

ORDINANCE NO. 236-18

AN ORDINANCE TO AMEND AND REENACT SECTION 7-0701 AND TO REPEAL AND REENACT SECTION 7-0702 OF THE REVISED ORDINANCES OF 2000 OF THE CITY OF MAPLETON RELATING TO THE INTERNATIONAL FUEL GAS CODE.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MAPLETON, NORTH DAKOTA:

SECTION 1. Section 7-0701 of the Revised Ordinances of 1990 of the City of Mapleton is hereby amended and reenacted to read as follows:

7-0701. ADOPTION OF INTERNATIONAL FUEL GAS CODE. There is hereby adopted by reference by the City Council, for the purpose of prescribing regulations governing standards, relative to housing in the City of Mapleton, that certain code known as the International Fuel Gas Code, recommended and compiled by the International Conference of Building Officials, being particularly the ~~2009~~ 2015 edition thereof, as the same are now established in said code, a copy of which is on file in the office of the Auditor for the City of Mapleton, with the exception of the sections hereinafter set forth affecting local conditions of the City of Mapleton, which sections shall be substituted for and in lieu of like sections or paragraphs in said International Fuel Gas Code; the City Council of said City of Mapleton, by this section hereby approves and adopts such rules and regulations, so modified, for the use and application within the city limits of Mapleton, North Dakota, as well as for any area within the extraterritorial zoning jurisdiction of the City. Provided, that any amendments of the ~~2009~~ 2015 edition of the Code may be adopted by the City by resolution.

SECTION 2. Section 7-0702 of the Revised Ordinances of 2000 of the City of Mapleton is hereby repealed and reenacted to read as follows:

7-0702. AMENDMENT TO INTERNATIONAL FUEL GAS CODE. The International Fuel Gas Code, as adopted in Section 7-0701 is hereby changed and amended as follows:

SECTION 101.1 is hereby amended to read as follows:

101.1 Title. These regulations shall be known as the *International Fuel Gas Code* of ~~[NAME OF JURISDICTION]~~ the City of Mapleton, hereinafter referred to as "this code."

SECTION 103.4 is hereby amended to read as follows:

103.4 Liability. The code official, member of the board of appeals or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered ~~civily or criminally~~ liable personally, and is hereby relieved from personal liability for any damage accruing to persons or property as a result of an act or by reason of an act or omission in the discharge of official duties. Any suit instituted against any officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be defended by the legal representative of the jurisdiction until the final termination of the proceedings. The code official or any subordinate shall not be liable for costs in an action, suit or proceeding that is instituted in pursuance of the provisions of this code.

This code shall not be construed to relieve from or lessen the responsibility of any person owning, operating, or controlling any building or structure for any damages to persons or property caused by defects, nor shall the code enforcement agency or the city be held as assuming any such liability by reason of the inspection authorized by this code or any permits or certificates issued under this code.

SECTION 103.4.1 is hereby deleted in its entirety.

SECTION 106.5.8 is hereby deleted in its entirety.

SECTION 106.6.2 is hereby amended as follows:

106.6.2 Fee schedule. The fees for mechanical work shall be as indicated in the ~~following~~ schedule as established by the West Fargo Board of City Commissioners.

SECTION 106.6.3 is hereby amended as follows:

106.6.3 Fee refunds. The code official ~~shall~~ is authorized to order the refunding of fees as follows.

1. The full amount of any fee paid hereunder which was erroneously paid or collected.
2. Not more than ~~[SPECIFY PERCENTAGE]~~ eighty [80] percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.
3. Not more than ~~[SPECIFY PERCENTAGE]~~ eighty [80] percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

The code official shall not authorize the refunding of any fee paid, except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

SECTION 108.4 is hereby amended as follows:

[A] 108.4 Violation penalties. Persons who shall violate a provision of this code, fail to comply with any of the requirements thereof or erect, install, alter or repair work in violation of the *approved construction documents* or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be ~~guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment~~ subjected to penalties as prescribed by law. ~~Each day that a violation continues after due notice has been served shall be deemed a separate offense.~~

SECTION 109 is hereby deleted in its entirety.

SECTION 201.3 is hereby amended to read as follows:

201.3 Terms defined in other codes. Where terms are not defined in this code and are defined in the *International Building Code, International Fire Code, International Fuel Gas Code, National Electrical Code and the North Dakota State Wiring Standards* or the ~~*International*~~ *North Dakota State Plumbing Code*, such terms shall have meanings ascribed to them as in those codes.

