

AN ORDINANCE TO ADOPT THE 2018 INTERNATIONAL FUEL GAS CODE BY AMENDING CHAPTER 15.22 OF THE RAPID CITY MUNICIPAL CODE

WHEREAS, in Chapter 15.22 of the Rapid City Municipal Code, the City of Rapid City has adopted the 2012 edition of the International Fuel Gas Code; and

WHEREAS, the City wishes to amend R.C.M.C. Chapter 15.22 to adopt the 2018 edition of the International Fuel Gas Code; and

WHEREAS, the City wishes to retain some of those additional requirements and local changes it had adopted with regard to the 2012 edition of the International Fuel Gas Code and apply them to the 2018 edition of the International Fuel Gas Code; and

WHEREAS, the Common Council desires to amend R.C.M.C. Chapter 15.22 to adopt the 2018 edition of the International Fuel Gas Code and to incorporate some of the additional requirements and local changes that the City had applied to the previous edition of the International Fuel Gas Code.

NOW THEREFORE, BE IT ORDAINED by the City of Rapid City, that Chapter 15.22 of the Rapid City Municipal Code is hereby amended to read in its entirety as follows:

CHAPTER 15.22: INTERNATIONAL FUEL GAS CODE

Section

- 15.22.010 IFGC adoption.
- 15.22.020 IFGC Chapter 1, Deleted in part and replaced in part.
- 15.22.0230 IFGC Chapter 2, Section 201.3 Terms defined in other codes–Amended.
- ~~15.22.030 IFGC Chapter 3, Section 301.2 Energy utilization–Deleted.~~
- 15.22.040 IFGC Chapter 3, Section 301.6 Plumbing connections–Amended.
- 15.22.050 IFGC Chapter 3, Section 301.11 Flood hazard–Amended.
- 15.22.060 IFGC Chapter 3, Section 303.3 Prohibited locations–Amended.
- 15.22.070 IFGC Chapter 3, Section [M] 306.1 Access for maintenance and replacement–Amended.
- 15.22.080 IFGC Chapter 3, Section [M] 306.5 Equipment and appliances on roofs or elevated structures–Amended.
- 15.22.090 IFGC Chapter 3, Section [M] 307.3 Drain pipe materials and sizes–Amended.
- 15.22.100 IFGC Chapter 3, Section 310 Electrical bonding–Deleted.
- 15.22.110 IFGC Chapter 6, Section 621.2 Prohibited use–Deleted.
- 15.22.120 IFGC Chapter 6, Section 621.4 Prohibited locations–Amended.
- 15.22.130 IFGC Chapter 6, Section 624.1.1 Installation requirements–Amended.
- 15.22.140 IFGC Chapter 6, Section 624.2 Water heaters utilized for space heating–Amended.

15.22.010 IFGC adoption.

There is adopted by the City of Rapid City, for the purpose of regulating fuel-gas appliances, that certain code published by the International Code Council, Inc., known as the International Fuel Gas Code, 2012~~8~~ edition, specifically Sections 108 and 109 of Chapter 1 and Chapters 2, 3, 5, 6, 7, 8 and Appendix B thereof. A copy of said code is on file in the office of the City Building Official. The administration and regulation of fuel-gas appliances shall be regulated by Chapter 15.04 Administration.

15.22.020 IFGC Chapter 1, Deleted in part and replaced in part.

The following sections of IFGC Chapter 1 are hereby deleted and replaced with comparable provisions found in Chapter 15.04 Administration of the Rapid City Municipal Code.

<u>Section 108 Violations</u>
<u>Section 109 Means of Appeal</u>

15.22.0230 IFGC Chapter 2, Section 201.3 Terms defined in other codes–Amended.

201.3 Terms defined in other codes. Where terms are not defined in this code and are defined in the current Electrical Code adopted by the City of Rapid City, International Building Code, International Fire Code, the current Mechanical Code adopted by the City of Rapid City, or the current Plumbing Code adopted by the City of Rapid City, such terms shall have meanings ascribed to them as in those codes.

