

FUEL GAS CODE
Update to Model Code
FOR INCLUSION IN THE 2007 Edition of the FLORIDA BUILDING CODE

IPC '06	FBC '04 Sections to be revised or added.	TAC Action
<p>GENERAL: Wherever the following references are used, they shall be replaced with FL specific reference: <i>International Building Code</i> <i>International Fuel Gas Code</i> <i>International Fire Code</i></p> <p>No overlap = language has NOT been changed Overlap = Means I-06 language HAS been changed NA = Means language in a section is Not Applicable</p>	<p><i>Florida Building Code, Building</i> <i>Florida Building Code, Fuel Gas</i> <i>Florida Fire Prevention Code</i></p>	
CHAPTER 2 DEFINITIONS		
<p>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 contest implies.</p>	<p>201.4 Terms not defined. Where terms are not defined through the methods authorized by this section, such terms shall have the meanings as defined in Webster's Third New International Dictionary of the English Language Unabridged.</p>	
<p>202 DESIGN FLOOD ELEVATION.</p> <p>FLOOD HAZARD AREA.</p> <p>REGULATOR.</p> <p>RISER, GAS.</p> <p>NA</p>	<p>202 DESIGN FLOOD ELEVATION. Reserved.</p> <p>FLOOD HAZARD AREA. Reserved.</p> <p>REGULATOR. A device for controlling and maintaining a uniform gas supply pressure, either pounds to pounds, pounds-to-inches water column or inches-to-inches water column (appliance regulator).</p> <p>RISER, GAS. A vertical pipe supplying fuel gas to a meter assembly or a pressure regulator.</p> <p>UTILITY GASES. Natural gas, manufactured gas, liquefied petroleum gas-air mixture or mixtures of any of these gases.</p>	<p>No overlap. Move FL specific reqt</p>
CHAPTER 3 GENERAL REGULATION		

IPC '06	FBC '04 Sections to be revised or added.	TAC Action
<p>301.1 Scope. This chapter shall govern the approval and installation of all equipment and appliances that comprise parts of the installations regulated by this code in accordance with Section 101.2.</p> <p>301.1.1 Other fuels. The requirements for combustion and dilution air for gas-fired appliances shall be governed by Section 304. The requirements for combustion and dilution air for appliances operating with fuels other than fuel gas shall be regulated by the <i>International Mechanical Code</i>.</p>	<p>301.1 Scope. This chapter shall govern the approval and installation of all equipment and appliances that comprise parts of the installations regulated by this code in accordance with Section 301.1.1.</p> <p>301.1.1 This code shall apply to the installation of fuel gas piping systems, fuel gas utilization equipment, and related accessories as follows:</p> <ol style="list-style-type: none"> 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). LP-gas piping systems with an operating pressure of 20 psig (140 kPa) 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. <p>This code shall not apply to the following:</p> <ol style="list-style-type: none"> 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. 17. Building design and construction, except as specified herein. 	<p>No overlap Move FL specific reqt</p>