SECTION 303.3 is hereby amended to read as follows:

303.3 Prohibited locations. Appliances shall not be located in sleeping rooms, bathrooms, toilet rooms, storage closets or surgical rooms, or in a space that opens only into such rooms or spaces, except where the installation complies with one of the following:

1. The *appliance* is a direct-vent *appliance* installed in accordance with the conditions of the listing and the manufacturer's instructions.
2. Vented room heaters, wall furnaces, vented decorative appliances, vented gas fireplaces, vented gas fireplace heaters and decorative appliances for installation in vented solid fuel-burning fireplaces are installed in rooms that meet the required volume criteria of Section 304.5.
- ~~3. A single wall-mounted unvented room heater is installed in a bathroom and such unvented room heater is equipped as specified in Section 621.6 and has an input rating not greater than 6,000 Btu/h (1.76 kW). The bathroom shall meet the required volume criteria of Section 304.5.~~
- ~~4. A single wall-mounted unvented room heater is installed in a bedroom and such unvented room heater is equipped as specified in Section 621.6 and has an input rating not greater than 10,000 Btu/h (2.93 kW). The bedroom shall meet the required volume criteria of Section 304.5.~~
- ~~5.3.~~ The *appliance* is installed in a room or space that opens only into a bedroom or bathroom, and such room or space is used for no other purpose and is provided with a solid weather-stripped door equipped with an *approved* self-closing device. All *combustion air* shall be taken directly from the outdoors in accordance with Section 304.6.

SECTION 304.6.1 is hereby amended to read as follows:

304.6.1 Two-permanent-openings method. Two permanent openings, one commencing within . . .

Where directly communicating with the outdoors, or where communicating with the outdoors through vertical ducts, each opening shall have a minimum

free area of 1 square inch per 4,000 Btu/h (550 mm²/kW) of total input rating of all appliances in the enclosure. [see Figures 304.6.1(1) and 304.6.1(2)].

Where communicating . . .

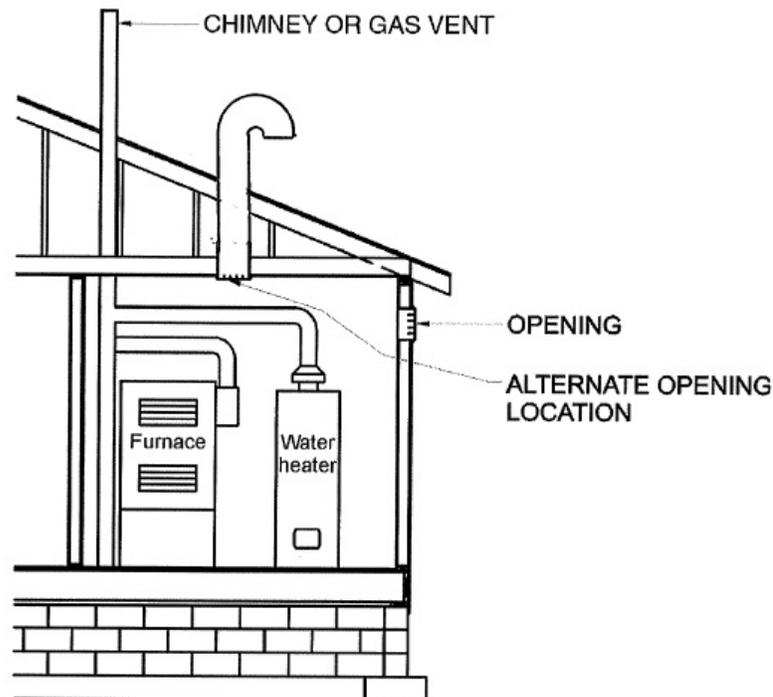
FIGURE 304.6.1 (1) is hereby deleted in its entirety.

FIGURE 304.6.1 (2) is hereby deleted in its entirety.

SECTION 304.6.2 is hereby amended to read as follows:

304.6.2 One-permanent-opening method. One permanent opening, commencing within 12 inches (305 mm) of the top of the enclosure, shall be provided. The *appliance* shall have clearances of at least 1 inch (25 mm) from the sides and back and 6 inches (152 mm) from the front of the *appliance*. The opening shall directly communicate with the outdoors or through a vertical or horizontal duct to the outdoors, ~~or spaces that freely communicate with the outdoors~~ (see Figure 304.6.2) and shall have a minimum free area of 1 square inch per 3,000 Btu/h (734mm²/kW) of the total input rating of all appliances located in the enclosure and not less than the sum of the areas of all vent connectors in the space.

FIGURE 304.6.2 is hereby amended to reference an alternate opening location as shown.



SECTION 304.11 hereby amended as follows:

304.11 Combustion air ducts. *Combustion air* ducts shall . . .

1. Ducts shall . . .
5. Ducts shall not ~~be screened where terminating~~ terminate in an attic space.
6. Horizontal upper . . .

SECTION 403.3 is hereby amended to read as follows:

403.3 Other materials. Material not covered by the standards specifications listed herein shall be investigated and tested to determine that it is safe and suitable for the proposed service, and, in addition, shall be recommended for that service by the manufacturer and shall be *approved* by the code official. Listed LPG hose may be used with natural gas when used for temporary heating at a maximum length of 50 feet.

SECTION 403.10.1.1 is hereby added to read as follows:

403.10.1.1 Gas Supply systems with pressures 5 psig or greater and gas pipe joints 2½ inches or larger, regardless of pressure, shall be welded.

