

AN ORDINANCE OF THE CITY OF MESQUITE, TEXAS, AMENDING CHAPTER 6 OF THE CODE OF THE CITY OF MESQUITE BY DELETING SECTIONS 6-1 THROUGH 6-6 IN THEIR ENTIRETY AND ADDING NEW SECTIONS 6-1 THROUGH 6-6 THEREBY ADOPTING THE INTERNATIONAL FIRE CODE, 2000 EDITION, BY PROVIDING CERTAIN AMENDMENTS AND DELETIONS THERETO; PROVIDING FOR AN EFFECTIVE DATE; PROVIDING FOR A PENALTY NOT TO EXCEED TWO THOUSAND (\$2,000.00) DOLLARS FOR EACH OFFENSE; PROVIDING FOR A REPEALER CLAUSE; PROVIDING FOR A SEVERABILITY CLAUSE; AND DECLARING AN EFFECTIVE DATE.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MESQUITE, TEXAS:

SECTION 1. That Chapter 6 of the Code of the City of Mesquite is hereby amended by deleting Sections 6-1 through 6-6 in their entirety and adding new Sections 6-1 through 6-6 to read as follows, in all other respects said Code and Chapter to remain in full force and effect.

Sec. 6-1. Adoption of the International Fire Code.

The *International Fire Code*, 2000 Edition, a publication of the International Code Council (I.C.C.), is hereby adopted and designated as the official fire code of the City of Mesquite to same extent as if such Code were copied verbatim in this Article subject to the amendments prescribed in this Article. A copy of the *International Fire Code*, 2000 Edition, and amendments thereto shall be maintained in the office of the City Secretary as an original document and ordinance of the city.

Sec. 6-2. Duties of Fire Prevention Division.

- (a) The *International Fire Code* shall be enforced by the Fire Prevention Division of the Fire Department of the City of Mesquite made up of the Fire Marshal and Inspectors under the supervision of the Chief of the Fire Department.
- (b) The Fire Marshal in charge of the Fire Prevention Division shall be appointed by the Chief with the consent and approval of the City Manager.
- (c) The Chief of the Fire Department may detail such members of the Fire Department as Inspectors as shall from time to time be necessary.

Sec. 6-3. Reserved.

Sec. 6-4. Reserved.

Sec. 6-5. Reserved.

Sec. 6-6. Amendments to the International Fire Code, 2000 Edition.

The following amendments are made to the *International Fire Code*, 2000 Edition:

(1) *General terms.*

- (a) *Jurisdiction.* All references to "jurisdiction" shall mean the City of Mesquite, the County of Dallas and the State of Texas.
- (b) *Chief.* All references to "Chief of the Bureau of Fire Prevention" shall be replaced with "Fire Marshal."
- (c) *Code Official.* All references to "code official" shall be replaced with "Fire Code Official."

(2) *Chapter 1, Administration.*

- (a) *Section 102.4.* Amend by deleting the section in its entirety and adding a new Section 102.4 to read as follows:

Application of other codes. The design and construction of new structures shall comply with this code, and other codes and any alterations, additions, changes in use or changes in structures required by this code which are within the scope of this and other codes shall be made in accordance therewith.

- (b) *Section 102.6.* Amend by deleting the section in its entirety and adding a new Section 102.6 to read as follows:

Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 45 which have been specifically adopted by the City, and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Where NFPA 70 or the ICC Electrical Code are referenced herein, it shall mean the corresponding provision of the *National Electrical Code* as adopted.

- (c) *Section 105.1.4.* Amend by adding a new Section 105.1.4 to read as follows:

Permit fees. A permit fee shall be paid prior to conducting activities as follows:

1. *Fire alarm systems.* The installation, addition to or alteration of a fire alarm system.
2. *Fire sprinkler systems.* The installation, addition to or alteration of a fire sprinkler system.
3. *Fire suppression systems.* The installation of, addition to or alteration of a fire suppression system.
4. *Underground storage tanks.* The installation, removal, addition to or alteration of underground storage tanks and piping for the storage of hazardous materials especially flammable liquids.
5. *Above ground storage tanks.* The installation, removal, addition to or alteration of underground storage tanks and piping for the storage of hazardous materials especially flammable liquids.
6. *Open burning.*
7. *Fireworks displays.* To conduct fireworks and pyrotechnics displays.
8. *Access control gates.* To install new or alter existing access control gates across access roads and fire lanes.
9. *Explosive materials.* The storage, use or detonation of explosive materials.

