

**ORDINANCE NO. 1409**

**AN ORDINANCE WHICH PROVIDES AMENDMENT TO THE CODE OF ORDINANCES OF THE CITY OF YUKON, OKLAHOMA BY AMENDING SECTIONS 204-106, 204-107 AND 204-111 OF THE CODE OF ORDINANCES OF THE CITY OF YUKON BY ADOPTING THE INTERNATIONAL MECHANICAL CODE 2015 EDITION AND PROVIDING ADDITIONS, INSERTIONS, AND DELETIONS THERETO AND DECLARING AN EMERGENCY**

**BE IT ORDAINED BY THE COUNCIL FOR THE CITY OF YUKON, OKLAHOMA** that the Code of Ordinances, City of Yukon, is hereby amended by adopting the International Mechanical Code and providing for additions, insertions, and deletions thereto as follows:

**SECTION 1:**

**Sec. 204-106. International Mechanical Code Adopted.**

That certain documents, 3 copies of which are on file in the office of the city clerk, being marked and designated as International Mechanical Code 2015 Edition, as published by the International Code Council, be and is hereby adopted as the code of the city for regulating the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to use or maintenance of mechanical systems in the City of Yukon and providing for the issuance of permits and collection of fees therefore; and each and all of the regulations, provisions, conditions and terms of such, as amended and modified by the Uniform Building Code Commission pursuant to 59 O.S. § 1000.23 as it may from time to time be amended and subsequent amendments as listed below of the Code of Ordinances, is hereby adopted as the Code of the City; as herein provided; and each and all regulations, provisions, penalties, conditions and terms of said Mechanical code are hereby referred to, adopted, and made a part hereof, as it fully set out in this article with additions, insertions, deletions and changes.

**Sec. 204-107. Office of mechanical inspector created; general powers and duties hereby amended to read.**

The office of the mechanical heating and air conditioning inspector is hereby created within the department of Development Services. The Development Service Director shall appoint the mechanical inspector and he may hold another position in the city government. The mechanical inspector shall have the powers and duties prescribed by the mechanical code adopted by this article. It shall be his duty to see that all laws, ordinances, codes, rules and regulations related to mechanical systems are properly enforced.

**Sec. 204-108. - Registration required amended to read.**

No person shall engage in the following without first registering with the mechanical, heating and air conditioning inspector and obtaining a mechanical registration certificate from the city:

- a. Maintain, repair, or renovate, in whole or in part, of any heating system, cooling system, mechanical refrigeration system, ventilation system, any equipment or piping carrying chilled water, air for ventilation purposes, or piping carrying natural gas.
- b. Maintain, repair, or renovate process piping used to carry any liquid, substance, material, including steam and hot water used for space heating purposes not under the jurisdiction of the department of labor.

**Sec. 204-109. - Issuance of registration certificate.**

- 1) Registration certificate under this article will be issued upon the applicant's showing to the satisfaction of the mechanical heating and air conditioning inspector proof of a current and valid mechanical license from the state and the payment of the annual fee as set forth in section 204-110. The continued validity of such registration shall be dependent upon the person maintaining a current, valid state mechanical license and the expiration, revocation or suspension of a state mechanical license shall automatically invalidate the registration certificate of the city. Any person continuing to engage in mechanical work without a valid city registration or permit shall be subject to the provisions set forth on section 204-113.
- 2) An annual registration issued under this section may be renewed by paying the prescribed fee on or before August 31, and shall be considered surrendered if not renewed within 15 days thereafter. Any person having surrendered his certificate must proceed in the manner required for a new or initial application.

**Sec. 204-110. - Registration fees.**

The registration fee for persons employed at installing, replacing or repairing gas pipes, appliances or other mechanical work shall be set by the city council by resolution.

**Sec. 204-111. Additions, insertions and deletions International Mechanical Code.****CHAPTER 1 SCOPE AND ADMINISTRATION****Section 106.1.1 Annual permit is amended to read as follows:**

*106.1.1. Annual Permit.* An annual permit is a yearly permit which represents a group of individual permits for each alteration to an already approved electrical, gas, mechanical or plumbing installation. The building official is authorized to issue an annual permit upon application therefor to any person, firm or premises owned or operated by the applicant for the permit.

