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Sponsored by: Ollis, Lear and McGull

First Reading: November 4, 2019

Second Reading: November 18, 2019

COUNCIL BILL 2019 - 255

GENERAL ORDINANCE 6559

AN ORDINANCE

1 AMENDING Chapter 36 of the Springfield City Code, known as the 'Land Development
2 Code,' by repealing Article XIV, 'Fuel Gas Code,' in its entirety, and
3 enacting in lieu thereof a new Article XIV, 'Fuel Gas Code.'
4 (Recommended by Plans and Policies Committee.)
5 _____
6

7 BE IT ORDAINED, BY THE COUNCIL OF THE CITY OF SPRINGFIELD,
8 MISSOURI, as follows, that:
9

10 Section 1 – Springfield City Code, Chapter 36, Article XIV, 'Fuel Gas Code,' is
11 repealed in its entirety and a new Article XIV is enacted in lieu thereof, to read as
12 follows:
13

14 (Note: Language to be added is underlined and language being removed is ~~stricken~~.)
15

16 ARTICLE XIV. – FUEL GAS CODE

17
18 Sec. 36-1401. – Adoption of 2018 Fuel Gas Code.
19

20 City Council hereby adopts the 2018 International Fuel Gas Code as published by the
21 International Code Council, and all referenced standards therein as if spelled out in this
22 Ordinance, except such portions thereof as are hereinafter deleted, modified, or
23 amended. This Code shall be designated as Article XIV, 'Fuel Gas Code,' of Chapter
24 36, of the Springfield City Code, known as the 'Land Development Code', one (1) copy
25 of said Code, which shall remain on file in the office of the City Clerk, Busch Municipal
26 Building, 840 Boonville Avenue, Springfield, Missouri.
27

28 Sec. 36-1402. – Deletions, modifications, amendments, and additions.
29

30 The 2018 International Fuel Gas Code, as adopted, is hereby amended and changed as
31 follows:
32

(a) Chapter 1 is repealed in its entirety because code enforcement is covered in Springfield City Code Chapter 36, Land Development Code, Article I, Administration and Enforcement of Codes and Article X, Uniform Enforcement Procedures.

(b) Because Chapter 1 is repealed in its entirety, any cross references to Chapter 1 in subsequent chapters are replaced by the provisions in Article I that correspond, in content, to such cross references.

(c) All adopted chapters and appendices include all errata hereafter published by the International Code Council after the date of the first printing of the 2018 International Fuel Gas Code.

Section 301 (IFGC) General

301.11 Flood hazard. For structures located in flood-hazard areas, the appliance, equipment, and system installations regulated by this Code shall be located at or above the elevation required by Section 1612 of the International Building Code for utilities and attendant equipment. comply with Chapter 36, Article XVII, Floodplain Management, of the City Code.

Section 401 (IFGC) General

401.5 Identification. ~~For other than black steel pipe, exposed piping shall be identified by a yellow label marked "Gas" in black letters. The marking shall be spaced at intervals not exceeding 5 feet (1524 mm). The marking shall not be required on pipe located in the same room as the equipment served.~~ All gas piping shall be identified by a yellow background marked "Gas" in black letters. Identification shall be in the form of a tag, stencil, or other permanent marking. Such identification shall be clearly and easily readable from the floor of the room of its location. Spacing on black steel pipe shall be at intervals of not more than 15 feet in concealed locations, 25 feet in exposed locations, and not less than once in any room space. Spacing for all other piping materials shall be at intervals not exceeding 5 feet and not less than once in any room space.

Section 402 (IFGC) Pipe sizing

Subsection 402.7 is repealed and replace with:

402.7 Operating pressure. The standard operating pressure for piping systems located inside buildings shall be 0.25 psig. Design operating pressures other than 0.25 psig shall only be allowed in areas where the gas supplier has sufficient main-line delivery pressure to assure adequate supply. The installer shall be responsible for verifying the availability of elevated pressure with the gas supplier.