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IPC '06	FBC '04	TAC Action
<p>301.7 Fuel types. Appliances shall be designed for use with the type of fuel gas that will be supplied to them.</p> <p>301.7.1 Appliance fuel conversion. Appliances shall not be converted to utilize a different fuel gas except where complete instructions for such conversion are provided in the installation instructions, by the serving gas supplier or by the appliance manufacturer.</p>	<p style="text-align: center;">Sections to be revised or added.</p> <p>301.7 Fuel types. Fuel-fired appliances shall be designed for use with the type of fuel gas to which they will be connected and the altitude at which they are installed. Appliances that comprise parts of the installation shall not be converted for the usage of a different fuel, except where approved and converted in accordance with the manufacturer’s instructions or the serving gas supplier. The fuel gas input rate shall not be increased or decreased beyond the limit rating for the altitude at which the appliance is installed.</p>	<p>Overlap exists. Needs resolution.</p>
<p>304.10 Louvers and grilles. The required size of openings for combustion, ventilation and dilution air shall be based on the net free area of each opening. Where the free area through a design of louver, grille or screen is known, it shall be used in calculating the size opening required to provide the free area specified. Where the design and free area of louvers and grilles are not known, it shall be assumed that wood louvers will have 25-percent free area and metal louvers and grilles will have 75-percent free area. Screens shall have a mesh size not smaller than 1/4 inch (6.4 mm). Nonmotorized louvers and grilles shall be fixed in the open position. Motorized louvers shall be interlocked with the appliance so that they are proven to be in the full open position prior to main burner ignition and during main burner operation. Means shall be provided to prevent the main burner from igniting if the louvers fail to open during burner start-up and to shut down the main burner if the louvers close during operation.</p>	<p>304.10 Louvers and grilles. The required size of openings for combustion, ventilation and dilution air shall be based on the net free area of each opening. Where the free area through a design of louver, grille or screen is known, it shall be used in calculating the size opening required to provide the free area specified. Where the design and free area of louvers and grilles are not known, it shall be assumed that wood louvers will have 25-percent free area and metal louvers and grilles will have 75-percent free area. Screens shall have a mesh size not smaller than ¼ inch. Nonmotorized louvers and grilles shall be fixed in the open position. Motorized louvers shall be interlocked with the equipment so that they are proven to be in the full open position prior to main burner ignition and during main burner operation. Means shall be provided to prevent the main burner from igniting if the louvers fail to open during burner start-up and to shut down the main burner if the louvers close during operation.</p>	<p>No overlap. Move FL specific reqt</p>
<p>305.4 Public garages. Appliances located in public garages, motor fuel-dispensing facilities, repair garages or other areas frequented by motor vehicles shall be installed a minimum of 8 feet (2438 mm) above the floor. Where motor vehicles exceed 6 feet (1829 mm) in height and are capable of passing under an appliance, appliances shall be installed a minimum of 2 feet (610 mm) higher above the floor than the height of the tallest vehicle.</p> <p>Exception: The requirements of this section shall not apply where the appliances are protected from motor vehicle impact and installed in accordance with Section 305.3 and NFPA 30A.</p>	<p>305.4 Public garages/parking structures. Appliances shall be installed in accordance with the manufacturer’s instructions and NFPA 88B.</p>	<p>Overlap exists. Needs resolution.</p>
<p>305.5 Private garages.</p>	<p>305.5 Private garages. Reserved</p>	<p>No overlap. Use FL specific reqt.</p>

IPC '06	FBC '04	TAC Action
<p>[M] 306.3 Appliances in attics. Attics containing appliances requiring access shall be provided with an opening and unobstructed passageway large enough to allow removal of the largest component of the appliance. The passageway shall not be less than 30 inches (762 mm) high and 22 inches (559 mm) wide and not more than 20 feet (6096 mm) in length when measured along the centerline of the passageway from the opening to the equipment. The passageway shall have continuous solid flooring not less than 24 inches (610 mm) wide. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the equipment. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), where such dimensions are large enough to allow removal of the largest component of the appliance.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. The passageway and level service space are not required where the appliance is capable of being serviced and removed through the required opening. 2. Where the passageway is not less than 6 feet (1829 mm) high for its entire length, the passageway shall be not greater than 50 feet (15 250 mm) in length. <p>306.3.1 Electrical requirements. A luminaire controlled by a switch located at the required passageway opening and a receptacle outlet shall be provided at or near the equipment location in accordance with the ICC Electrical Code.</p>	<p style="text-align: center;">Sections to be revised or added.</p> <p>306.3 Appliances in attics. [Same as IFGC '06. Should be same as FBC-M:] M306.3 Appliances in attics. Attics containing appliances requiring access shall be provided with an opening and unobstructed passageway large enough to allow removal of the largest appliance. The passageway shall not be less than 30 inches (762 mm) high and 22 inches (559 mm) wide and not more than 6 feet (1829 mm) in length measured along the centerline of the passageway from the attic access opening to the appliance's service panel. The passageway shall have continuous solid flooring not less than 24 inches (610 mm) wide. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the appliance. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), where such dimensions are large enough to allow removal of the largest appliance.</p> <p>Exception: The passageway and level service space are not required where the appliance is capable of being serviced and removed through the required opening.</p> <p>306.3.1 Electrical requirements. A lighting fixture with receptacle outlet, controlled by a switch located at the passageway opening, shall be provided so as to light the passageway and service area and installed in accordance with Chapter 27 of the Florida Building Code, Building.</p> <p>306.3.2 Air-handling units. Air-handling units shall be allowed in residential attics if the following conditions are met:</p> <ol style="list-style-type: none"> 1. The service panel of the equipment is located within 6 feet (1829 mm) feet of an attic access. 2. A device is installed to alert the owner or shut the unit down when the condensation drain is not working properly. 3. The attic access opening is of sufficient size to replace the air handler. 4. A notice is posted on the electric service panel indicating to the homeowner that the air handler is located in the attic. Said notice shall be in all capitals, in 16-point type, with the title and first paragraph in bold: <p style="text-align: center;">NOTICE TO HOMEOWNER</p> <p>A PART OF YOUR AIR-CONDITIONING SYSTEM, THE AIR HANDLER, IS LOCATED IN THE ATTIC. FOR PROPER, EFFICIENT, AND ECONOMIC OPERATION OF THE AIR-CONDITIONING SYSTEM, YOU MUST ENSURE THAT REGULAR MAINTENANCE IS PERFORMED. YOUR AIR-CONDITIONING SYSTEM IS EQUIPPED WITH ONE OR BOTH OF THE FOLLOWING: 1) A DEVICE THAT WILL ALERT YOU WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY, OR 2) A DEVICE THAT WILL SHUT THE SYSTEM DOWN WHEN THE CONDENSATION DRAIN IS NOT WORKING. TO LIMIT POTENTIAL DAMAGE TO YOUR HOME, AND TO AVOID DISRUPTION OF SERVICE, IT IS RECOMMENDED THAT YOU ENSURE PROPER WORKING ORDER OF THESE DEVICES BEFORE EACH SEASON OF PEAK OPERATION.</p>	<p>Overlap should exist. FL specific criteria for appliances in attics should be replicated here from the mechanical code. This issue was determined by an administrative legal challenge in 2001. Staff will submit a code change to address this issue.</p>

