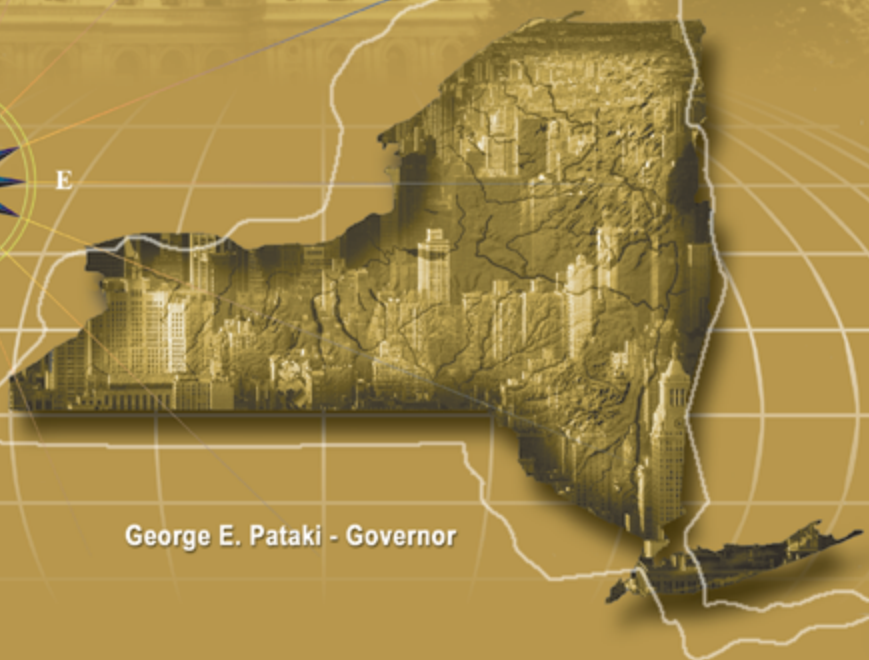


# Fuel Gas Code of New York State

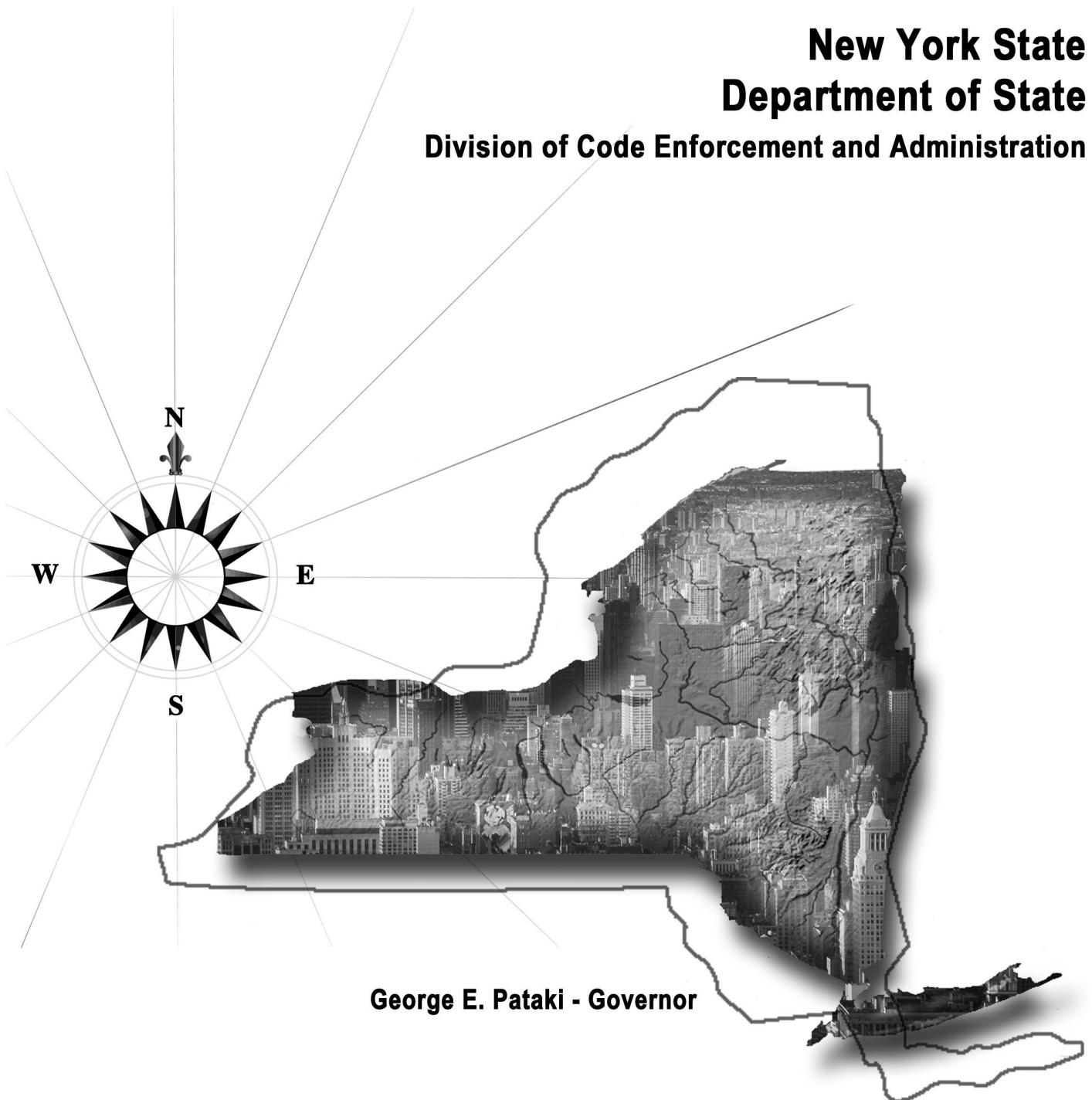
New York State  
Department of State  
Division of Code Enforcement and Administration



