

ORDINANCE NO. 4486

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, 2015 EDITION, BY PROVIDING CERTAIN AMENDMENTS AND DELETIONS THERETO; 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 THEREOF.

WHEREAS, the Texas Railroad Commission has adopted Liquefied Petroleum Gas Rules pursuant to Section 113.052 and 113.003 of the Texas Natural Resources Code; and

WHEREAS, the legislature adopted Section 113.054 of Texas Natural Resources Code, effective on September 1, 2011, which states that the Rules adopted by the Texas Railroad Commission supersede ordinances of political subdivisions; and

WHEREAS, the City of Mesquite (the "City") has interpreted and applied its Fire Code in compliance with the applicable Texas Railroad Commission Rules and State law consistently since September 1, 2011; and

WHEREAS, these amendments include the elimination of local amendments that present any conflict with the Liquefied Petroleum Gas Safety Rules in order to conform the ordinance to the City's practice.

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, Texas, 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, 2015 Edition.

The *International Fire Code*, 2015 Edition, including Appendix B, Appendix C and Appendix D attached thereto, as published by the International Code Council (I.C.C.), and as amended as set forth in Section 6-6 below, is hereby adopted and designated as the official fire code of the City of Mesquite, Texas, to the same extent as if such code were copied verbatim in this Chapter 6, subject to the amendments prescribed in Section 6-6 below. A copy of the *International Fire Code*, 2015 Edition, including Appendix B, Appendix C and Appendix D attached thereto and all amendments thereto adopted pursuant to Section 6-6 below shall be maintained in the office of the City Secretary as an original document and ordinance of the City of Mesquite, Texas. All italicized terms used in this Chapter 6 and not otherwise defined herein shall have the meanings set forth in the *International Fire Code*, 2015 Edition.

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

- (1) The *International Fire Code* shall be enforced by the Fire Prevention Division of the Fire Department of the City of Mesquite, Texas, made up of the Fire Marshal and Inspectors under the supervision of the Chief of the Fire Department.
- (2) 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.
- (3) 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. Conflicts with Federal and State law.

This article shall be construed and applied under and in accordance with the Constitution and laws of the United States and the State of Texas ("Federal and State law"). For the purpose of this section, Federal and State law include administrative agency interpretative rules required or allowed to be adopted pursuant to law. In the event of a conflict between the International Fire Code or any other provision of the City of Mesquite Code of Ordinances ("City Code") and applicable Federal or State law, Federal or State law shall control and the City Code shall be interpreted and applied accordingly.

Secs. 6-4 – 6-5. Reserved.

Sec. 6-6. Amendments to the International Fire Code, 2015 Edition.

The following amendments are made to the *International Fire Code*, 2015 Edition and all references in this Section 6-6 to the term "*International Fire Code*" shall be deemed to refer to the *International Fire Code*, 2015 Edition, as published by the I.C.C. and as adopted by Section 6-1 above and amended by this Section 6-6:

(1) **General Terms.**

- (a) **JURISDICTION.** All references to "*jurisdiction*" shall mean the City of Mesquite, Texas, located in the County of Dallas, the County of Kaufman and in the State of Texas.
- (b) **CITY.** All references to "*City*" shall mean the City of Mesquite, Texas located in the County of Dallas, the County of Kaufman and in the State of Texas.
- (c) **PERSON or PERSONS.** All references to "*person*" or "*persons*" as used herein shall mean and include every *person* as defined in Chapter 2, Section 202 of the *International Fire Code* and shall also include every "person" as defined in Chapter 1, Section 1-2 of the Code of the City of Mesquite, Texas, as amended.

(2) **Chapter 1, Scope and Administration.**

- (a) **Section 101.1.** Section 101.1 shall be amended by inserting the name “City of Mesquite, Texas” as the “Name of Jurisdiction” and accordingly, Section 101.1 shall be amended to read as follows:

101.1 Title. These regulations shall be known as the *Fire Code* of the City of Mesquite, Texas, hereinafter referred to as “this code.”

- (b) **Section 102.1.** Section 102.1 shall be amended by deleting #3 in its entirety and adding a new #3 to read as follows:

3. Existing structures, facilities and conditions when required in Chapter 11 or in specific sections of this code.

- (c) **Section 105.1.4.** Section 105 shall be amended by adding a new Section 105.1.4 to read as follows:

105.1.4 Permit fees. A *permit* fee is required before 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. **Aboveground storage tanks.** The installation, removal, addition to or alteration of aboveground 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*.

10. **Electronic access control systems.** To install new or alter existing electronic access control systems.
11. **Fire hydrant flow test.** To conduct a fire hydrant flow test.
12. **Speed reducing devices.** The installation, addition to or alteration of speed reducing devices.

Exception: *Permit* fees shall not be required on work on any building or structure, the title to which is directly vested in the federal government, state, county, city or a public school district.

- (d) **Section 105.1.5.** Section 105 shall be amended by adding a new Section 105.1.5 to read as follows:

105.1.5 Permit, inspection, investigation and outside review fee schedule. All fees required in this section must be paid before the permit application is considered complete and before any inspection, re-inspection, investigation or outside review begins. All permitted systems and items shall be pre-tested by or at the direction of the permit holder before an inspection is scheduled.

1. **General permit fee schedule.** The following *permit* fee schedule applies to a permit for the installation, addition to or alteration of the following:

a. **Fire sprinkler systems:**

1 – 19 heads	\$150.00
20 – 100 heads	\$200.00
100 – 200 heads	\$250.00

Fire Sprinkler Systems exceeding 200 heads will be \$250.00 plus \$1.00 for each additional head.

b. **Fire alarm systems:**

1 – 10 devices	\$150.00
11 – 25 devices	\$200.00
26 – 100 devices	\$250.00

Fire Alarm Systems exceeding 100 devices shall be \$250.00 plus \$1.00 for each additional device.

c. **Fire suppression systems:** \$100.00 per system.

d. **Underground or aboveground storage tanks** (does not include temporary tanks or residential propane):

- i. \$150.00 per tank for installation of or removal of underground tanks.
 - ii. \$150.00 for the *permit* and inspection of underground piping.
 - e. **Access control gates** (across a *fire lane*). The installation of or alteration of an access control gate across a *fire lane* or access road shall be \$100.00 per gate.
 - f. **Open burning/trench burning.**
 - i. \$100.00 per day.
 - ii. A *permit* fee is not required for a campfire, flag retirement ceremony or similar event.
 - g. **Use of explosive materials; fireworks; pyrotechnics.** \$100.00.
 - h. **Electronic access control systems.**
 - i. If connected to a fire alarm control unit, \$100.00 is required for a permit
 - ii. If not connected to a fire alarm control unit, \$50.00 is required.
 - i. **Fire hydrant flow test.**
 - i. For the initial test, \$50.00.
 - ii. For each subsequent test, \$25.00.
 - j. **Speed reducing device installation inspection.** \$100.00 for each intersection of a speed-reducing device with a fire apparatus access road.
- 2. **Permit fees for temporary aboveground tanks.** A fee of \$50.00 is required for the following *permits*:
 - a. Temporary aboveground tanks to include:
 - i. Propane exchange stations.
 - ii. Residential propane.
 - iii. Temporary tank at a construction site.

3. **Re-inspection fee.**
 - a. \$75.00 per re-inspection for the first three re-inspections.
 - b. \$100.00 for each re-inspection after the first three.
 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, is required whether or not a *permit* is subsequently issued. The payment of the 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 \$2,000.00.
 5. **Third party review fee.** A third party review process shall be used for *permit* submittals with fire system technology not normally permitted. An impartial third party shall be selected by the *fire code official* and have extensive experience and knowledge in the field to be reviewed. A third party review fee is required in addition to the *permit* fee. 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 are available. The fee for such inspections shall be \$100.00 per hour per inspector with a two-hour minimum per inspector.
 7. **Certificate of Occupancy Inspections.** Any occupancy requiring an inspection shall be charged a re-inspection fee of \$75.00 for each re-inspection after the first inspection.
 8. **Inspections not part of the permitting process.** An occupancy inspection not part of the permitting process shall be charged a \$75.00 re-inspection fee after the first re-inspection and for each subsequent re-inspection.
- (e) **Section 105.3.3.** Section 105.3.3 shall be amended by deleting Section 105.3.3 in its entirety and adding a new Section 105.3.3 to read as follows:

105.3.3 Occupancy prohibited before approval. The building or structure shall not be occupied prior to the *fire code official* issuing a *permit* when

required and conducting associated inspections indicating the applicable provisions of this code have been met.

- (f) **Section 105.7.19.** Section 105 shall be amended by adding a new Section 105.7.19 to read as follows:

105.7.19 Electronic access control systems. Construction *permits* are required for the installation or modification of an electronic access control system, as specified in Chapter 10 of the International Fire Code, 2015 Edition. A separate construction *permit* is required for the installation or modification of a fire alarm system that may be connected to the access control system. Maintenance performed in accordance with this code is not considered a modification and does not require a *permit*.

- (g) **Section 108.** Section 108 shall be amended by deleting Section 108 in its entirety and adding a new Section 108 to read as follows:

108.1 Section 5-25, “Building Standards Board,” of Chapter 5, “Building and Construction” applies to and is incorporated into this chapter as if fully set out herein. The Building Standards Board shall have all the powers set forth in Section 5-25 including, but not be limited to:

1. Hearing all appeals of orders, decisions or determinations made by the *fire code official* relative to the application and interpretation of this code;
2. Reviewing, taking comment on and submitting recommendations to the City Council on the proposed adoption of or amendment to a national model code; and
3. Conducting hearings to determine whether a dilapidated, substandard or dangerous building complies with minimum standards and whether the building should be vacated, secured, repaired, removed or demolished.

