



2009
International Fuel
Gas Code
Amendments

September 15, 2010

PLANNING, DEVELOPMENT AND TRANSPORTATION
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ORDINANCE NO. 102, 2010
OF THE COUNCIL OF THE CITY OF FORT COLLINS
AMENDING CHAPTER 5, ARTICLE IV OF THE CODE OF THE
CITY OF FORT COLLINS FOR THE PURPOSE OF REPEALING THE 2003
INTERNATIONAL FUEL GAS CODE AND ADOPTING THE
2009 *INTERNATIONAL FUEL GAS CODE*, WITH AMENDMENTS

WHEREAS, since 1924, the City has reviewed, amended and adopted the latest nationally recognized building standards available for the times; and

WHEREAS, upon recommendation of City staff, the City Council has determined that it is in the best interests of the City to align the five interconnected basic construction codes under one publication year; and

WHEREAS, the five interconnected basic construction codes are the *International Building Code*, *International Residential Code*, *International Mechanical Code*, *International Fuel Gas Code*, and *International Energy Conservation Code*; and

WHEREAS, the City Council has determined that the 2009 publication year of the five interconnected basic construction codes ought to be adopted and that their counterpart codes previously adopted should be repealed both in order to align the publication years of the codes and also because the 2009 publications contain improvements in construction code regulation; and

WHEREAS, City staff has conducted a significant public outreach program, working with the regulated construction industry and building professionals; and

WHEREAS, the adoption of the five interconnected basic construction codes has been presented to and recommended by the Affordable Housing Board, the Commission on Disability, the Air Quality Advisory Board, the Natural Resources Advisory Board, the Building Review Board, the Electric Board, the Landmark Preservation Commission and the Water Board; and

WHEREAS, the City Council has determined that it is in the best interest of the health, safety and welfare of the City and its citizens that the 2003 *International Fuel Gas Code*, as amended be repealed and that in its place, the 2009 *International Fuel Gas Code* be adopted, with amendments.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF FORT COLLINS as follows:

Section 1. That Section 5-111 of the Code of the City of Fort Collins is hereby amended to read as follows:

Sec. 5-111. Adoption of standards for fuel gas piping, equipment and accessories.

Pursuant to the power and authority conferred on the City Council by Section 31-16-202, C.R.S., and Article II, Section 7 of the Charter, the City Council hereby repeals the *2003 International Fuel Gas Code* (2003 IFGC) and adopts as the fuel gas code of the City, the *2009 International Fuel Gas Code* (2009 IFGC), published by the International Code Council which shall have the same force and effect as though set forth in full herein. The subject matter of the *2009 International Fuel Gas Code* (2009 IFGC) adopted herein includes comprehensive regulations governing the design, installation, maintenance, alteration and inspection of fuel gas piping systems, fuel gas utilization equipment and related accessories for the purposes of protecting public health, safety and general welfare.

Section 2. That Section 5-112 Code of the City of Fort Collins is hereby repealed and reenacted to read in its entirety as follows:

Sec. 5-112 Amendments and deletions to code.

The *2009 International Fuel Gas Code* adopted herein is hereby amended in the following respects:

(1) *Section 101.1 Title* is amended to read as follows:

“**101.1 Title.** These regulations shall be known as the *Fuel Gas Code* of the City of Fort Collins, hereinafter referred to as “this code.”

(2) *Section 102.8 reference codes and standards*, is amended to read as follows:

“**Section 102.8 reference codes and standards** The codes and standards referenced herein shall be those that are listed in Section 101.4, entitled ‘Referenced codes’ of the adopted *International Building Code* and shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and referenced codes and standards, the provisions of this code shall apply.”

(3) *Section 103 Department of inspection* is amended in its entirety to read as follows:

“**SECTION 103 – CODE ADMINISTRATION**

103.1 Entity charged with code administration shall be as determined in accordance with Section 103, entitled ‘Code Administration’ of the adopted *International Building Code*.”

(4) *Section 106.6 Fees* is amended in its entirety to read as follows:

“SECTION 106.6 FEES

106.6 Payment of fees. All items relating to fees shall be as specified and in accordance with Section 109, entitled ‘Fees’ of the adopted *International Building Code*.”

(5) *Section 108.4 Violation penalties*, is amended to read as follows:

“108.4 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a misdemeanor subject to the penalties and fines pursuant to Section 1-15 of the Code of the City, punishable by a fine of not more than \$1,000, or by imprisonment not exceeding 180 days, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.”

