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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11 repealed in its entirety and a new Article XIV is enacted in lieu thereof, to read as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

33 (a) Chapter 1 is repealed in its entirety because code enforcement is covered in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

37
38 (b) Because Chapter 1 is repealed in its entirety, any cross references to Chapter 1
39 in subsequent chapters are replaced by the provisions in Article I that
40 correspond, in content, to such cross references.

41
42 (c) All adopted chapters and appendices include all errata hereafter published by the
43 International Code Council after the date of the first printing of the 2018
44 International Fuel Gas Code.

45
46 Section 301 (IFGC) General

47
48 301.11 Flood hazard. For structures located in flood-hazard areas, the appliance,
49 equipment, and system installations regulated by this Code shall be located at or
50 above the elevation required by Section 1612 of the International Building Code for
51 utilities and attendant equipment. comply with Chapter 36, Article XVII, Floodplain
52 Management, of the City Code.

53
54 Section 401 (IFGC) General

55
56 401.5 Identification. ~~For other than black steel pipe, exposed piping shall be~~
57 ~~identified by a yellow label marked "Gas" in black letters. The marking shall be~~
58 ~~spaced at intervals not exceeding 5 feet (1524 mm). The marking shall not be~~
59 ~~required on pipe located in the same room as the equipment served. All gas piping~~
60 shall be identified by a yellow background marked "Gas" in black letters.
61 Identification shall be in the form of a tag, stencil, or other permanent marking. Such
62 identification shall be clearly and easily readable from the floor of the room of its
63 location. Spacing on black steel pipe shall be at intervals of not more than 15 feet in
64 concealed locations, 25 feet in exposed locations, and not less than once in any
65 room space. Spacing for all other piping materials shall be at intervals not
66 exceeding 5 feet and not less than once in any room space.

67
68 Section 402 (IFGC) Pipe sizing

69
70 Subsection 402.7 is repealed and replace with:

71
72 402.7 Operating pressure. The standard operating pressure for piping systems
73 located inside buildings shall be 0.25 psig. Design operating pressures other than
74 0.25 psig shall only be allowed in areas where the gas supplier has sufficient main-
75 line delivery pressure to assure adequate supply. The installer shall be responsible
76 for verifying the availability of elevated pressure with the gas supplier.

77
78 402.7.1 Operating pressures of 2 psig or less. For operating pressures of 2 psig or

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

81
82 402.7.2 Pressures above 2 psig. Operating pressures above 2 psig shall only be
83 allowed if all the following conditions are met:

- 84
85 1. Adequate pressure is available from the fuel-gas supplier; and,
- 86
87 2. The piping system is in an area zoned to allow commercial, industrial, or heavy
88 manufacturing uses;
- 89
90 3. The connected load is 1000 CFH or greater and the facility has connected
91 equipment that requires higher pressures for proper operation;
- 92
93 4. The installation is approved by the code official and the fuel-gas supplier;
- 94
95 5. The piping system is welded steel pipe;
- 96
97 6. All connected equipment is provided with regulators rated for the pressure
98 provided.

99
100 402.7.3 Liquefied petroleum gas systems. The operating pressure for undiluted LP-
101 gas systems shall not exceed 20 psig (140 kPa gauge). Buildings having systems
102 designed to operate below -5°F (-21°C) or with butane or a propane-butane mix
103 shall be designed to either accommodate liquid LP-gas or prevent LP-gas vapor
104 from condensing into a liquid.

105
106 These subsections are repealed in their entirety:

- 107
108 a. 403.4.3 Copper and copper alloy.
- 109
110 b. 403.5.3 Copper and copper alloy tubing.

111
112 404.2 CSST. CSST piping systems shall be installed in accordance with the terms
113 of their approval, the conditions of listing, the manufacturer's instructions,
114 requirements in administrative rulings, and this code.

115
116 404.9.1 Gas meter set connection. The gas-meter-set location and design shall be
117 in accordance with the local gas operator's standards.

118
119 404.11.2 Protection methods. Underground piping shall comply with one or more of
120 the following:

- 121
122 4. Buried steel piping shall be coated and insulated with insulating fittings or unions
123 on both ends above grade outside the building within 6 inches to 18 inches
124 above grade with a minimum of one-5lb magnesium anode installed for every

125 200 feet of buried pipe.