- (h) **Section 109.3.** Section 109.3 shall be amended by deleting Section 109.3 in its entirety and adding a new Section 109.3 to read as follows:

109.3 Violation Penalties. Any *person* who shall violate a provision of this code or shall fail to comply with any of the requirements of this code or who shall erect, install, alter, repair or do work in violation of the *approved construction documents* or directive of the *fire code official*, or of a permit or certificate used under provisions of this code, shall be guilty of a Class C Misdemeanor and upon conviction, shall be subject to a fine not to exceed Two Thousand and No/100 Dollars (\$2,000.00) for each offense, provided, however, if the maximum penalty provided for by this code for an offense is greater than the maximum penalty provided for the same offense under the laws of the State of Texas, the maximum penalty for violation of this code for such offense shall be the maximum penalty provided by the laws

of the State of Texas. Each day or portion of a day any violation of this code continues shall constitute a separate offense.

- (i) **Section 111.4.** Section 111.4 shall be amended by deleting Section 111.4 in its entirety and adding a new Section 111.4 to read as follows:

111.4 Failure to comply. Any *person* who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine upon conviction not to exceed Two Thousand and No/100 Dollars (\$2,000.00) for each offense, provided, however, if the maximum penalty provided for by this code for disobeying a stop work order is greater than the maximum penalty provided for the same offense under the laws of the State of Texas, the maximum penalty for violation of this code for disobeying a stop work order shall be the maximum penalty provided by the laws of the State of Texas. Each day or portion of a day any violation of this code continues shall constitute a separate offense.

(3) **Chapter 2, Definitions.**

- (a) **Section 202.** Section 202 shall be amended by deleting the definitions of “*ambulatory health care facility*”, “*atrium*”, “*fire watch*”, “*high-rise building*”, and “*repair garage*” in their entirety and replacing them with the definitions set forth below. Deleting the first paragraph of “*fireworks*” in its entirety and adding a new first paragraph to “*fireworks*”. Add a second paragraph to the definition of “*high-piled combustible storage*”. Adding definitions for “*defend in place*”, “*self-service storage facility*”, “*standby personnel*”, and “*upgraded or replaced fire alarm system*” as new definitions to the existing list of definitions in Section 202 to read as follows:

1. **AMBULATORY HEALTH CARE FACILITY.** Buildings or portions thereof used to provide medical, surgical, psychiatric, nursing, or similar care on a less than 24-hour basis to persons who are rendered incapable of self-preservation by the services provided. This group may include but not be limited to the following:
 - Dialysis centers
 - Procedures involving sedation
 - Sedation dentistry
 - Surgery centers
 - Colonic centers
 - Psychiatric centers

2. **ATRUIM.** An opening connecting three or more stories other than enclosed *stairways*, elevators, hoistways, escalators, plumbing, electrical, air-conditioning or other equipment, which is closed at the top and not defined as a mall. Stories, as used in this definition, do not include balconies within assembly groups or mezzanines that comply with Section 505 of the *International Building Code*.
3. **DEFEND IN PLACE.** A method of emergency response that engages building components and trained staff to provide occupant safety during an emergency. Emergency response involves remaining in place, relocating within the building, or both, without evacuating the building.
4. **FIRE WATCH.** A temporary measure intended to ensure continuous and systematic surveillance of a building or portion thereof by one or more qualified individuals or *standby personnel* when required by the *fire code official*, for the purposes of identifying and controlling fire hazards, detecting early signs of unwanted fire, raising an alarm of fire and notifying the fire department.
5. **FIREWORKS.** Any composition or device for the purpose of producing a visible or an audible effect for entertainment purposes by combustion, deflagration, detonation, and/or activated by ignition with a match or other heat-producing device that meets the definition of 1.4G fireworks or 1.3G fireworks as set forth herein.

The definitions for fireworks 1.4G and fireworks 1.3G remain unchanged.

6. **HIGH-PILED COMBUSTIBLE STORAGE.** Any building classified as a group S Occupancy or Speculative Building exceeding 6,000 sq. ft. that has a clear height in excess of 14 feet, making it possible to be used for storage in excess of 12 feet, shall be considered to be high-piled storage. When a specific product cannot be identified, a fire protection system and life safety features shall be installed as for Class IV commodities, to the maximum pile height.
7. **HIGH-RISE BUILDING.** A building with an occupied floor located more than 55 feet above the lowest level of fire department vehicle access.
8. **REPAIR GARAGE.** A building, structure or portion thereof used for servicing or repairing motor vehicles. This occupancy shall also include garages involved in minor repair, modification and servicing of motor vehicles for items such as lube changes, inspections, windshield repair or replacement, shocks, minor part replacement, and other such minor repairs.

9. **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.
10. **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.
11. **UPGRADED OR REPLACED FIRE ALARM SYSTEM.** A fire alarm system that is upgraded or replaced includes, but is not limited to the following:
 - Replacing on single board or fire alarm control unit component with a newer model
 - Installing a new fire alarm control unit in addition to or in place of an existing one
 - Conversion from a horn system to an emergency voice/alarm communication system.
 - Conversion from a conventional system to one that utilizes addressable or analog devices

The following are not considered an upgrade or replacement:

- Firmware updates
- Software updates
- Replacing boards of the same model with chips utilizing the same or newer firmware

(4) **Chapter 3, General Requirements.**

- (a) **Section 307.1.1.** Section 307.1.1 shall be amended by deleting Section 307.1.1 in its entirety and adding a new Section 307.1.1 to read as follows:

307.1.1 Prohibited Open Burning. Open burning that is offensive or objectionable because of smoke emissions or when atmospheric conditions or local circumstances make such fires hazardous shall be prohibited.

The Exception set forth in Section 307.1.1 remain unchanged.

- (b) **Section 307.2.** Section 307.2 shall be amended by deleting Section 307.2 in its entirety and adding a new Section 307.2 to read as follows:

307.2 Permit Required. A *permit* shall be obtained from the *fire 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.

Examples of state or local law, or regulations referenced elsewhere in this section may include but not be limited to the following:

1. Texas Commission on Environmental Quality (TCEQ) guidelines and/or restrictions.
2. State, County or Local temporary or permanent bans on *open burning*.
3. Local written policies as established by the *fire code official*.

- (c) **Section 307.3.** Section 307.3 shall be amended by deleting the Section 307.3 in its entirety and adding a new first paragraph in Section 307.3 to read as follows:

307.3 Extinguishment Authority. The fire code official is authorized to order the extinguishment by the permit holder, another person responsible or the fire department of open burning that creates or adds to a hazardous or objectionable situation.

- (d) **Section 307.4.** Section 307.4 shall be amended by deleting the first paragraph of Section 307.4 in its entirety and adding a new first paragraph in Section 307.4 to read as follows:

307.4 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.

The Exceptions set forth in Section 307.4 remain unchanged.

- (e) **Section 307.4.3.** Section 307.4.3 shall be amended by deleting the Exception in its entirety and adding new Exceptions to Section 307.4.3 to read as follows:

Exceptions:

1. Portable outdoor fireplaces used at one- and two-family *dwelling*s.
2. Where buildings, balconies and decks are protected by an *approved automatic sprinkler system*.

- (f) **Section 307.4.4.** Section 307 shall be amended by adding Section 307.4.4 to read as follows:

307.4.4 Permanent Outdoor Firepit. Permanently installed outdoor firepits for recreational fire purposes shall not be installed within 10 feet of a structure or combustible material.

Exception: Permanently installed outdoor fireplaces constructed in accordance with the International Building Code.

- (g) **Section 307.4.5.** Section 307 shall be amended by adding Section 307.4.5 to read as follows:

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

- (h) **Section 307.5.** Section 307.5 shall be amended by deleting Section 307.5 in its entirety and adding a new Section 307.5 to read as follows:

307.5 Attendance *Open burning, trench burns, bonfires or recreational fires, and use of portable outdoor fireplaces* 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* on-site fire-extinguishing equipment such as dirt, sand, water barrel, garden hose or water truck, shall be available for immediate utilization.

- (i) **Section 308.1.4.** Section 308.1.4 shall be amended by deleting the first paragraph of Section 308.1.4 in its entirety and adding a new first paragraph in Section 308.1.4 to read as follows:

308.1.4 Open-flame Cooking Devices. Open-flame cooking devices, charcoal grills and other similar devices used for cooking shall not be located or used on combustible balconies, decks or within 10 feet of combustible construction.

- (j) **Section 308.1.6.2.** Section 308.1.6.2 shall be amended by deleting Exception #3 in its entirety and adding a new Exception #3 to Section 308.1.6.2 to read as follows:

Exception:

3. Torches or flame-producing devices in accordance with Section 308.1.3.

- (k) **Section 308.1.6.3.** Section 308.1.6.3 shall be amended by deleting Section 308.1.6.3 in its entirety and adding a new Section 308.1.6.3 to read as follows:

308.1.6.3 Sky Lanterns. A person shall not release or cause to be released an unmanned free-floating device containing an open flame or other heat source, such as but not limited to a sky lantern.

- (l) **Section 311.5.** Section 311.5 shall be amended by deleting the first paragraph of Section 311.5 in its entirety and adding a new first paragraph in Section 311.5 to read as follows:

311.5 Placards The *fire code official* is authorized to require marking of any vacant or abandoned buildings or structures determined to be unsafe pursuant to Section 110 of this code relating to structural or interior hazards, as required by Section 311.5.1 through 311.5.5.

Sections 311.5.1 through 311.5.5 remain unchanged.