Exception: Permit fees shall not be required for permits for work on any building or structure, the title to which is directly vested in the federal government, state, county or city, the Mesquite Independent School District or a church except that public schools and churches shall pay permit fees for the construction of living quarters, parsonages or commercial day care operations used in conjunction therewith.

- (d) *Section 105.1.5.* Amend by adding a new Section 105.1.5 to read as follows:

Permit fee schedule.

1. *Permit fee schedule.* The following permit fee schedule shall be charged for the installation, addition to or alteration of the following:
 - a. Fire sprinkler systems.
 - b. Fire suppression systems.
 - c. Underground storage tanks.
 - d. Aboveground storage tanks (except temporary tanks).
 - e. Access control gates across access roads and fire lanes.

COST OF WORK	PERMIT FEE
\$0 to \$3,000	\$40.00
\$3,001 to \$10,000	\$50.00
\$10,001 to \$50,000	.0075 X total cost of work
\$50,001 to \$100,000	.005 X total cost of work + \$200.00
\$100,001 or more	.004 X total cost of work + \$400.00

2. *Permit fees.* A fee of forty (\$40.00) dollars shall be charged for the following permits:
 - a. Open burning.
 - b. Fireworks and pyrotechnics displays.
 - c. Temporary aboveground tanks to include propane cylinder exchange.
 - d. Reinspections.
 1. A reinspection fee shall be charged for each certificate of occupancy inspection after two (2) have been completed.
 2. A reinspection fee shall be charged for each reinspection of a fire alarm system, fire sprinkler system, fire suppression system,

underground storage tank and aboveground storage tanks.

3. *Fire alarm system fee.* A fee of fifty (\$50.00) dollars shall be charged for the installation of, the addition to or the alteration of a fire alarm system. New installations in multiple buildings shall be fifty (\$50.00) dollars per each building.
 4. *Investigation fee.* An investigation shall be made whenever any work for which a permit is required by this code has commenced without first obtaining a permit. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is subsequently issued. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law. The investigation fee shall be equal to the amount of the permit fee required by this code not to exceed two thousand (\$2,000.00) dollars.
 5. *Third party review fee.* A third party review fee shall be paid in addition to the permit fee where an impartial third party reviews a permit submittal and makes code-related comments. The third party shall be selected by the Fire Code Official and have extensive experience and knowledge in the field to be reviewed. This review process shall be utilized for permit submittals with fire system technology not normally permitted. The third party review fee shall be the cost of the review plus associated shipping or courier cost.
 6. *Inspection after normal business hours fee.* Inspections may be conducted after hours or on Saturdays at the request of a contractor if inspection personnel is available. The fee for such inspections shall be fifty (\$50.00) dollars per hour per inspector with a two (2) hour minimum per inspector.
- (e) *Section 108.1.* Amend by deleting the section in its entirety and adding a new Section 108.1 to read as follows:

Board of appeals established.

1. *Created; composition.* There is hereby created a board to be known as the Fire Code Board of Appeals. The board shall be composed of five (5) members who are qualified by experience and training to pass judgement upon

pertinent matters and who are not employees of the City of Mesquite.

2. *Scope and authority of the board.* The Board shall hear and decide appeals of orders, decisions or the determinations made by the Fire Code Official of the City of Mesquite.
3. *Appeal procedure.* An appeal to the Fire Code Board of Appeals shall be filed within thirty (30) calendar days after the date the determination or decision of the Fire Code Official is made. If the thirtieth (30th) day falls on a Saturday, Sunday or city holiday, the time for filing the appeal shall be extended to the next day following the thirtieth (30th) day which is not a Saturday, Sunday or city holiday. The appeal shall be filed with the Fire Department at the office of the Chief, and such notice of appeal shall specify the grounds of such appeal stating the reasons why the appellant feels the Fire Code Official's determination should be overturned. The decisions and findings of the Board shall be rendered in writing to the appellant with a duplicate copy to the Fire Code Official.
4. *Terms.* The Board members are appointed by the City Council to serve without compensation for two-year terms. Two (2) members shall be appointed to two-year terms on or about January 1 of even-numbered years, and three (3) members shall be appointed to two-year terms on or about January 1 of odd-numbered years. The Board shall set its rules and regulations and appoint a chairman from among its members.
5. *Vacancies.* The City Council shall fill all vacancies by the appointment of a suitable person to serve the unexpired term.
6. *Meetings.* Board meetings shall be held at the call of the chairman or at such other times as the Board may determine. All meetings are open to the public. The Board shall keep minutes of its meetings and all records are open to the public.
7. *Quorum.* Three (3) members shall constitute a quorum. A concurring vote of three (3) members of the Board shall be necessary to render a decision in favor of the Appellant.