(OUBCC Amendment)

**Section 106.1.2 Annual permit records is amended to read as follows:**

*106.1.2. Annual permit records.* The person to whom an annual permit is issued shall keep a detailed record of alterations at all times. At the completion of the entity's annual permit term, the applicant shall file such detailed records of alterations with the building official. Pursuant to the authority of 59 O.S. § 1000.25, the building official shall collect fees for each individual permit which is part of the annual permit once the detailed records are submitted and remit such fees to the OUBCC.

(OUBCC Amendment)

**Section 106.5.2 Fee Schedule is hereby amended to read as follows:**

*106.5.2 Fee Schedule.* Any mechanical contractor who intends to erect, install, enlarge, alter, repair, remove, convert mechanical systems, the installation of which is regulated by this code or to cause any such work to be done, shall first make application to the Development Services Department and obtain the required permit and shall pay all such required permit fees and any additional fees. All such fees shall be set by resolution by the City Council.

**Section 107.8 Inspection access is amended to read as follows:**

*107.8 Inspection Access.* It shall be the responsibility of the mechanical contractor to provide access to all mechanical equipment and appliances to the code official for all required inspections. Where equipment and appliances are located in remote locations or at different floor or roof levels the contractor shall provide an approved ladder for inspection access. Where a pull-down ladder is provided, the ladder shall be installed with the top step facing in the direction of the access passageway and toward the highest side of the roof decking. It shall also be the responsibility of the mechanical contractor to coordinate all required inspections with the property owner or the owner's agent and the code official. Mechanical inspection personnel shall be available for such coordination between the hours of 8:30 am – 5:00 pm Monday through Friday, except holidays.

**Section 108.5 Stop work order is amended to read as follows:**

*108.5 Stop work order.* Upon notice from the Development Services Director or designee, work on any mechanical system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, the owner's agent or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the Development Services Director or designee shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work in or about the structure 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 guilty of an offense and upon conviction shall be punished as provided in Section 1-7 of the Code of Ordinances.

## **CHAPTER 2 DEFINITIONS**

Definition of the term "appliances" has hereby been deleted.

(OUBCC Amendment)

## **CHAPTER 3 GENERAL REGULATIONS**

### **Section 301.12 is amended to read as follows:**

*301.15 Wind Resistance.* Mechanical equipment, appliances and supports that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with the International Building Code, SMACNA HVAC Duct Construction Standards – Metal and Flexible, or other methods as approved by the code official.

(OUBCC Amendment)

### **Section 303.4.1 Construction equipment is added to read as follows:**

*M303.4.1 Construction equipment.* Construction equipment such as backhoes, other motorized earth moving equipment, etc., or sand-moving extensions of such equipment shall not travel within or over a stem wall area or foundation perimeter after plumbing, electrical or mechanical ducts, piping, equipment or materials have been installed.

*Exception:*

Construction equipment shall be permitted within said prohibited areas where such equipment does not travel over or adjacent to any duct, piping, equipment or materials subjecting them to physical damage, provided however that the code official shall be notified prior to the work and provided that the code official shall verify that no damage is done to the installation.

### **Section 304.3 Elevation of ignition source is amended to delete the exception:**

*304.3 Elevation of ignition source.* Equipment and appliances having an ignition source and located in hazardous locations and public garages, private garages, repair garages, automotive motor fuel-dispensing facilities and parking garages shall be elevated such that the source of ignition is not less than 18 inches (457 mm) above the floor surface on which the equipment or appliance rests. For the purpose of this section, rooms or spaces that are not part of the living space of a dwelling unit and that communicate directly with a private garage through openings shall be considered to be part of the private garage.

(OUBCC Amendment)

**Section 304.3.2 is added to read as follows:**

*304.3.2 Hazardous location installation.*

- a) Fuel burning central heating units shall be installed in accordance with Sections M303 and M304 of the International Mechanical Code, 2015 Edition, except that no fuel burning central heating units shall be installed under a stairwell.

*Exception:* This requirement shall not apply to areas under stairwells that are sprinkler protected.