(5) **Chapter 4, Emergency Planning and Preparedness.**

- (a) **Section 403.5.** Section 403.5 shall be amended by deleting the first paragraph of Section 403.5 in its entirety and adding a new first paragraph in Section 403.5 to read as follows:

403.5 Group E Occupancies. An approved fire safety and evacuation plan in accordance with Section 404 shall be prepared and maintained for Group E occupancies and for buildings containing both a Group E occupancy and an atrium. A diagram depicting two evacuation routes shall be posted in a conspicuous location in each classroom. Group E occupancies shall also comply with Sections 403.5.1 through 403.5.3.

- (b) **Section 404.2.2.** Section 404 shall be amended by adding a new Item 4.10 to read as follows:

4.10. Fire extinguishing system controls.

- (c) **Section 405.4.** Section 405.4 shall be amended by deleting Section 405.4 in its entirety and adding a new Section 405.4 to read as follows:

405.4 Time. The *fire code official* may require an evacuation drill at any time. Drills shall be held at unexpected times and under varying conditions to simulate the unusual conditions that occur in case of fire.

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

- (a) **Section 501.4.** Section 501.4 shall be amended by deleting Section 501.4 in its entirety and adding a new Section 501.4 to read as follows:

501.4 Timing of installation. When *fire apparatus access roads* or a water supply for fire protection is required to be installed for any structure or development, they shall be installed, tested, and *approved* prior to the time

of which construction has progressed beyond completion of the foundation of any structure.

- (b) **Section 503.1.1.** Section 503.1.1 shall be amended by adding two sentences at the end of the first paragraph of Section 503.1.1 to read as follows:

Except for one- or two-family *dwelling*s, the path of measurement shall be along a minimum of a ten feet (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 *fire code official* and only upon a showing that adequate fire protection will not be compromised.

- (c) **Section 503.2.1.** Section 503.2.1 shall be amended by deleting Section 503.2.1 in its entirety and adding a new Section 503.2.1 to read as follows:

503.2.1 Dimensions. *Fire apparatus access roads* shall have an unobstructed width of not less than 24 feet, exclusive of shoulders, except for *approved* security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 14 feet.

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*.

- (d) **Section 503.2.2.** Section 503.2.2 shall be amended by deleting Section 503.2.2 in its entirety and adding a new Section 503.2.2 to read as follows:

503.2.2 Authority. The *fire 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.

- (e) **Section 503.2.3.** Section 503.2.3 shall be amended by deleting Section 503.2.3 in its entirety and adding a new Section 503.2.3 to read as follows:

503.2.3 Surface. *Fire apparatus access roads* shall be designed and maintained to support imposed loads of 80,000 pounds for fire apparatus and shall be surfaced so as to provide all-weather driving capabilities.

- (f) **Section 503.3.** Section 503.3 shall be amended by deleting Section 503.3 in its entirety and adding a new Section 503.3 to read as follows:

503.3 Marking. Striping, signs, or other markings, when approved by the *fire code official*, shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. Striping, signs and other markings 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 continuously 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 25-foot 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 12 inches wide and 18 inches high. Signs shall be painted on a white background with letters and borders in red using not less than two-inch lettering. Signs shall be permanently affixed to a stationary post and the bottom of the sign shall be six feet, six inches above finished grade. Signs shall be spaced not more than 50 feet apart along both sides of the *fire lane*. Signs may be installed on permanent buildings or walls or as *approved* by the *Fire Chief*.

- (g) **Section 503.4.** Section 503.4 shall be amended by deleting the first paragraph of Section 503.4 in its entirety and adding a new first paragraph to Section 503.4 to read as follows:

503.4 Obstruction of fire apparatus access roads. *Fire apparatus access roads* shall not be obstructed in any manner, including the parking 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.

- (h) **Section 503.4.1.** Section 503 shall be amended by deleting Section 503.4.1 in its entirety and adding new Sections 503.4.1 and 503.4.2 to read as follows:

503.4.1. Traffic calming devices. Traffic calming devices, except for those designed specifically to accommodate fire apparatus turning movements and which maintain a clear lane width of at least 11 feet, shall be prohibited unless approved by the Fire Code Official.

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

- (i) **Section 503.6.** Section 503.6 shall be amended by adding the following text at the end of Section 503.6 to read as follows:

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.

- (j) **Section 505.1.** Section 505.1 shall be amended by deleting Section 505.1 in its entirety and adding a new Section 505.1 to read as follows:

505.1 Address identification. New and existing buildings shall be provided with *approved* address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 6 inches high with a minimum stroke width of 1/2 inch. Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road, buildings do not immediately front a street, and/or the building cannot be viewed from the public way, a monument, pole or other sign with approved 6-inch height building numerals or addresses and 4-inch height suite/apartment numerals of a color contrasting with the background of the building or other approved means shall be used to identify the structure. Numerals or addresses shall be posted on a minimum 20-inch by 30-inch background on border. Address identification shall be maintained.

Exception: R-3 Single Family occupancies shall have *approved* numerals of a minimum 3½ inches in height and a color contrasting with the background clearly visible and legible from the street fronting the property and rear alleyway where such alleyway exists.

- (k) **Section 506.1.3.** Section 506 shall be amended by adding a new Section 506.1.3 to read as follows:

506.1.3 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.

- (l) **Section 507.4.** Section 507.4 shall be amended by deleting Section 507.4 in its entirety and adding a new Section 507.4 to read as follows:

507.4 Water supply test date and information. The water supply test used for hydraulic calculation of fire protection systems shall be conducted in accordance with NFPA 291 “Recommended Practice for Fire Flow Testing and Marking of Hydrants” and within one year of sprinkler plan submittal. The *fire code official* shall be notified prior to the water supply test. Water supply tests shall be witnessed by the *fire code official*, as required. The exact location of the static/residual hydrant and the flow hydrant shall be indicated on the design drawings. All fire protection plan

submittals shall be accompanied by a hard copy of the waterflow test report, or as *approved* by the *fire code official*. The report must indicate the dominant water tank level at the time of the test and the maximum and minimum operating levels of the tank, as well, or identify applicable water supply fluctuation. The licensed contractor must then design the *fire protection system* based on this fluctuation information, as per the applicable referenced NFPA standard. Reference Section 903.3.5 for additional design requirements.

- (m) **Section 507.5.4.** Section 507.5.4 shall be amended by deleting Section 507.5.4 in its entirety and adding a new Section 507.5.4 to read as follows:

507.5.4 Obstruction. Unobstructed access to fire hydrants shall be maintained at all times. Posts, fences, vehicles, growth, trash, storage and other materials or objects shall not be placed or kept near fire hydrants, fire department inlet connections or *fire protection system* control valves in a manner that would prevent such equipment or fire hydrants from being immediately discernible. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants.

- (n) **Section 509.1.2.** Section 509 shall be amended by adding a new Section 509.1.2 to read as follows:

509.1.2 Sign requirements. Unless more stringent requirements apply, lettering for signs required by this section shall have a minimum height of two (2) inches when located inside a building and four (4) inches when located outside, or as *approved* by the *fire code official*. The letters shall be of a color that contrasts with the background.

(7) **Chapter 6, Building Services and Systems.**

- (a) **Section 603.3.2.1.** Section 603.3.2.1 shall be amended by deleting the Exception set forth in Section 603.3.2.1. in its entirety and replacing it with an Exception that reads as follows:

Exception: The aggregate capacity limit shall be permitted to be increased to 3,000 gallons (11,356 L) in accordance with all requirements of Chapter 57.

- (b) **Section 603.3.2.2.** Section 603.3.2.2 shall be amended by deleting Section 603.3.2.2 in its entirety and adding a new Section 603.3.2.2 to read as follows:

603.3.2.2 Restricted use and connection. Tanks installed in accordance with Section 603.3.2 shall be used only to supply fuel oil to fuel-burning equipment installed in accordance with Section 603.3.2.4. Connections between tanks and equipment supplied by such tanks shall be made using closed piping systems.

- (c) **Section 604.1.2.** Section 604.1.2 shall be amended by deleting Section 604.1.2 in its entirety and adding a new Section 604.1.2 to read as follows:

604.1.2 Installation. Emergency power systems and standby power systems shall be installed in accordance with the International Building Code, NFPA 70, NFPA 110 and NFPA 111. Existing installations shall be maintained in accordance with the original approval, except as specified in Chapter 11.

- (d) **Section 604.1.9.** Section 604 shall be amended by adding a new Section 604.1.9 to read as follows:

604.1.9 Critical Operations Power Systems (COPS). For Critical Operations Power Systems necessary to maintain continuous power supply to facilities or parts of facilities that require continuous operation for the reasons of public safety, emergency management, national security, or business continuity, see NFPA 70.

- (e) **Section 604.2.** Section 604.2 shall be amended by deleting the first paragraph of Section 604.2 in its entirety and adding a new first paragraph in Section 604.2 to read as follows:

604.2. Where Required. Emergency and standby power systems shall be provided where required by Sections 604.2.1 through 604.2.24 or elsewhere identified in this code or any other referenced code.

- (f) **Section 604.2.4.** Section 604.2.4 shall be amended by deleting Section 604.2.4 in its entirety and adding a new Section 604.2.4 to read as follows:

604.2.4. Emergency Voice/Alarm Communications Systems. Emergency power shall be provided for emergency voice/alarm communications systems in the following occupancies, or as specified elsewhere in this code, as required in Section 907.5.2.2.5. The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.