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IPC '06	FBC '04 Sections to be revised or added.	TAC Action
309.1 Grounding.	309.1 Grounding. Each above-ground portion of a gas piping system upstream from the equipment shutoff valve shall be electrically continuous and bonded to any grounding electrode, as defined by Chapter 27 of the <i>Florida Building Code, Building</i> .	No overlap. Move FL specific reqt
401.2 Liquefied petroleum gas storage.	401.2 Liquefied petroleum gas storage. The storage system (container, regulators, piping and all components upstream to the point of delivery) for liquefied petroleum gas shall be designed and installed in accordance with the <i>Florida Fire Prevention Code</i> and NFPA 58.	No overlap. Move FL specific reqt
401.5 Identification. For other than steel pipe, exposed piping shall be identified by a yellow label marked "Gas" in black letters. The marking shall be spaced at intervals not exceeding 5 feet (1524 mm). The marking shall not be required on pipe located in the same room as the equipment served.	401.5 Identification. For other than black steel pipe, exposed gas piping shall be identified by a yellow label marked "Gas" in black letters. The marking shall be spaced at intervals not exceeding 5 feet (1524 mm). The marking shall not be required on pipe located in the same room as the equipment served. Exception: This section shall only apply where other similar piping or tubing in the same general area as the gas lines, containing a different medium, could be confused with the gas lines.	Overlap exists. Needs resolution.
404.14.3 Tracer.	404.14.3 Tracer. An insulated copper tracer wire or other approved conductor shall be installed adjacent to underground nonmetallic gas piping. Access shall be provided to the tracer wire or the tracer wire shall terminate above ground at each end of the nonmetallic gas piping. The tracer wire size shall not be less than 18 AWG and the insulation type shall be suitable for direct burial.	No overlap. Move FL specific reqt
406.3.4 Valve isolation. Where the piping system is connected to appliances or equipment designed for operating pressures equal to or greater than the test pressure, such appliances or equipment shall be isolated from the piping system by closing the individual appliance or equipment shutoff valve(s).	406.3.4 Valve isolation. Where the piping system is connected to equipment or components designed for operating pressures of less than the test pressure, such equipment or components shall be isolated from the piping system by disconnecting them and plugging or capping the outlet(s).	Overlap exists. Needs resolution
406.7.4 Placing appliances and equipment in operation.	406.7.4 Placing equipment in operation. After the piping has been placed in operation, all equipment shall be placed in operation per its listing and the manufacturer's instructions.	No overlap. Move FL specific reqt