- (a) *Section 202.* Amend by adding new definitions to the existing list of definitions in Section 202 to read as follows:

HIGH-RISE BUILDING. Building having floors used for human occupancy located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access.

SELF-SERVICE STORAGE FACILITY. Real property designed and used for the purpose of renting or leasing individual storage spaces to customers for the purpose of storing and removing personal property on a self-service basis.

STANDBY PERSONNEL. Qualified fire service personnel, approved by the Fire Chief. When utilized, the number required shall be as directed by the Fire Chief. Charges for utilization shall be as normally calculated by the jurisdiction.

- (4) *Chapter 3, General Precautions Against Fire.*

- (a) *Section 307.2.* Amend by deleting the section in its entirety and adding a new Section 307.2 to read as follows:

Permit required. A permit shall be obtained from the Code Official in accordance with Section 105.6 prior to kindling a fire for recognized silvicultural or range or wildlife management practices, prevention or control of disease or pests, or open burning. Application for such approval shall only be presented by and permits issued to the owner of the land upon which the fire is to be kindled. Permits shall also meet the regulations of:

1. Texas Natural Resource Conservation Commission guidelines and/or restrictions.
2. State, county or local temporary or permanent bans on open burning.
3. Local written policies as established by the Code Official.

- (b) *Section 307.3.* Amend by deleting the beginning paragraph in its entirety and adding a new beginning paragraph in Section 307.3 to read as follows:

Location. The location for open burning shall not be less than 300 feet from any structure and provisions shall be made to prevent the fire from spreading to within 300 feet of any structure.

- (c) *Section 307.3.3.* Amend by adding a new Section 307.3.3 to read as follows:

Trench burns. Trench burns shall be conducted in air curtain trenches and in accordance with Section 307.2.

- (d) *Section 307.4.* Amend by deleting the section in its entirety and inserting a new Section 307.4 to read as follows:

Attendance. Open burning, trench burns, bonfires or recreational fires shall be constantly attended until the fire is extinguished. A minimum of one portable fire extinguisher complying with Section 906 with a minimum 4-A rating or other approved onsite fire-extinguishing equipment such as dirt, sand, water barrel, garden hose or water truck shall be available for immediate utilization.

- (5) *Chapter 5, Fire Service Features.*

- (a) *Section 503.1.1.* Amend by adding the following information to the end of the first paragraph in Section 503.1.1 to read as follows:

Except for single or two-family residences, the path of measurement shall be a minimum of a ten-foot (10') wide unobstructed pathway around the external walls of the structure. An existing fire lane shall not be altered, abandoned or obstructed without the approval of the Code Official and only upon a showing that adequate fire protection will not be compromised.

- (b) *Section 503.2.1.* Amend by deleting the section in its entirety and adding a new Section 503.2.1 to read as follows:

Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than twenty-two feet (22') and an unobstructed vertical clearance of not less than fourteen feet (14').

Exception: Vertical clearance may be reduced provided such reduction does not impair access by fire apparatus and approved signs are installed and maintained indicating the established vertical clearance when approved.

- (c) *Section 503.2.2.* Amend by deleting the section in its entirety and adding a new Section 503.2.2 to read as follows:

Authority. The Code Official shall have the authority to require an increase in the minimum access widths and vertical clearances where they are inadequate for fire or rescue operations.

- (d) *Section 503.3.* Amend by deleting the section in its entirety and adding a new Section 503.3 to read as follows:

Marking. Approved striping shall be provided for fire apparatus access roads as required. In addition to striping, signs or other approved notices shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof where deemed necessary by the Code Official for clear identification of a fire apparatus access road. Signs or notices and striping shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.

1. *Striping.* Fire apparatus access roads shall be marked by painted lines of red traffic paint six inches (6") in width to show the boundaries of the lane. The words "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" shall appear in four inch (4") white letters at twenty-five-foot (25') intervals on the red border markings along both sides of the fire lanes. Where a curb is available, the striping shall be on the vertical face of the curb.
2. *Signs.* Signs shall read "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" and shall be twelve inches (12") wide and eighteen inches (18") high. Signs shall be painted on a white background with letters and borders in red using not less than two-inch (2") lettering. Signs shall be permanently affixed to a stationary post and the bottom of the sign shall be six feet, six inches (6'6") above finished grade. Signs shall be spaced not more than fifty feet (50') apart. Signs may be installed on permanent buildings or walls or as approved by the Fire Chief.

