



**FUEL GAS CODE AMENDMENTS
TO THE**

**2015
INTERNATIONAL
FUEL GAS
CODE**

When adopting the 2015 International Fuel Gas Code, the following Appendices will also be adopted: A, B, & C.

AMEND Section 101.1 as follows:

101.1 Title

These regulations shall be known as the Building Code of The City of Bartlett, hereafter referred to as “this code.”

ADD Section 101.1.1 as follows:

101.1.1 References

All references to the International Code Council Electrical Code are to be replaced with the 2014 National Electrical Code.

ADD 301.3.1 as follows:

301.3.1 Approval Installation of Listed or Unlisted Equipment

All listed appliances and equipment shall be installed in accordance with their listings. All unlisted appliances and equipment shall be installed in accordance with the manufacturer’s instructions, the gas codes, and the gas official. All appliances shall be equipped with a gas appliance pressure regulator which will satisfactorily limit the gas supply pressure, unless not required by the appliances listing.

ADD 301.12.1 as follows:

301.12.1 Seismic Information for Gas Piping

A seismic letter will be required for gas piping installation.

ADD Section 301.15.1 and 301.15.2 as follows:

301.15.1

Gas piping inside and building shall not be run through an air duct, clothes chute, chimney or vent, ventilating duct dumbwaiter or elevator shaft where the gas official finds that it is impossible to avoid installing gas piping through or in building duct system for heat, ventilating or air conditioning system, the gas pipe may be installed in a casing of non-combustible, rigid gas tight material.

301.15.2

Gas piping shall be prohibited in plenum spaces unless such spaces are accessible. This provision shall not apply to gas piping in non-plenum concealed locations. Shut off valves, union shut off valves, or unions for gas piping shall be prohibited in all concealed locations and all spaces used as plenums.

ADD 303.3.1 as follows:

303.3.1

No unvented decorative appliances shall be installed in a bedroom. Gas fired unvented heaters are not allowed to be installed in bedrooms, bathrooms or rooms generally kept closed.

ADD Section 305.4.1 as follows:

305.4.1 Gas Utilization Equipment

Gas utilization equipment may be installed in a repair garage when there is no dispensing or transferring of liquefied petroleum gas or other flammable liquids, provided all burners, burner flames, and burner ignition devices are located not less than 18 inches above the floor, and provided continuous mechanical ventilation is supplied at a rate of not less than one cubic foot per minute per square foot of floor area. For installations in below-grade areas, an approved means shall be provided for introducing an equal amount of outdoor air. The equipment and the ventilation system shall be interlocked so the equipment will not operate unless the ventilation system is in operation. Gas utilization equipment shall be located or protected so it is not subject to physical damage by a moving vehicle.

ADD Section 306.1 #1 as follows:

306.1 #1-Access and Service Space

Permanent access ladder, inside stairway, or pulldown stairs (NO SCUTTLE HOLES) shall be used for access.

ADD Section 306.1 #2 as follows:

306.1 #2-Accessibility

Units installed above drop ceilings, equipment height of 10 feet or more must have a work platform on service side of equipment.

ADD Section 306.3.2 as follows:

306.3.2 Accessibility

Every appliance shall be located so that it will be accessible for operation and servicing for attic installations, the passageway and servicing area adjacent to the appliance shall be floored. Such attics shall have flooring under and around such water heaters or gas appliances and shall be provided with a continuous, floored passageway at least 2 feet wide. When mechanical equipment is to be installed in the attic and only an interior access is to be provided, permanent access is required.

ADD 306.5 #8 as follows:

306.5 #8 Appliances on Roofs or Elevated Structures

The inside means of access shall be a permanent, or foldaway, inside stairway or ladder, terminating in an enclosure, scuttle or trap door. Such scuttles or trap doors shall be at least 24 inches BY 24 inches in size, shall open easily and safely under all conditions, especially snow, and shall be constructed so as to permit access from the roof side unless deliberately locked on the inside. At least 6 feet of clearance shall be available between the access opening and the edge of the roof or similar hazard, or rigidly fixed rails or guards at least 42 inches in height shall be provided on the exposed side, parapets or other building structure at least 42 inches in height may be utilized in lieu of guards or rails.

ADD Section 401.1.2 as follows:

401.1.2 Medical Gas Systems

Medical gas systems shall be installed in accordance with the requirements of NFPA 99C gas and vacuum systems.

ADD Section 401.5 #1 as follows:

401.5 #1 Identification/Labeling

All indoor and outdoor piping shall be labeled with amount of pressure within the pipe (2 psi or 5 psi).

AMEND Section 402.3 as follows:

4. When the gas pressure is 0.5 pounds per square inch or less, all consumer gas pipe from the point of delivery of the first branch in the house piping shall not be less than one inch in diameter. The minimum size of pipe outlets shall be ½ inch. The maximum length of ½ inch pipe shall be one foot in length.

