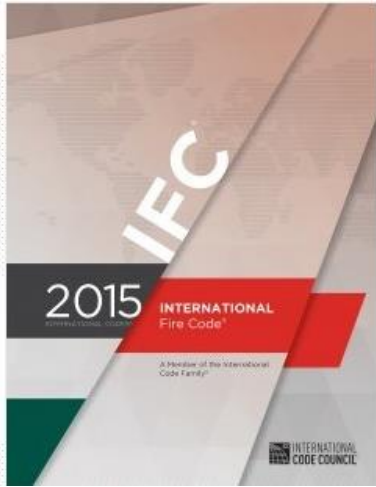


## 2015 INTERNATIONAL FIRE CODE SIGNIFICANT CHANGES



The International Fire Code (IFC) addresses conditions hazardous to life and property from fire, explosion, and hazardous materials. These regulations aim to ensure the safe use and occupancy of buildings and premises. The IFC parallels the International Building Code when it comes to many life safety regulations. The City is amending the IFC to be consistent with regional best practices, and to make the best use of local techniques and equipment.

### INTERESTING CODE CHANGES:

- Abandoned material and wiring cables must be removed from plenums. [315.6]
- Commercial cooking exhaust hoods and ducts must be cleaned in accordance with ANSI/IFC C10. [609.3.3.2]
- Listed flexible connectors are required between fixed fuel-gas piping and cooking appliances on casters or appliances that are moved for cleaning. [609.4]
- Cables used for survivability of circuits supplying fire pumps shall be listed in accordance with UL 2196. [913.2.2]
- Plastic pallets used in high-piled combustible storage areas can affect the classification of commodity. [3206.4.1]
- Addition of Carbon Dioxide systems used in beverage dispensing applications section due to a number of fatalities from CO<sub>2</sub> exposure in restaurants. [5307]

### CHANGES IN PROPOSED AMENDMENTS:

- Changes to the proposed local amendments are mainly for clarification purposes. No significant changes have been added to the 2015 International Fire Code.



**AN ORDINANCE OF THE CITY OF COPPELL, TEXAS**

**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE OF THE CITY OF COPPELL, TEXAS AMENDING THE CODE OF ORDINANCES BY AMENDING CHAPTER 15 ARTICLE 15-5, “FIRE CODE”, TO ADOPT THE INTERNATIONAL FIRE CODE, 2015 EDITION, AND THE LATEST EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 1, AS AMENDED, AS THE CITY OF COPPELL FIRE CODE; PROVIDING AMENDMENTS TO THE INTERNATIONAL FIRE CODE, 2015 EDITION; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A PENALTY FOR VIOLATION OF THIS ORDINANCE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS (\$2,000.00) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.**

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

**SECTION 1.** That the Code of Ordinances of the City of Coppel, Texas be, and the same is, hereby amended by amending Chapter 15, Article 15-5 in part to adopt the International Fire Code, 2015 Edition, and the National Fire Protection Association Standard 1, as amended, to read as follows:

**“ARTICLE 15-5. FIRE CODE**

**Sec. 15-5-1 International Fire Code – Adopted.**

There is hereby adopted by the City of Coppel, Texas for the purpose of prescribing regulations governing conditions hazardous to life and property from fire and explosion, the certain Codes and Standards known as the International Fire Code, 2015 Edition, including Appendices A-I, and the latest edition of the National Fire Protection Association Standard 1, thereof and whole thereof, save and except such portions as are hereinafter deleted, modified or amended by Section 15-5 of this ordinance. A copy of said Fire Code and Standards is now filed in the office of the City Secretary, and is hereby adopted and incorporated as fully as if set out at length herein, and from the date on which this ordinance shall take effect, the provisions thereof shall be controlling within the limits of the City of Coppel and within 5,000 feet thereof, where specified therein.

**Sec. 15-5-2. Amendments.**

The following sections of the International Fire Code, 2015 Edition, as adopted in Section 15-1, are hereby amended to read as follows:

**1. Amend Section 101.1 to read as follows:**

**101.1 Title.** These regulations shall be known as the Fire Code of the City of Coppel, herein after referred to as "this code".