- (e) *Section 503.4.* Amend by deleting the section in its entirety and adding a new Section 503.4 to read as follows:

Obstruction of fire apparatus access roads. Fire apparatus access roads shall not be obstructed in any manner including the parking, stopping, standing, loading or unloading of vehicles. The minimum widths and clearances established in Section 503.2.1 and any area marked as a fire lane as described in Section 503.3 shall be maintained at all times. The installation of speed bumps across fire lanes shall require the approval of the Fire Chief.

- (f) *Section 503.4.1.* Amend by adding a new Section 503.4.1 to read as follows:

Loading zone. A loading zone cannot coexist with a fire lane. A loading zone shall not be established within a fire lane.

- (g) *Section 503.6.* Amend by adding the following text to the end of the existing paragraph in Section 503.6:

Security gates across access roads shall meet the requirements of Mesquite Fire Department Rules and Regulations, Gates Across Fire Lanes. A Mesquite Fire Department permit is required prior to the installation of a gate across an access road.

- (h) *Section 506.1.2.* Amend by adding a new Section 506.1.2 to read as follows:

Key box. A key box shall be provided on each occupancy with a fire alarm system or fire sprinkler system that initiates an automatic fire department response. The key box shall contain keys for each locked doorway within the building and each elevator. The keys shall be identified as to the corresponding locks.

Exception: R-2 and R-3 occupancies are not required to provide a key box. R-1 occupancies that are open and accessible to the public 24 hours each day without the assistance of keys, card readers or any other means of entry assistance and provides personnel that can immediately access keys to each and every locked doorway shall not be required to provide a key box.

- (6) *Chapter 8, Interior Finish, Decorative Materials and Furnishings.*

- (a) *Section 803.3.2.* Amend by adding an exception at the end of Section 803.3.2 to read as follows:

Exception: In corridors protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, artwork and teaching materials shall be limited to 50 percent of the wall area.

- (b) *Section 803.4.2.* Amend by adding an exception at the end of Section 803.4.2 to read as follows:

Exception: In corridors protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, artwork and teaching materials shall be limited to 50 percent of the wall area.

- (c) *Section 804.1.1.* Amend by deleting the exception in the section in its entirety and adding new exceptions to Section 804.1.1 to read as follows:

Exceptions:

1. Trees located in areas protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 shall not be prohibited in Groups A, E, M, R-1 and R-2.
2. Trees shall not be prohibited inside private dwelling units of Group R-2 Occupancies.

(7) *Chapter 9, Fire Protection Systems.*

- (a) *Section 901.7.* Amend by deleting the section in its entirety and adding a new Section 901.7 to read as follows:

Systems out of service. Where a required fire protection system is out of service or in the event of numerous accidental activations, the Fire Department and the Code Official shall be notified immediately and where required by the Code Official, the building shall either be evacuated or standby personnel shall be provided for all occupants left unprotected by the shutdown until the fire protection system has been returned to service. Where utilized, standby personnel shall be provided with at least one approved means for notification of the Fire Department and their only duty shall be to perform constant patrols of the protected premises and keep watch for fires.

- (b) *Section 902.1.* Amend by adding a new definition to Section 902.1 to read as follows:

FIRE AREA. The aggregate floor area enclosed and bounded by fire walls, fire barriers, exterior walls or fire-resistance-rated horizontal assemblies of a building.

- (c) *Section 903.1.2.* Amend by deleting the section in its entirety and adding a new Section 903.1.2 to read as follows:

Residential systems. The installation of NFPA 13R sprinkler systems is prohibited. Where such reference is found in this code, NFPA 13 sprinkler system materials, design and installation shall be installed instead of NFPA 13R.

- (d) *Sections 903.2.1.1, 903.2.1.2, 903.2.1.3 and 903.2.1.4.* Amend by deleting the sections in their entirety and adding new Sections 903.2.1.1, 903.2.1.2, 903.2.1.3 and 903.2.1.4 to read as follows:

903.2.1.1 Group A-1. An automatic sprinkler system shall be provided for Group A-1 Occupancies where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m²).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.
4. The fire area contains a multitheater complex.

903.2.1.2 Group A-2. An automatic sprinkler system shall be provided for Group A-2 Occupancies where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet (464.5 m²).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

903.2.1.3 Group A-3. An automatic sprinkler system shall be provided for Group A-3 Occupancies where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m²).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

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

903.2.1.4 Group A-4. An automatic sprinkler system shall be provided for Group A-4 Occupancies where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m²).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

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

- (e) *Sections 903.2.7 and 903.2.8.* Amend by deleting the sections in their entirety and adding new Sections 903.2.7 and 903.2.8 to read as follows:

903.2.7 Group R-1. An automatic sprinkler system shall be provided throughout buildings with a Group R-1 fire area.

Exception: Where guestrooms are not located more than one story in height and the building contains less than 20 guestrooms.