Covered and Open Malls, Section 907.2.20 and 914.2.3
Group A Occupancies, Sections 907.2.1 and 907.5.2.2.4
Special Amusement Buildings, Section 907.2.12.3
High-rise Buildings, Section 907.2.13
Atriums, Section 907.2.14
Deep Underground Buildings, Section 907.2.19

- (g) **Section 604.2.12.** Section 604.2.12 shall be amended by deleting Section 604.2.12 in its entirety and adding a new Section 604.2.12 to read as follows:

604.2.12. Means of Egress Illumination. Emergency power shall be provided for means of egress illumination in accordance with Sections 1008.3 and 1104.5.1. (90 minutes)

- (h) **Section 604.2.13.** Section 604.2.13 shall be amended by deleting Section 604.2.13 in its entirety and adding a new Section 604.2.13 to read as follows:

604.2.13. Membrane Structures. Emergency power shall be provided for exit signs in temporary tents and membrane structures in accordance with Section 3103.12.6.1 for 90 minutes. Standby power shall be provided for auxiliary inflation systems in permanent membrane structures in accordance with Section 2702 of the International Building Code (at least 4 hours). Auxiliary inflation systems shall be provided in temporary air-supported and air-inflated membrane structures in accordance with Section 3103.10.4.

- (i) **Section 604.2.15.** Section 604.2.15 shall be amended by deleting Section 604.2.15 in its entirety and adding a new Section 604.2.15 to read as follows:

604.2.15. Smoke Control Systems. Standby power shall be provided for smoke control systems in the following occupancies, or as specified elsewhere in this code, as required in Section 909.11:

Covered Mall Building, International Building Code, Section 402.7
Atriums, International Building Code, Section 404.7
Underground Buildings, International Building Code, Section 405.8
Group I-3, International Building Code, Section 408.4.2
Stages, International Building Code, Section 410.3.7.2
Special Amusement Buildings (as applicable to Group A's),
International Building Code, Section 411.1
Smoke Protected Seating, Section 1029.6.2.1

- (j) **Section 604.2.17.** Section 604 shall be amended by adding a new Section 604.2.17 to read as follows:

604.2.17. Covered and Open Mall Buildings. Emergency power shall be provided in accordance with Section 907.2.20 and 914.2.3.

- (k) **Section 604.2.18.** Section 604 shall be amended by adding a new Section 604.2.18 to read as follows:

604.2.19. Airport Traffic Control Towers. A standby power system shall be provided in airport traffic control towers more than 65 feet in height. Power shall be provided to the following equipment:

1. Pressurization equipment, mechanical equipment and lighting.

2. Elevator operating equipment.
3. Fire alarm and smoke detection systems.

- (l) **Section 604.2.19.** Section 604 shall be amended by adding a new Section 604.2.19 to read as follows:

604.2.19. Smokeproof Enclosures and Stair Pressurization Alternative. Standby power shall be provided for smokeproof enclosures, stair pressurization alternative and associated automatic fire detection systems as required by the International Building Code, Section 909.20.6.2.

- (m) **Section 604.2.20.** Section 604 shall be amended by adding a new Section 604.2.20 to read as follows:

604.2.20. Elevator Pressurization. Standby power shall be provided for elevator pressurization system as required by the International Building Code, Section 909.21.5.

- (n) **Section 604.2.21.** Section 604 shall be amended by adding a new Section 604.2.21 to read as follows:

Section 604.2.21. Elimination of Smoke Dampers in Shaft Penetrations. Standby power shall be provided when eliminating the smoke dampers in ducts penetrating shafts in accordance with the International Building Code, Section 717.5.3, exception 2.3.

- (o) **Section 604.2.22.** Section 604 shall be amended by adding a new Section 604.2.22 to read as follows:

604.2.22. Common Exhaust Systems for Clothes Dryers. Standby power shall be provided for common exhaust systems for clothes dryers located in multistory structures in accordance with the International Mechanical Code, Section 504.10, Item 7.

- (p) **Section 604.2.23.** Section 604 shall be amended by adding a new Section 604.2.23 to read as follows:

604.2.23. Hydrogen Cutoff Rooms. Standby power shall be provided for mechanical ventilation and gas detection systems of Hydrogen Cutoff Rooms in accordance with the International Building Code, Section 421.8.

- (q) **Section 604.2.24.** Section 604 shall be amended by adding a new Section 604.2.24 to read as follows:

604.2.24. Means of Egress Illumination in Existing Building. Emergency power shall be provided for means of egress illumination in

accordance with Section 1104.5 when required by the *fire code official* (90 minutes in I-2, 60 minutes elsewhere).

- (r) **Section 604.8.** Section 604 shall be amended by adding a new Section 604.8 to read as follows:

604.8. Energy Time Duration. Unless a time limit is specified by the *fire code official*, in this chapter or elsewhere in this code, or in any other referenced code or standard, the emergency and standby power system shall be supplied with enough fuel or energy storage capacity for not less than 2-hour full-demand operation of the system.

Exception: Where the system is supplied with natural gas from a utility provider and is approved by the fire code official.

- (s) **Section 609.2.** Section 609.2 shall be amended by deleting Section 609.2 in its entirety and adding a new Section 609.2 to read as follows:

609.2. Where Required. A Type I hood shall be installed at or above all commercial cooking appliances and domestic cooking appliances used for commercial purposes that produce grease vapors, including but not limited to cooking equipment used in fixed, mobile, or temporary concessions, such as trucks, buses, trailers, pavilions, or any form of roofed enclosure, as required by the *fire code official*.

Exceptions:

1. Tents, as provided for in Chapter 31.
2. A Type I hood shall not be required for an electric cooking appliance if the applicant provides documentation from an *approved* testing agency showing that the appliance effluent contains 5 mg/m³ or less of grease when tested at an exhaust flow rate of 500 cfm in accordance with UL 710B.

Additionally, fuel gas and power provided for such cooking appliances shall be interlocked with the extinguishing system, as required by Section 904.12.2. Fuel gas containers and piping/hose shall be properly maintained in good working order and in accordance with all applicable regulations.

(8) **Chapter 7, Fire-Resistance-Rated Construction.**

- (a) **Section 704.1.** Section 704.1 shall be amended by deleting Section 704.1 in its entirety and adding a new Section 704.1 to read as follows:

704.1 Enclosure. Interior vertical shafts including, but not limited to, *stairways*, elevator hoistways, service and utility shafts, that connect two or more stories of a building shall be enclosed or protected in accordance with the codes in effect at the time of construction but, regardless of when

constructed, not less than as required in Chapter 11. New floor openings in existing buildings shall comply with the *International Building Code*.

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

- (a) **Section 807.3 Combustible Decorative Materials.** Section 807.3 shall be amended by deleting the first paragraph of Section 807.3 in its entirety and adding a new first paragraph in Section 807.3 to read as follows:

807.3 Combustible Decorative Materials. In occupancies in Group A, E, I, and R-1, and dormitories in Group R-2, curtains, draperies, fabric hangings and other similar combustible decorative materials suspended from walls or ceilings shall comply with Section 807.4 and shall not exceed 10 percent of the specific wall or ceiling area to which they are attached.

- (b) **Section 807.5.2.2.** Section 807.5.2.2 shall be amended by deleting Section 807.5.2.2 in its entirety and adding a new Section 807.5.2.2 to read as follows:

807.5.2.2 Artwork in Corridors. Artwork and teaching materials shall be limited on the walls of *corridors* to not more than 20 percent of the wall area. Such materials shall not be continuous from floor to ceiling or wall to wall. Curtains, draperies, wall hangings and other *decorative material* suspended from the walls or ceilings shall meet the flame propagation performance criteria of NFPA 701 in accordance with Section 807 or be noncombustible.

Exception: *Corridors* protected by an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 shall be limited to 50 percent of the wall area.

- (c) **Section 807.5.2.3.** Section 807.5.2.3 shall be amended by deleting Section 807.5.2.3 in its entirety and adding a new Section 807.5.2.3 to read as follows:

807.5.2.3 Artwork in Classrooms. Artwork and teaching materials shall be limited on the walls of classrooms to not more than 50 percent of the specific wall area to which they are attached. Curtains, draperies, wall hangings and other *decorative material* suspended from the walls or ceilings shall meet the flame propagation performance criteria of NFPA 701 in accordance with Section 807 or be noncombustible.

- (d) **Section 807.5.5.2.** Section 807.5.5.2 shall be amended by deleting Section 807.5.5.2 in its entirety and adding a new Section 807.5.5.2 to read as follows:

807.5.5.2 Artwork in Corridors. Artwork and teaching materials shall be limited on the walls of *corridors* to not more than 20 percent of the wall

area. Such materials shall not be continuous from floor to ceiling or wall to wall. Curtains, draperies, wall hangings and other *decorative material* suspended from the walls or ceilings shall meet the flame propagation performance criteria of NFPA 701 in accordance with Section 807 or be noncombustible.

Exception: *Corridors* protected by an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 shall be limited to 50 percent of the wall area.

- (e) **Section 807.5.5.3.** Section 807.5.5.3 shall be amended by deleting Section 807.5.5.3 in its entirety and adding a new Section 807.5.5.3 to read as follows:

807.5.5.3 Artwork in Classrooms. Artwork and teaching materials shall be limited on the walls of classrooms to not more than 50 percent of the specific wall area to which they are attached. Curtains, draperies, wall hangings and other *decorative material* suspended from the walls or ceilings shall meet the flame propagation performance criteria of NFPA 701 in accordance with Section 807 or be noncombustible.