- b) Appliances such as central heating units shall be installed in accordance with Sections M303 and M304 of the International Mechanical Code, 2015 Edition. Fuel-burning central heating units and fuel-burning water heaters installed in a garage or other hazardous location shall be protected by enclosing in a closet and comply with Section FG304.6, "Outdoor Combustion Air" of the International Fuel Gas Code, 2015 Edition. Where combustion air is taken from a hazardous location, no portion of a combustion air opening shall be located within 24 inches of the floor.
- c) Gas combustion type appliances and equipment installed in rooms or closets with doors which open to a garage or other hazardous location shall be installed in accordance with Sections M303 and M304 of this Code and the combustion air for such equipment shall be provided from an outdoor source unless otherwise approved.

(OUBCC Amendment)

**Section 304.11 Guards is amended to read as follows:**

*304.11 Guards.* Guards shall be provided where various components that require service relocated on a roof or elevated structure and have a condition as set forth in Sections 304.11.1 through 304.11.3. The top of the guard shall be located not less than 42 inches (1067 mm) above the elevated surface adjacent to the guard. The guard shall be constructed so as to prevent the passage of a 21-inch diameter (533 mm) sphere and shall comply with the loading requirements for guards as specified in the International Building Code®. Guards shall be provided at new components when added or replaced on an existing roof or elevated structure and have a condition as set forth in Sections 304.11.1 through 304.11.3. Exception: When approved by the authority having jurisdiction, guards are not required where permanent fall arrest/restraint anchorage connector devices that comply with ANSI/ASSE Z 359.1 are affixed for use during the entire roof covering lifetime. The devices shall be reevaluated for possible replacement when the entire roof covering is replaced. The devices shall be placed not more than 10 feet (3048 mm)

on center along hip and ridge lines and placed not less than 10 feet (3048 mm) from roof edges and the open sides of walking surfaces..

(OUBCC Amendment)

**Section 304.11.1 Roof edge is added to read as follows:**

*304.11.1 Roof edge.* Guards complying with 304.11 shall be provided when components are located within 10 feet (3048 mm) of a roof edge or open side of a walking surface or elevated structure and such edge or open side is located more than 30 inches (762 mm) above the floor, roof, or grade below. The guard shall extend not less than 30 inches (762 mm) beyond each end of the component that requires service.

(OUBCC Amendment)

**Section 304.11.2 Skylights is added to read as follows:**

*304.11.2 Skylights.* This section has been added to clarify the circumstances for the installation of guards around components near skylights and to provide exceptions to the requirement. This section has been added to read: 304.11.2 Skylights. Guards complying with Section 304.11 shall be provided when a skylight is within 10 feet (3048 mm) of the component that requires service. The guard shall extend 30 inches (762 mm) beyond the edge of the skylight.

*Exceptions:*

- a) Guards are not required when the skylight is located at least 42 inches (1067 mm) above the highest point of the walking surface adjacent to the skylight or component.
- b) Guards are not required if some other provision for skylight fall-through protection is provided and approved by the authority having jurisdiction.

(OUBCC Amendment)

**Section 304.11.3 Roof hatch is added to read as follows:**

*304.11.3 Roof hatch.* Guards complying with Section 304.11 shall be provided when a roof hatch is within 10 feet (3048 mm) of the component that requires service. The guard shall extend 30 inches (762 mm) beyond the edge of the roof hatch. If the component is within 10 feet (3048 mm) of the ladder access side of the roof hatch, the guard shall incorporate a self-closing, self-latching gate. The gate shall have a top edge of not less than 42 inches (1067 mm) above the elevated surface adjacent to the gate and shall not allow the passage of a 21 inch (533 mm) sphere. If a roof hatch exists within 10 feet of a roof edge that is located more than 30 inches (762 mm) above the floor, roof or grade below and a new component that requires services on that existing roof or elevated structure, than a guard complying

with Section 304.11 shall be added between the existing roof hatch and the roof edge.  
(OUBCC Amendment)

**Section 305.5.1 Location and protection of refrigerant piping is added to read as follows:**

*305.5.1 Location and protection of refrigerant piping.* Refrigerant piping installed within 1 1/2 inches (38 mm) of the underside of roof decks shall be protected from damage caused by nails and other fasteners.  
(OUBCC Amendment)

**Section 306.5 Equipment and appliances on roofs or elevated structures is added to read as follows:**

*306.5 Equipment and appliances on roofs or elevated structures:* Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access such equipment or appliances, an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). Such access shall not require the use of portable ladders. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall.