George E. Pataki - Governor

# Fuel Gas Code of New York State

**New York State  
Department of State  
Division of Code Enforcement and Administration**



**George E. Pataki - Governor**

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## **Content**

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## **Marginal Markings**

New York modifications to code language are indicated by NY tape (¶) in the margin, and New York text is underlined. Deletion of code language by New York is indicated by an arrow (⇒) in the margin.

“Reserved” indicates that a section or portion of the International Code™ has been deleted, but its number or position has been retained.

## **Letter Designations in Front of Section Numbers**

The content of sections in this code which begin with a letter designation are maintained by another code development committee in accordance with the following: [B] = International Building Code Development Committee; [F] = International Fire Code Development Committee; [M] = International Mechanical Code Development Committee; [P] = International Plumbing Code Development Committee; [RBE] = International Residential Code Building and Energy Development Committee; [RMP] = International Residential Code Mechanical/Plumbing Development Committee; and [E] = International Energy Conservation Code Development Committee.

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## CHAPTER 1 GENERAL REQUIREMENTS

### SECTION 101 GENERAL

**101.1 Title.** These provisions shall be known as the *Fuel Gas Code of New York State* and shall be cited as such, and will be referred to herein as "this code."

**101.2 Scope.** The provisions of this code shall apply to the installation of fuel gas piping systems, fuel gas utilization equipment, and fuel related accessories as follows:

1. Coverage of piping systems shall extend from the point of delivery to the connections with gas utilization equipment. (See "point of delivery.")
2. Systems with an operating pressure of 125 psig (862 kPa gauge) or less.

Piping systems for gas-air mixtures within the flammable range with an operating pressure of 10 psig (69 kPa gauge) or less.

LP-Gas piping systems with an operating pressure of 20 psig (140 kPa gauge) or less.

3. Piping systems requirements shall include design, materials, components, fabrication, assembly, installation, testing, inspection, operation, and maintenance.
4. Requirements for gas utilization equipment and related accessories shall include installation, combustion, and ventilation air and venting.

This code shall not apply to the following:

1. Portable LP-Gas equipment of all types that are not connected to a fixed fuel piping system.
2. Installation of farm equipment such as brooders, dehydrators, dryers, and irrigation equipment.
3. Raw material (feedstock) applications except for piping to special atmosphere generators.
4. Oxygen-fuel gas cutting and welding systems.
5. Industrial gas applications using gases such as acetylene and acetylenic compounds, hydrogen, ammonia, carbon monoxide, oxygen, and nitrogen.
6. Petroleum refineries, pipeline compressor or pumping stations, loading terminals, compounding plants, refinery tank farms, and natural gas processing plants.
7. Integrated chemical plants or portions of such plants where flammable or combustible liquids or gases are produced by chemical reactions or used in chemical reactions.
8. LP-Gas installations at utility gas plants.