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<p>411.1.3 Connector installation. Appliance fuel connectors shall be installed in accordance with the manufacturer’s instructions and Sections 411.1.3.1 through 411.1.3.4.</p> <p>411.1.3.1 Maximum length. Connectors shall have an overall length not to exceed 3 feet (914 mm), except for range and domestic clothes dryer connectors, which shall not exceed 6 feet (1829 mm) in overall length. Measurement shall be made along the centerline of the connector. Only one connector shall be used for each appliance.</p> <p>Exception: Rigid metallic piping used to connect an appliance to the piping system shall be permitted to have a total length greater than 3 feet (914 mm), provided that the connecting pipe is sized as part of the piping system in accordance with Section 402 and the location of the equipment shutoff valve complies with Section 409.5.</p> <p>411.1.3.2 Minimum size. Connectors shall have the capacity for the total demand of the connected appliance.</p> <p>411.1.3.3 Prohibited locations and penetrations. Connectors shall not be concealed within, or extended through, walls, floors, partitions, ceilings or appliance housings.</p> <p>Exception: Fireplace inserts that are factory equipped with grommets, sleeves or other means of protection in accordance with the listing of the appliance.</p> <p>411.1.3.4 Shutoff valve. 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.</p> <p>411.1.4 Movable appliances. Where appliances are equipped with casters or are otherwise subject to periodic movement or relocation for purposes such as routine cleaning and maintenance, such appliances shall be connected to the supply system piping by means of an approved flexible connector designed and labeled for the application. Such flexible connectors shall be installed and protected against physical damage in accordance with the manufacturer’s installation instructions.</p>	<p>411.1.4 Outdoor appliance connectors. Outdoor gas hose connectors are permitted to connect portable outdoor gas-fired equipment. An equipment shutoff valve, a listed quick-disconnect device, or a listed gas convenience outlet shall be installed where the connector is attached to the supply piping and in such a manner as to prevent the accumulation of foreign matter. Lengths shall not exceed 12 feet (3658 mm) and the connection shall only be made in the outdoor area where the equipment is to be used.</p>	<p>Overlap exists. Major changes made to sec. 411.1. Needs resolution</p>
<p>503.8 Venting system termination location. The location of venting system terminations shall comply with the following (see Appendix C):</p>	<p>503.8 Venting system termination location. The location of venting system terminations shall comply with the following: [1. – 4. No change]</p>	<p>No overlap. Use FL specific reqt.</p>
<p>SECTION 615 (IFGC) SAUNA HEATERS</p>	<p>SECTION 615. RESERVED</p>	<p>No overlap Move FL specific reqt</p>

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CHAPTER 8 REFERENCED STANDARDS		
ASME	ASME American Society of Mechanical Engineers Three Park Avenue New York, NY 10016-5990	
	Standard	Referenced in code
	<u>reference number</u> <u>Title</u>	<u>section number</u>
B31.3—99	B31.3—02 Process Piping	704.1.2, 705.2, 705.3
CSD-1—02	CSD-1—02 Controls and Safety Devices for Automatically Fired Boilers	631.1
ASTM	ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428	
	Standard	Referenced in code
	<u>reference number</u> <u>Title</u>	<u>section number</u>
A 53/A 53M—02	A 53/A 53M—02 Specification for Pipe, Steel, Black and Hot Dipped Zinc-Coated Welded and Seamless	403.4.2
B 88—03	B 88—02 Specification for Seamless Copper Water Tube	403.5.2
B 280—03	B 280—99e1 Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service	403.5.2
C 315—02	C 315—02 Specification for Clay Flue Linings	501.12