**2. Amend Section 102.4 to read as follows:**

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

**3. Amend Section 102.7 to read as follows:**

**102.7 Referenced codes and standards.** The codes and standards referenced in this code shall be those that are listed in Chapter 80 and such codes, when specifically adopted, and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standards shall be considered to reference the amendments as well. Any reference to NFPA 70 or the ICC Electrical Code shall mean the Electrical Code as adopted.

**4. Amend Section 103.1 by adding a second paragraph and by adopting a new subsection 103.1.1, "Division of Fire Prevention Personnel and Police", to read as follows:**

**103.1 General.** The department of fire prevention is established within the jurisdiction under the direction of the fire code official. The function of the department shall be the implementation, administration and enforcement of the provisions of this code.

Under the chief's direction, the fire department is authorized to enforce all ordinances of the jurisdiction pertaining to:

1. The prevention of fires.
2. The suppression or extinguishment of dangerous or hazardous fires.
3. The storage, use and handling of hazardous materials,
4. The installation and maintenance of automatic, manual and other private fire alarm systems and fire-extinguishing equipment.
5. The maintenance and regulation of fire escapes.
6. The maintenance of fire protection and the elimination of fire hazards on land in buildings, structures and other property, including those under construction.
7. The maintenance of means of egress.
8. The investigation of the cause, origin and circumstances of fire and unauthorized releases of hazardous materials.
9. The investigation of the cause, origin and circumstances of explosions. For authority related to control and investigation of emergency scenes, see Section 104 of this code.

**103.1.1 Division of Fire Prevention Personnel and Police.** The Fire Marshal and members of the Division of Fire Prevention shall have the powers of a police officer when performing their duties under this code. When requested to do so, the Chief of Police is authorized to render necessary assistance to assist the Fire Department in enforcing the provisions of this code.

**5. Amend Section 103.4 by adding subsection 103.4.2, to read as follows:**

**103.4.2 City Liability.** All regulations provided in this code are hereby declared to be governmental and for the benefit of the general public. Any member of the City Council, any city official or employee, or any member of the Building Standards Commission charged with the enforcement of this code, acting for the City in the discharge of his duties, shall not thereby render themselves personally liable, and they are hereby relieved from all personal liability for any damage that may occur to persons or property as a result of any action required or permitted in the discharge of their duties. Any suit brought against such official or employee because of

such act performed by them in the enforcement of any provisions of this Code shall be represented by the City of Coppell through its designated attorney until the final adjudication of the proceedings.

**6. Amend Section 105.7 by amending subsection 105.7.14 and adopting subsection 105.7.19, to read as follows:**

**105.7.14 Smoke control or exhaust systems.** Construction permits are required for smoke control or exhaust systems as specified in Section 909 and Section 910 respectively. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

**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 Section 503 and Section 1008. 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.

**7. Amend Section 109.4 to read as follows:**

**Section 109.4 Violation Penalties.** Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or to do work in violation of the approved construction documents or directive of the Fire Marshal, or a permit or certificate used under provisions of this code, shall be guilty of a misdemeanor offense punishable by a fine of not more than two thousand dollars (\$2,000.00). Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**8. Amend Section 110.4 to read as follows:**

**110.4 Abatement.** Any person operating or maintaining any occupancy, premises or vehicle subject to this Code who shall permit any fire hazard to exist on the premises under their control or who shall fail to take immediate action to abate a fire hazard when ordered or notified to do so by the code official or his duly authorized representative shall be guilty of a separate offense for each and every day or portion thereof which any violation of any of the provisions of this Code is committed or continued.

**9. Amend Section 202 by adding definitions to read as follows:**

**CODE OFFICIAL** is the Fire Chief, Fire Marshal or other designated authority charged by the applicable governing body with the duties of administration and enforcement of the code, or a duly authorized representative.

**DIVISION OF FIRE PREVENTION** is the Office of the Coppel Fire Marshal.

**FIRE DEPARTMENT** is the City of Coppel Fire Department.

**HIGH RISE BUILDING** is a building having floors for human occupancy located more than 55 feet above the lowest level of fire department vehicle access.

**JURISDICTION** is the City of Coppel, Texas.

**KEY BOX** shall be a KNOX® Box device.

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

**STANDBY PERSONNEL.** Qualified fire service personnel, approved by the Fire Chief or Fire Marshal. When utilized, the number required shall be as directed by the Fire Chief or Fire Marshal.

**10. Amend Section 307.2 to read as follows:**

**307.2 Permit required.** A permit shall be obtained from the Fire Marshal 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 a recreational fire. 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 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 Marshal.