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

- (a) **Section 901.6.1.1.** Section 901 shall be amended by adding a new Section 901.6.1.1 to read as follows:

901.6.1.1 Standpipe Testing. Building *owners/managers* must maintain and test standpipe systems as per NFPA 25 requirements. The following additional requirements shall be applied to the testing that is required every five years:

1. The piping between the Fire Department Connection (FDC) and the standpipe shall be backflushed when foreign material is present, and also hydrostatically tested for all FDCs on any type of standpipe system. Hydrostatic testing shall also be conducted in accordance with NFPA 25 requirements for the different types of standpipe systems.
2. For any manual (dry or wet) standpipe system not having an automatic water supply capable of flowing water through the standpipe, the tester shall connect hose from a fire hydrant or portable pumping system (as approved by the fire code official) to each FDC, and flow water through the standpipe system to the roof outlet to verify that each inlet connection functions properly. Confirm that there are no open hose valves prior to introducing water into a dry standpipe. There are no required pressure criteria at the outlet. Verify that check valves function properly and that there are no closed control valves on the system.

3. Any pressure relief, reducing, or control valves shall be tested in accordance with the requirements of NFPA 25. All hose valves shall be exercised.
 4. If the FDC is not already provided with *approved caps*, the contractor shall install such caps for all FDCs as required by the *fire code official*.
 5. Upon successful completion of standpipe test, place a blue tag (as per Texas Administrative Code, Fire Sprinkler Rules for Inspection, Test and Maintenance Service (ITM) Tag) at the bottom of each standpipe riser in the building. The tag shall be check-marked as "Fifth Year" for Type of ITM, and the note on the back of the tag shall read "5 Year Standpipe Test" at a minimum.
 6. The procedures required by Texas Administrative Code Fire Sprinkler Rules with regard to Yellow Tags and Red Tags or any deficiencies noted during the testing, including the required notification of the local authority having jurisdiction (*fire code official*) shall be followed.
 7. Additionally, records of the testing shall be maintained by the *owner* and contractor, if applicable, as required by the State Rules mentioned above and NFPA 25.
 8. Standpipe system tests where water will be flowed external to the building shall not be conducted during freezing conditions or during the day prior to expected night time freezing conditions.
 9. Contact the *fire code official* for requests to remove existing fire hose from Class II and III standpipe systems where employees are not trained in the utilization of this firefighting equipment. All standpipe hose valves must remain in place and be provided with an *approved cap* and chain when approval is given to remove hose by the *fire code official*.
- (b) **Section 901.6.3.** Section 901 shall be amended by adding a new Section 901.6.3 to read as follows:
- 901.6.3 False Alarms and Nuisance Alarms.** False alarms and nuisance alarms shall not be given, signaled or transmitted or caused or permitted to be given, signaled or transmitted in any manner.
- (c) **Section 901.7.** Section 901.7 shall be amended by deleting the first paragraph of Section 901.7 in its entirety and adding a new first paragraph in Section 901.7 to read as follows:

901.7 Systems out of service. Where a required *fire protection system* is out of service or in the event of an excessive number of activations, the Fire Department and the *fire code official* shall be notified immediately and, where required by the *fire code official*, the building shall either be evacuated or an *approved fire watch* shall be provided for all occupants left unprotected by the shutdown until the *fire protection system* has been returned to service.

- (d) **Section 901.8.2.** Section 901.8.2 shall be amended by deleting Section 901.8.2 in its entirety and adding a new Section 901.8.2 to read as follows:

901.8.2 Removal of Occupant-use Hose Lines. The *fire code official* is authorized to permit the removal of occupant-use hose lines and hose valves where all of the following conditions exist:

1. The hose line(s) would not be utilized by trained personnel or the fire department.
2. If the occupant-use hose lines are removed, but the hose valves are required to remain as per the *fire code official*, the hose valves shall be compatible with local fire department fittings.

- (e) **Section 903.1.1.** Section 903.1.1 shall be amended by deleting Section 903.1.1 in its entirety and adding a new Section 903.1.1 to read as follows:

903.1.1 Alternative protection. Alternative automatic fire-extinguishing systems complying with Section 904 shall be permitted in addition to automatic sprinkler protection where recognized by the applicable standard, or as *approved* by the *fire code official*.

- (f) **Section 903.1.2.** Section 903 shall be amended by adding a new Section 903.1.2 to read as follows:

903.1.2 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. Sprinkler coverage of voids between floors as required by NFPA 13 may be omitted when replacing a NFPA 13R system.

- (g) **Section 903.2.** Section 903 shall be amended by adding a second paragraph to Section 903.2 to read as follows:

Automatic sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances. Storage shall not be allowed within the elevator machine room. Signage shall be provided at the entry doors to the elevator machine

room indicating “ELEVATOR MACHINERY – NO STORAGE ALLOWED.”

- (h) **Section 903.2.** Section 903.2 shall be amended by deleting the Exception in Section 903.2 in its entirety.

Sections 903.2.1 through 903.2.1.7 remain unchanged.

- (i) **Section 903.2.9.3.** Section 903 shall be amended by adding a new Section 903.2.9.3 to read as follows:

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

- (j) **Section 903.2.11.3.** Section 903.2.11.3 shall be amended by deleting Section 903.2.11.3, including the Exception set forth in Section 903.2.11.3, in their entirety and adding a new Section 903.2.11.3 to read as follows:

903.2.11.3 Buildings 35 feet or more in height. An *automatic sprinkler system* shall be installed throughout buildings that have one or more stories, other than penthouses in compliance with Section 1510 of the *International Building Code*, located 35 feet or more above the lowest level of fire department vehicle access, measured to the finished floor.

Exception: Open parking structures in compliance with Section 406.5 of the *International Building Code*, having no other occupancies above the subject garage.

- (k) **Section 903.2.11.7.** Section 903 shall be amended by adding a new Section 903.2.11.7 to read as follows:

903.2.11.7 High-piled combustible storage. For any buildings with a clear height exceeding 12 feet, see Chapter 32 to determine if those provisions apply.

- (l) **Section 903.2.11.8.** Section 903 shall be amended by adding a new Section 903.2.11.8 to read as follows:

903.2.11.8 Spray booths and rooms. New and existing spray booths and spraying rooms shall be protected by an *approved automatic fire-extinguishing system*.

- (m) **Section 903.2.11.9.** Section 903 shall be amended by adding a new Section 903.2.11.9 to read as follows:

903.2.11.9 Buildings over 6,000 square feet. An *automatic sprinkler system* shall be installed throughout all buildings with a building area over 6,000 square feet or greater and in all existing buildings that are enlarged to

be 6,000 square feet or greater. For the purpose of this provision, *fire walls* shall not define separate buildings.

Exception: *Open parking garages* in compliance with Section 406.5 of the *International Building Code* and aircraft hangars in compliance with Section 914.8 of the *International Fire Code*.

- (n) **Section 903.3.1.1.1.** Section 903.3.1.1.1 shall be amended by deleting Section 903.3.1.1.1 in its entirety and adding a new Section 903.3.1.1.1 to read as follows:

903.3.1.1.1 Exempt locations. When *approved* by the *fire code official*, 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 *fire 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 two hours.
4. Elevator machine rooms, machinery spaces, and hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances.

- (o) **Section 903.3.1.2.** Section 903.3.1.2 shall be amended by deleting Section 903.3.1.2 in its entirety and adding a new Section 903.3.1.2 to read as follows:

903.3.1.2 NFPA 13R sprinkler 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. Sprinkler coverage of voids between floors as required by NFPA 13 may be omitted when replacing a NFPA 13R system.

- (p) **Section 903.3.1.2.3** Section 903 shall be amended by adding a new Section 903.3.1.2.3 to read as follows:

903.3.1.2.3 Attics and Attached Garages. Sprinkler protection is required in attic spaces of such buildings two or more stories in height, in accordance with NFPA 13 and NFPA 13R requirements, and attached garages.

- (q) **Section 903.3.1.3.** Section 903.3.1.3 shall be amended by deleting Section 903.3.1.3 in its entirety and adding a new Section 903.3.1.3 to read as follows:

903.3.1.3 NFPA 13D sprinkler systems. *Automatic sprinkler systems* installed in one- and two-family *dwelling*s; Group R-3; Group R-4 Condition 1 and *townhouses* shall be permitted to be installed throughout in accordance with NFPA 13D or in accordance with state law.

- (r) **Section 903.3.1.4.** Section 903 shall be amended by adding a new Section 903.3.1.4 to read as follows:

903.3.1.4 Freeze protection. Freeze protection systems for automatic fire sprinkler systems shall be in accordance with the requirements of the applicable referenced NFPA standard and this section.

- (s) **Section 903.3.1.4.1.** Section 903 shall be amended by adding a new Section 903.3.1.4.1 to read as follows:

903.3.1.4.1 Attics. Only dry-pipe, preaction, or listed antifreeze automatic fire sprinkler systems shall be allowed to protect attic spaces.

Exception: Wet-pipe fire sprinkler systems shall be allowed to protect non-ventilated attic space where:

1. The attic sprinklers are supplied by a separate floor control valve assembly to allow ease of draining the attic system without impairing sprinklers throughout the rest of the building, and
 2. Adequate heat shall be provided for freeze protection as per the applicable referenced NFPA standard, and
 3. The attic space is a part of the building's thermal or heat envelope, such that insulation is provided at the roof deck, rather than at the ceiling level.
- (t) **Section 903.3.1.4.2.** Section 903 shall be amended by adding a new Section 903.3.1.4.2 to read as follows:

903.3.1.4.2 Heat trace/insulation. Heat trace/insulation shall only be allowed where approved by the *fire code official* for small sections of large diameter water-filled pipe.

- (u) **Section 903.3.5.** Section 903 shall be amended by adding the following text at the end of Section 903.3.5 to read as follows:

Water supply as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every water-based *fire protection system* shall be designed with a 10 psi safety factor. Reference Section 507.4 for additional design requirements.

- (v) **Section 903.4.** Section 903 shall be amended 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 the *sprinkler system* and shall cause an alarm upon detection of water flow for 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. Sprinkler systems in multi-story buildings shall be designed to identify a water flow for each floor and *attic*. A separate and distinct signal shall be transmitted to an *approved* central station, remote supervisory station or proprietary supervising station as defined in NFPA 72 to identify each floor and *attic* area.