402.7.1 Operating pressures of 2 psig or less. For operating pressures of 2 psig or

less, the piping material shall be in conformance with Section 403 of the 2018 International Fuel Gas Code, as amended herein.

402.7.2 Pressures above 2 psig. Operating pressures above 2 psig shall only be allowed if all the following conditions are met:

1. Adequate pressure is available from the fuel-gas supplier; and,
2. The piping system is in an area zoned to allow commercial, industrial, or heavy manufacturing uses;
3. The connected load is 1000 CFH or greater and the facility has connected equipment that requires higher pressures for proper operation;
4. The installation is approved by the code official and the fuel-gas supplier;
5. The piping system is welded steel pipe;
6. All connected equipment is provided with regulators rated for the pressure provided.

402.7.3 Liquefied petroleum gas systems. The operating pressure for undiluted LP-gas systems shall not exceed 20 psig (140 kPa gauge). Buildings having systems designed to operate below -5°F (-21°C) or with butane or a propane-butane mix shall be designed to either accommodate liquid LP-gas or prevent LP-gas vapor from condensing into a liquid.

These subsections are repealed in their entirety:

- a. 403.4.3 Copper and copper alloy.
- b. 403.5.3 Copper and copper alloy tubing.

404.2 CSST. CSST piping systems shall be installed in accordance with the terms of their approval, the conditions of listing, the manufacturer's instructions, requirements in administrative rulings, and this code.

404.9.1 Gas meter set connection. The gas-meter-set location and design shall be in accordance with the local gas operator's standards.

404.11.2 Protection methods. Underground piping shall comply with one or more of the following:

4. Buried steel piping shall be coated and insulated with insulating fittings or unions on both ends above grade outside the building within 6 inches to 18 inches above grade with a minimum of one-5lb magnesium anode installed for every

200 feet of buried pipe.

Section 406 (IFGC) Inspection, Testing, and Purging

406.4.1 Test pressure and duration. The test pressure to be used shall be no less than 1 ½ times the proposed maximum working pressure, but not less than 3 psig (20 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. The test on all gas piping designed for 2 PSIG and less, shall be made by closing all openings and subjecting the pipes to a minimum of 20 PSIG with a 15-minute duration. The test on all gas piping designed for greater than 2 PSIG shall be a minimum of 20 PSIG with 120-minute duration. The measurement range of the test gauge shall be from 0 to no more than 30 PSIG and shall be readily visible for reading.

Subsection 406.4.2 Test duration is repealed in its entirety.

409.1.4 Shutoff valve support. All shutoff valves shall be supported in such a manner as to prevent movement of the valve body when the valve is operated. Connection of the valve to a section of iron pipe either immediately upstream or downstream of the valve shall be considered an acceptable support.

410.3.2 Vent termination. All regulator-relief vents terminating outdoors shall be provided with a manufactured termination fitting equipped with an internal stainless-steel screen. The termination point shall be a minimum of eighteen (18) inches above grade or roof surface.

411.1 Connecting appliances. Except as required by Section 411.1.1, appliances shall be connected to the piping system by one of the following:

2. Corrugated stainless-steel tubing (CSST) where installed in accordance with the manufacturer's instructions and with approval prior to design or installation. Installations with prior approval are listed and installation requirements are itemized by administrative ruling where installed in accordance with the manufacturer's instructions.
3. Semirigid metallic tubing and metallic fittings with approval prior to design or installation. Installations with prior approval are listed and installation requirements in administrative rulings. Lengths shall not exceed the length required for the installation or a maximum of 6 feet (1829 mm) and shall be located entirely in the same room as the appliance. Semirigid metallic tubing shall not enter a motor-operated appliance through an unprotected knockout opening.
4. Listed and labeled appliance connectors in compliance with ANSI Z21.24/CGA

6.10 and installed in accordance with manufacturer's instructions and located entirely in the same room as the appliance and with approval prior to design or installation. Installations with prior approval are listed and installation requirements are itemized by administrative ruling.