**11. Amend Section 307.4, by amending subsections 307.4.1 and 307.4.2, and adopting subsection 307.4.4, to read as follows:**

**307.4 Location.** Recreational fires as they relate to approved ceremonial situations or within approved devices such as outdoor barbeque grills with lids, chimenias or outdoor fireplaces shall be permitted in accordance with 307.4.2 Recreational Fires. Bonfires, trench burns, garbage/waste disposal fires and related outdoor burning shall be prohibited in the City of Coppell.

**307.4.1 Bonfires.** Bonfires shall be prohibited in the City of Coppell.

**307.4.2 Recreational fires.** Recreational fires shall not be conducted within 25 feet of a structure or combustible material. Conditions which could cause a fire to spread within 25 feet of a structure shall be eliminated prior to ignition.

**Exception:** One- and two-family dwellings



**307.4.4 Trench Burns.** Trench burns shall be prohibited in the City of Coppel.

**12. Amend Section 401.3 by adopting subsection 401.3.4, to read as follows:**

**401.3.4 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. The technician performing maintenance on any system capable of transmitting an alarm to the Emergency Dispatch Center shall notify the center, as well as the monitoring company for the property, prior to any work being performed on the system. In addition, the technician shall notify the Emergency Dispatch Center, as well as the monitoring company for the property, immediately upon placing the system back in service.

**13. Amend Section 503.1 by amending subsection 503.1.1 and the Exception thereto, by amending subsection 503.1.2, and by adopting subsection 503.1.4, to read as follows:**

**503.1.1 Buildings and Facilities.** Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by maximum hose distance or an approved route around the exterior of the building.

**Exception:** Except for one- or two-family residences, the path of measurement shall be along a minimum of a ten feet (10') wide unobstructed pathway around the external walls of the structure.

**503.1.2 Additional Access.** The Fire Marshal is authorized to require more than one fire apparatus access road based on the potential for impairment of a single road by vehicle congestion, condition or terrain, climatic conditions or other factors that could limit access. The Fire Marshal is hereby authorized and empowered to establish and designate fire lanes as deemed necessary for the proper ingress and egress of emergency vehicles. Any fire lane designated by the Fire Marshal shall become effective as of the date so designated.

**503.1.4. General Maintenance.** (a) The Fire Marshal shall report any negligent surface conditions, markings, or signs to the owner or person in control of property upon which a fire lane exists and shall issue instructions for repair. (b) It shall be unlawful for the owner or person

in control of property upon which a fire lane has been designated or exists to fail to maintain the surface of the fire lane in good condition, free of potholes and other non-approved obstructions. (c) It shall be unlawful for the owner or person in control of property on which a fire lane has been designated or exists to fail to maintain any marking of the fire lane as required by this code in a condition which is not clearly legible. (d) It shall be unlawful for the owner or person in control of property on which a fire lane has been designated or exist to install speed bumps, speed humps or similar traffic calming devices without the prior approval from the City of Coppell Fire Marshal's Office. Traffic calming devices shall not exceed 2 ½-inches in height and must be a minimum of 6-inches in width. (e) Fire lanes shall be installed in accordance with City of Coppell Engineering Standards and Details prior to buildings being constructed above finished floor grade.

**14. Amend Section 503.2 shall be amended by amending subsections 503.2.1, 503.2.3 and 503.2.4 to read as follows:**

**503.2.1 Dimensions.** Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (24') and an unobstructed vertical clearance of not less than 14 feet (14'). The Fire Marshal shall have the authority to increase the width of fire lanes at the entrances off public streets to include the entire width of the drive opening.

**503.2.3 Surface.** Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be constructed to the City of Coppell Engineering Standards and Details. All fire lanes shall be capable of supporting an 80,000 pound vehicle.

**503.2.4 Turning Radius.** The required turning radius of a fire apparatus access road shall be a minimum of 30 feet inner radius and 54 feet exterior radius. The required turning radii may be decreased if the width of the fire lane increases, as approved by the Fire Marshal.

**15. Amend Section 503.3 to read as follows:**

**503.3 Marking.** Where required by the Fire Marshal, approved striping or, when allowed by the Fire Marshal, signs, or both, or other approved notices shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. Signs or notices and striping shall be maintained in a clean and legible condition at all times and replaced or repaired when necessary to provide adequate visibility.

