

2009 National Fuel Gas Code - List of Major Revisions

Updated: 9/12/08

The following list summarizes the major revisions in the 2009 National Fuel Gas Code approved by the National Fuel Gas Code Committee, ANSI ASC Z223 and NFPA 54.

PIPING

Section	Subject	Description of Change
5.6.8.2	Acceptable Tubing Joints	Revised – Recognize press-type copper tubing fittings complying with ANSI LC-4
5.7.2.3	Meter Clearances	Deleted – The requirement that a gas meter be located at least 3 feet from a source of ignition is eliminated.
Table 6.2(m)	Natural Gas CSST Table	Revised – 39 EHD size added.
Table 6.2(p)	Natural Gas CSST Table	Revised – 39 EHD size added.
Table 6.2(q)	Natural Gas CSST Table	Revised – 39 EHD size added.
Table 6.3(c)	Propane Schedule 40 Table	Revised – “Special Use” title row added.
Table 6.3(g)	Propane Copper Tubing Table	Revised – “Special Use” title row added.
Table 6.3(h)	Propane CSST Table	Revised – 39 EHD size added, “Special Use” title row added.
Table 6.3(i)	Propane CSST Table	Revised – 39 EHD size added, “Special Use” title row added.
Table 6.3(j)	Propane CSST Table	Revised – 39 EHD size added.
Table 6.3(k)	Propane PE Pipe Table	Revised – “Special Use” title row added.
Table 6.3(l)	Propane PE Pipe Table	Revised – “Special Use” title row added.
Table 6.3(m)	Propane PE Tubing Table	Revised – “Special Use” title row added.
7.1.5	Piping Through Foundation Wall	Revised – Recognize the use of an approved device or method to protect the gas pipe installed through a foundation wall.
7.1.6.1	Conduit With One End Terminating Outdoors.	Revised – Global code revision to make measurements from “finished grade” (previously “grade”).
7.1.7.2	Connections Between Metallic and Plastic Piping	Revised – The ASTM F2509 standard is added.
7.2.6.1	Support Type	Revised – Require all pipe hooks, straps, bands, etc to be metal. Also allows building structural components to support piping.
7.9.2.4	Shutoff Valve For Laboratories	New – Require a master shutoff valve in laboratory spaces.
7.13	Electrical Bonding and Grounding	Revised – Require CSST systems to have a direct bond to the electrical service grounding electrode. A minimum 6 AWG copper wire bonding jumper is required.

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Section	Subject	Description of Change
7.13.4	Electrical Bonding and Grounding – Lightning Protection	New – Where a lightning protection system is installed the gas piping must be bonded in accordance with NFPA 780.
8.2.3, 3.3.62	Leak Check	Revised – Definition of leak check is revised and would limit leak check requirement in 8.2.3 to be applied only to gas piping.
A.5.6, Table A.5.6	Approved Pipe, Tube, Fittings and Joints	New – The Code’s approved piping and joining materials and methods are displayed in a table format.

VENTING

Section	Subject	Description of Change
12.4.3.6	Mechanical Draft System Termination	Revised – Global code revision to make measurements from “finished grade” (previously “grade”).
12.4.4.2	Automatically Operated Appliances Vent Through Kitchen Ventilating System	Revised – Clarification add that the gas interlock requirement applies only to other than commercial cooking appliances.
12.5.3	Plastic Vent Joints	New – Require plastic pipe and joints to be installed in accordance with the manufacturer’s instructions. Where a primer is used it shall be of a contrasting color.
12.6.3.2	Incinerator Vented in a Chimney Serving Other Appliances	Deleted
12.6.4.2	Continued Use of Unlined Chimney	Revised – Add a reference to existing code sections that the chimney must be in good repair and sized properly.
12.7.1 (4)	Securing Joints in Double Wall Vents	New – Screws, rivets and other fasteners must not penetrate the inner wall of double wall gas vents.
12.8.4.1	Single Wall Vent Installation in Residential Occupancies	New – Prohibit the use of single wall vents in residential occupancies (single wall vent connector is still allowed).
12.8.4.7	Single-Wall Vent Installation	Relocated – Code coverage under 12.11.14.2 is relocated and revised to apply to single wall vents (previously applied to single wall vent connectors). Single wall vent connectors would be prohibited from passing through exterior walls.

