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RETURN TO:  
City Of Bixby  
P.O. Box 70  
Bixby, Ok 74008

ORDINANCE NO. 2100

AN ORDINANCE AMENDING THE CITY CODE OF THE CITY OF BIXBY, OKLAHOMA, TITLE 9, TITLED "BUILDING AND CONSTRUCTION REGULATIONS"; AMENDING CHAPTER 5, TITLED "MECHANICAL CODE"; ADDING A NEW SECTION 9-5-4, TITLED "ADOPTION OF THE ICC INTERNATIONAL FUEL GAS CODE, 2009 EDITION"; ADOPTING THE INTERNATIONAL CODE COMMISSION (ICC) INTERNATIONAL FUEL GAS CODE, 2009 EDITION; ENACTING A NEW SECTION 9-5-5, TITLED "AMENDMENTS TO THE ICC INTERNATIONAL FUEL GAS CODE, 2009 EDITION"; PROVIDING FOR AND GOVERNING THE DESIGN, CONSTRUCTION, FABRICATION, ERECTION, ALTERATION, LOCATION, ENLARGEMENT, EQUIPMENT, REPAIR, REMOVAL, CONVERSION, USE AND MAINTENANCE OF FUEL GAS PIPING, FUEL GAS UTILIZATION EQUIPMENT, AND RELATED ACCESSORIES; ADOPTING THE FOLLOWING APPENDICES TO THE ICC INTERNATIONAL FUEL GAS CODE, 2009 EDITION: APPENDIX A-SIZING AND CAPACITIES OF GAS PIPING (IFGS), APPENDIX B-SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS (IFGS), APPENDIX C-EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS (IFGS), AND APPENDIX D-RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION (IFGS); PROVIDING FOR THE PROTECTION OF EXISTING RIGHTS AND REMEDIES; PROVIDING FOR SEVERABILITY; REPEALING ALL ORDINANCES IN CONFLICT WITH THIS ORDINANCE; PROVIDING THAT THE OPERATIVE DATE OF THIS ORDINANCE SHALL BE NOVEMBER 1, 2012; AND DECLARING AN EMERGENCY.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF BIXBY, OKLAHOMA:

*Section 1. That a new Title 9, Bixby City Code, Chapter 5, Section 9-5-4 and Section 9-5-5 be and the same are now enacted to read as follows:*

**"9-5-4: ADOPTION OF THE ICC INTERNATIONAL FUEL GAS CODE, 2009 EDITION:** A certain document, one (1) copy of which is on file in the Office of the City Clerk of the City of Bixby, Oklahoma, being marked and designated as the ICC *International Fuel Gas Code* (IFGC), 2009 Edition, as amended and revised by the Oklahoma Uniform Building Code Commission, including Appendices A, B, C and D, as published by the International Code Council, Inc. (ICC), is hereby adopted as a part of the Bixby City Code, hereinafter the 'Fuel Gas Code of the City of Bixby' or the 'Bixby Fuel Gas Code',

regulating and governing fuel gas systems and gas-fired appliances and providing for the issuance of permits and collection of fees therefor. Each and all of the regulations, provisions, penalties, terms, and conditions of the ICC *International Fuel Gas Code*, 2009 Edition, published by the ICC, as amended, on file in the Office of the City Clerk of the City of Bixby are hereby referred to, adopted and made a part of the Bixby City Code, as if fully set out in this Chapter, with its amendments, as prescribed in Section 9-5-5 of this Chapter and, as used in this Chapter, Sections 9-5-4 and 9-5-5, may be referred to as the 'code.'

**9-5-5: AMENDMENTS TO THE ICC INTERNATIONAL FUEL GAS CODE, 2009 EDITION:** The following provisions of the *International Fuel Gas Code*, 2009 Edition (IFGC), as amended and revised by the Oklahoma Uniform Building Code Commission, are hereby added, deleted or amended to read as follows:

### IFGC CHAPTER 1 SCOPE AND ADMINISTRATION

**101.1 Title-Amendatory.** These provisions shall be known and may be cited as the 'Fuel Gas Code of the City of Bixby' or as the 'Bixby Fuel Gas Code.'