126
127 Section 406 (IFGC) Inspection, Testing, and Purging

128
129 406.4.1 Test pressure and duration. ~~The test pressure to be used shall be no less~~
130 ~~than 1 ½ times the proposed maximum working pressure, but not less than 3 psig~~
131 ~~(20 kPa gauge), irrespective of design pressure. Where the test pressure exceeds~~
132 ~~125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces~~
133 ~~a hoop stress in the piping greater than 50 percent of the specified minimum yield~~
134 ~~strength of the pipe.~~ The test on all gas piping designed for 2 PSIG and less, shall
135 be made by closing all openings and subjecting the pipes to a minimum of 20 PSIG
136 with a 15-minute duration. The test on all gas piping designed for greater than 2
137 PSIG shall be a minimum of 20 PSIG with 120-minute duration. The measurement
138 range of the test gauge shall be from 0 to no more than 30 PSIG and shall be
139 readily visible for reading.

140
141 Subsection 406.4.2 Test duration is repealed in its entirety.

142
143 409.1.4 Shutoff valve support. All shutoff valves shall be supported in such a
144 manner as to prevent movement of the valve body when the valve is operated.
145 Connection of the valve to a section of iron pipe either immediately upstream or
146 downstream of the valve shall be considered an acceptable support.

147
148 410.3.2 Vent termination. All regulator-relief vents terminating outdoors shall be
149 provided with a manufactured termination fitting equipped with an internal stainless-
150 steel screen. The termination point shall be a minimum of eighteen (18) inches
151 above grade or roof surface.

152
153 411.1 Connecting appliances. Except as required by Section 411.1.1, appliances
154 shall be connected to the piping system by one of the following:

- 155
- 156 2. Corrugated stainless-steel tubing (CSST) where installed in accordance with
157 the manufacturer's instructions and with approval prior to design or installation.
158 Installations with prior approval are listed and installation requirements are
159 itemized by administrative ruling where installed in accordance with the
160 manufacturer's instructions.
 - 161
 - 162 3. Semirigid metallic tubing and metallic fittings with approval prior to design or
163 installation. Installations with prior approval are listed and installation
164 requirements in administrative rulings. Lengths shall not exceed the length
165 required for the installation or a maximum of 6 feet (1829 mm) and shall be
166 located entirely in the same room as the appliance. Semirigid metallic tubing
167 shall not enter a motor-operated appliance through an unprotected knockout
168 opening.
 - 169
 - 170 4. Listed and labeled appliance connectors in compliance with ANSI Z21.24/CGA

171 6.10 and installed in accordance with manufacturer's instructions and located
172 entirely in the same room as the appliance and with approval prior to design or
173 installation. Installations with prior approval are listed and installation
174 requirements are itemized by administrative ruling.
175

176 Sec. 36-1403. – Adoption of appendices.
177

178 By adoption of the 2018 International Private Sewage Disposal Code, the following
179 appendices are part of this Code.
180

181 Appendix A, Sizing and Capacities of Gas Piping
182

183 Appendix B, Sizing of Venting Systems Serving Appliances Equipped with Draft
184 Hoods, Category I Appliances, and Appliances listed for use and Type B Vents
185

186 Appendix C, Exit Terminals of Mechanical Draft and Direct-Vent Venting Systems
187

188 Sec. 36-1404. – Penalty clause.
189

190 Any person convicted of: violating this ordinance [article]; failing to comply with
191 any order issued under it; or, erecting, constructing, altering, or repairing a building,
192 structure, or system in violation of an approved plan or directive of the code official or of
193 a permit or certificate issued under these codes shall be punished as provided in
194 section 1-7 of the City Code. A fine must be at least \$200.00 for the first offense,
195 \$400.00 for the second offense, and \$500.00 for every offense thereafter. Notice under
196 section 36-166 is not necessary to prosecute a violation of any provision of this article or
197 these codes, unless the violation involves failure to comply with an order. Each day a
198 violation continues is a separate offense.

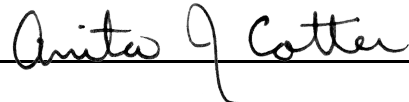
Section 2 – Savings Clause. Nothing in this Ordinance shall be construed to affect any suit or proceeding now pending in any court, or any rights acquired, or liability incurred, or any cause or causes of action accrued or existing, under any act or Ordinance repealed hereby, nor shall any right or remedy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

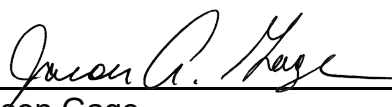
The Building Development Services Department ("BDS") has met with representatives of the local design and construction industry over the course of the past several months to discuss the ramifications of adopting this new code. Comments were requested from designers, electricians, plumbers, building contractors, 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