9. Liquefied natural gas (LNG) installations.
10. Fuel gas piping in power and atomic energy plants.
11. Proprietary items of equipment, apparatus, or instruments such as gas generating sets, compressors, and calorimeters.
12. LP-Gas equipment for vaporization, gas mixing, and gas manufacturing.
13. Temporary LP-Gas piping for buildings under construction or renovation that is not to become part of the permanent piping system.
14. Installation of LP-Gas systems for railroad switch heating.
15. Installation of LP-Gas and compressed natural gas (CNG) systems on vehicles.
16. Gas piping, meters, gas pressure regulators, and other appurtenances used by the serving gas supplier in the distribution of gas, other than undiluted LP-Gas.

**101.2.1 Other fuels.** The requirements for the design, installation, maintenance, alteration and inspection of mechanical systems operating with fuels other than fuel gas shall be regulated by the *Mechanical Code of New York State*.

**101.3 Appendices.** The following appendix has been adopted and is made part of this code:

#### Appendix E - Structural Safety

**101.4 Purpose.** The purpose of this code is to provide minimum standards to safeguard life or limb, health, property and public welfare by regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance or use of fuel gas systems.

**101.5 Severability.** If a section, subsection, sentence, clause or phrase of this code is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code.

### SECTION 102 APPLICABILITY

**102.1 General.** The provisions of this code shall apply to all matters affecting or relating to structures and premises, as set forth in Section 101. Where, in a specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern.



## GENERAL REQUIREMENTS

### 102.2 – 105.3

**102.2 Existing installations.** Except as otherwise provided for in this chapter, a provision in this code shall not require the removal, alteration or abandonment of, nor prevent the continued utilization and maintenance of, existing installations lawfully in existence at the time of the adoption of this code.

**102.3 Maintenance.** Installations, both existing and new, and parts thereof shall be maintained in proper operating condition in accordance with the original design and in a safe condition. Devices or safeguards which are required by this code shall be maintained in compliance with the code under which they were installed.

**102.4 Additions, alterations or repairs.** Additions or alterations to installations shall conform to that required for new installations without requiring the existing installation to comply with all of the requirements of this code. Additions or alterations shall not cause an existing installation to become unsafe, hazardous or overloaded.

Repairs to existing installations shall be permitted in the same manner and arrangement as in the existing system and shall not be hazardous.

**102.5 through 102.7** Reserved.

**102.8 Referenced standards.** The standards referenced in this code shall be those that are listed in Chapter 7 and such 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.

**102.9 Other laws and regulations.** The provisions of this code shall not be deemed to nullify any provisions of local, state or federal laws and regulations.

## SECTION 103 OFFICE OF CODE ENFORCEMENT

**103.1 General.** A city, town, village or county that is responsible for administration and enforcement of this code shall designate a code enforcement official in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

## SECTION 104 CODE ENFORCEMENT OFFICIAL

**104.1 General.** A city, town, village or county that is responsible for administration and enforcement of this code shall establish its local program in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

**104.2 and 104.3** Reserved.

**104.4 Inspections.** A city, town, village or county that is responsible for administration and enforcement of this code shall provide for inspections in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

**104.5 through 104.7** Reserved.

**104.8 Department records.** A city, town, village or county that is responsible for administration and enforcement of this code shall establish and maintain records in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall keep records in compliance with the applicable provisions of state agency regulations.

## SECTION 105 APPROVAL

**105.1** Reserved.

**105.2 Alternative materials, methods and equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material or method of construction shall be approved where the State Fire Prevention and Building Code Council finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

**105.3 Testing.** Reserved.

## GENERAL REQUIREMENTS

105.3.1 – 109.1

**105.3.1 Test methods.** Test methods shall be as specified in this code or by other recognized test standards.

**105.4 Material and equipment reuse.** Material, equipment and devices shall not be reused unless they meet the requirements of this code for new materials.

**108.7 Unsafe installations.** An installation that is unsafe, constitutes a fire or health hazard, or is otherwise dangerous to human life, as regulated by this code, by reason of inadequate maintenance, dilapidation, fire hazard, disaster, damage or abandonment shall be abated by repair, rehabilitation, demolition or removal.