**109 through 109.7 Means of Appeal-Deleted.** Sections 109 through 109.7 of this code are intentionally deleted from the *International Fuel Gas Code*, 2009 Edition. Appeals from a decision of the code official shall be governed by Section 9-2-1 of the Bixby City Code.

### IFGC CHAPTER 3 GENERAL REGULATIONS

**307.2.1 Condensate Drains-Added.** This section has been added to the code to require condensate drains to be protected from freezing. This section shall read: 'Where condensing appliances are in locations subject to freezing conditions, the condensate drain line must be protected from freezing in an approved manner and in accordance with manufacturer installation instructions.'

**308.1 Scope-Amendatory.** This section has been modified to include gypsum board as a combustible material. This section has been modified to read: 'This section shall govern the reduction in required clearances to combustible materials, including gypsum board, and combustible assemblies for chimneys, vents, appliances, devices and equipment. Clearance requirements for air-conditioning equipment and central heating boilers and furnaces shall comply with Section 308.3 and 308.4.'

**310.1.1 Corrugated Stainless Steel Tubing (CSST)-Amendatory.** This section has been modified to add an exception to allow for installation when using new special CSST. This exception shall read:

**'Exception:** Special corrugated stainless steel gas products or systems that have been designed, manufactured and listed for installation without direct bonding shall be permitted to be installed in accordance with the manufacturer's installation instructions.'

## IFGC CHAPTER 4 GAS PIPING INSTALLATIONS

**Tables 402.4(6), 402.4(7), 402.4(8), 402.4(9), 402.4(10), 402.4(11), and 402.4(12)-Deleted.** Tables 402.4(6), 402.4(7), 402.4(8), 402.4(9), 402.4(10), 402.4(11), and 402.4(12) are intentionally deleted from this code.

**404.8.1 Insulated Union on Building Riser-Added.** This section has been added to the code as a means to isolate the gas piping from the grounding. It shall read: 'All underground gas piping systems shall have an insulated union installed above ground level before the service enters the building.'

**404.10. Minimum Burial Depth-Amendatory.** This section has been modified to change the minimum burial depth from 12 inches (305 mm) to 18 inches (457 mm) and to allow for an exception when there is no ability to meet that minimum depth. This section has been modified to read: '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.'

**Exception:** Where a minimum depth of 18 inches (457 mm) of cover cannot be provided, the pipe shall be installed in conduit or bridged (shielded).'

**404.10.2. Separation of Gas Piping from Other Piping Systems-Added.** This section has been added to the code as a means to prevent damage to other systems that may have been buried in the same ditch. This section shall read: 'Gas pipe and any other piping systems shall be separated by 18 inches (457 mm) of undisturbed or compacted earth.'

**404.16 Prohibited Devices-Amendatory.** This section was modified to add a second exception to allow for new technology to be utilized. The second exception shall read: 'An approved fitting or device where the gas piping system has been sized to accommodate the pressure drop of the fitting or device.'

**406.7 Purging-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7 of the IFGC. This section has been modified to read: 'The purging of piping shall be in accordance with Sections 406.7.1 through 406.7.3.'

**406.7.1 Piping Systems Required to be Purged Outdoors-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.1 of the IFGC. This section has been modified to read: 'The purging of piping systems shall be in accordance with the provisions of Sections 406.7.1.1 through 406.7.1.4 where the piping system meets either of the following:

1. The design operating gas pressure is greater than 2 psig (13.79 kPa).
2. The piping being purged contains one or more sections of pipe or tubing meeting the size and length criteria of Table 406.7.1.1'

**406.7.1.1 Removal from Service-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.1.1 of the IFGC. This section has been modified to read: 'Where existing gas piping is opened, the section that is opened shall be isolated from the gas supply and the line pressure vented in accordance with Section 406.7.1.3. Where gas piping meeting the criteria of Table 406.7.1.1 is removed from service, the residual fuel gas in the piping shall be displaced with an inert gas.'