903.2.8 Group R-2. An automatic sprinkler system shall be provided throughout all buildings with a Group R-2 fire area where any of the following conditions apply:

1. The R-2 fire area is more than one story in height including basements; or
2. The building contains more than 16 dwelling units; or
3. The building contains fraternities and sororities with an occupant load of more than 10.

- (f) *Sections 903.2.10.2 and 903.2.10.3.* Amend by adding new Sections 903.2.10.2 and 903.2.10.3 to read as follows:

903.2.10.2 Bulk storage of tires. Buildings and structures where the area for the storage of tires exceeds 20,000 cubic feet (566 m³) shall be equipped throughout with an automatic fire sprinkler system in accordance with Section 903.3.1.1.

903.2.10.3. Self-service storage facility. An automatic sprinkler system shall be installed throughout all self-service storage facilities.

Exception: One-story self-service storage facilities that have no interior corridors with a one-hour fire barrier separation wall installed between every storage compartment.

- (g) *Section 903.2.12.3.* Amend by deleting the section in its entirety and adding a new Section 903.2.12.3 to read as follows:

Buildings over 35 feet in height. An automatic sprinkler system shall be installed throughout buildings with a floor level other than penthouses in compliance with Section 1509 of the *International Building Code*, 35 feet or more above the lowest level of fire department vehicle access.

Exception: Open parking structures in compliance with Section 406.3 of the *International Building Code*.

- (h) *Section 903.2.12.4.* Amend by adding a new Section 903.2.12.4 to read as follows:

High-piled combustible storage. Buildings with a clear height exceeding 12 feet (4572 mm) are also subject to the applicable provisions of Chapter 23.

- (i) *Section 903.3.1.1.1.* Amend by deleting the section in its entirety and adding a new Section 903.3.1.1.1 to read as follows:

Exempt locations. Automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from any room merely because it is damp, of fire-resistance-rated construction or contains electrical equipment.

1. Any room where the application of water or flame and water constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents when approved by the Code Official.
3. Generator and transformer rooms, under the direct control of a public utility separated from the remainder of the building by walls and floor/ceiling

or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.

- (j) *Section 903.3.1.2.* Amend by deleting the section in its entirety and adding a new Section 903.3.1.2 to read as follows:

NFPA 13R sprinkler systems. The installation of 13R sprinkler systems is prohibited. Sprinkler coverage of voids between floors as required in NFPA 13 may be omitted when replacing a NFPA 13R system.

- (k) *Section 903.3.5.* Amend by adding a second paragraph to the existing Section 903.3.5 to read as follows:

The water supply required for automatic sprinkler systems shall be provided in conformance with the supply requirements of the respective standards; however, every fire protection system shall be designed with a 10 psi safety factor.

- (l) *Section 903.3.7.* Amend by adding the following text to the end of Section 903.3.7:

The Fire Department connection shall be located within 50 feet of a fire apparatus access road and within 100 feet of a fire hydrant.

- (m) *Section 903.4.* Amend the section by adding a paragraph after the exceptions in Section 903.4 to read as follows:

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to an automatic sprinkler system and shall cause an alarm upon detection of water flow lasting more than 45 seconds. All control valves in the sprinkler and standpipe systems except for fire department hose connection valves shall be electrically supervised to initiate a supervisory signal at the central station upon tampering.

- (n) *Section 905.2.* Amend by deleting the section in its entirety and adding a new Section 905.2 to read as follows:

Installation standards. Standpipe system shall be installed in accordance with this section and NFPA 14. Manual dry standpipe systems shall be supervised with a minimum of 10 psig and a maximum of 40 psig air pressure with a high/low alarm.

- (o) *Section 905.3.2.* Amend by deleting the exceptions in their entirety and adding a new exception to Section 905.3.2 to read as follows:

Exception: Automatic dry and semiautomatic dry standpipes are allowed as provided for in NFPA 14.

- (p) *Section 905.4.* Amend by deleting item number five of the section in its entirety and adding a new item number five in Section 905.4 to read as follows:

5. Where the roof has a slope less than four units vertical in 12 units horizontal (33.3-percent slope), each standpipe shall be provided with a two-way hose connection located either on the roof or at the highest landing of stairways with stair access to the roof. An additional hose connection shall be provided at the top of the most hydraulically remote standpipe for testing purposes.