1) Striping--Fire apparatus access roads shall be marked by painted lines of red traffic paint six inches (6") in width to show the boundaries of the lane. The words "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" shall appear in four inch (4") white letters at 15 feet intervals on the red border markings along both sides of the fire lanes.

2) Signs--Shall read "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" and shall be 12" wide and 18" high. Signs shall be painted on a white background with letters and borders in red, using not less than 2" lettering. Signs shall be permanently affixed to a stationary post and the bottom of the sign shall be six feet, six inches (6'6") above finished grade. Signs shall be spaced not more than fifty feet (50') apart. Signs may be installed on permanent buildings or walls if approved by the Fire Marshal.

3) Brick pavers--Brick paver 'banding' of fire lanes may be approved on a case by case basis. Red brick pavers shall be of contrasting colors to provide the visual identity of a 'normally striped' fire lane.

**16. Amend Section 503.4 to read as follows:**

**503.4 Obstruction of fire apparatus access roads.** Fire apparatus access roads shall not be obstructed by persons in any manner, including parking, stopping or standing any non-emergency vehicle, whether attended or unattended, in a fire lane. The minimum widths and clearances established in Section 503.2.1 and any area marked as a fire lane as described in Section 503.3 shall be maintained at all times. The operator of a premise shall maintain, free of obstruction, all fire lanes on his premises. No person may mark, post or otherwise identify a non-fire lane private vehicular passageway as a fire lane or in such a manner as tends to create confusion as to whether the passageway is a fire lane. Any unauthorized vehicle on a fire lane is: (1) Subject to removal by the operator of the premises, with the expense of removal and storage to be borne by the registered owner of the vehicle. (2) Subject to citation, as well as removal, by the Fire Marshal or a police officer, and (3) Prima facie evidence that the person in whose name the vehicle is registered is guilty of a violation of the parking provisions of this section.

**17. Amend Section 507 by amending subsection 507.5.1 and the Exception thereto, and subsection 507.5.3 to read as follows:**

**507.5.1 Where required.** Where a portion of the facility or building is more than 150 feet from a hydrant on a public right-of-way, as measured by an approved route around the exterior of the facility or building, or if the building is equipped with an automatic fire sprinkler

system/fire department connection, on-site fire hydrants and mains shall be provided where required by the Fire Marshal.

Exceptions: For Group R-3 occupancies, the distance requirement shall be 600 feet.

**507.5.3 Private fire service mains and water tanks.** Private fire service mains and water tanks shall be periodically inspected, tested and maintained in accordance with NFPA 25 at the following intervals:

1. Private fire hydrants (all types): Inspected annually and after each operation; flow test and maintenance annually.
2. Fire service main piping: Inspection of exposed, annually; flow test every 5 years.
3. Fire service main piping strainers: Inspection and maintenance after each use.
4. Private fire hydrants or those hydrants supplied through or by a fire pump shall be painted red. (Sherwin-Williams #B54R38 or equal)
5. All fire hydrant locations shall be identified by the installation of a blue reflective marker, according to City specifications.
6. Private fire hydrants shall be installed and operational prior to buildings being constructed above finished floor grade.
7. Private fire hydrant annual flow test information and labeled site map shall be forwarded to the Coppell Fire Department upon completion of the service.

**18. Amend Section 603.6 by adding subsection 603.6.6 to read as follows:**

**603.6.6 Maintenance of Chimneys.** All multi-family occupancies where fireplaces utilizing solid fuel are used shall have the chimneys inspected and/or cleaned by a certified chimney sweep on a yearly basis. A report of each inspection and/or cleaning shall be submitted to the Fire Prevention Division by no later than November 1st each year.

**19. Amend Section 807.5.2 by amending subsection 807.5.2.2 by adopting Exception to read as follows:**

**807.5.2.2 Artwork in corridors.** Artwork and teaching materials shall be limited on the walls of corridors and classrooms 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.

**20. Amend Section 901.6 by adopting subsection 901.6.3, to read as follows:**

**901.6.3 False Alarms.** False alarms shall not be given, signaled or transmitted or caused or permitted to be given, signaled or transmitted in any manner. The technician performing maintenance on any system capable of transmitting an alarm to the Emergency Dispatch Center shall notify the appropriate center, as well as the monitoring company for the property, prior to any work being performed on the system. In addition, the technician shall notify the Emergency Dispatch Center, as well as the monitoring company for the property, immediately upon placing the system back in service.

