One-rdg._____
P. Hrg. _____
Pgs.____8____
Filed: ____01-05-16____

Sponsored by: ____Ferguson____

First Reading:_January 11, 2016_____ Second Reading_January 25, 2016____

COUNCIL BILL NO._____2016- 010___ GENERAL ORDINANCE NO. _6258___

AN ORDINANCE

AMENDING Chapter 36 of the Springfield City Code, known as the Land Development Code, Article XIV, Fuel Gas Code, Division 2 – Deletions, Modifications, Amendments, and Additions to the Fuel Gas Code, Section 36-1402 by amending certain subsections and enacting new subsections related to the same subject.

_____

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

Section 1 – Chapter 36 of the Springfield City Code, known as the Land Development Code, Article XIV, Fuel Gas Code, Division 2 – Deletions, Modifications, Amendments, and Additions to the Fuel Gas Code, Section 36-1402 is hereby amended by repealing certain sections and enacting new provisions related to the same subject.

NOTE: Underlined language is to be added. ~~Stricken~~ language is to be removed.

Sec. 36-1402. - Deletions, modifications, amendments and additions.

The 2012 International Fuel Gas Code, as adopted, is hereby amended and changed as follows:

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(e) Amend Section 301, General, subsection 301.11, Flood hazard, as follows:

*301.11 Flood hazard.* For structures located in flood hazard areas, the appliance, equipment and system installations regulated by this Code shall comply with General Ordinance No. 5907 dated November 1, 2010.

(f) Amend Section 307, Condensate Disposal, by adding a new subsection, 307.6 Condensate pumps, as follows:

*307.6 Condensate pumps.* Condensate pumps located in uninhabitable spaces, such as attics and crawl spaces, shall be connected to the appliance or equipment served such that when the pump fails, the appliance or equipment will be prevented from operating. Pumps shall be installed in accordance with the manufacturer's instructions.

(g) Amend Section 310 (IFGS), Electrical Bonding, Subsection 310.1.1, CSST, to read as follows:

*310.1.1 CSST*. Corrugated stainless steel tubing (CSST) gas piping systems and piping systems containing one or more segments of CSST shall be bonded to the electrical service grounding electrode system or, where provided, the lightning protection grounding electrode system.

*310.1.1.1 Point of connection.* The bonding jumper shall connect to a metallic pipe, pipe fitting or CSST fitting.

*310.1.1.2 Size and material of jumper.* The bonding jumper shall be not smaller than 6 AWG copper wire or equivalent.

*310.1.1.3 Bonding jumper length.* The length of the bonding jumper between the connection to a gas piping system and the connection to a grounding electrode system shall not exceed 75 feet (22 860 mm). Any additional grounding electrodes used shall be bonded to the electrical service grounding electrode system or, where provided, the lightening protection grounding electrode system.

*310.1.1.4 Bonding connections.* Bonding connections shall be in accordance with NFPA 70.

*310.1.1.5 Connection devices.* Devices used for making the bonding conceptions shall be listed for the application in accordance with UL 467.

(~~f~~h) Amend Section 401, General, subsection 401.5, Identification, as follows:

*401.5 Identification.* 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 read 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, not more than 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.

(~~g~~i) Amend Section 402, Pipe sizing, subsection 402.6, Maximum design operating pressure, as follows:

*402.6 Maximum design operating pressure.* Typical design operating pressure 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.

*402.6.1* For design operating pressures of 2 psig or less, the piping material shall be in conformance with Section 403 of the 2012 International Fuel Gas Code as amended herein.

*402.6.2* Design operating pressures above 2 psig shall only be allowed if all of the following conditions are met:

1. The piping system is located in an area zoned to allow commercial, industrial or heavy manufacturing uses.

2. The connected load is 1000 CFH or greater and the facility has connected equipment that requires higher pressures for proper operation.

3. The installation is approved by the Code Official and the fuel gas supplier.

4. The piping system is welded steel pipe.

5. Adequate pressure is available from the fuel gas supplier.

6. All connected equipment is provided with regulators rated for the pressure provided.

*402.6.3 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.

(~~h~~j) Repeal subsection 403.4.3, Copper and brass, in its entirety.

(~~i~~k) Repeal subsection 403.5.2, Copper and brass tubing, in its entirety.

(~~j~~l) Amend Section 404, Piping system installation, subsection 404.5, Piping in concealed locations, by adding new subsection 404.5.1, as follows:

*404.5.1 Corrugated Stainless Steel Tubing (CSST) Physical damage protection.* All CSST piping located within a wall cavity shall be protected by installing the CSST inside a metal sleeve made of Schedule 40 steel pipe or floppy galvanized steel conduit as provided by the CSST manufacturer.

(~~k~~m) Amend Section 404, Piping system installation, by adding new subsections 404.7.1 and 404.7.2, as follows:

*404.7.1 Gas meter connections.* Gas piping shall not be stubbed out of the building wall for connection to the gas meter within three feet of all electrical devices, or 30 inches of any foundation vent, building vent, fresh air vent, combustion air vent, door or window (other than non-operable windows.) All residential gas meter settings shall be located within ten feet of the front corner of the building. All gas meter settings shall be located at the building wall and the outlet piping of the meter shall enter the building above grade. Meter locations other than those specified shall be approved by the Code Official and the gas supplier.

*404.7.2 Commercial gas meter connection.* Gas piping shall not be stubbed out of the building wall for connection to the gas meter within three feet of any hose bibs, electric devices, fire connections, air intakes, vents or other obstructions. All gas meter settings shall be located at the building wall and the outlet piping of the meter shall enter the building above grade.

(~~l~~n) Amend Section 404, Piping system installation, subsection 404.11, Protection against corrosion, as follows:

*404.11 Protection against corrosion.* Metallic pipe or tubing exposed to corrosive action, such as soil condition or moisture, shall be protected in an approved manner. Zinc coatings (galvanizing) shall not be deemed adequate protection for gas piping underground. Ferrous metal exposed in exterior locations shall be protected from corrosion in a manner satisfactory to the Code Official. Where dissimilar metals are joined underground, an insulating coupling or fitting shall be used. Piping shall not be laid in contact with cinders. 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.

(~~m~~o) Amend Section 404, Piping system installation, by adding new subsection 404.20, as follows:

*404.20 Corrugated Stainless Steel Tubing (CSST) at the meter location.* All CSST piping shall terminate utilizing the pipe manufacturer's approved meter termination fitting securely anchored to the structure in such a manner to properly support the meter. No CSST fitting connections shall be concealed within the structure at the meter location.

(~~n~~p) Amend Section 405, Piping bends and changes in direction, by adding new subsection 405.5, as follows:

*405.5 Corrugated Stainless Steel Tubing (CSST).* The minimum bending radius For CSST shall be as follows:

Pipe Size 3/8, ½, and ¾ inch diameter - minimum radius 3 inches
Pipe Size 1, 1¼, 1½ inch diameter - minimum radius 5 inches
Pipe Size 2 inch and larger - minimum radius 6 inches

(~~o~~q) Amend subsection 406.4.1, Test pressure, as follows:

*406.4.1 Test pressure and duration.* The test on threaded 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 used shall be from 0 to no more than 30 PSIG.

(~~p~~r) Repeal subsection 406.4.2, Test duration, in its entirety.

(~~q~~s) Amend Section 407, Piping support, by adding new subsection 407.2.1, as follows:

*407.2.1 Corrugated Stainless Steel Tubing (CSST.)* All CSST greater than 16 inches in length, and run horizontally, shall be continuously supported and shall be attached to the continuous support member at intervals not to exceed six (6) feet on center.

(~~r~~t) Amend Section 409, Shutoff valves, by adding new subsection 409.1.4, as follows:

*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.