~~15.22.030 IFGC Chapter 3, Section 301.2 Energy utilization–Deleted.~~

~~–IFGC Chapter 3, Section 301.2, Energy utilization, is hereby deleted in its entirety.~~

15.22.040 IFGC Chapter 3, Section 301.6 Plumbing connections–Amended.

IFGC Chapter 3, Section 301.6 Plumbing connections is hereby amended to read in its entirety as follows:

301.6 Plumbing connections. Potable water supply and building drainage system connections to appliances regulated by this code shall be in accordance with the current Plumbing Code adopted by the City of Rapid City.

15.22.050 IFGC Chapter 3, Section [BS] 301.11 Flood hazard–Amended.

IFGC Chapter 3, Section [BS] 301.11 Flood hazard is hereby amended to read in its entirety as follows:

[BS] 301.11 Flood hazard. See Chapter 15.32, Flood Area Construction Regulations, of the Rapid City Municipal Code.

15.22.060 IFGC Chapter 3, Section 303.3 Prohibited locations–Amended.

IFGC Chapter 3, Section 303.3 Prohibited locations is hereby amended to read in its entirety as follows:

303.3 Prohibited locations. Appliances shall not be located in, or obtain combustion air from, any of the following rooms or spaces:

1. Sleeping rooms.
2. Bathrooms.
3. Toilet rooms.
4. Storage closets.
5. Surgical rooms.

Exceptions:

1. Direct-vent appliances that obtain all combustion air directly from the outdoors.
2. Vented room heaters, wall furnaces, vented decorative appliances and decorative appliances for installation in vented solid fuel-burning fireplaces, provided that the room meets the required volume criteria of Section 304.5.
3. Appliances installed in an enclosure in which all combustion air is taken from sources other than a bedroom or bathroom. Access to such enclosure shall be through a solid weather-stripped door, equipped with an approved self-closing device.
4. A clothes dryer is installed in a residential bathroom or toilet room having a permanent opening with an area of not less than 100 square inches (0.06 m²) that communicates with a space outside of a sleeping room, bathroom, toilet room or storage closet.

303.3.1 Fireplaces and decorative appliances in Group I-2, Condition 2 occupancies. Gas fireplace appliances and decorative gas appliances shall be prohibited in Group I-2, Condition 2 occupancies except where such appliances are direct-vent appliances installed in public lobby and waiting areas that are not within smoke compartments containing patient sleeping areas. The appliance controls shall be located where they can be accessed only by facility staff. Such fireplaces shall comply with Sections 501.2 and 604.1 of this code and Section 915 of the International Fire Code as adopted in the Rapid City Municipal Code.

15.22.070 IFGC Chapter 3, Section [M] 306.1 Access for maintenance and replacement–Amended.

IFGC Chapter 3, Section [M] 306.1 Access for maintenance and replacement is hereby amended to read in its entirety as follows:

[M] 306.1 Access for maintenance and replacement. Appliances shall be accessible for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. A level working space at least 30 inches deep and 30 inches wide (762 mm by 762 mm) shall be provided in front of the control side to service an appliance.

Exception: This section shall not apply to replacement appliances installed in existing compartments and alcoves, where the working space clearances are in accordance with the equipment or appliance manufacturer's installation instructions.

15.22.080 IFGC Chapter 3, Section [M] 306.5 Equipment and appliances on roofs or elevated structures—Amended.

IFGC Chapter 3, Section [M] 306.5 Equipment and appliances on roofs or elevated structures is hereby amended to read in its entirety as follows:

[M] 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 12 feet 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 46 units vertical in 12 units horizontal (~~33 percent slope~~). Such access shall not require the use of portable ladders.

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).
2. Ladders shall have rung spacing not to exceed 14 inches (356 mm) on center. The uppermost rung shall be a maximum of 24 inches (610 mm) below the upper edge of the roof hatch, roof or parapet, as applicable.
3. Ladders shall have a toe spacing not less than 6 inches (152 mm) deep.
4. There shall be a minimum of 18 inches (457 mm) between rails.
5. Rungs shall have a minimum 0.75-inch (19 mm) diameter and be capable of withstanding a 300-pound (136.1 kg) load.
6. 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/m²). Landing

dimensions shall be not less than 18 inches (457 mm) and not less than the width of the ladder served. A guard rail shall be provided on all open sides of the landing.