- (w) **Section 903.4.2.** Section 903 shall be amended by adding a second paragraph to Section 903.4.2 to read as follows:

The alarm device required on the exterior of the building shall be a weatherproof horn/strobe notification appliance with a minimum 75 candela strobe rating, installed as close as practicable to the fire department connection.

- (x) **Section 905.2.** Section 905.2 shall be amended by deleting Section 905.2 in its entirety and adding a new Section 905.2 to read as follows:

905.2 Installation standards. Standpipe systems 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.

- (y) **Section 905.3.9.** Section 905 shall be amended by adding a new Section 905.3.9 to read as follows:

905.3.9 Building area 10,000 square feet. In buildings exceeding 10,000 square feet in area per story and where any portion of the building's interior area is more than 200 feet of travel, vertically and horizontally, from the nearest point of fire department vehicle access, Class I automatic wet or manual wet standpipes shall be provided.

Exceptions:

1. Automatic dry and semi-automatic dry standpipes are allowed as provided for in NFPA 14.
 2. R-2 occupancies of four stories or less in height having no interior corridors.
- (z) **Section 905.4.** Section 905.4 shall be amended by deleting Item #1 in its entirety and adding a new Item #1 to Section 905.4 to read as follows:
1. In every required exit stairway, a hose connection shall be provided for each story above and below grade plane. Hose connections shall be located at an intermediate landing between stories, unless otherwise approved by the *fire code official*.
- (aa) **Section 905.4.** Section 905.4 shall be amended by deleting Item #3 in its entirety and adding a new Item #3 to Section 905.4 to read as follows:
3. In every exit passageway, at the entrance from the exit passageway to other areas of a building.

Exception: Where floor areas adjacent to an exit passageway are reachable from an exit stairway hose connection by a 30-foot hose stream from a nozzle attached to 100 feet of hose, a hose connection shall not be required at the entrance from the exit passageway to other areas of the building.
- (bb) **Section 905.4.** Section 905.4 shall be amended by deleting Item #5 in its entirety and adding a new Item #5 to 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 to serve the roof or at the highest landing of an exit stairway with stair access to the roof provided in accordance with Section 1011.12.
- (cc) **Section 905.4.** Section 905 shall be amended by adding a new Item #7 to Section 905.4 to read as follows:
7. When required by this Chapter, standpipe connections shall be placed adjacent to all required *exits* to the structure and at two hundred feet (200') intervals along major *corridors* thereafter, or as otherwise approved by the *fire code official*.
- (dd) **Section 905.9.** Section 905 shall be amended by adding the following text 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 the *sprinkler system* and shall cause an alarm upon detection of water flow for 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. Sprinkler systems in multi-story buildings shall be designed to identify a water flow for each floor and *attic*. A separate and distinct signal shall be transmitted to an *approved* central station, remote supervisory station or proprietary supervising station as defined in NFPA 72 to identify each floor and *attic* area.

- (ee) **Section 907.1.4.** Section 907 shall be amended by adding a new Section 907.1.4 to read as follows:

907.1.4 Design standards. Where a new fire alarm system is installed, the devices shall be addressable. Fire alarm systems utilizing more than 20 smoke detectors shall have analog initiating devices.

- (ff) **Section 907.2.1.** Section 907.2.1 shall be amended by deleting Section 907.2.1 including the Exception stated therein in their entirety and adding a new Section 907.2.1 to read as follows:

907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with new Section 907.5 shall be installed in Group A occupancies having an *occupant load* of 300 or more persons or more than 100 persons above or below the lowest level of exit discharge. Group A occupancies not separated from one another in accordance with Section 707.3.-10 of the *International Building Code* shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

Exception: Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

Activation of fire alarm notification appliances shall:

1. Cause illumination of the *means of egress* with light of not less than one-foot candle (11 lux) at the walking surface level, and
2. Stop any conflicting or confusing sounds and visual distractions.

- (gg) **Section 907.2.3.** Section 907.2.3 shall be amended by deleting the first paragraph and Exception “1” in Section 907.2.3 in their entirety and adding

a new first paragraph and Exceptions “1” and “1.1” to Section 907.2.3 to read as follows:

907.2.3 Group E. A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 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 100 feet of 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.

Exceptions:

1. A manual fire alarm system is not required in Group E occupancies with an *occupant load* of 50 or less.
 - 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 2½ or less years of age, see Section 907.2.6.)

Exceptions 2, 3 and 4 remain unchanged.

- (hh) **Section 907.2.13.** Section 907.2.13 shall be amended by deleting Exception “3” in Section 907.2.13 in its entirety and adding a new Exception “3” in Section 907.2.13 to read as follows:

Exception:

3. Open air portions of buildings with an occupancy in Group A-5 in accordance with Section 303.1 of the *International Building Code*; however, this exception does not apply to accessory uses including but not limited to sky boxes, restaurants and similarly enclosed areas.
- (ii) **Section 907.4.2.7.** Section 907 shall be amended by adding a new Section 907.4.2.7 to read as follows:
- 907.4.2.7 Type.** Manual alarm initiating devices shall be an *approved* double-action type.
- (jj) **Section 907.6.1.1.** Section 907 shall be amended by adding a new Section 907.6.1.1 to read as follows:

907.6.1.1 Wiring Installation. All fire alarm systems shall be installed in such a manner that a failure of any single initiating device or single open in an initiating circuit conductor will not interfere with the normal operation of other such devices. All signaling line circuits (SLC) shall be installed in such a way that a single open will not interfere with the operation of any addressable devices (Class A). Outgoing and return SLC conductors shall be installed in accordance with NFPA 72 requirements for Class A circuits and shall have a minimum of four feet separation horizontal and one foot vertical between supply and return circuit conductors. The initiating device circuit (IDC) from a signaling line circuit interface device may be wired Class B, provided the distance from the interface device to the initiating device is ten feet or less.

- (kk) **Section 907.6.3.** Section 907.6.3 shall be amended by deleting all of the exceptions in their entirety.
- (ll) **Section 907.6.6.** Section 907.6.6 shall be amended by deleting the first paragraph of Section 907.6.6 in its entirety and adding a new paragraph in Section 907.6.6 to read as follows:

907.6.6 Monitoring. Fire alarm systems required by this chapter or by the *International Building Code* shall be monitored by an approved supervising station in accordance with NFPA 72. See 907.6.3 for the required information transmitted to the supervising station.

The Exceptions set forth in Section 907.6.6 remain unchanged.

- (mm) **Section 907.10.** Section 907 shall be amended by adding a new Section 907.10 to read as follows:

907.10. Storage Group S occupancies. All Storage Group S occupancies two- or more stories in height that are open to the general public shall have a manual fire alarm system.

- (nn) **Section 909.22.** Section 909 shall be amended by adding a new Section 909.22 to read as follows:

909.22. Stairway or Ramp Pressurization Alternative. Where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and the stair pressurization alternative is chosen for compliance with Building Code requirements for a smokeproof enclosure, interior exit stairways or ramps shall be pressurized to a minimum of 0.10 inches of water (25 Pa) and a maximum of 0.35 inches of water (87 Pa) in the shaft relative to the building measured with all interior exit stairway and ramp doors closed under maximum anticipated conditions of stack effect and wind effect. Such systems shall comply with Section 909, including the installation of a separate fire-fighter's smoke control panel as per Section 909.16, and a Smoke Control Permit shall be required from the fire department as per Section 105.7.

- (oo) **Section 909.22.1.** Section 909 shall be amended by adding a new Section 909.22.1 to read as follows:

909.22.1. Ventilating Equipment. The activation of ventilating equipment for the stair or ramp pressurization system shall be by smoke detectors installed at each floor level at an approved location at the entrance to the smokeproof enclosure. When the closing device for the stairway or ramp shaft and vestibule doors is activated by smoke detection or power failure, the mechanical equipment shall activate and operate at the required performance levels. Smoke detectors shall be installed in accordance with Section 907.3.

- (pp) **Section 909.22.1.1** Section 909 shall be amended by adding a new Section 909.22.1.1 to read as follows:

909.22.1.1 Ventilating Systems. The smokeproof enclosure ventilation systems shall be independent of other building ventilation systems. The equipment, control wiring, power wiring and ductwork shall comply with one of the following:

1. Equipment, control wiring, power wiring and ductwork shall be located exterior to the building and directly connected to the smokeproof enclosure or connected to the smokeproof enclosure by ductwork enclosed by not less than 2-hour fire barriers constructed in accordance with Section 707 of the Building Code or horizontal assemblies constructed in accordance with Section 711 of the Building Code, or both.
2. Equipment, control wiring, power wiring and ductwork shall be located within the smokeproof enclosure with intake or exhaust directly from and to the outside or through ductwork enclosed by not less than 2-hour barriers constructed in accordance with Section 707 of the Building Code or horizontal assemblies constructed in accordance with Section 711 of the Building Code, or both.
3. Equipment, control wiring, power wiring and ductwork shall be located within the building if separated from the remainder of the building, including other mechanical equipment, by not less than 2-hour fire barriers constructed in accordance with Section 707 of the Building Code or horizontal assemblies constructed in accordance with Section 711 of the Building Code, or both.

Exceptions:

1. Control wiring and power wiring utilizing a 2-hour rated cable or cable system.

2. Where encased with not less than 2 inches of concrete.
3. Control wiring and power wiring protected by a listed electrical circuit protective systems with a fire-resistance rating of not less than 2 hours.