(6) *Section 108.4.1 Work commencing before permit issuance* is hereby added to read as follows:

“108.4.1 Work commencing before permit issuance. In addition to the penalties set forth in 108.4, any person or firm who, before obtaining the necessary permit(s), commences any construction of, or work on, a building, structure, electrical, gas, mechanical or plumbing system that is not otherwise exempted from obtaining a permit, shall be subject to a processing and penalty fee in addition to the standard prescribed permit fee. Such additional fee shall be equal to the permit fee, except that such fee shall not be less than \$50 nor more than \$1,000 for the first such violation. A person or firm committing the same such violation repeatedly is subject to processing and penalty fees equal to double the amount of the permit fee or double the amount of the preceding violation, whichever is greater, for every same such subsequent violation committed thereafter within any 180-day period. The foregoing fees may be appealed to the City Manager pursuant to Chapter 2, Article VI of the Code of the City.”

(7) *Section 303.3 Prohibited locations* is amended by deleting Exceptions "3" and "4"

(8) *Section 304.11 Combustion air ducts item #1 exception* is amended to read as follows:

“EXCEPTION:

Where the installation of galvanized steel ducts is not practical due to existing finish materials within dwelling units that are undergoing alteration or reconstruction, unobstructed stud and joist spaces shall not be prohibited from conveying combustion air, provided that not more than one required fireblock is removed.”

(9) *Section 304.11 Combustion air ducts*, is amended by adding item #9 to read as follows:

“9. All combustion air openings or ducts shall be readily identifiable with an approved label or by other means warning persons that obstruction of such openings or ducts may cause fuel-burning equipment to release combustion products and dangerous levels of carbon monoxide into the building.”

(10) *Section 305.3 Elevation of ignition source* is amended to read as follows:

“**305.3 Elevation of ignition source.** Electrical devices, equipment and appliances having an ignition source shall be elevated such that the source of ignition is not less than 18 inches (457 mm) above the floor in hazardous locations and public garages, private garages, repair garages, motor fuel-dispensing facilities and parking garages. 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.”

(11) *Section 305.3 Elevation of ignition source* is amended by deleting the exception:

(12) *Section 308.4.6 Clearance from supply ducts* is amended to read as follows:

“**308.4.6 Clearance from supply ducts.** Central-heating furnaces where the bonnet temperature exceeds 150°F (68°C), shall have the clearance from supply ducts within 3 feet (914 mm) of the furnace plenum be not less than that specified from the furnace plenum. No clearance is necessary beyond this distance.”

(13) *Section 404.7 Above-ground piping outdoors* is amended to read as follows:

“**404.7 Above-ground piping outdoors.** All piping installed outdoors shall be elevated not less than 6 inches (152 mm) above ground and where installed across roof surfaces, shall be elevated not less than 3½ inches (89 mm) above the roof surface. Piping installed above ground, outdoors, and installed across the surface of roofs shall be securely supported and located where it will be protected from physical damage. Where passing through an outside wall, the piping shall also be protected against corrosion by coating or wrapping with an inert material. Where piping is encased in a protective pipe sleeve, the annular space between the piping and the sleeve shall be sealed.”

(14) *Section 404.10 Minimum burial depth* is amended to read as follows:

“**404.10 Minimum burial depth.** Underground piping systems shall be installed a minimum depth of 18 inches (457 mm) below grade, except as provided for in Section 404.10.1.”

(15) *Section 404.10.1 Individual outside appliances*, is amended to read as follows:

“404.10.1 Individual outside appliances. Individual lines to outside lights, grills or other appliances shall be installed a minimum of 18 inches (457 mm) below finished grade.

EXCEPTION:

Approved materials installed a minimum of 6 inches (152 mm) below finished grade when covered with a concrete slab 4 inches (102 mm) in minimum thickness.”

(16) *Section 404.13 Outlet closure* is amended to read as follows:

“404.13 Outlet closures. Gas outlets and fittings which allow for future gas line expansion that do not connect to appliances shall be provided with an approved gas shutoff valve with the end capped gas-tight.

EXCEPTION:

1. *Listed and labeled* flush-mounted-type quick disconnect devices and *listed and labeled* gas convenience *outlets* shall be installed in accordance with the manufacturer’s installation instructions.

2. Drip/dirt legs installed at the floor level at appliances.”

(17) *Section 405.1 General* is amended to read as follows:

“405.1 General. Changes in direction of rigid metallic pipe specified in Section 403.4 shall be made only by the use of fittings and factory bends.”

(18) *Section 405.2 Metallic pipe* is deleted in its entirety:

(19) *Section 406.4.1 Test pressure* is hereby amended to read as follows:

“406.4.1 Test pressure. The test pressure to be used shall be not less than one and one-half times the proposed maximum working pressure, but not less than 10 psig (67 kPa gauge) 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.”