**21. Amend 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 accidental activations, the fire department and the Fire Marshal shall be notified immediately and, where required by the Fire Marshal, the building shall either be evacuated or an approved fire watch standby personnel shall be provided for all occupants left unprotected by the shut down until the fire protection system has been returned to service. Where utilized, fire watch standby personnel shall be provided with at least one approved means for notification of the fire department and their only duty shall be to perform constant patrols of the protected premises and keep watch for fires.

**22. Amend 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 fire sprinkler protection where recognized by the applicable standard, or as approved by the fire code official.

**23. Amend Section 903.1 by adopting subsection 903.1.2, to read as follows:**

**903.1.2 Residential systems.** Residential sprinkler systems installed in accordance with NFPA 13D or NFPA13R shall not be recognized for the purposes of exceptions or reductions, commonly referred to as "trade-offs", permitted by other requirements of this code or the International Building Code.

**24. Amend Section 903.2 by adding thereto; deleting the exception; and by adopting Subsection 903.2.13, to read as follows:**

**903.2 Where required.** An approved automatic fire extinguishing system (fire sprinkler system) shall be installed and maintained in accordance with the current versions of NFPA 13, Standard for the Installation of Sprinkler Systems and NFPA 25 Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems in the following occupancies:

1. All new buildings and new additions to existing buildings greater than 5,000 square feet.
2. All new windowless buildings or buildings with a basement, regardless of square footage.
3. All new Group R buildings, excluding single family dwellings. Protection is required throughout all living areas, including, but not limited to small rooms and enclosed attached garages.
4. All buildings or structures, two (2) or more stories or thirty-five feet (35') in height, excluding Group R-3.
5. All Group R-3 building with a gross square footage greater than 10,000 square feet.
6. All Group R-3 occupancies which contain two or more separate dwelling units. Residential or quick response standard sprinklers shall be used in the dwelling units.
7. All Group R-1 occupancies. Residential or quick response standard sprinklers shall be used in the dwelling units and guest room portions of the building.
8. All Group A-5 occupancies greater than 1,000 square feet.
9. All Group A-2 occupancies greater than 2,000 square feet.
10. All Group H and Group I occupancies regardless of square footage.
11. Throughout all occupancies classified as 'self-service storage facility'.
12. F-1 and S-1 occupancies used for manufacture or storage of upholstered furniture or mattresses greater than 2,500 square feet.

**903.2.13 General.** The following fire and life safety items are required for applicable buildings. The system shall be designed according to NFPA standards on all floors of the building. Two (2) complete sets of plans and calculations shall be submitted to the Fire Prevention Division for review and approval. Upon completion, the installer shall furnish the Fire Prevention Division with a statement that the system has been installed to meet the requirements of all applicable ordinances.

All buildings equipped with an approved automatic sprinkler system shall also be equipped with an approved, monitored fire alarm system, meeting the requirements of NFPA 72 and this code. In addition to the building requirements listed above, the following requirements must be met:

1. Where standpipes are required, all standpipe locations are to be marked by painting the entire drop "Safety RED" (Sherwin Williams B45R38 or equivalent) with blue retro-reflective tape at 1 and 10-foot levels above valves. Where standpipes are located in office areas, cabinets shall be readily distinguishable from surrounding wall coverings.
2. All personnel doors are to be numbered in six-inch (6") high numbers on the inside and outside of the doors. The numbering is to begin at the pump room and continue counter-clockwise around the building. The pump room is to have "PUMP ROOM" on the outside of the door in minimum six-inch (6") high letters. On all buildings without a pump room, the first personnel door to the right of the main entrance is to be labeled door "1" and continue in a counter-clockwise direction. Doors are to be numbered sequentially with the personnel doors or alphabetical symbols are to be used. No personnel doors and dock doors are to be labeled with the same number. All numbers are to be of a contrasting color to the background.
3. Zone maps and operational instructions are to be posted at each fire alarm panel.
4. A plan showing the location of each pull station, duct detector, mechanical smoke exhaust fan and personnel door locations (by door number) shall be located at each alarm panel.
5. Each sprinkler riser shall be identified by a unique four inch (4") number above the main valve. If the sprinkler riser, 4-inch or larger, passes through a ceiling, wall or enclosure, an additional four inch (4") number shall be placed on the riser pipe at a point that is easily visible from floor level. A plan showing the coverage area of each system shall be posted adjacent to the fire alarm panel.
6. Fire sprinkler risers/fire pump rooms shall be directly accessible from an exterior door. The room shall be properly sized for adequate personnel maneuverability and serviceability, minimum size sixty-four (64 sq ft) square feet, with a minimum dimension of eight feet (8'). Exterior weatherproof strobe shall be installed.