SECTION 403.10.4 to hereby amended to read as follows:

403.10.4 Metallic fittings. Metallic fittings shall . . .

1. Threaded fittings in sizes ~~larger than 4 inches (102mm)~~ 2½ inches or larger shall not be used except where *approved*.
2. Fittings used . . .

SECTION 406.4 is hereby amended to read as follows:

406.4 Test pressure measurement. Test pressure shall be measured with a manometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made. ~~Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure.~~ Dial gauges used to measure test pressures shall be performed with gauges of 2 psi increment or less and have a range not exceeding 100 psi unless otherwise approved.

SECTION 406.4.1 is hereby amended to read as follows:

406.4.1 Test pressure. The test pressure to be used shall be no less than 1 1/2 times the proposed maximum working pressure, but not less than ~~3 psig (20 kPa gauge)~~ 25 psig, irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress

in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

SECTION 408.2 is hereby amended to read as follows:

408.2 Drips. Where wet gas exists, a drip shall be provided at any point in the line of pipe where condensate could collect. ~~A drip shall also be provided at the outlet of the meter and shall be installed so as to constitute a trap wherein an accumulation of condensate will shut off the flow of gas before the condensate will run back into the meter.~~

SECTION 411.2 is hereby amended to read as follows:

411.2 Manufactured home connections. Manufactured homes shall be connected to the distribution *piping* system by ~~one of the following materials:~~

- ~~1. Metallic pipe in accordance with Section 403.4.~~
- ~~2. Metallic tubing in accordance with Section 403.5.~~
3. Listed and labeled connectors in compliance with ANSI Z21.75/CSA 6.27 and installed in accordance with the manufacturer's installation instructions.

SECTION 415.1 is hereby amended to add the following:

415.1 Interval of support. *Piping* shall be supported at intervals not exceeding the spacing specified in Table 415.1. Spacing of supports for CSST shall be in accordance with the CSST manufacturer's instructions. In addition to the requirements of Table 415.1, piping and tubing shall be supported within 2 feet of every bend or angle.

SECTION 501.8 is hereby amended by deleting item 8 and renumbering as follows:

501.8 Appliances not to be vented. The following appliances . . .

1. Ranges. . . .
- ~~8. Room heaters *listed* for unvented use.~~
- ~~9.~~ 8. Direct-fired makeup air heaters.
- ~~10.~~ 9. Other appliances *listed* for unvented use and not provided with flue collars.
- ~~11.~~ 10. Specialized equipment of limited input such as laboratory burners and gas lights.

SECTION 501.12 is hereby amended to read as follows:

501.12 Residential and low-heat appliances flue lining systems. Flue lining systems for use with residential-type and low-heat appliances shall be limited to the following:

1. Clay flue lining complying with the requirements of ASTM C 315 or equivalent when each appliance connected into the masonry chimney has a minimum input rating greater than 400,000 Btu/h. Clay flue lining shall be installed in accordance with the *International Building Code*.
2. *Listed* chimney lining systems complying with UL1777.
3. Other *approved* materials that will resist, without cracking, softening or corrosion, flue gases and condensate at temperatures up to 1,800°F (982°C).
 - a. Aluminum (1100 or 3003 alloy or equivalent) not less than 0.032 inches thick to 8 inches diameter.
 - b. Stainless steel (304 or 430 alloy or equivalent) not less than 26 gauge (0.018 inches thick) to 8 inches diameter or not less than 24 gauge (0.024 inches thick) 8 inches diameter and larger.

When a metal liner is used other than a listed chimney liner a condensation drip tee shall be installed and supported in an approved manner.

SECTION 503.5.3 is hereby amended to read as follows:

503.5.3 Masonry chimneys. Masonry chimneys shall be built and installed in accordance with NFPA 211 and shall be lined ~~with *approved* clay flue lining, a *listed* chimney lining system or other *approved* material that will resist corrosion, erosion, softening or cracking from vent gases at temperatures up to 1,800°F (982°C).~~ as per sec. 501.12.

SECTION 503.5.6.1 is hereby amended to read as follows:

503.5.6.1 Chimney lining. Chimneys shall be lined in accordance with NFPA 211 and Section 501.12.

Exception: Where an existing chimney complies with Sections 503.5.6 through 503.5.6.3 and its sizing is in accordance with Section 503.5.5, its continued use shall be allowed ~~where the *appliance* vented by such chimney is replaced by an *appliance* of similar type, input rating and efficiency. when, in more than one appliance venting system the secondary appliance, such as a water heater, is replaced and the primary heating appliance remains.~~

SECTION 614.8.2 is hereby amended as follows:

614.8.2 Duct Installation. Exhaust ducts shall be supported at 4-foot (1219 mm) intervals and secured in place. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. Ducts shall not be joined with screws or similar fasteners that protrude more than 1/8 inch (3.2mm) into the inside of the duct.

SECTION 621 is hereby deleted in its entirety.

SECTION 3. Effective Date. This ordinance shall be in full force and effect from and after the date of its final passage and publication.

Mayor

ATTEST:

City Auditor

Date of First Reading:

Date of Second Reading:

Date of Publication: