

CHAPTER 6

BUILDINGS AND BUILDING REGULATIONS

ARTICLE 16. FUEL GAS CODE

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**6-16-1 ADOPTION OF FUEL GAS CODE**

Three (3) Document copies, in accordance with 50 ILCS 220/2, and 65 ILCS 5/1-3-2, have been available for public use, inspection and examination for thirty (30) days and one copy for permanent public use in the office of the Village Clerk of the Village of Carol Stream, being marked and designated as “International Fuel Gas Code, 2003 Edition,” as published by The International Code Council, Inc., be and is hereby adopted as the Fuel Gas Code of the Village of Carol Stream, State of Illinois, for the control of buildings and structures as therein provided; and each and all regulations, provisions, penalties, conditions and terms of said International Fuel Gas Code 2003, are hereby adopted and made a part hereof as if fully set out in this article, with additions, insertions, deletions and changes, if any, prescribed in Sections 6-16-2 through 6-16-5 of this article.

**6-16-2 AMENDMENTS TO CHAPTER 1**

**CHAPTER 1  
ADMINISTRATION**

**SECTION 101 (IFGC)  
GENERAL**

**101.1 Title.** These regulations shall be known as the *Fuel Gas Code* of ~~(name of jurisdiction)~~ **the Village of Carol Stream**, hereinafter referred to as “this code.”

**101.2 Scope.** This code shall apply to the installation of fuel-gas piping systems, fuel-gas utilization equipment and related accessories in accordance with Sections 101.2.1 through 101.2.5. **Provisions in the appendices shall apply unless specifically deleted.**

**SECTION 102 (IFGC)  
APPLICABILITY**

**102.8 Referenced codes and standards.** The codes and standards referenced in this code shall be those that are listed in Chapter 8 and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such

reference. Where differences occur between provisions of this code and the referenced standards the provisions of this code shall apply.

**Exception:** Where enforcement of a code provision would violate the conditions of the listing of the equipment or appliance, the conditions of the listing and the manufacturer's installation instructions shall apply.

**102.8.1 Electrical code.** All references to the *ICC Electrical Code* shall be construed to refer to the Electrical Code as amended and adopted by the Village of Carol Stream.

**102.8.2 Residential code.** All references to the *International Residential Code* shall be construed to refer to the Residential Code as amended and adopted by the Village of Carol Stream.

**102.8.3 Mechanical code.** All references to the *International Mechanical Code* shall be construed to refer to the Mechanical Code as amended and adopted by the Village of Carol Stream.

**102.8.4 Plumbing code.** All references to the *International Plumbing Code* shall be construed to refer to the Plumbing Code as amended and adopted by the Village of Carol Stream.

**102.8.5 Property maintenance code.** All references to the *International Property Maintenance Code* shall be construed to refer to the Property Maintenance Code as amended and adopted by the Village of Carol Stream.

**102.8.6 Energy conservation code.** All references to the *International Energy Conservation Code* shall be construed to refer to the Energy Conservation Code as amended and adopted by the Village of Carol Stream.

**102.8.7 Fire code.** All references to the *International Fire Code* shall be construed to refer to the Fire Code as amended and adopted by the Village of Carol Stream.

**102.8.8 Building code.** All references to the *International Building Code* shall be construed to refer to the Building Code as amended and adopted by the Village of Carol Stream.

## SECTION 106 (IFGC) PERMITS

**106.5.2 Fee schedule.** The fees for work shall be as set forth in Chapter 6, Article 13, of the Carol Stream Village Code indicated in the following schedule.

~~(JURISDICTION TO INSERT APPROPRIATE SCHEDULE)~~

**106.5.3 Fee refunds.** The code official shall authorize the refunding of fees as follows.

1. The full amount of any fee paid hereunder which was erroneously paid or collected.

2. ~~Not more than (SPECIFY PERCENTAGE) percent of the permit fee paid when no work has been done under the permit issued in accordance with this code.~~
3. ~~Not more than (SPECIFY PERCENTAGE) percent of the plan review fee paid when the application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.~~

The code official shall not authorize the refunding of any fee paid, except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

### **SECTION 108 (IFGC) VIOLATIONS**

**108.4 Violation penalties.** Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a ~~(SPECIFY OFFENSE)~~ **misdemeanor**, punishable by a fine of not **less than 75.00 dollars or** more than ~~(AMOUNT)~~ **750.00** dollars or by imprisonment not exceeding ~~(NUMBER OF DAYS)~~ **180** days, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offence.