- (q) *Section 905.9.* Amend the section by adding a paragraph after the exceptions in Section 905.9 to read as follows:

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to an automatic sprinkler system and shall cause an alarm upon detection of water flow lasting more than 45 seconds. All control valves in the sprinkler and standpipe systems except for fire department hose connection valves shall be electrically supervised to initiate a supervisory signal at the central station upon tampering.

- (r) *Section 907.1.3.* Amend by adding a new Section 903.1.3 to read as follows:

Design Standards. All alarm systems new or replacement serving 10 or more alarm actuating devices shall be addressable fire detection systems. Alarm systems serving more than 75 smoke detectors or more than 200 total alarm activating devices shall be analog intelligent addressable fire detection systems. All detection devices shall have a unique point of identification.

Existing systems will be required to comply with this section when building remodel involving 30% or more of the building occurs or expansion increasing the building more than 30% occurs. When cumulative building remodel or expansion exceeds 50% of the building, compliance required within 18 months of permit application.

- (s) *Section 907.2.3.*

1. Amend by deleting the beginning paragraph in the section in its entirety and adding a new beginning paragraph to Section 907.2.3 to read as follows:

Group E. A manual fire alarm system shall be installed in Group E educational occupancies. When automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system. An approved smoke detection system shall be installed in Group E day care occupancies. Unless separated by a minimum of one hundred feet (100') open space, all buildings, whether portable buildings or the main building, will be considered one building for alarm occupant load consideration and interconnection of alarm systems.

2. Amend by deleting Exception "1" in the section in its entirety and adding a new Exception "1" to Section 907.2.3 to read as follows:

Exceptions:

1. Group E educational and day care occupancies with an occupant load of less than 50 when provided with an approved automatic sprinkler system.
 - 1.1 Residential in-home day care with not more than 12 children may use interconnected single station detectors in all habitable rooms. (For care of more than five children 2 1/2 or less years of age, see Section 907.2.6.)

(t) *Section 907.2.12.*

1. Amend by deleting the beginning paragraph in the section in its entirety and adding a new beginning paragraph in Section 907.2.12 to read as follows:

High-rise buildings. Buildings having floors used for human occupancy located more than 55 feet (22 860 16 764 mm) above the lowest level of fire department vehicle access shall be provided with an automatic fire alarm system and an emergency voice/alarm communications system in accordance with Section 907.2.12.2.

2. Amend by deleting Exception "3" in the section in its entirety and adding a new Exception "3" in Section 907.2.12 to read as follows:

3. Buildings with an occupancy in Group A-5 in accordance with Section 303.1 of the *International Building Code* when used for open air seating; however, this exception does not apply to accessory uses including but not limited to sky boxes, restaurants and similarly enclosed areas.

- (u) *Section 907.2.12.2.* Amend by deleting the beginning paragraph in the section in its entirety and adding a new beginning paragraph in Section 907.2.12.2 to read as follows:

Emergency voice/alarm communication system. The operation of any automatic fire detector, sprinkler water-flow device or manual fire alarm box shall automatically sound an alert tone followed by voice instructions giving approved information and directions on a general or selective basis to the following terminal areas on a minimum of the alarming floor, the floor above and the floor below in accordance with the building's fire safety and evacuation plans required by Section 404.

- (v) *Section 907.4.* Amend by changing the heading and adding a second sentence to read as follows:

Manual fire alarm boxes and actuating devices.

Manual fire alarm actuating devices shall be an approved double action type.

- (w) *Section 907.6.1.* Amend by adding a new Section 907.6.1 to read as follows:

Installation. All fire alarm systems shall be installed in such a manner that the failure of any single alarm-actuating or alarm-indicating device will not interfere with the normal operation of any other such devices. All systems shall be Class "A" wired with a minimum of six feet separation between supply and return loops. IDC – Class "A" style – D, SLC Class "A" Style 6, notification Class "B" Style Y.

- (x) *Section 907.9.2.* Amend by deleting the beginning paragraph in its entirety and adding a new beginning paragraph to read as follows:

High-rise buildings. In buildings that have floors located more than 55 feet (22 860 16 764 mm) above the lowest level of fire department vehicle access that are occupied for human occupancy,

a separate zone by floor shall be provided for all of the following types of alarm-initiating devices where provided.

- (y) *Section 913.4.* Amend by changing the heading and adding a paragraph at the end of the section to read as follows:

Valve and fire pump system supervision.