5. In CSST piping systems, ½ inch tubing allowed if sized to manufacturer specification.

ADD Section 402.6 #7 as follows:

7. All gas piping up to 2 psi can be screwed or welded. All gas piping 5 pounds or greater shall be welded. All gas piping over 2 inches shall be welded.

Exception: Three fittings at cut off valve to regulator on 5 pound systems.

ADD Section 403.1.1 as follows:

403.1.1

Copper, brass, and aluminum tubing or piping shall be used only for specialty use on natural gas with prior approval by the Code Official.

ADD Section 403.10.1 #1 as follows:

PIPE JOINTS-The use of welded steel fittings either shop, field fabricated or manufactured commercially for connecting pipe and fittings by welding is permissible. Two pound gas may be screwed or welded. Five pound gas shall be welded.

ADD 403.10.4 #10 as follows:

403.10.4 #10

Fittings (except stopcocks and valves) shall be malleable iron or steel when used with steel or wrought iron pipe and shall be copper or brass when used with copper or brass pipe or tubing. The use of welded steel fittings, either shop or field fabricated and connecting of pipe and fittings by welding is permissible.

ADD 403.10.4 #11 as follows:

403.10.4 #11

No bushings allowed on interior gas piping unless approved by manufacturer of equipment being installed.

ADD 404.5.1 as follows:

404.5.1 Trailer Park Piping

Where information is not available on the location of the trailer supply connection, the gas riser to each trailer site should be placed in the rear one third section of the site and not less than 18' from the roadside wall of the trailer. It shall be located and protected or supported so as to minimize the likelihood of damage by moving vehicles. When the gas pressure at the terminal of the gas riser at each trailer site is .5 psig or less, the minimum size of the gas piping shall be 1" for other than undiluted liquefied petroleum gases.

ADD 404.5.2 as follows:

404.5.2 Connection of Trailer

Piping shall not be installed underground beneath manufactured homes or house trailers. Trailers shall be connected to the gas piping system with rigid pipe or listed connections of adequate size and installed so as to be protected against physical damage.

ADD Section 404.6.1 as follows:

404.6.1 Piping in Solid Floors

No threaded connectors may be used on piping in solid floors.

ADD Section 404.9.1 as follows:

404.9.1

All gas piping exposed to outside weather shall be protected with approved paint coatings to prevent corrosion.

ADD Section 404.11.3 as follows:

404.11.3 Corrosion Protection

Dielectric unions shall be installed at each end of underground piping. Anode bags shall be installed on all metallic piping underground.

ADD Section 404.14.1 as follows:

404.14.1

Installation of buried underground piping beneath building floor slab shall be subject to prior approval of the administrative authority.

DELETE Section 406.4.1 Entirely and Substitute the following:

406.4.1 Method of Testing

Low pressure (not in excess of 2 psi gauge) gas piping shall withstand a pressure of 30 psig for a period of not less than 10 minutes without showing any drop in pressure. All high pressure gas piping must have a minimum of 100 psig test. Higher pressure (medical gas) must stand at least 1.5 times normal working pressure for a period of 24 hours without showing any drop in pressure. Medical gas testing to conform to NFPA 99C.

ADD Section 406.4.3 as follows:

406.4.3 Testing of Medical Gas Systems

Medical gas systems shall be installed in accordance with the requirements of NFPA 99C and vacuum systems.

ADD Section 409.1.4 as follows:

409.1.4 Location of Shut-Off Valves

Outlets for individual manufactured homes or trailers shall be provided with a readily accessible manual shut-off valve located outdoors at the trailer. Trailers shall be connected to the gas piping system with rigid pipe or listed connections for adequate size and installed so as to be protected against physical damage.

ADD 409.5.1 #1 as follows:

409.5.1 #1 Fireplace Logs and Starters

All fireplace logs and starters must be installed according to their listings and have a readily accessible manual shutoff valve within reach of and extraneous to the fireplace. A manual main shutoff valve shall be installed ahead of all controls including the pilot gas valve.

ADD 411.1 #9 and #10 as follows:

411.1-Appliance Fuel Connectors

9. Flexible connectors used outdoors shall be listed for outdoor use. Flexible connectors used in fireplace fireboxes shall be approved for such use or be stainless steel.

10. Connectors shall have an overall length not to exceed 18 inches except for range and domestic clothes dryer connectors, which shall not exceed 3 feet in length. Connectors shall not be concealed within, or extended through walls, floors, partitions, ceilings or appliance housing. A shutoff valve not less than the nominal size of the connector shall be installed ahead of the connector in accordance with Section 409.5. Connectors shall be sized to provide the total demand of the connected appliance.