- a) Permanent ladders installed to provide the required access shall comply with the following minimum design criteria:
  - 1) The side railing shall extend above the parapet or roof edge not less than 30 inches (762 mm).
    - i.i. Ladders shall have rung spacing not to exceed 14 inches (356 mm) on center. The uppermost rung shall not be greater than 24 inches (610 mm) below the upper edge of the roof hatch, roof or parapet, as applicable.
  - 2) Ladders shall have a toe spacing not less than 6 inches (152 mm) deep.
  - 3) There shall be not less than 18 inches (457 mm) between rails.
  - 4) Rungs shall have a diameter not less than 0.75-inch (19 mm) and be capable of withstanding a 300-pound (136.1 kg) load.
  - 5) Ladders over 30 feet (9144 mm) in height shall be provided with offset sections and landings capable of withstanding 100 pounds per square foot (488.2 kg divided by meters squared). Landing dimensions shall be not less than the width of the ladder served. A guard rail shall be provided on all open sides of the landing.
  - 6) Climbing clearance. The distance from the centerline of rungs to the nearest permanent object on the climbing side of the ladder shall be not less than 30 inches (762 mm) measured perpendicular to the rungs. This distance shall be maintained from the point of ladder access to the bottom of the roof hatch. A minimum clear width of 15 inches (381 mm)

shall be provided on both sides of the ladder measured from the midpoint of and parallel with the rungs except where cages or wells are installed.

- 7) Landing required. The ladder shall be provided with a clear and unobstructed bottom landing area having a minimum dimension of 30 inches (762 mm) by 30 inches (762 mm) centered in front of the ladder.
  - 8) Ladders shall be protected against corrosion by an approved means.
  - 9) Access to ladders shall be provided at all times.
- b) Catwalks installed to provide the required access shall be not less than 24 inches (610 mm) wide and shall have railings as required for service platforms.

Exceptions:

1. This section shall not apply to Group R-3 occupancies.
2. This section shall not apply to appliance replacement.

(OUBCC Amendment)

**Section 307.2.1 Condensate disposal is added to read as follows:**

*307.2.1 Condensate disposal.* Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). Condensate drains shall be allowed to terminate to an approved pit or French drain consisting of a minimum of 24 inches by 24 inches by 24 inches (610 mm by 610 mm by 610 mm), or equivalent; of 1 inch (25 mm) washed rock. Such pits or French drains shall be located 30 inches (762 mm) minimum from outer edge of foundation to nearest edge of pit or French drain. Condensate shall not discharge into a street, alley or other areas so as to cause a nuisance.

(OUBCC Amendment)

**Section 307.2.3.1 Water-level monitoring devices is added to read as follows:**

*307.2.3.1 Water-level monitoring devices.* On down-flow units and all other coils that do not have a secondary drain or provisions to install a secondary or auxiliary drain pan, a water-level monitoring device shall be installed inside the primary drain pan. This device shall shut off the equipment served in the event that the primary drain becomes restricted. Devices installed in the drain line shall not be permitted. Exception: This section shall not apply to appliances installed in areas outside on the ground or elevated structure where condensate overflow does not damage building components or contents.

(OUBCC Amendment)

## **CHAPTER 5 EXHAUST SYSTEMS**

### **Section [F] 502.15 Repair garages is added to read as follows:**

[F] 502.15 *Repair garages.* Where Class I liquids or LP-gas are stored or used within a building having a basement or pit wherein flammable vapors could accumulate, the basement or pit shall be provided with ventilation designed in accordance with Section 2311.4.3 of the International Fire Code® to prevent the accumulation of flammable vapors therein.

(OUBCC Amendment)

### **Section [F] 502.16.1 Design is added to read as follows:**

[F] 502.16.1 *Design.* Indoor locations shall be ventilated utilizing air supply inlets and exhaust outlets arranged to provide uniform air movement to the extent practical. Inlets shall be uniformly arranged on exterior walls near floor level. Outlets shall be located within 18 inches (457 mm) of the high point of the room in exterior walls or the roof. Ventilation shall be by a continuous mechanical ventilation system or by a mechanical ventilation system activated by a continuously monitoring natural gas detection system, or for hydrogen, a continuously monitoring flammable gas detection system, each activating at a gas concentration of not more than 25 percent of the lower flammable limit (LFL). In all cases, the system shall shut down the fueling system in the event of failure of the ventilation system. The ventilation rate shall not be less than 1 cubic foot per minute per square foot [0.0051 cubic meters per (second square meter)] of room area.