Sec. 36-1403. – Adoption of appendices.

By adoption of the 2018 International Private Sewage Disposal Code, the following appendices are part of this Code.

Appendix A, Sizing and Capacities of Gas Piping

Appendix B, Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category I Appliances, and Appliances listed for use and Type B Vents

Appendix C, Exit Terminals of Mechanical Draft and Direct-Vent Venting Systems

Sec. 36-1404. – Penalty clause.

Any person convicted of: violating this ordinance [article]; failing to comply with any order issued under it; or, erecting, constructing, altering, or repairing a building, structure, or system in violation of an approved plan or directive of the code official or of a permit or certificate issued under these codes shall be punished as provided in section 1-7 of the City Code. A fine must be at least \$200.00 for the first offense, \$400.00 for the second offense, and \$500.00 for every offense thereafter. Notice under section 36-166 is not necessary to prosecute a violation of any provision of this article or these codes, unless the violation involves failure to comply with an order. Each day a violation continues is a separate offense.

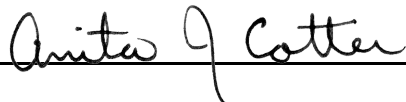
Section 2 – Savings Clause. Nothing in this Ordinance shall be construed to affect any suit or proceeding now pending in any court, or any rights acquired, or liability incurred, or any cause or causes of action accrued or existing, under any act or Ordinance repealed hereby, nor shall any right or remedy of any character be lost, impaired, or affected by this Ordinance.

Section 3 – Severability Clause. If any section, subsection, sentence, clause, or phrase of this Ordinance is, for any reason, held to be invalid, such decision shall not affect the validity of the remaining portions of this Ordinance. City Council hereby declares that it would have passed this Ordinance and each section, subsection, sentence, clause, or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, or phrases be declared invalid.


Section 4 – This Ordinance shall be in full force and effect 90 days from and after passage by City Council.

Passed at meeting: November 18, 2019


Mayor

Attest: , City Clerk

Filed as Ordinance: November 18, 2019

Approved as to form: , Assistant City Attorney

Approved for Council action: , City Manager

EXPLANATION TO COUNCIL BILL 2019-255

FILED: 10-29-19

ORIGINATING DEPARTMENT: Building Development Services

PURPOSE: Amending Chapter 36 of the Springfield City Code, known as the 'Land Development Code,' by repealing Article XIV, 'Fuel Gas Code,' in its entirety, and enacting in lieu thereof a new Article XIV, 'Fuel Gas Code.' (Recommended by Plans and Policies Committee.)

BACKGROUND AND REMARKS: The current fuel gas code enforced by the City is the 2012 International Fuel Gas Code. By adopting the 2018 International Fuel Gas Code, the City will be adopting the most up-to-date, nationally-recognized, fuel gas code. The provisions contained within this Ordinance do not excessively and unnecessarily increase construction costs; do not restrict the use of new materials, productions, or methods of construction; and, do not give preferential treatment to particular types or classes of materials, products, or methods of construction.

The proposed Ordinance was presented to the Plans and Policies Committee on October 17, 2019, and was approved by Councilman Ollis, Councilman Lear and Councilman McGull.

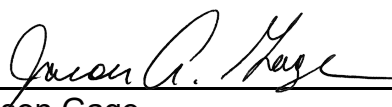
The Building Development Services Department ("BDS") has met with representatives of the local design and construction industry over the course of the past several months to discuss the ramifications of adopting this new code. Comments were requested from designers, electricians, plumbers, building contractors, gas fitters, general contractors, developers, and others that may be affected by the adoption of this code. The language of this Ordinance was placed on the City website for review by the members of the Home Builders Association, Springfield Contractors Association, Missouri Society of Professional Engineers, and the local chapter of the American Institute of Architects.

Submitted by:



Harlan Hill, Director
Building Development Services

Approved by:



Jason Gage,
City Manager