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Section	Subject	Description of Change
12.9.2	Mechanical Draft Venting System Termination	Revised – Global code revision to make measurements from “finished grade” (previously “grade”).
12.9.3	Direct Vent Termination	Revised – Global code revision to make measurements from “finished grade” (previously “grade”).
12.9.4	Condensate Drain Installation	New – Requires the condensate drains must be installed in accordance with the manufacturer’s installation instructions.
12.9.6	Through the Wall Vents - Sealing Annular Space	New – Requires the sealing of the annular space around the vent penetration using approved materials to prevent entry of combustion products into the building.
12.11.4.1	Common Vents – Vent Connector Openings	New – Openings into the common vent must be at different levels or if on the save level made at a 45 degree angle.
12.11.9.2	Common Vents – Maximum Length of Vent Connectors	Revised – The maximum length of a vent connector entering a vent serving a single appliance a vent serving multiple appliances shall be a maximum of 75% of the vent height. Previously, vent connectors in multiple appliance venting systems were allowed to be a maximum of 100% of the vent height.
12.11.14.2	Single-Wall Vent Connectors Though Walls	Relocated & Revised – Code coverage is relocated to section 12.8 and revised to apply to single wall vents (previously applied to single wall vent connectors). See 12.8.4.7 above.
13.1.3	Maximum Offset Length For Single Appliance Vents	Revised – Combined length of multiple offsets cannot exceed the lateral length listed in venting tables 13.1(a) through 13.1(e).
13.1.11	Category I Single Appliance Vents – Use of Tables for Exterior Chimneys	Revised – The code provision that allows the use of an alternate design or the use of the manufacturer’s installation instructions is deleted from 13.1.11. Alternative installations are permitted under the general code section 1.4 Equivalency.
Table 13.1(c)	Single Appliance Masonry Chimney Table – Type B Double Wall Connector - Seven Times Rule	Revised – The sizes listed in the “Maximum Internal Area of Chimney (Square Inches)” row are replaced with the statement “Seven times the listed appliance categorized vent are, flue area, or draft hood outlet areas.”
Table 13.1(d)	Single Appliance Masonry Chimney Table – Single Wall Metal Connector – Seven Times Rule	Revised – The sizes listed in the “Maximum Internal Area of Chimney (Square Inches)” row are replaced with the statement “Seven times the listed appliance categorized vent are, flue area, or draft hood outlet areas.”

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Section	Subject	Description of Change
13.2.5	Maximum Vent Offset Length for Multiple Appliance Vents	Revised – Combined length of multiple offsets cannot exceed total height of the vent.
13.2.23	Category I Multiple Appliance Vents – Use of Tables for Exterior Chimneys	Revised – The code provision that allows the use of an alternate design or the use of the manufacturer’s installation instructions is deleted from 13.2.23. Alternative installations are permitted under the general code section 1.4 Equivalency.

EQUIPMENT INSTALLATION

Section	Subject	Description of Change
9.3.8.8	Combustion Air Intakes	Revised – Global code revision to make measurements from “finished grade” (previously “grade”).
9.6.1.1	Commercial Cooking Appliances - Gas Pipe Stub Out	Revised – Appliance connector must be configured in accordance with the manufacturers’ installation instructions.
9.6.1.2	Commercial Cooking Appliances – Restraint	New – Require commercial cooking appliance with casters to have a restraining device installed.
9.6.1.3	Suspended Low-Intensity Infrared Tube Heaters	New – Prohibits hard-pipe or semi-rigid tubing connections to gas piping system. Appliance connector must be an ANSI Z21.24 connector listed specifically for the application and must be installed in accordance with the tube heater’s installation instructions.
A.9.6.1.3	Suspended Low-Intensity Infrared Tube Heaters	New – Explanatory material for new section 9.6.1.3
9.6.6	Gas Convenience Outlets	Revised – Require gas convenience outlets be listed to ANSI Z21.90.
10.3.5	Boiler Low Water Cutoff	Revised (NFPA 54) – Requires the installation of a low water cutoff or circulating sensor (water tube & coil tube type boilers) on all hot water and steam boilers. Previously required if boiler was installed above radiation level.
10.24.1	Stationary Gas Engine Connection	New – Prohibits gas engines from being connected to the gas piping systems using hard-pipe.

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EQUIPMENT INSTALLATION

Section	Subject	Description of Change
10.32	Outdoor Open Flame Decorative Appliances	New – Add minimum installation requirements for listed and unlisted appliances.
Table A.11.1.1	Gas Flow Rate to Burner	Revised – Various table entries have been corrected.