The fire pump system shall also be supervised for “loss of power,” “phase reversal” and “pump running” conditions by supervisory signal on distinct circuits.

- (8) *Chapter 10, Means of Egress.*

- (a) *Section 1003.2.12.2.* Amend by deleting Exception “3” in the section in its entirety and adding a new Exception “3” in Section 1003.2.12.2 to read as follows:

3. In occupancies in Group I-3, F, H or in non-public portions of S, balusters, horizontal intermediate rails or other construction shall not permit a sphere with a diameter of 21 inches (533 mm) to pass through any opening.

- (b) *Section 1004.3.2.1.* Amend by adding a new Exception “5” in Section 1004.3.2.1 to read as follows:

5. In Group B office buildings, corridor walls and ceilings need not be of fire resistive construction within office spaces of a single tenant when the space is equipped with an approved automatic smoke detection system within the corridor. The actuation of any detector shall activate alarms audible in all areas served by the corridor. The smoke detection system shall be connected to the building’s fire alarm system where such a system is provided.

- (c) *Table 1004.3.2.1.* Amend as follows:

Occupancy Group A and E shall have a one-hour corridor fire resistance rating with a sprinkler system.

- (d) *Section 1005.3.2.5.* Amend by deleting the section in its entirety and adding a new Section 1005.3.2.5 to read as follows:

Smokeproof enclosures. In buildings required to comply with the high-rise provisions of the *International Building Code* or the provisions for underground buildings in the *International Building Code*, each of the exits of a building which serves stories where the

floor surface is located more than 55 feet above the lowest level of fire department vehicle access or more than 30 feet (9144 mm) below the level of exit discharge serving such floor levels shall be a smokeproof enclosure or pressurized stairway in accordance with the *International Building Code*.

(9) *Chapter 22, Service Stations and Repair Garages.*

- (a) *Section 2206.2.1.2.* Amend by adding a new Section 2206.2.1.2 to read as follows:

Aboveground tanks. The following provisions shall apply to the dispensing of Class I, Class II and Class IIIA liquids from an aboveground tank:

1. There shall be no dispensing to the general public.
2. Tanks shall not be located within 100 feet of the property line of any occupancy Group A, E, I, or R.
3. For the purposes of this provision, used motor oil that has not been contaminated by other flammable or combustible substances shall be classified as a Class III B liquid.
4. In areas other than those zoned Industrial and Conditional Use Airport, the following quantities shall apply.
 - (a) The quantity and capacity of each tank shall not exceed 2,000 gallons of Class I, Class II or Class IIIA liquid in each tank.
 - (b) The aggregate quantity of Class I, Class II and Class IIIA liquids shall not exceed 6,000 gallons.
5. Industrial and Conditional Use Airport quantities shall comply with the IFC.

- (b) *Section 2207.1.1.* Amend by adding a new Section 2207.1.1 to read as follows:

LP gas fueling. The following provisions shall apply to the LP gas fueling of motor vehicles from an aboveground tank:

1. There shall be no dispensing to the general public.

2. Tanks shall not be located within 100 feet of the property line of any occupancy Group A, E, I or R.
3. In areas other than those zoned Industrial and Conditional Use Airport, the following quantities shall apply:
 - a. The quantity and capacity of LP gas shall not exceed 1,000 gallons.
 - b. Areas zoned residential shall comply with Section 3804.2.
4. There shall be no dispensing at occupancy Group A, E, I or R.

- (c) *Section 2208.1.1.* Amend by adding a new Section 2208.1.1 to read as follows:

CNG Fueling. The following provisions shall apply to the CNG fueling of motor vehicles from an aboveground tank:

1. There shall be no dispensing to the general public.
2. Tanks shall not be located within 100 feet of the property line of any occupancy Group A, E, I or R.
3. In areas other than those zoned Industrial and Conditional Use Airport, the following quantities shall apply.
 - a. The quantity and capacity of CNG shall not exceed 1,000 gallons.
 - b. Areas zoned residential shall comply with Section 3804.3.2.
4. There shall be no dispensing at occupancy Group A, E, I or R.

(10) *Chapter 23, High-Piled Combustible Storage.*

- (a) *Section 2302.1.* Amend the definition of “High-Piled Combustible Storage” by adding a second paragraph to read as follows:

Any building that is required by the *International Fire Code* or the *International Building Code* to install a sprinkler system and that has a clear height in excess of 12 feet making it possible to be used for storage in excess of 12 feet, shall be considered to be high-piled storage.