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<p>NA</p>	<p>Florida Codes Florida Building Commission c/o Florida Department of Community Affairs Building Codes and Standards 2555 Shumard Oak Boulevard Tallahassee, FL 32399-2100</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Standard reference number</th> <th style="text-align: left;">Title</th> <th style="text-align: right;">Referenced in code section number</th> </tr> </thead> <tbody> <tr> <td>FBC-B—04</td> <td>Florida Building Code, Building</td> <td style="text-align: right;">101.1, 201.3, 301.14, 302.1, 302.2, 305.6, 306.6, 401.1.1, 412.6, 413.3, 413.3.1, 501.1, 501.3, 501.12, 501.15.4, 609.3, 614.2, 706.1, 706.3</td> </tr> <tr> <td>Chapter 13 301.2</td> <td>Florida Building Code, Building: Energy Efficiency</td> <td></td> </tr> <tr> <td>Chapter 27</td> <td>Florida Building Code, Building: Electrical (NEC/NFPA 70)</td> <td style="text-align: right;">201.3, 306.3.1, 306.4.1, 306.5.2, 309.1, 309.2, 413.8.2.4, 703.6, 706.3.6,</td> </tr> <tr> <td>FBC-M—04</td> <td>Florida Building Code, Mechanical</td> <td style="text-align: right;">201.3, 301.10, 301.13, 304.11, 501.1, 614.2, 618.5, 621.1, 624.1, 631.2, 632.1, 703.1.2, 706.3.2</td> </tr> <tr> <td>FBC-P—04</td> <td>Florida Building Code, Plumbing</td> <td style="text-align: right;">201.3, 301.6, 624.1.1, 624.2</td> </tr> <tr> <td>FRC—04</td> <td>Florida Residential Code</td> <td style="text-align: right;">703.2.1</td> </tr> <tr> <td>FFPC—04</td> <td>Florida Fire Prevention Code</td> <td style="text-align: right;">201.3, 303.4, 401.2, 412.1, 412.6, 412.7, 412.7.3, 412.8, 413.1, 413.3, 413.3.1, 413.4, 413.8.2.5, 701.1, 701.2, 703.2, 703.2.2, 703.3.8, 703.4, 703.5, 704.1.2, 704.3, 704.4, 706.2, 706.3.4, 706.3.5, 707.1, 707.2, 708.1</td> </tr> </tbody> </table>	Standard reference number	Title	Referenced in code section number	FBC-B—04	Florida Building Code, Building	101.1, 201.3, 301.14, 302.1, 302.2, 305.6, 306.6, 401.1.1, 412.6, 413.3, 413.3.1, 501.1, 501.3, 501.12, 501.15.4, 609.3, 614.2, 706.1, 706.3	Chapter 13 301.2	Florida Building Code, Building: Energy Efficiency		Chapter 27	Florida Building Code, Building: Electrical (NEC/NFPA 70)	201.3, 306.3.1, 306.4.1, 306.5.2, 309.1, 309.2, 413.8.2.4, 703.6, 706.3.6,	FBC-M—04	Florida Building Code, Mechanical	201.3, 301.10, 301.13, 304.11, 501.1, 614.2, 618.5, 621.1, 624.1, 631.2, 632.1, 703.1.2, 706.3.2	FBC-P—04	Florida Building Code, Plumbing	201.3, 301.6, 624.1.1, 624.2	FRC—04	Florida Residential Code	703.2.1	FFPC—04	Florida Fire Prevention Code	201.3, 303.4, 401.2, 412.1, 412.6, 412.7, 412.7.3, 412.8, 413.1, 413.3, 413.3.1, 413.4, 413.8.2.5, 701.1, 701.2, 703.2, 703.2.2, 703.3.8, 703.4, 703.5, 704.1.2, 704.3, 704.4, 706.2, 706.3.4, 706.3.5, 707.1, 707.2, 708.1	<p>No overlap. Move FL specific reqt</p>
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<p>NFPA</p>	<p>NFPA National Fire Protection Association 1 Batterymarch Park Quincy, MA 02269</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Standard reference number</th> <th style="text-align: left;">Title</th> <th style="text-align: right;">Referenced in code section number</th> </tr> </thead> <tbody> <tr> <td>37—02</td> <td>Installation and Use of Stationary Combustion Engines and Gas Turbines</td> <td style="text-align: right;">616.1</td> </tr> <tr> <td>51—02</td> <td>Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes</td> <td style="text-align: right;">414.1</td> </tr> <tr> <td>211-03</td> <td>Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances</td> <td style="text-align: right;">503.5.2, 503.5.3, 503.5.6.1, 503.5.6.3</td> </tr> </tbody> </table>	Standard reference number	Title	Referenced in code section number	37—02	Installation and Use of Stationary Combustion Engines and Gas Turbines	616.1	51—02	Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes	414.1	211-03	Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances	503.5.2, 503.5.3, 503.5.6.1, 503.5.6.3													
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UL	UL Underwriters Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062	Overlap exists. Needs resolution.
	Standard reference number Title Referenced in code section number	
103-01	103—01 Factory-Built Chimneys, for Residential Type and Building Heating Appliances 506.1	
441-96	441—96 Gas Vents—with Revisions through December 1999 502.1	
795-99	795—01 Commercial-Industrial Gas Heating Equipment 610.1, 618.1, 631.1	
1777-04	1777—98 Chimney Liners—with Revisions through August 1998 501.12, 501.15.4	