(20) *Section 409.5.2 Vented decorative appliances and room heaters* is amended to read as follows:

“409.5.2 Vented decorative appliances and room heaters. Shutoff valves for vented decorative appliances, room heaters and decorative appliances for installation in vented fireplaces shall be permitted to be installed in an area remote from the appliances where such valves are provided with ready access. Such valves shall be permanently identified and shall serve no other appliance. Remote valves shall be operable on the same floor as

the appliance served and within 12 feet (3.66 m) of the appliance as measured along the floor line. The piping from the shutoff valve to within 6 feet (1829 mm) of the appliance shall be designed, sized and installed in accordance with Sections 401 through 408.”

(21) *Section 410.3 Venting of regulators* is amended to read as follows:

“**410.3 Venting of regulators.** Pressure regulators that require a vent shall be vented directly to the outdoors. The vent shall be designed to prevent the entry of insects, water and foreign objects. Vents shall not terminate within 3 feet (0.916 m) of openings into the building.”

(22) *Section 501.8 Appliances not required to be vented* is amended by deleting items #8 and #10:

(23) *Section 503.2.2 Well-ventilated spaces*, is hereby deleted.

(24) *Section 503.5.6.1 Chimney lining* is hereby amended by deleting the exception:

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

(25) *Section 614 Exhaust installation* is amended to read as follows:

“**614.4 Exhaust installation.** Exhaust ducts for clothes dryers shall terminate on the outside of the building and shall be equipped with a backdraft damper. Dryer exhaust duct terminations shall not be located within 36 inches (914 mm) of exterior openings into conditioned spaces, crawl spaces and attics. Screens shall not be installed at the duct termination. Ducts shall not be connected or installed with sheet metal screws or other fasteners that will obstruct the flow. Clothes dryer exhaust ducts shall not be connected to a vent connector, vent or chimney. Clothes dryer exhaust ducts shall not extend into or through ducts or plenums.”

(26) *Section 614.6.5.2 Manufacturer’s instructions* is deleted in its entirety:

(27) *Section 621 Unvented room heaters*, is deleted in its entirety.

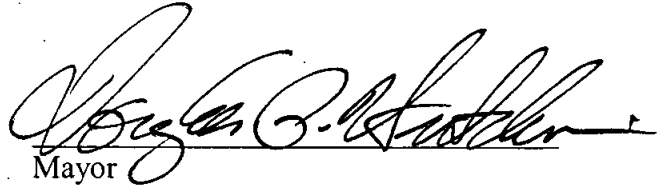
(28) *Section 623.3.1 Gas oven ventilation* is added to read as follows:

“**623.3.1 Gas oven ventilation.** Residential kitchens with gas ovens shall be supplied with an exhaust system vented to the outside. Ducts serving kitchen exhaust systems shall not terminate in an attic or crawl space or areas inside the building and shall not induce or create a negative pressure in excess of negative 3 Pa or adversely affect gravity-vented appliances.”

(29) *Section 630.3 Combustion and ventilation air* is amended to read as follows:

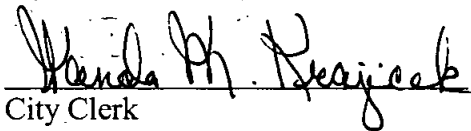
“630.3 (IFGS) Combustion and ventilation air. Where infrared heaters are installed, natural or mechanical means shall provide outdoor ventilation air at a rate of not less than 4 cfm per 1,000 Btu/h (0.38 m3/min/kW) of the aggregate input rating of all such heaters installed in the space. Exhaust openings for removing flue products shall be above the level of the heaters.”

Introduced, considered favorably on first reading, and ordered published this 7th day of September, A.D. 2010, and to be presented for final passage on the 21st day of September, A.D. 2010.



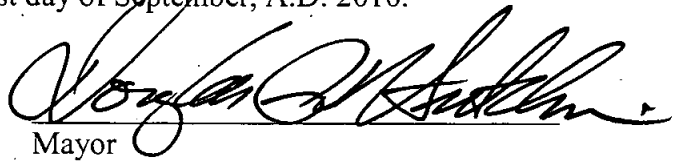
Mayor

ATTEST:



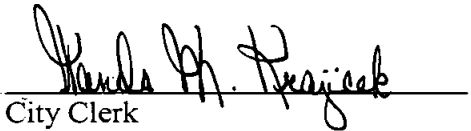
City Clerk

Passed and adopted on final reading on the 21st day of September, A.D. 2010.



Mayor

ATTEST:



City Clerk