(~~s~~u) Amend Section 410, Flow controls, by adding new subsection 410.3.2, as follows:

*410.3.2* 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.

(~~t~~v) Amend subsection 411.1, Connecting appliances, to read as follows:

*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:

1. Rigid metallic pipe and fittings.

2. Corrugated Stainless Steel Tubing (CSST) where installed in accordance with the manufacturer's instructions.

3. Semi-rigid metallic tubing and metallic fittings. Lengths shall not exceed 6 feet (1829 mm) and shall be located entirely in the same room as the appliance. Semi-rigid metallic tubing shall not enter a motor-operated appliance through an unprotected knockout opening. Flexible connectors are allowed with the approval of the Code Official.

4. Listed and labeled appliance connectors in compliance with ANSI Z21.24 and installed in accordance with the manufacturer's installation instructions and located entirely in the same room as the appliance.

5. Listed and labeled quick-disconnect devices used in conjunction with listed and labeled appliance connectors.

6. Listed and labeled convenience outlets used in conjunction with listed and labeled appliance connectors.

7. Listed and labeled appliance connectors complying with ANSI Z21.69 and listed for use with food service equipment having casters, or that is otherwise subject to movement for cleaning, and other large movable equipment.

8. Listed and labeled outdoor appliance connectors in compliance with ANSI Z21.75/CSA 6.27 and installed in accordance with the manufacturer's installation instructions.

(w) Amend Section 614 (IFGC), Clothes Dryer Exhaust, by adding a new subsection, 614.9 Manufacturer's instructions, and a new subsection, 614.10 Exhaust duct power ventilators, as follows:

*[M] 614.9 Manufacturer's instructions.* Dryer exhaust duct power ventilator length. The maximum length of the exhaust duct shall be determined by the dryer exhaust duct power ventilator manufacturer's instructions.

*[M] 614.10 Dryer exhaust duct power ventilators.* Domestic dryer exhaust duct power ventilators shall be listed and labeled to UL 705 for use in dryer exhaust

duct systems. The dryer exhaust duct power ventilator shall be installed in accordance with the manufacturer's instructions.

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 nor any cause or causes of action accrued or existing, under any act or ordinance repealed hereby, or 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. The Council hereby declares that it would have adopted the 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 from and after February 1, 2016

Passed at meeting: January 25, 2016

Robert L Stephen
Mayor

Attest: _____, Assistant City Clerk

Filed as Ordinance: January 25, 2016

Approved as to form: _____, Assistant City Attorney

Approved for Council Action: _____, City Manager

**EXPLANATION TO COUNCIL BILL NO. 2016-010**

FILED: 01-05-16

ORIGINATING DEPARTMENT: BUILDING DEVELOPMENT SERVICES

PURPOSE: To amend and add certain sections of Chapter 36 of the Springfield City Code, known as the Land Development Code, Article XIV, Fuel Gas Code, Division 2 – Deletions, Modifications, Amendments, and Additions to the Fuel Gas Code, Section 36-1402 by amending certain subsections and enacting new subsections related to the same subject.

BACKGROUND AND REMARKS: With the adoption of the 2012 International Fuel Gas Code staff and the development community determined that it would be in the best interest of the community to change from a 3 year cycle on new code adoption to a 6 year cycle. The international codes are revised and published every 3 years. It was also agreed that the "off year publication" (2015 edition) would be reviewed for possible amendments to the 2012 edition currently adopted by the City of Springfield. The proposed amendments are based on a review of the 2015 edition. The proposed amendments provide improved language and design provisions that will benefit citizens and the development community.

The proposed amendments were placed on the City website for review by the members of the Home Builders Association, Springfield Contractors Association, Missouri Society of Professional Engineers, the local chapter of the American Institute of Architects, and the Development Issues Input Group. The City has received no objections to the proposed amendments.

Submitted by:

Building Development Services

Approved by:

City Manager