7. Evacuation of Buildings. Upon any fire alarm activation, all occupants shall immediately evacuate all portions of the building and shall remain outside of the structure until it has been determined that it is safe to return.

**25. Amend Subsections 903.3.1.1 and 903.3.1.1.1 to read as follows and by deleting Subsection 903.3.1.1.2 in its entirety:**

**903.3.1.1 NFPA 13 sprinkler systems.** Where the provisions of this code require that a building or portion thereof be equipped throughout with an automatic sprinkler system, sprinklers shall be installed throughout in accordance with NFPA 13, latest edition, except as provided in Sections 903.3.1.1.1.

**903.3.1.1.1 Exempt Locations.** When approved by the Fire Marshal, automatic sprinklers shall not be required in the following rooms or areas where such rooms are protected with an approved 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 the combination of 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 Marshal.

**26. Amend Subsection 903.3.1.2 to read as follows:**

**903.3.1.2 NFPA 13R sprinkler systems.** Where allowed in buildings of Group R, up to and including four stories in height, automatic sprinkler systems shall be installed throughout in accordance with NFPA 13R, as amended to include small rooms, closets, balconies and attached enclosed garages.

**27. Amend Subsection 903.3.1.3 to read as follows:**



**903.3.1.3 NFPA 13D sprinkler systems.** Where allowed, automatic sprinkler systems installed in one- and two-family dwellings and townhouses shall be installed throughout in accordance with NFPA 13 or 13R.

**27. Amend Subsection 903.3.5 by adding the following:**

**903.3.5 Water supplies.** Water supplies for automatic sprinkler system shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the International Plumbing Code. Water supplies as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every fire protection system shall be designed with a 10 psi safety factor.

When any portion of the facility or buildings protected is in excess of 150 feet from a water supply on a public street, as measured by an approved route around the exterior of the facility or building, additional fire hydrants and mains capable of supplying the required fire flow shall be required. Additional hydrant locations shall be based on fire load, internal fire protection systems, required fire flow, vehicular traffic, fire lanes, and other special circumstances. Fire hydrants shall be spaced no farther than six hundred feet (600') in residential areas and three hundred feet (300') in other than residential areas, measured center-on-center. These distances may be modified when sufficient data is provided showing equivalent fire protection can be maintained. Fire hydrants shall be located no closer than three feet (3') nor farther than six feet (6') from a fire lane. Fire supply lines shall be looped systems with no dead end mains or fire lines greater than one hundred fifty feet (150') in length unless approved by the Fire Marshal.

**29. Amend Section 903.3.7 to read as follows:**

**903.3.7 Fire Department Connections.** Fire Department Connections (FDC) shall not be located in or on structures, unless otherwise approved by the Fire Marshal. The FDC shall be located no closer than three feet (3') nor farther than six feet (6') from a fire lane. The line from the FDC to the sprinkler riser shall be isolated from any hydrant through the use of an approved check valve. At no time shall the FDC increase pressure to any fire hydrant. The FDC shall be located no farther than fifty feet (50') from a fire hydrant and shall be located on the same side of the fire lane as the hydrant. The FDC shall be installed at a height not to exceed thirty-inches (30"), in accordance with the City of Coppel Engineering Standards and Details. FDC shall be equipped with approved Knox® locking caps.

**30. Amend Section 903.4 and the Exceptions thereto to read as follows:**

**903.4 Sprinkler system supervision and alarms.** All valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures, and water-flow switches on all sprinkler systems shall be electronically supervised.

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, not to exceed 120 seconds. All control valves in the sprinkler and standpipe systems, except for the fire department hose connection valves, shall be electrically supervised to initiate a supervisory signal at the central station upon turning or operating the valve.