(qq) **Section 909.22.1.2.** Section 909 shall be amended by adding a new Section 909.22.1.2 to read as follows

909.22.1.2 Standby Power. Mechanical vestibule and stairway and ramp shaft ventilation systems and automatic fire detection systems shall be provided with standby power in accordance with Section 2702 of the Building Code.

(rr) **Section 909.22.1.3.** Section 909 shall be amended by adding a new Section 909.22.1.3 to read as follows:

909.22.1.3 Acceptance and Testing. Before the mechanical equipment is approved, the system shall be tested in the presence of the *fire code official* to confirm that the system is operating in compliance with these requirements.

(ss) **Section 910.2.** Section 910.2 shall be amended by deleting the exceptions in their entirety and adding new Exceptions to Section 910.2 to read as follows:

Exceptions:

1. Frozen food warehouses used solely for storage of Class I and II commodities where protected by an approved automatic sprinkler system.
2. Only manual smoke and heat removal shall be required in areas of buildings equipped with early suppression fast-response (ESFR) sprinklers. Automatic smoke and heat removal is prohibited.
3. Only manual smoke and heat removal shall be required in areas of buildings equipped with control mode special application sprinklers with a response time index of $50(m*S)^{1/2}$ or less that are listed to control a fire in stored commodities with 12 or fewer sprinklers. Automatic smoke and heat removal is prohibited.

(tt) **Section 910.2.3.** Section 910 shall be amended by adding a new Section 910.2.3 to read as follows:

910.2.3 Group H. Buildings and portions thereof used as a Group H occupancy as follows:

1. In occupancies classified as Group H-2 or H-3, any of which are more than 15,000 square feet in single floor area.

Exception: Buildings of noncombustible construction containing only non-combustible materials.

2. In areas of buildings in Group H used for storing Class 2, 3 and 4 liquid and solid oxidizers, Class 1 and unclassified detonable organic peroxides, Class 3 and 4 unstable (reactive) materials, or Class 2 or 3 water-reactive materials as required for a high-hazard commodity classification.

Exception: Buildings of noncombustible construction containing only non-combustible materials.

- (uu) **Section 910.3.4.** Section 910 shall be amended by adding a new Section 910.3.4 to read as follows:

910.3.4 Vent Operation. Smoke and heat vents shall be capable of being operated by approved automatic and manual means. Automatic operation of smoke and heat vents shall conform to the provisions of Sections 910.3.2.1 through 910.3.2.3.

- (vv) **Section 910.3.4.1.** Section 910 shall be amended by adding a new Section 910.3.4.1 to read as follows:

910.3.4.1 Sprinklered Buildings. Where installed in buildings equipped with an *approved* automatic sprinkler system, smoke and heat vents shall be designed to operate automatically. The automatic operating mechanism of the smoke and heat vents shall operate at a temperature rating at least 100 degrees F (approximately 38 degrees Celsius) greater than the temperature rating of the sprinklers installed.

Exception: Manual only systems per Section 910.2.

- (ww) **Section 910.3.4.2.** Section 910 shall be amended by adding a new Section 910.3.4.2 to read as follows:

910.3.4.2 Nonsprinklered Buildings. Where installed in buildings not equipped with an *approved* automatic sprinkler system, smoke and heat vents shall operate automatically by actuation of a heat-responsive device rated at between 100°F (56°C) and 220°F (122°C) above ambient.

Exception: Listed gravity-operated drop out vents.

- (xx) **Section 910.4.3.1.** Section 910.4.3.1 shall be amended by deleting Section 910.4.3.1 in its entirety and adding a new Section 910.4.3.1 to read as follows:

910.4.3.1 Makeup Air. Makeup air openings shall be provided within 6 feet of the floor level. Operation of makeup air openings shall be automatic. The minimum gross area of makeup air inlets shall be 8 square feet per 1,000 cubic feet per minute of smoke exhaust.

- (yy) **Section 910.4.4.** Section 910.4.4 shall be amended by deleting Section 910.4.4 in its entirety and adding a new Section 910.4.4 to read as follows:

910.4.4 Activation. The mechanical smoke removal system shall be activated automatically by the automatic sprinkler system or by an approved fire detection system. Individual manual controls shall also be provided.

Exception: Manual only systems per Section 910.2.

- (zz) **Section 912.2.** Section 912 shall be amended by adding the following text to Section 912.2 to read as follows:

The fire department connection shall be located within 50 feet of a fire apparatus access road.

- (aaa) **Section 912.2.3.** Section 912 shall be amended by adding a new Section 912.2.3 to read as follows:

912.2.3 Hydrant Distance. An *approved* fire hydrant shall be located within 100 feet of the fire department connection as the fire hose lays along an unobstructed path.

- (bbb) **Section 913.2.1.** Section 913.2.1 shall be amended by adding a second paragraph and Exception to Section 913.2.1 to read as follows:

When located on the ground level at an exterior wall, the fire pump room shall be provided with an exterior fire department access door that is not less than three feet in width and six feet eight inches in height, regardless of any interior doors that are provided. A *key box* shall be provided at this door as required by Section 506.1.

Exception: When it is necessary to locate the fire pump room on other levels or not at an exterior wall, the *corridor* leading to the fire pump room access from the exterior of the building shall be provided with equivalent fire resistance as that required for the pump room, or as *approved* by the *fire code official*. Access keys shall be provided in the *key box* as required by Section 506.1.

- (ccc) **Section 914.3.1.2.** Section 914.3.1.2 shall be amended by deleting the first paragraph in Section 914.3.1.2 in its entirety and adding a new first paragraph to Section 914.3.1.2 to read as follows:

914.3.1.2. Water Supply to Required Fire Pumps. In buildings that are more than 120 feet in building height, required fire pumps shall be supplied by connections to no fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.

Exception remains unchanged.

(11) **Chapter 10, Means of Egress.**

- (a) **Section 1006.2.2.6.** Section 1006 shall be amended by adding a new Section 1006.2.2.6 to read as follows:

Section 1006.2.2.6 Electrical Rooms. For electrical rooms, special exiting requirements may apply. Reference the Electrical Code as adopted.

- (b) **Section 1009.1.** Section 1009 shall be amended by adding a new Exception #4 to Section 1009.1 to read as follows:

Exception:

4. Buildings regulated under State Law and built in accordance with State registered plans, including any variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of Section 1009.

- (c) **Section 1010.1.9.4.** Section 1010.1.9.4 shall be amended by deleting Exception #3 and Exception #4 in Section 1010.1.9.4 in their entirety and adding a new Exception #3 and Exception #4 in Section 1010.1.9.4 to read as follows:

Exceptions:

3. Where a pair of doors serves an *occupant load* of less than 50 persons in a Group B, F, M or S occupancy, manually operated edge- or surface-mount bolts are permitted on the inactive leaf. The inactive leaf shall not contain doorknobs, panic bars or similar operating hardware.
4. Where a pair of doors serves a Group A, B, F, M, or S occupancy, manually operated edge- or surface-mounted bolts are permitted on the inactive leaf provided such inactive leaf is not needed to meet egress capacity

requirements and the building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1. The inactive leaf shall not contain doorknobs, panic bars or similar operating hardware.

- (d) **Section 1015.8.** Section 1015.8 shall be amended by deleting Item #1 in its entirety and adding a new Item #1 to Section 1015.8 to read as follows:

1. Operable windows where the top of the sill of the opening is located more than 55 feet above the finished grade or other surface below and that are provided with window fall prevention devices that comply with ASTM F 2006.

- (e) **Section 1020.1.** Section 1020 shall be amended by adding an Exception “6” to Section 1020.1 to read as follows:

Exception:

6. In Group B occupancies, *corridor* walls and ceilings need not be of fire-resistive construction within a single tenant space when the space is equipped with *approved* automatic smoke-detection within the corridor. The actuation of any detector shall activate self-annunciating alarms audible in all areas within the *corridor*. Smoke detectors shall be connected to an approved automatic fire alarm system where such system is provided.

- (f) **Section 1029.1.1.1.** Section 1029.1.1.1 shall be amended by deleting Section 1029.1.1.1 in its entirety.

- (g) **Section 1031.2.** Section 1031.2 shall be amended by deleting the opening paragraph under Section 1031.2 in its entirety and adding a new opening paragraph under Section 1031.2 to read as follows:

1031.2 Reliability. Required *exit access*, *exits* and *exit discharges* shall be continuously maintained free from obstructions or impediments to full instant use in the case of the fire or other emergency. An exit or exit passageway shall not be used for any purpose that interferes with a means of egress.

(12) **Chapter 11, Construction Requirements for Existing Buildings.**

- (a) **Section 1103.3.** Section 1103 shall be amended by adding one sentence at the end of the first paragraph of Section 1103.3 to read as follows:

Provide emergency signage as required by Section 607.3.

- (b) **Section 1103.5.1.** Section 1103.5.1 shall be amended by deleting Section 1103.5.1 in its entirety and adding a new Section 1103.5.1 to read as follows:

1103.5.1 Spray Booths and Rooms. Existing spray booths and spray rooms shall be protected by an automatic fire-extinguishing system in accordance with Section 2404, as approved by the fire code official.

- (c) **Section 1103.7.8.** Section 1103 shall be amended by adding a new Section 1103.7.8 to read as follows:

1103.7.8 Fire Alarm System Design Standards. Where an existing fire alarm system is upgraded or replaced, the devices shall be addressable. Fire alarm systems utilizing more than 20 smoke and/or heat detectors shall have analog initiating devices.

Exception: Existing systems need not comply unless the total building, or fire alarm system, remodel or expansion exceeds 30 percent of the building. When cumulative building, or fire alarm system, remodel or expansion initiated after the date of original fire alarm panel installation exceeds 50 percent of the building, or fire alarm system, the fire alarm system must comply within 18 months of permit application.