ADD 501.10.1 as follows:

501.10.1 Room Exhausters and Appliance Blowers

A fan or blower shall not be discharged into any vent, chimney or vent connector into which a gas appliance is vented by natural draft.

DELETE Section 503.10.2.3 Items 2 thru 5 as follows:

503.10.2.3 Residential Type Appliance Connectors

Where vent connectors for residential type appliances are not installed in attic or other unconditioned spaces, connectors for listed appliances having draft hoods and for appliances having draft hoods and equipped with listed conversion burners shall be one of the following:

1. Type B or Type L Vent Material
2. Delete
3. Delete
4. Delete
5. Delete
6. A Listed Vent Connector

Vent connectors shall not be covered with insulation.

Exception: Listed insulated vent connectors shall be installed according to the terms of their listing.

ADD Section 603.2 as follows:

603.2 Log Starters

Log starters shall have support installed on end of starter.

ADD Section 618.2.1 as follows:

618.2.1 Furnaces Use with Refrigeration Systems and Blowers

The furnace shall be installed on the discharge side of the blower. The furnace shall be installed parallel with or ahead of the refrigeration coil unless listed for other locations. If the refrigerating coil is installed in the discharge duct from the furnace, the blower shall be of a size and capacity to supply the required amount of air through the furnace to maintain normal temperature rise while operating against the total static pressure existing in the system. Auxiliary drain pans shall be installed under all evaporator coils or vertical furnaces installed in attic spaces.

ADD Section 624.1.2 Water Heaters as follows:

624.1.2 Prohibited Installations

Water heaters, with the exception of those having direct vent systems, shall not be installed in bathrooms and bedrooms or in a closet with access only through a bedroom or bathroom. However, water heaters of the automatic storage type may be installed as a replacement in a bathroom, when specifically authorized by the gas official, providing they are properly vented and are supplied with adequate combustion air.

Exception: When a closet, having a weather stripped solid door an approved door closing device, has been designed exclusively for the water heater and where all air for combustion and ventilation is supplied from outdoors.

ADD Section 624.1.3 thru 624.1.9.4 as follows:

624.1.3 Water Heater Location

Water heaters shall be located as close as practical to the vent. They should be so located as to provide short runs of water piping to fixtures.

624.1.4

All water heaters installed in remote locations such as suspended ceiling spaces or in attics shall rest in a galvanized steel or other metal pan of equal corrosive resistance having a thickness at least equal to 0.0276 inch (0.7 mm) galvanized sheet steel. Pans shall have a minimum depth of 6 inches. All drain pans shall have a 1 inch drain. All gas water heater emergency plans shall be installed as per manufacturer listing.

624.1.5 Installation in Garages Prohibited

Gas fired water heaters or central furnaces shall not be installed in residential garages. Combustion air ducts shall not terminate in a residential garage. Doors in garages, accessing gas fired appliances in closets, furnace rooms etc. shall be weather stripped to provide an air tight seal which will prevent gasoline vapors from entering the appliance closet or room. Appliances shall be installed a minimum of 18 inches above ground level.

624.1.6 Connection

Water heaters shall be connected in a manner to permit observation, maintenance and servicing.

624.1.7 Closed Systems

Water heaters shall not be installed in a closed system of water piping unless a water pressure relief valve is provided.

624.1.8 Temperature, Pressure and Vacuum Relief Valves

624.1.8.1

The installation and adjustment of the temperature, pressure and vacuum valves or combination thereof, and automatic gas shutoff valves shall be in accordance with the requirements of ANSI Z21.10.1 and ANSI Z21.10.3 or with the manufacturer's instructions accompanying such devices.

624.1.8.2

A water heater or tank that has the cold water supply entering at the bottom of the tank shall have a listed vacuum relief valve installed above the top of the tank so as to prevent siphoning of the tank.

624.1.9 Circulation or Tank Types

624.1.9.1

The method of connecting a circulating water heater to the tank shall assure proper circulation of water through the heater, and permit a safe and useful temperature of water to be drawn from the tank.

624.1.9.2

The size of the water circulating piping, in general, shall conform with the size of the water connection of the heater.

624.1.9.3

A suitable water valve or cock, through which sediment may be drawn off or the tank emptied, shall be installed at the bottom of the tank.

624.1.9.4

Means acceptable to the administrative authority shall be provided to prevent siphoning in any boiler or tank to which any water heater is attached. A cold water tube with a hole near the top is commonly accepted for this purpose.

ADD Section 627.10.1 as follows:

627.10.1 Switches in Electrical Supply Lines

Means for interrupting the electrical supply to the air conditioning and heating equipment or to its associated cooling tower shall in no case be installed farther than six feet from the service side of the equipment.

ADD Section 628.5 as follows:

628.5

All illuminating gas appliances must have an accessible manual shut off valve within reach of and extraneous to the appliance.