(OUBCC Amendment)

### **Section 506.3.6 Grease duct clearances is hereby amended to read as follows:**

506.3.6 *Grease duct clearances.* Where enclosures are not required, Type 1 grease ducts shall be installed according to NFPA 96. Field applied grease duct enclosures shall be installed to ASTM E2336 Standards. A double wrap is required.

ASTM E2336 requires compliance to 5 fire tests as follows:

1. Section 16.1 requires non-combustibility to ASTM E136.
2. Section 16.2 requires 2-hour ASTM E119 Wall Panel Test.
3. Section 16.3. requires a durability test modeled after ASTM C518.
4. Section 16.4 requires an internal grease duct fire test to demonstrate performance during long term exposure to service conditions (500 degree Fahrenheit for 4 hours) and exposure to a standardized internal grease fire (2000 degree Fahrenheit for 30 minutes).
5. Section 16.5 requires a fire engulfment test run to the ASTM E119 fire curve which tests the capability of the duct and enclosure system to resist external fires, tests the integrity of the enclosure fastening and tests the through-penetration performance of the system.

**Section 506.3.1.1 Grease duct materials is added to read as follows:**

*506.3.1.1 Grease duct materials.* Grease ducts serving Type I hoods shall be constructed of non-galvanized carbon steel having a minimum thickness of 0.0575 inch (1.463 mm) (No. 16 gage) or stainless steel not less than 0.0450 inch (1.14 mm) (No. 18 gage) in thickness.

Exception: Factory-built commercial kitchen grease ducts listed and labeled in accordance with UL 1978 and installed in accordance with Section 304.1.  
(OUBCC Amendment)

**Section 507.2. Type I hoods has been added to read as follows:**

*507.2. Type I hoods.* Type I hoods shall be installed where cooking appliances produce grease or smoke as a result of the cooking process. Type I hoods shall be installed over medium-duty, heavy-duty, and extra-heavy-duty cooking appliances.

Exceptions:

- a) A Type I hood shall not be required for an electric cooking appliance where an approved testing agency provides documentation that the appliance effluent contains 5 mg/m<sup>3</sup> or less of grease when tested at an exhaust flow rate of 500 cfm (0.236 m<sup>3</sup>/s) in accordance with UL 710B.
  - b) In non-commercial cooking occupancies a residential or Type II hood can be installed over a medium-duty residential appliance when approved.
- (OUBCC Amendment)

**CHAPTER 6 DUCT SYSTEMS****Sec. 204-112. - Discontinuing service to dangerous installations hereby amended to read:**

*204-112 Discontinue service to dangerous installations.* The mechanical or plumbing inspector shall instruct the gas company to discontinue gas service to any residence or business in the city when, in his judgment, the gas installation is dangerous. Gas service will remain shut off until such time as corrections are made by a licensed installing agency and approved by the city.

**Sec. 204-113. - Violations and penalties hereby amended to read:**

*204-113 Violations and penalties.* Any person who shall violate a provision of this code or who fails to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical work in violation of this code, or in violation of a detailed statement or plan submitted and approved hereunder, or of a permit or certificate issued hereunder, shall be guilty of an offense and upon conviction shall be punished as provided in section 1-7 of the Code of Ordinances.

**SECTION 2:**

All other provisions established by this section shall remain the same, as if specifically set out herein.

**SECTION 3:**

That if any section, subsection, sentence, clause or phrase of this legislation is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this ordinance. The City of Yukon hereby declares that it would have passed this law, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

**Secs. 204-114—204-135. - Reserved.**

**SECTION 4: EMERGENCY:**

**WHEREAS**, it being immediately necessary for the preservation of the peace, health, safety and public good of the City of Yukon and the inhabitants thereof that the provisions of this ordinance be put into full force and effect, an emergency is hereby declared to exist by reason whereof this ordinance shall take effect, and be in full force from and after its passage, as provided by law.

**PASSED AND APPROVED** this 18<sup>TH</sup> day of AUGUST, 2020, with the Emergency Clause passed separately.

*Shelli Selby*  
MAYOR

ATTEST:  
*[Signature]*  
CITY CLERK