**Table 406.7.1.1 Size and Length of Piping-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment modifies Table 406.7.1.1 of the IFGC. This table has been modified so that the following measurements for table 406.7.1.1 were added and footnote 'a' in relation to Nominal Pipe Size (inches) states 'CSST EHD size of 62 is equivalent to nominal 2-inch pipe or tubing size:

1. When nominal pipe size (inches) is greater than or equal to 2½ but less than 3, the length of piping (feet) is greater than 50.
2. When nominal pipe size (inches) is greater than or equal to 3 but less than 4, the length of piping (feet) is greater than 30
3. When nominal pipe size (inches) is greater than or equal to 4 but less than 6, the length of piping (feet) is greater than 15.
4. When nominal pipe size (inches) is greater than or equal to 6 but less than 8, the length of piping (feet) is greater than 10.
5. When nominal pipe size (inches) is greater than 8, the length of piping (feet) is any length. For SI: 1 inch is equal to 25.4 mm; 1 foot is equal to 304.8 mm.'

**406.7.1.2 Placing in Operation-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.1.2 of the IFGC. This section has been modified to read: 'Where gas piping contains air and meeting the criteria of Table 406.7.1.1 is placed in operation, the air in the piping shall first be displaced with an inert gas. The inert gas shall then be displaced with fuel gas in accordance with Section 406.7.1.3.'

**406.7.1.3. Outdoor Discharge of Purged Gases-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.1.3 of the IFGC. This section has been modified to read: 'The open end of a piping system being pressure vented or purged shall discharge directly to an outdoor location. Purging operations shall comply with all of the following requirements:

1. The point of discharge shall be controlled with a shutoff valve.
2. The point of discharge shall be located at least 10 feet (3048 mm) from sources of ignition, at least 10 feet (3048 mm) from building openings and at least 25 feet (7620 mm) from mechanical air intake openings.

3. During discharge, the open point of discharge shall be continuously attended and monitored with a combustion gas indicator that complies with Section 406.7.1.4.
4. Purging operations introducing fuel gas shall be stopped when 90 percent fuel gas by volume is detected within the pipe.
5. Persons not involved in the purging operations shall be evacuated from all areas within 10 feet (3048 mm) of point of discharge.'

**406.7.1.4. Combustion Gas Indicator-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.1.4 of the IFGC. This section has been modified to read: 'Combustion gas indicators shall be listed and shall be calibrated in accordance with the manufacturer's instructions. Combustion gas indicators shall numerically display a volume scale from zero percent to 100 percent in 1 percent or smaller increments.'

**406.7.2 Piping Systems Allowed to be Purged Indoors or Outdoors-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.2 of the IFGC. This section has been modified to read: 'The purging of piping systems shall be in accordance with the provisions of Section 406.7.2.1 where the piping system meets both of the following:

1. The design operating gas pressure is 2 psig (13.79 kPa) or less.
2. The piping being purged is constructed entirely from pipe or tubing not meeting the size and length criteria of Table 406.7.1.1.'

**406.7.2.1 Purging Procedure-Amendatory.** The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.2.1 of the IFGC. This section has been modified to read: 'The piping system shall be purged in accordance with one or more of the following:

1. The piping shall be purged with fuel gas and shall discharge to the outdoors.
2. The piping shall be purged with fuel gas and shall discharge to the indoors or outdoors through an appliance burner not located in a combustion chamber. Such burner shall be provided with a continuous source of ignition.
3. The piping shall be purged with fuel gas and shall discharge to the indoors or outdoors through a burner that has a continuous source of ignition and that is designed for such purpose.
4. The piping shall be purged with fuel gas that is discharged to the indoors or outdoors, and the point of discharge shall be monitored with a listed combustible

gas detector in accordance with Section 406.7.2.2. Purging shall be stopped when fuel gas is detected.

