2210.2.2.2 **Maximum waste oil storage above ground.** The maximum amount of waste oil stored outside above ground without additional protection shall be 660 gallons. Where the amount stored outside above ground exceeds 660 gallons, the installation shall comply with NFPA 31 listed in Chapter 44 of the ~~BOCA~~ICC Fire Prevention Code.

~~F 3207.7~~2210.2.2.3 **Storage of motor oils in above ground tanks.** New motor oils shall be stored in a listed single wall tank if stored inside, or a listed double wall tank if stored outside. When stored outside, the tank shall be installed on a concrete pad with drainage, shall be protected from vehicular traffic damage in an approved manner, and shall be blocked from view by an approved fence a minimum of six feet high. The tank and all associated piping shall be air pressure tested in the manner prescribed by the manufacturer and such test shall be witnessed by the code official.

~~F 3207.7~~2210.2.2.4 **Maximum motor oil storage above ground:** The maximum amount of new motor oil stored in above ground tanks inside a building shall not exceed 1,320 gallons. If stored outside, the maximum amount of new motor oil shall not exceed 1,320 gallons without additional protection pursuant to NFPA 31 listed in Chapter 44 of the ~~BOCA~~ICC Fire Prevention Code.

(bb56) Section ~~F 3102.1~~3302.1 is amended by deleting the same ~~the definition of "fireworks"~~ in its entirety and substituting in lieu thereof the following:

~~F 3102.1 Definitions. The following words and terms shall, for the purpose of this Code have the following meanings:~~

FIREWORKS. The term "fireworks" shall have the same meaning as that term is defined and used

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in the Illinois Fireworks Regulation Act*

(ee~~57~~) Section ~~F-3201.2~~3401.1 is amended by adding the words: "or waste oils" after the words "combustible liquids" wherever they appear therein.

(58) Section 3401.4 is amended by adding the following:

3401.4.1 Annual Permit Required. An annual permit is required for underground storage of flammable/combustible liquids per Ordinance 4588. Fees are as noted in Section 17-47 of the Downers Grove Municipal Code.

(dd~~59~~) Section ~~F-3207.1~~3404.1 is amended by deleting the same in its entirety and substituting in lieu thereof the following:

~~F-3207.1~~**3404.1 General.** Combustible liquid storage tanks of any capacity installed above ground shall comply with this chapter. Flammable liquids shall not be stored above ground.

(ee~~60~~) Section ~~F-3207.5~~3404.2 is amended by ~~deleting the same in its entirety and substituting in lieu thereof~~adding the following:

~~F-3207.5~~**3404.2.9.5.1.7 Fuel dispensing systems.** Above ground tanks shall be permitted for the storage of combustible motor fuels on premises to which the public does not have access when installed in a special enclosure constructed in accordance with NFPA 30A listed in ~~Chapter 44 of the BOCA ICC~~ Fire Prevention Code.

(ff) ~~Section F-3207.5.3 is amended by changing the following numbers: "6,000" to "1,000" and "18,000" to "1,500."~~

(61) Section 3404.2.9 is amended by adding the following section:

3404.2.9.6.11 Tank Capacity/Installation. Tanks containing motor fuels shall not exceed 1,000 gallon individual fuel capacity or 1,500 gallons in aggregate capacity. Installations with the maximum allowable aggregate capacity shall be separated from other such installations by no less than 100 feet.

(62) Section 3404.2.13.1.4(3) is amended by deleting the exception.

(hh~~63~~) Section ~~F-3601.2~~3801.2 is amended by deleting the same in its entirety and substituting in lieu thereof the following:

~~F-3601.2~~**3801.2 Permits required.**

- (a) A permit shall be obtained from the code official for each of the following:
- (1) installation of liquified petroleum gas tanks regardless of the capacity;
 - (2) sales or exchanges of filled tanks and the filling of tanks of any size for sale or use on site;
 - (3) for the storage of containers used in commercial, maintenance, construction, stock management or vehicles, and
 - (4) any other use where tanks are used and stored on a regular basis.
- (b) Prior to installation, use or storage of liquified or petroleum gas, the applicant for a permit shall submit plans to the code official detailing such installation, use or storage. If compliance with the requirements of this Code is shown by such plans, a permit shall be issued. The code official shall inspect the site upon completion of the installation to determine compliance with the plans and the ordinances of the Village.

(64) Section 3809 is amended by deleting in their entirety the following sections:

3809.4

3809.9

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3809.10
3809.11

(ii) Section F-3603.4~~3809~~ is amended by adding the following section:

F-3603.43809.16 Storage of containers. Containers stored inside or outside a building shall be secured inside a shelf or rack system of non-combustible construction or shall be chained to a non-combustible wall. Either method of storage shall prevent the tank from "rocketing" if exposed to fire. If stored outside, tanks shall be protected from tampering.

~~(jj) Section F-518.1 is hereby amended by adding the following section:~~

~~Portable fire extinguishers shall be selected, distributed, inspected, maintained, tested and recharged in accordance with NFPA 10. (Ord. No. 2857, § 8; Ord. No. 3118, § 20; Ord. No. 3185, § 3.)~~

Section 4. That all ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Section 5. That this ordinance shall be in full force and effect from and after its passage and publication in the manner provided by law.

Mayor

Passed:
Published:
Attest: _____
Village Clerk