**Exceptions:**

1. Automatic sprinkler systems protecting one- and two-family dwellings.
2. Jockey pump control valves that are sealed or locked in the open position.
3. Control valves to commercial kitchen hoods, spray booths or dip tanks that are sealed or locked in the open position.
4. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.
5. Trim valves to pressure switches in dry, pre-action and deluge sprinkler systems that are sealed or locked in the open position.
6. Manual Dry Standpipe system must be supervised with a minimum of 10 psig and a maximum of 40 psig air pressure with a high/low alarm.

**31. Amend Section 905.1 to read as follows:**

**905.1 General.** Standpipe systems shall be provided in new buildings and structures in accordance with Sections 905.2 through 905.10. In buildings used for high-piled combustible storage, fire protection shall be in accordance with Chapter 32.

All buildings greater than 20,000 square feet, except for Group R-3, shall be equipped with 2 1/2" hose valve stations. The hose valve locations shall be supplied by a minimum 2 1/2" line from the automatic fire sprinkler system. The hose valve stations shall consist of a 2 1/2" valve. A demand of a minimum of 150 GPM shall be included in the hydraulic calculations. Spacing for the hose valves shall be based on one hundred feet (100') hose lay and thirty feet (30') of stream, beginning at the nearest fire department entry door.

**32. Amend Section 907.1 by adopting Subsection 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 initiating devices shall have analog initiating devices.

All fire alarm systems shall be installed in such a manner that the failure of any single alarm-actuating or alarm-indicating device will not interfere with the normal operation of any other devices.

All fire alarm system communicators shall be capable of sending point (smoke detector, manual pull station, water flow, etc.) specific data to central station monitoring companies.

**Exception:** Existing systems need not comply unless the total building remodel or expansion exceeds 25% of the original building.

**33. Amend Section 907.2.1 to read as follows and by deleting the exception thereto:**

**907.2.1 Group A.** A manual fire alarm system that activates the occupant notification system in accordance with 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 Group E occupancy.

**34. Amend Section 907.2.1.1 to read as follows:**

**907.2.1.1 System Initiation in Group A Occupancies with an Occupant Load of Three Hundred (300) or More.** Activation of the fire alarm in Group A occupancies with an occupancy load of three hundred (300) or more shall immediately initiate an approved prerecorded message announcement using an approved voice communication system in accordance with NFPA 72 that is audible above the ambient noise level of the occupancy.

**Exception:** When approved, the prerecorded announcement is allowed to be manually deactivated for a period of time, not to exceed three (3) minutes, for the sole purpose of allowing a live voice announcement from an approved, constantly attended location.

**35. Amend Section 907.2.2 to read as follows and by deleting the exceptions thereto:**

**907.2.2 Group B.** A manual fire alarm system shall be installed in Group B occupancies having an occupant load of 500 or more persons or more than 100 persons above or below the lowest level of exit discharge or contain an ambulatory care facility.

**36. Amend Section 907.2.3 to read as follows and by deleting the exceptions thereto:**

**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 fire extinguishing systems or automatic fire alarm systems are installed, such systems or detectors shall be connected to the building fire alarm system. An approved smoke detection system shall be installed in all Group E day care occupancies. All buildings, whether portable buildings or the main building, will be considered one building for alarm occupant load consideration and interconnection of alarm system.

**37. Amend Subsection 907.2.4 to read as follows and by deleting the exception thereto:**

**907.2.4 Group F.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group F occupancies greater than 75,000 gross square feet or are two or more stories in height.

**38. Amend Section 907.2.13 to read as follows and by deleting the exceptions thereto:**

**907.2.13 High-rise Buildings.** Buildings with a floor used for human occupancy located more than fifty-five feet (55') above the lowest level of fire department vehicle access shall be provided with an automatic smoke detection system in accordance with Section 907.2.13.1, a

fire department communications system in accordance with Section 907.2.13.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2.

**39. Amend Subsection 907.6.3 by deleting the exceptions.**

**907.6.3 Initiating device identification.** The fire alarm system shall identify the specific initiating device address, location, device type, floor level where applicable and status including indication of normal, alarm, trouble and supervisory status, as appropriate.