5. The piping shall be purged by the gas supplier in accordance with written procedures.'

**406.7.2.2 Combustible Gas Detector**-Amendatory. The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.2.2 of the IFGC. This section has been modified to read: 'Combustible gas detectors shall be listed and shall be calibrated or tested in accordance with the manufacturer's instructions. Combustible gas detectors shall be capable of indicating the presence of fuel gas.'

**406.7.3 Purging Appliances and Equipment**-Amendatory. The International Code Council Emergency Amendment dated September 27, 2010 has been adopted. This amendment replaces 406.7.3 of the IFGC. This section has been modified to read: 'After the piping system has been placed in operation, appliances and equipment shall be purged before being placed into operation.'

**410.4 Excess Flow Valve**-Added. This section has been added to allow for new technologies in use in the field. This section shall read: 'Where automatic excess flow valves are installed, they shall be listed for the application and shall be sized and installed in accordance with the manufacturer's instructions.'

## IFGC CHAPTER 6 SPECIFIC APPLIANCES

**621.4 Prohibited Locations**-Amendatory. This section has been modified to provide definitions for Groups A, E and I. This section has been modified to read: 'Unvented room heaters shall not be installed within occupancies in Groups A, E, and I. The location of unvented room heaters shall also comply with Section 303.3 (Use Groups A = Assembly, E = Educational and I = Institutional).'

## IFGC APPENDICES

**Appendices A through D**-Bixby Added. The following appendices of the ICC International Plumbing Code, 2009 Edition are specifically referred to, adopted and made a part of this code, as if fully set out in this chapter:

APPENDIX A	SIZING AND CAPACITIES OF GAS PIPING (IFGS)
APPENDIX B	SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS (IFGS)
APPENDIX C	EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS (IFGS)
APPENDIX D	RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION (IFGS)"

Section 2. *PROTECTION OF EXISTING RIGHTS AND REMEDIES. That nothing in this ordinance shall be construed to affect any suit or proceeding pending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing under any act or ordinance hereby repealed; nor shall this ordinance require any changes in work which have been lawfully authorized prior to the adoption of this ordinance, so long as such work is actually commenced within sixty (60) days after the adoption of this ordinance.*

Section 3. *SEVERABILITY CLAUSE. If any section, sentence, clause or phrase of this ordinance or any part thereof is for any reason found to be invalid by a court of competent jurisdiction, such decision shall not affect the validity of the remainder of this ordinance or any part thereof.*

Section 4. *REPEAL OF CONFLICTING ORDINANCES. That all ordinances or parts of ordinances in conflict herewith be and the same are now expressly repealed.*

Section 5. *OPERATIVE CLAUSE. Following passage of this ordinance by the City Council, with separate approval of its Emergency Clause, this ordinance shall be operative on and after November 1, 2012.*

Section 6. *EMERGENCY CLAUSE. That an emergency is hereby declared to exist for the preservation of the public peace, health and safety and, more particularly, to expedite the protection of citizens and the general public, safeguarding life and property from hazards arising from fuel gas systems and gas-fired appliances in the occupancy of buildings and premises within the corporate limits of the City of Bixby, by reason whereof this ordinance shall take effect immediately from and after its passage and approval.*

ADOPTED by the Council: NOVEMBER 13, 2012.

*Ray Bower*  
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Mayor

ADOPTED as an Emergency Measure ruled upon separately and approved by an affirmative vote of at least four-fifths (4/5) of the City Council: NOVEMBER 13, 2012.

*Ray Bower*  
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Mayor

APPROVED:

*Patricia D. ...*  
\_\_\_\_\_  
City Attorney



*Joanne Scott*  
\_\_\_\_\_  
City Clerk