**108.5 Stop work orders.** Upon notice from the code official that work is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give written notice prior to stopping the work. Any person who shall continue any work on the system after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than ~~(AMOUNT)~~ **75.00** dollars or not more than ~~(AMOUNT)~~ **750.00** dollars.

### **SECTION 109 (IFGC) MEANS OF APPEAL**

**109.2 Membership of Board of Appeals.** The board of appeals shall consist of ~~five members appointed by the chief appointing authority as follows: one for five years; one for four years; one for three years; one for two years; and one for one year. Thereafter, each new member shall serve for five years or until a successor has been appointed.~~ **the President and Board of Trustees of the Village of Carol Stream.**

**109.2.1 Qualifications.** ~~The board of appeals shall consist of five individuals, one from each of the following professions or disciplines.~~

1. ~~Registered design professional who is a registered architect; or a builder or superintendent of building construction with at least ten years' experience, five of which shall have been in responsible charge of work.~~
2. ~~Registered design professional with structural engineering or architectural experience.~~
3. ~~Registered design professional with fuel gas and plumbing engineering experience; or a fuel gas contractor with at least ten years' experience, five of which shall have been in responsible charge of work.~~
4. ~~Registered design professional with electrical engineering experience; or a fire protection contractor with at least ten years' experience, five of which shall have been in responsible charge of work.~~
5. ~~Registered design professional with fire protection engineering experience; or an electrical contractor with at least ten years' experience, five of which shall have been in responsible charge of work.~~

~~**109.2.2 Alternate members.** The chief appointing authority shall appoint two alternate members who shall be called by the board chairman to hear appeals during the absence or disqualification of a member. Alternate members shall possess the qualifications required for board membership and shall be appointed for five years, or until a successor has been appointed.~~

~~**109.2.3 Chairman.** The board shall annually select one of its members to **Village President shall** serve as chairman.~~

~~**109.2.4 Disqualification of member.** A member shall not hear an appeal in which that member has a personal, professional or financial interest.~~

~~**109.2.5 Secretary.** The chief administrative officer shall designate a qualified clerk to **Village Clerk shall** serve as secretary to the board. The secretary shall file a detailed record of all proceedings in the office of the chief administrative officer.~~

~~**109.2.6 Compensation of members.** Compensation of members shall be determined by law.~~

## 6-16-3 AMENDMENTS TO CHAPTER 3

### CHAPTER 3 GENERAL REGULATIONS

#### SECTION 307 (IFGC) CONDENSATE DISPOSAL

**[M] 307.2 Drain pipe materials and sizes.** Components of the condensate disposal system shall be cast iron, galvanized steel, copper, ~~polybutylene, polyethylene, ABS, CPVC~~ or PVC pipe or tubing. All components shall be selected for the pressure and temperature rating of the installation. Condensate waste and drain line size shall be not less than ¾-inch internal diameter (19 mm) and shall not decrease in size from the drain

connection to the place of condensate disposal. Where the drain pipes from more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with an approved method. All horizontal sections of drain piping shall be installed in uniform alignment at a uniform slope.

## 6-16-4 AMENDMENTS TO CHAPTER 4

### CHAPTER 4 GAS PIPING INSTALLATIONS

#### SECTION 403 (IFGS) PIPING MATERIALS

~~**403.4.4 Aluminum.** Aluminum-alloy pipe shall comply with ASTM B 241 (except that the use of alloy 5456 is prohibited), and shall be marked at each end of each length indicating compliance. Aluminum-alloy pipe shall be coated to protect against external corrosion where it is in contact with masonry, plaster, or insulation, or is subject to repeated wettings by such liquids as water, detergents, or sewage. Aluminum-alloy pipe shall not be used in exterior locations or underground.~~

**403.5 Metallic tubing.** Seamless copper, aluminum-alloy and steel tubing shall not be used with gases corrosive to such materials.