(11) *Chapter 24, Tents and Other Membrane Structures.*

- (a) *Section 2416.1.* Amend by deleting the section in its entirety and adding a new Section 2416.1 to read as follows:

Standby personnel/crowd managers. When in the opinion of the Code Official, it is essential for public safety in a place of assembly or any other place where people congregate because of the number of persons or the nature of the performance, exhibition, display, contest or activity, the owner, agent or lessee shall employ standby personnel, as required and approved, to remain on duty during the times such places are open to the public or when such activity is being conducted.

Before each performance or the start of such activity, standby personnel shall keep diligent watch for fires during the time such place is open to the public or such activity is being conducted and take prompt measures as directed by the Fire Chief. Such duties may include but not be limited to the extinguishment of fires that occur, and assist in the evacuation of the public from the structure. There shall be trained crowd managers or crowd-manager supervisors at a ratio of one crowd manager/supervisor for every 250 occupants.

(12) *Chapter 33, Explosives and Fireworks.*

- (a) *Section 3301.1.1.* Amend by adding a sentence to the end of Section 3301.1.1 to read as follows:

The manufacture of explosives is prohibited.

- (b) *Section 3301.1.3.* Amend by deleting the section in its entirety and adding a new Section 3301.1.3 to read as follows:

Fireworks. The possession, manufacture, storage, sale, handling and use of fireworks is prohibited.

Exceptions:

1. When approved for fireworks displays, storage and handling of fireworks as provided in Sections 3304 and 3308.
2. The use of fireworks for approved display as permitted in Section 3308.

(13) *Chapter 34, Flammable and Combustible Liquids.*

- (a) *Section 3402.1.* Amend by adding new definitions to Section 3402.1 to read as follows:

FUEL LIMIT SWITCH. A mechanism located on a tank vehicle which limits the quantity of product dispensed at one time.

MOBILE FUELING. The operation of dispensing liquid fuels from tank vehicles into the fuel tanks of motor vehicles. Mobile Fueling may also be known by the terms Mobile Fleet Fueling, Wet Fueling and Wet Hosing.

REMOTE EMERGENCY SHUT-OFF DEVICE. The combination of an operator-carried signaling device and a mechanism on the tank vehicle. Activation of the remote emergency shut-off device sends a signal to the tanker mounted mechanism and causes fuel flow to cease.

- (b) *Section 3403.6.* Amend by adding a sentence to the end of the paragraph in Section 3403.6 to read as follows:

An approved method of secondary containment shall be provided for underground tank and piping systems.

- (c) *Section 3404.2.11.5.* Amend by adding a sentence to the end of the paragraph in Section 3404.2.11.5 to read as follows:

An approved method of secondary containment shall be provided for underground tank and piping systems.

- (d) *Section 3404.2.11.5.2.* Amend by deleting the section in its entirety and adding a new Section 3404.2.11.5.2 to read as follows:

Leak detection. Underground storage tank systems shall be provided with an approved method of leak detection from any component of the system that is designed and installed in accordance with NFPA 30 and as specified in Section 3404.2.11.5.3.

- (e) *Section 3404.2.11.5.3.* Amend by adding a new Section 3404.2.11.5.3 to read as follows:

Dry sumps. Approved sampling tubes of a minimum six inches in diameter shall be installed in the backfill material of each underground flammable or combustible liquid storage tank. The tubes shall extend from a point 12 inches below the average grade of the excavation to ground level and shall be provided with suitable surface access caps. Each tank site shall provide a sampling sump at the corners of the excavation with a minimum of four sumps. Sampling tubes shall be placed in the product line excavation within 10 feet of the tank excavation and one every 50 feet routed along product lines towards the dispensers, a minimum of two are required.

- (f) *Section 3404.2.13.1.4.* Amend by deleting the section in its entirety and adding a new Section 3404.2.13.1.4 to read as follows:

Tanks abandoned in place. Tanks shall not be permitted to be abandoned in place.

Exception: Removal is not possible due to the proximity to a building foundation or another tank, or other practical constraints. In such case, the tanks shall be abandoned as follows:

1. Flammable and combustible liquids shall be removed from the tank and connected piping.
2. The suction, inlet, gauge, vapor return and vapor lines shall be disconnected.
3. The tank shall be filled completely with an approved inert solid material.

Exception: Residential heating oil tanks of 1,100 gallons (4164 L) or less provided the fill line is permanently capped or plugged below grade to prevent refilling of the tank.

4. Remaining underground piping shall be capped or plugged.
5. A record of tank size, location and date of abandonment shall be retained.