**40. Amend Section 910.4 by adding the following:**

**910.4 Mechanical smoke exhaust.** Where approved by the fire code official, engineered mechanical smoke exhaust shall be an acceptable alternative to smoke and heat vents. In buildings equipped with an Early Suppression Fast Response (ESFR) sprinkler system or a Class IV sprinkler system, curtain boards and smoke and heat vents are to be eliminated and an approved mechanical smoke and removal system utilized. This system must de-activate all fans upon initiation of the fire alarm system. The system shall have a manual override system in addition to the vent controls located in the protected area. A separate Fire Department access or key switch may be required at a remote location in the building. Each individual fan shall be capable of being activated by a fireman's override switch located in the pump room. Design of the mechanical smoke and heat removal system shall be based on a minimum of four (4) air changes per hour. When activated by the fire alarm, all other mechanical ventilation systems shall shut down. Fans shall be capable of continuous operation even after main building power has been deactivated.

**41. Amend Subsection 910.4.3 by adding the following:**

**910.4.3 System design criteria.** The mechanical smoke removal system shall be sized to exhaust the building at a minimum rate of four (4) air changes per hour based upon the volume of the building or portion thereof without contents. The capacity of each exhaust fan shall not exceed 30,000 cubic feet per minute.

Supply air for exhaust fans shall be provided at or near the floor level and shall be sized to provide a minimum of twenty-five percent (25%) of required exhaust. Openings for supply air shall be uniformly distributed around the periphery of the area served. Personnel doors and dock doors shall not be considered as part of the supply air system.

**42. Section 1020.1; add exception 6 to read as follows:**

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.

**43. Amend Subsection 5601.1.3 and exceptions to read as follows:**

**5601.1.3 Fireworks.** The possession, manufacture, storage, sale, handling and use of fireworks are prohibited within the City of Coppel and within 5,000 feet of its borders.

**Exception:** Approved, professional displays in accordance with Sections 5604 and 5608 shall be permitted on a case to case basis.

**44. Amend Section 5703.6 to read as follows:**

**5703.6 Piping systems.** Piping systems, and their component parts, for flammable and combustible liquids shall be in accordance with this section, including an approved method of secondary containment shall be provided for underground tanks and piping systems.

**45. Amend Subsection 5704.2.11.4 and by adopting 5704.2.11.4.3 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 tanks and piping systems.

**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 excavation with a

minimum of 4 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 2 are required.

**46. Amend Section 6103.2 by adopting 6103.2.1.8 to read as follows:**

**Section 6103.2.1.8 Jewelry repair, dental labs and similar occupancies.** Where natural gas service is not available, portable LP-gas containers are allowed to be used to supply approved torch assemblies or similar appliances. Such containers shall not exceed 20-pound water capacity. Aggregate capacity shall not exceed 60-pound water capacity. Each container shall be separated by 20 feet or a one-hour construction barrier.”

**SECTION 2.** If any section, subsection, paragraph, sentence, phrase or work in this ordinance, or application thereof to any person or circumstance is held invalid by any court of competent jurisdiction, such holding shall not affect the validity of the remaining portions of this ordinance, and the City Council of the City of Coppell, Texas hereby declares it would have enacted such remaining portions despite any such invalidity.

**SECTION 3.** That the repeal of any ordinance or any portion thereof by the preceding sections shall not affect or impair any act done or right vested or accrued or any proceeding, suit or prosecution had or commenced in any cause before such repeal shall take effect; but every such act done, or right vested or accrued, or proceedings, suit or prosecution had or commenced shall remain in full force and effect to all intents or purposes as if such ordinance or part thereof so repealed shall remain in force.

**SECTION 4.** That any person, firm or corporation violating any of the provisions of this ordinance or the Code of Ordinances as amended hereby, shall be guilty of a misdemeanor and upon conviction in the Municipal Court of the City of Coppell, Texas, shall be subject to a fine not

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to exceed the sum of Two Thousand Dollars (\$2,000.00) for each offense; and each and every day such offense is continued shall constitute a new and separate offense.

**SECTION 5.** That this ordinance shall become effective immediately from and after its passage and the publication of the caption, as the law and charter in such cases provide.

**DULY PASSED** by the City Council of Coppell, Texas, this the \_\_\_\_\_ day of \_\_\_\_\_, 2017.

**APPROVED:**

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**Karen Hunt, MAYOR**

**ATTEST:**

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**CHRISTEL PETTINOS, CITY SECRETARY**

**APPROVED AS TO FORM:**



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**ROBERT HAGER, CITY ATTORNEY**