- (d) **Section 1103.7.8.1.** Section 1103 shall be amended by adding a new Section 1103.7.8.1 to read as follows:

1103.7.8.1 Communication Requirements. Refer to Section 907.6.6 for applicable requirements.

- (e) **Section 1103.8.3.** Section 1103.8.3 shall be amended by deleting Section 1103.8.3 including the Exceptions stated in Section 1103.8.3 in their entirety and adding a new Section 1103.8.3 to read as follows:

1103.8.3 Power source. Single-station smoke alarms shall receive their primary power from the building wiring provided that such wiring is served from a commercial source and shall be equipped with a battery backup. Smoke alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection. Locations where smoke alarms are permitted to be solely battery operated shall utilize a lithium type battery or equivalent with a functional life expectancy of ten (10) years or more. All lithium battery or equivalent smoke alarms shall be one in which the battery is sealed within the smoke alarm and cannot be removed from the smoke alarm without damage to the smoke alarm. No damaged or inoperative smoke alarm shall meet the requirements of this section. Mass-market battery powered smoke alarms including those powered by 9 volt batteries or lithium batteries (or

equivalent) not sealed within the smoke alarm do not comply with the requirements of this section for required smoke alarms. Smoke alarms must be equipped with a hush feature. A permit for each smoke alarm permitted by this Section shall be required pursuant to Section 1101.3 of this code.

Exceptions:

1. Smoke alarms are permitted to be solely battery operated in existing buildings where construction is not taking place.
2. Smoke alarms are permitted to be solely battery operated in buildings that are not served from a commercial power source.
3. Smoke alarms are permitted to be solely battery operated in existing areas of buildings undergoing *alterations* or repairs that do not result in the removal of interior walls or ceiling finishes exposing the structure, unless there is an attic, crawl space or *basement* available that could provide access for building wiring without the removal of interior finishes.

- (f) **Section 1103.8.4.** Section 1103 shall be amended by adding a new Section 1103.8.4 to read as follows:

1103.8.4 Maintenance. The *fire code official* shall have the right to conduct regular inspections of all smoke alarms including, but not limited to, all smoke alarms in dwelling units and all smoke alarms shall be operational at the time of inspection.

(13) **Chapter 23, Motor Fuel-Dispensing Facilities and Repair Garages.**

- (a) **Section 2304.1.** Section 2304.1 shall be amended by deleting Section 2304.1 in its entirety and adding a new Section 2304.1 to read as follows:

2304.1 Supervision of dispensing. The dispensing of fuel at motor fuel-dispensing facilities shall be in accordance with the following:

1. Conducted by a qualified attendant; and/or
2. Shall be under the supervision of a qualified attendant; and/or
3. Shall be an unattended self-service facility in accordance with Section 2304.3.

At any time the qualified attendant of Item #1 or #2 above is not present, such operations shall be considered as an unattended self-service facility and shall also comply with Section 2304.3.

(14) **Chapter 24, Flammable Finishes.**

- (a) **Section 2401.2.** Section 2401.2 shall be amended by deleting Section 2401.2 in its entirety.

(15) **Chapter 32, High-Piled Combustible Storage.**

- (a) **Table 3206.2.** Table 3206.2 shall be amended by deleting the text of Footnote (j) in its entirety and adding a new Footnote (j) to read as follows:

- j. Where storage areas are protected by either early suppression fast response (ESFR) sprinkler systems or control mode special application sprinklers with a response time index of $50(m*s)^{1/2}$ or less that are listed to control a fire in the stored commodities with 12 or fewer sprinklers, installed in accordance with NFPA 13, manual smoke and heat vents or manually activated engineered mechanical smoke exhaust systems shall be required within these areas.

(16) **Chapter 33, Fire Safety During Construction and Demolition.**

- (a) **Section 3310.1.** Section 3310 shall be amended by adding the following text at the end of Section 3310.1 to read as follows:

When fire apparatus access roads are required to be installed for any structure or development, they shall be approved prior to the time at which construction has progressed beyond completion of the foundation of any structure.

(17) **Chapter 56, Explosives and Fireworks.**

- (a) **Section 5601.1.3.** Section 5601.1.3 shall be amended by deleting Section 5601.1.3 including the Exceptions stated in Section 5601.1.3 in their entirety and adding a new Section 5601.1.3 to read as follows:

5601.1.3 Fireworks. The possession, manufacture, storage, sale, handling, and use of fireworks are prohibited.

Exceptions:

1. Only when *approved* for fireworks displays, storage, and handling of fireworks as allowed in Sections 5604 and 5608.
2. The use of fireworks for *approved* displays as allowed in Section 5608.

(18) **Chapter 57, Flammable and Combustible Liquids.**

- (a) **Section 5703.6.** Section 5706 shall be amended by adding the following text at the end of Section 5703.6 to read as follows:

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

- (b) **Section 5704.2.9.5.** Section 5704.2.9.5 shall be amended by deleting the first paragraph of Section 5704.2.9.5 in its entirety and adding a new first paragraph in Section 5704.2.9.5 to read as follows:

5704.2.9.5 Aboveground Tanks Inside of Buildings. Aboveground tanks inside of buildings shall comply with Section 5704.2.9.5.1 through 5704.2.9.5.3.

- (c) **Section 5704.2.9.5.3.** Section 5704 shall be amended by adding a new Section 5704.2.9.5.3 to read as follows:

5704.2.9.5.3. Combustible liquid storage tanks inside of buildings. The maximum aggregate allowable quantity limit shall be 3,000 gallons (11 356 L) of Class II or III combustible liquid for storage in protected aboveground tanks complying with Section 5704.2.9.7 when all of the following conditions are met:

1. The entire 3,000-gallon (11 356 L) quantity shall be stored in protected above-ground tanks;
2. The 3,000-gallon (11 356 L) capacity shall be permitted to be stored in a single tank or multiple smaller tanks;
3. The tanks shall be located in a room protected by an *automatic sprinkler system* complying with Section 903.3.1.1; *and*
4. Tanks shall be connected to fuel-burning equipment, including generators, utilizing an *approved* closed piping system.

The quantity of combustible liquid stored in tanks complying with this section shall not be counted towards the maximum allowable quantity set forth in Table 5003.1.1(1), and such tanks shall not be required to be located in a control area. Such tanks shall not be located more than two stories below grade.

- (d) **Section 5704.2.11.4.** Section 5704.2.11.4 shall be amended by deleting the first paragraph of Section 5704.2.11.4 in its entirety and adding a new first paragraph in Section 5704.2.11.4 to read as follows:

5704.2.11.4 Leak Prevention. Leak prevention for underground tanks shall comply with Sections 5704.2.11.4.1 through 5704.2.11.4.3. An

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

- (e) **Section 5704.2.11.4.2.** Section 5704.2.11.4.2 shall be amended by deleting Section 5704.2.11.4.2 in its entirety and adding a new Section 5704.2.11.4.2 to read as follows:

5704.2.11.4.2 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 5704.2.11.4.3.

- (f) **Section 5704.2.11.4.3.** Section 5704 shall be amended by adding a new Section 5704.2.11.4.3 to read as follows:

5704.2.11.4.3 Observation wells. *Approved* sampling tubes of a minimum 4 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 tube at the corners of the excavation with a minimum of four tubes. 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.

- (19) **Appendices.** Amend by adding Appendix B, Appendix C and Appendix D attached to the *International Fire Code*, 2015 Edition, to the same extent as if Appendix B, Appendix C and Appendix D were copied verbatim and set forth herein. Appendix A, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I and Appendix J shall be deleted in their entirety.

- (a) **Table B105.2.** **Table B105.2** shall be amended by deleting Footnote “a” in Table B105.2 in its entirety and adding a new Footnote “a” to Table B105.2 to read as follows:

- a. The reduced fire-flow shall be not less than 1,500 gallons per minute.

SECTION 2. That all ordinances or portions thereof in conflict with the provisions of this ordinance, to the extent of such conflict, are hereby repealed. To the extent that such ordinances or portions thereof are not in conflict herewith, the same shall remain in full force and effect.

SECTION 3. That should any word, sentence, clause, paragraph or provision of this ordinance be held to be invalid or unconstitutional, the validity of the remaining provisions of this ordinance shall not be affected and shall remain in full force and effect.

SECTION 4. That any person as defined in Chapter 2, Section 202 of the *International Fire Code*, 2015 Edition and any person as defined in Chapter 1, Section 1-2 of the Code of the City of Mesquite, Texas, as amended, violating any of the provisions or terms of this

ordinance shall be deemed to be guilty of a Class C Misdemeanor and upon conviction thereof, shall be subject to a fine not to exceed Two Thousand (\$2,000.00) Dollars for each offense, provided, however, if the maximum penalty provided for by this ordinance for an offense is greater than the maximum penalty provided for the same offense under the laws of the State of Texas, the maximum penalty for violation of this ordinance for such offense shall be the maximum penalty provided by the laws of the State of Texas. Each day or portion of a day any violation of this ordinance continues shall constitute a separate offense.

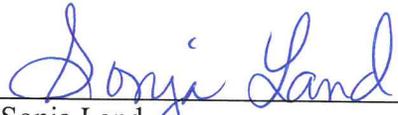
SECTION 5. That this ordinance shall take effect immediately on and after June 1, 2017.

DULY PASSED AND APPROVED by the City Council of the City of Mesquite, Texas, on the 1st day of May, 2017.



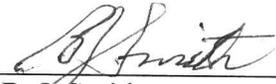
Stan Pickett
Mayor

ATTEST:



Sonja Land
City Secretary

APPROVED:



B. J. Smith
City Attorney