## SECTION 106 PERMITS

**106.1 When required.** A city, town, village or county that is responsible for administration and enforcement of this code shall determine local permit requirements in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

**106.2 through 106.4** Reserved.

**106.5 Fees.** A city, town, village or county that is responsible for administration and enforcement of this code shall establish fees in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

## SECTION 107 INSPECTIONS

**107.1 Required inspections.** A city, town, village or county that is responsible for administration and enforcement of this code shall determine necessary inspections in accordance that the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

## SECTION 108 VIOLATIONS

**108.1 Violations.** Violations of this code shall be dealt with in a manner appropriate to the applicable provisions of city, town, village or county and shall be in accordance with the applicable provisions of local law.

Violations of this code on state property shall be dealt with in a manner appropriate to a state agency.

**108.2 through 108.6** Reserved.

## SECTION 109 VARIANCE PROCEDURES

**109.1 Application for variance or appeal.** Variance or appeal for any part of this code shall be in accordance with the provisions of 19 NYCRR titled, "Variance Procedures," which is administered by the Secretary of State. No town, village, city or county, nor any state agency charged with the administration and enforcement of this code, may waive, modify or otherwise alter this code.



## CHAPTER 2 DEFINITIONS

### SECTION 201 GENERAL

**201.1 Scope.** Unless otherwise expressly stated, the following words and terms shall, for the purposes of this code and standard, have the meanings indicated in this chapter.

**201.2 Interchangeability.** Words used in the present tense include the future; words in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

**201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in the *Building Code of New York State*, *Fire Code of New York State*, *Mechanical Code of New York State* or *Plumbing Code of New York State*, such terms shall have meanings ascribed to them as in those codes.

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies.

### SECTION 202 GENERAL DEFINITIONS

**ACCESS (TO).** That which enables a device, appliance or equipment to be reached by ready access or by a means that first requires the removal or movement of a panel, door or similar obstruction (see also "Ready access").

**AIR CONDITIONING.** The treatment of air so as to control simultaneously the temperature, humidity, cleanness and distribution of the air to meet the requirements of a conditioned space.

**AIR CONDITIONER, GAS-FIRED.** A gas-burning, automatically operated appliance for supplying cooled and/or dehumidified air or chilled liquid.

**AIR, EXHAUST.** Air being removed from any space or piece of equipment and conveyed directly to the atmosphere by means of openings or ducts.

**AIR-HANDLING UNIT.** A blower or fan used for the purpose of distributing supply air to a room, space or area.

**AIR, MAKEUP.** Air that is provided to replace air being exhausted.

FUEL GAS CODE OF NEW YORK STATE

**ALTERATION.** A change in a system that involves an extension, addition or change to the arrangement, type or purpose of the original installation.

**ANODELESS RISER.** A transition assembly in which plastic piping is installed and terminated above ground outside of a building.

**APPLIANCE (EQUIPMENT).** Any apparatus or equipment that utilizes gas as a fuel or raw material to produce light, heat, power, refrigeration, or air conditioning.

**APPLIANCE, AUTOMATICALLY CONTROLLED.** Appliances equipped with an automatic burner ignition and safety shutoff device and other automatic devices which accomplish complete turn-on and shutoff of the gas to the main burner or burners, and graduate the gas supply to the burner or burners, but do not affect complete shutoff of the gas.

**APPLIANCE, FAN-ASSISTED COMBUSTION.** An appliance equipped with an integral mechanical means to either draw or force products of combustion through the combustion chamber or heat exchanger.

**APPLIANCE, FUEL-FIRED.** An appliance that burns solid, liquid and/or gaseous fuel, including but not limited to wood stoves, household cooking ranges, furnaces, boilers, water heaters, clothes dryers and gas-fired refrigerators.

**APPLIANCE, GAS (EQUIPMENT).** Any apparatus or equipment that uses gas as a fuel or raw material to produce light, heat, power, refrigeration or air conditioning.

**APPLIANCE TYPE.**

**Low-heat appliance (residential appliance).** Any appliance in which the products of combustion at the point of entrance to the flue under normal operating conditions have a temperature of 1,000°F (538°C) or less.

**Medium-heat appliance.** Any appliance in which the products of combustion at the point of entrance to the flue under normal operating conditions have a temperature of more than 1,000°F (538°C), but not greater than 2,000°F (1093°C).

**APPLIANCE, UNVENTED.** An appliance designed or installed in such a manner that the products of combustion are not conveyed by a vent or chimney directly to the outside atmosphere.