~~**403.5.3 Aluminum tubing.** Aluminum-alloy tubing shall comply with ASTM B 210 or ASTM B 241. Aluminum-alloy tubing shall be coated to protect against external corrosion where it is in contact with masonry, plaster or insulation, or is subject to repeated wettings by such liquids as water, detergent or sewage.~~

~~**403.5.4 Corrugated stainless steel tubing.** Corrugated stainless steel tubing shall be tested and listed in compliance with the construction, installation and performance requirements of ANSI LC 1/CSA 6.26.~~

**403.10.4 Metallic fittings.** Metallic fittings, including valves, strainers and filters, shall comply with the following:

1. Threaded fittings in sizes larger than 4 inches (102 mm) shall not be used except where approved.
2. Fittings used with steel or wrought iron pipe shall be steel, brass, bronze, malleable iron or cast iron.
3. Fittings used with copper or brass pipe shall be copper, brass or bronze.
4. ~~Fittings used with aluminum-alloy pipe shall be of aluminum-alloy.~~
5. Cast-iron fittings:
  - 5.1. Flanges shall be permitted.
  - 5.2. Bushings shall not be used.

- 5.3. Fittings shall not be used in systems containing flammable gas-air mixtures.
- 5.4. Fittings in sizes 4 inches (102 mm) and larger shall not be used indoors except where approved.
- 5.5. Fittings in sizes 6 inches (152 mm) and larger shall not be used except where approved.
6. Aluminum-alloy fittings. Threads shall not form the joint seal.
7. Zinc aluminum-alloy fittings. Fittings shall not be used in systems containing flammable gas-air mixtures.
8. Special fittings. Fittings such as couplings, proprietary-type joints, saddle tees, gland-type compression fittings, and flared, flareless or compression-type tubing fittings shall be: used within the fitting manufacturer's pressure-temperature recommendations; used within the service conditions anticipated with respect to vibration, fatigue, thermal expansion or contraction; installed or braced to prevent separation of the joint by gas pressure or external physical damage; and shall be approved.

**SECTION 404 (IFGC)  
PIPING SYSTEM INSTALLATION**

**404.6 Piping in solid floors.** Piping in solid floors shall be laid in channels in the floor and covered in a manner that will allow access to the piping with a minimum amount of damage to the building. Where such piping is subject to exposure to excessive moisture or corrosive substances, the piping shall be protected in an approved manner. As an alternative to installation in channels, the piping shall be installed in a casing of schedule 40 steel, wrought iron or ~~PVC or ABS~~ pipe with tightly sealed ends and joints. Both ends of such casing shall extend not less than 2 inches (51 mm) beyond the point where the pipe emerges from the floor.

**6-16-5 AMENDMENTS TO CHAPTER 6**

**CHAPTER 6  
SPECIFIC APPLIANCES**

**SECTION 618 (IFGC)  
FORCED-AIR WARM-AIR FURNACES**

**618.5 Prohibited sources.** Outside or return air for a forced-air heating system shall not be taken from the following locations:

1. Closer than 10 feet (3048 mm) from an appliance vent outlet, a vent opening from a plumbing drainage system or the discharge outlet of an exhaust fan, unless the outlet is 3 feet (914 mm) above the outside air inlet.

2. Where there is presence of objectionable odors, fumes or flammable vapors; or where located less than 10 feet (3048 mm) above the surface of any abutting public way or driveway; or where located at grade level by a sidewalk, street, alley or driveway.
3. A hazardous or ~~insanitary~~ **unsanitary** location or a refrigeration machinery room as defined in the *International Mechanical Code*.
4. A room or space, the volume of which is less than 25 percent of the entire volume served by such system. Where connected by a permanent opening having an area sized in accordance with 617.2, adjoining rooms or open spaces shall be considered as a single room or space for the purpose of determining the volume of such room or space.

**Exception:** The minimum volume requirement shall not apply where the amount of return air taken from a room or space is less than or equal to the amount of supply air delivered to such room or space.

5. A room or space containing an appliance where such a room or space serves as the sole source of return air.

**Exception:** This shall not apply where:

1. The appliance is a direct-vent appliance or an appliance not requiring a vent in accordance with 501.8.
2. The room or space complies with the following requirement:
  - 2.1 The return air shall be taken from a room or space having a volume exceeding 1 cubic foot for each 10 Btu/h (9.6 L/W) of combined input rating of all fuel-burning appliances therein.
  - 2.2 The volume of supply air discharged back into the same space shall be approximately equal to the volume of return air taken from the space.
  - 2.3 Return-air inlets shall not be located within 10 feet (3048 mm) of any appliance fire box or draft hood in the same room or space.
3. Rooms or spaces containing solid-fuel burning appliances, provided that return-air inlets are located not less than 10 feet (3048 mm) from the firebox of such appliance.
6. A closet, bathroom, toilet room, kitchen, garage, mechanical room, boiler room or furnace room.