7. Climbing clearance. The distance from the centerline of the rungs to the nearest permanent object on the climbing side of the ladder shall be a minimum of 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.

8. 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.

9. Ladders shall be protected against corrosion by approved means.

10. Access to ladders shall be provided at all times.

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.

Exception: This section shall not apply to Group R-3 occupancies.

[M] 306.5.1 Sloped roofs. Where appliances, equipment, fans or other components that require service are installed on a roof having a slope of 3 units vertical in 12 units horizontal (25-percent slope) or greater and having an edge more than 30 inches (762 mm) above grade at such edge, a level platform shall be provided on each side of the appliance or equipment to which access is required for service, repair or maintenance. The platform shall be not less than 30 inches (762 mm) in any dimension and shall be provided with guards. The guards shall extend not less than 42 inches (1067 mm) above the platform, 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 specified in the International Building Code as amended in the Rapid City Municipal Code. Access shall not require walking on roofs having a slope greater than 6 units vertical in 12 units horizontal. Where access involves obstructions greater than 30 inches (762 mm) in height, such obstructions shall be provided with ladders installed in accordance with Section 306.5 or stairways installed in accordance with the requirements specified in the International Building Code as amended in the Rapid City Municipal Code in the path of travel to and from appliances, fans or equipment requiring service.

[M] 306.5.2 Electrical requirements. A receptacle outlet shall be provided at or near the appliance location in accordance with NFPA 70.

15.22.090 IFGC Chapter 3, Section [M] 307.3 Drain pipe materials and sizes—Amended.

IFGC Chapter 3, Section [M] 307.3 Drain pipe materials and sizes is hereby amended to read in its entirety as follows:

[M] 307.3 Drain pipe materials and sizes. Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS, CPVC or PVC pipe or tubing. All components shall be selected for the pressure and temperature rating of the installation. Joints and connections shall be made in accordance with the applicable provisions of the current ~~p~~Plumbing Code adopted by the City of Rapid City relative to the material type. Condensate waste and drain line size shall be not less than 3/4-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes from more than one unit are manifold together for condensate drainage, the pipe or tubing shall be sized in accordance with an approved method.

15.22.100 IFGC Chapter 3, Section 310 Electrical bonding–Deleted.

IFGC Chapter 3, Section 310, Electrical bonding, is hereby deleted in its entirety.

15.22.110 IFGC Chapter 6, Section 621.2 Prohibited use–Deleted.

IFGC Chapter 6, Section 621.2, Prohibited use, is hereby deleted in its entirety.

15.22.120 IFGC Chapter 6, Section 621.4 Prohibited locations–Amended.

IFGC Chapter 6, Section 621.4 Prohibited locations is hereby amended to read in its entirety as follows:

621.4 Prohibited locations. Unvented room heaters shall not be installed within occupancies other than Group U, unattached accessory structures. The location of unvented room heaters shall also comply with Section 303.3 as amended.

15.22.130 IFGC Chapter 6, Section 624.1.1 Installation requirements–Amended.

IFGC Chapter 6, Section 624.1.1 Installation requirements is hereby amended to read in its entirety as follows:

624.1.1 Installation requirements. The requirements for water heaters relative to sizing, relief valves, drain pans and scald protection shall be in accordance with the current Plumbing Code adopted by the City of Rapid City.

15.22.140 IFGC Chapter 6, Section 624.2 Water heaters utilized for space heating–Amended.

IFGC Chapter 6, Section 624.2 Water heaters utilized for space heating is hereby amended to read as follows:

624.2 Water heaters utilized for space heating. Water heaters utilized both to supply potable hot water and provide hot water for space-heating applications shall be listed and labeled for

such applications by the manufacturer and shall be installed in accordance with the manufacturer's installation instructions and the current Plumbing Code adopted by the City of Rapid City.

CITY OF RAPID CITY

Mayor

ATTEST

Finance Officer

(seal)

First Reading:
Second Reading:
Published:
Effective: