
2006/2007 INTERNATIONAL FUEL GAS CODE DEVELOPMENT COMMITTEE

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INTERNATIONAL FUEL GAS CODE HEARING RESULTS

FG1-06/07

Committee Action: Disapproved

Committee Reason: The proposed revision is redundant with current Section 101.2.4, item # 16.

Assembly Action: None

FG2-06/07

Committee Action: Approved as Submitted

Committee Reason: The proposed text will clarify that the IFGC does not intend to regulate the internal components of appliances. (e.g. gas piping that is integral with appliance)

Assembly Action: Disapproved

FG3-06/07

Committee Action: Approved as Submitted

Committee Reason: The proposed text and revisions will serve to coordinate the administrative provisions of the ICC codes as stated in the proponent's reason. Approval as Submitted is consistent with the recommendations of other ICC code hearing committees for this proposal.

Assembly Action: None

FG4-06/07

Committee Action: Disapproved

Committee Reason: Disapproval is consistent with the recommendations of other ICC code hearing committees for this proposal. Current Section 105 already provides for what is being proposed. The Section title is misleading in that it suggests that subjects not regulated by the code are subjects that are intentionally not within the scope of the code.

Assembly Action: None

FG5-06/07

Committee Action: Disapproved

Committee Reason: Disapproval is consistent with the recommendations of other ICC code hearing committees for this proposal.

Assembly Action: None

FG6-06/07

Committee Action: Approved as Submitted

Committee Reason: Approval as Submitted is consistent with the recommendations of other ICC code hearing committees for this proposal. The proposed text clarifies that the code official has interpretive powers for the code provisions.

Assembly Action: None

FG7-06/07

Committee Action: Approved as Submitted

Committee Reason: The proposed text allows research reports to be used as another avenue of approval of products.

Assembly Action: None

FG8-06/07

Committee Action: Disapproved

Committee Reason: The proposed Section 106.2.2 is already covered in current code text.

Assembly Action: None

FG9-06/07

Committee Action: Approved as Modified

Modify the proposal as follows:

~~107.1.1~~ **107.2.4 Approved inspection agencies.** The code official is authorized to accept reports of approved agencies, provided that such agencies satisfy the requirements as to qualifications and reliability.

Committee Reason: Approval is consistent with the recommendations of other code hearing committees for this proposal. The modification to renumber current Section 107.1.1 corrects an errata and the modification to proposed Section 107.6 replaces a term that is atypical in ICC codes.

Assembly Action: None

FG10-06/07

Committee Action: Disapproved

Committee Reason: The proposed revision to Section 108.5 implies that stop work orders can be issued only where the work fails to comply with the code. Other committees that heard this proposal raised concerns over proposed Section 108.7.2 regarding the requirement to specify the required repairs and to immediately declare to the code official acceptance or rejection of the order.

Assembly Action: None

FG11-06/07

Committee Action: Approved as Submitted

Committee Reason: The proposed text provides coverage where the code is currently silent and allows the code official to regulate the use of temporary equipment and temporary connections to utilities.

Assembly Action: None

FG12-06/07

Committee Action: Approved as Submitted

Committee Reason: The proposed revisions coordinate the terminology used in the IFGC designated text of the code with that used in the IFGS designated text of the code. This terminology is consistent with the NFGC Z223.1.

Assembly Action: None

FG13-06/07

Committee Action: Disapproved

Committee Reason: The definition of noncombustible materials allows one out of four specimens to not comply with the 3 stated criteria.

Assembly Action: Approved as Submitted

FG14-06/07

Committee Action: Disapproved

Committee Reason: Disapproval is consistent with the committee recommendation for FG37-06/07.

Assembly Action: None

FG15-06/07

Committee Action: Disapproved

Committee Reason: There is no justification to treat water heaters as boilers. Furnaces and boilers can have much larger input ratings than water heaters thereby justifying larger rooms. The water heater installation instructions will state the required clearances and if such instructions are followed, there is no concern for any location for the appliance.

Assembly Action: Approved as Submitted

FG16-06/07

Committee Action: Disapproved

Committee Reason: There is no justification for requiring a registered engineer to perform the evaluation and the gas supplier may not be qualified to perform such evaluation.

Assembly Action: None

FG17-06/07

Committee Action: Disapproved

Committee Reason: The concern is for any type storage, not just clothes. This proposal would make the code less restrictive. Most closets contain high fuel loads. Any space designated as a storage closet is an inappropriate location for an appliance.

Assembly Action: None

FG18-06/07

**PART I — IFGC
Committee Action:** Disapproved

Committee Reason: The proposed revision is too broad in scope and could include scratches and dents. If this provision is not limited to vehicle impact damage, everything would require a barrier.

Assembly Action: None

**PART II — IMC
Committee Action:** Disapproved

Committee Reason: The last sentence is too vague; lawn maintenance equipment could range from push-type lawn mowers to large tractors. Although the proponent's reason says that this is for outdoor condensing units, the language could also include appliances inside the garage.

Assembly Action: None

FG19-06/07

Note: The following analysis was not in the Code Change Proposal book but was published in the "Errata to the 2006/2007 Proposed Changes to the International Codes and Analysis of Proposed Referenced Standards" provided at the code development hearings.

Analysis: Review of the proposed new standard was not done because the standard was not provided.

Committee Action: Approved as Submitted

Committee Reason: The proposed text provides coverage for some important safety concerns which are not currently addressed in the code. The proposed text is current text in the NFGC, Z223.1.

Assembly Action: None

FG20-06/07

**PART I — IFGC
Committee Action:** Approved as Submitted

Committee Reason: The height of the tallest vehicle could be unknown or could change as operations change. The building owner will not be aware of the vehicle height limitation with respect to the appliance installations. Basing the installation height on the garage door height will make sure that all vehicles that enter the building will have the proper clearance.

Assembly Action: None

**PART II — IMC
Committee Action:** Approved as Submitted

Committee Reason: Using the height of the door opening will provide a constant height for the appliances whereas, using the height of the tallest vehicle could cause the height to vary depending upon the vehicles used.

Assembly Action: None

FG21-06/07

Committee Action: Approved as Submitted

Committee Reason: Piping run through townhouse units is common practice and there is no safety benefit in prohibiting such practice.

Assembly Action: **Disapproved**

FG22-06/07

Committee Action: **Disapproved**

Committee Reason: The proposed revision creates more confusion by referring to supply, return and exhaust ducts, none of which were addressed in the proponent's reason.

Assembly Action: **Approved as Modified**

Modify the proposal as follows:

404.1 Prohibited locations. Piping shall not be installed in or through a supply, return or exhaust duct, clothes chute, chimney or gas vent, ventilating duct, dumbwaiter or elevator shaft. Piping installed downstream of the point of delivery shall not extend through any townhouse unit other than the unit served by such piping.

FG23-06/07

Committee Action: **Approved as Submitted**

Committee Reason: The proposed text provides an acceptable alternative to the current method of providing a conduit enclosure that is vented to the outdoors. The proposed text is current text in the NFGC, Z223.1.

Assembly Action: **None**

FG24-06/07

Committee Action: **Approved as Submitted**

Committee Reason: The stricken text is redundant with the first sentence of this section and therefore, unnecessary.

Assembly Action: **None**

FG25-06/07

Committee Action: **Approved as Submitted**

Committee Reason: The proposed text provides an acceptable option to the current method and is particularly suited for island cooking appliance installations. Having both ends of the conduit open improves safety by allowing early detection of any leakage.

Assembly Action: **None**

FG26-06/07

Committee Action: **Approved as Modified**

Modify the proposal as follows:

404.11 Piping underground beneath buildings. Piping installed underground beneath buildings is prohibited except where the piping is encased in an approved a conduit of wrought iron, plastic pipe, steel pipe or other approved conduit material designed to withstand the superimposed loads. Such conduit shall extend into an occupiable portion of the building and, at the point where the conduit terminates in the

building, the space between the conduit and the gas piping shall be sealed to prevent the possible entrance of any gas leakage. Where the end sealing is capable of withstanding the full pressure of the gas pipe, the conduit shall be designed for the same pressure as the pipe. Such conduit shall extend not less than 4 inches (102 mm) outside the building, shall be vented above grade to the outdoors, and shall be installed so as to prevent the entrance of water and insects. The conduit shall be protected from corrosion in accordance with Section 404.8.

Committee Reason: The proposed revision will make the IFGC consistent with the same coverage in the NFGC, Z223.1. The modification retains the current list of materials while still allowing the use of approved alternate materials that meet the intent of providing a conduit.

Assembly Action: **None**

FG27-06/07

Committee Action: **Approved as Modified**

404.14.1 Limitations. Plastic pipe shall be installed outdoors underground only. Plastic pipe shall not be used within or under any building or slab or be operated at pressures greater than 100 psig (689 kPa) for natural gas or 30 psig (207 kPa) for LP-gas.

Exceptions:

1. Plastic pipe shall be permitted to terminate above ground outside of buildings where installed in premanufactured anodeless risers or service head adapter risers that are installed in accordance with the manufacturer's installation instructions.
2. Plastic pipe shall be permitted to terminate with a wall head adapter within buildings where the plastic pipe is inserted in a piping material for fuel gas use in buildings.
3. Plastic pipe shall ~~not be prohibited~~ be permitted under outdoor patio, walkway and driveway slabs provided that the burial depth complies with Section 404.9.

Committee Reason: Current text unnecessarily prohibits gas piping under outdoor slabs including outdoor patio, walkway and driveway slabs. Installation of gas piping under such slabs is common practice with no known problems or damage to the pipe. This section intends to prohibit piping under indoor building slabs. The modification was editorial and intended to avoid negative language.

Assembly Action: **None**

FG28-06/07

Note: The following analysis was not in the Code Change Proposal book but was published in the "Errata to the 2006/2007 Proposed Changes to the International Codes and Analysis of Proposed Referenced Standards" provided at the code development hearings.

Analysis: Review of the proposed new standard indicated that, in the opinion of ICC Staff, the standard did comply with ICC standards criteria.

Committee Action: **Approved as Submitted**

Committee Reason: The proposed revision recognizes the use of factory assembled anodeless risers as an acceptable method of piping connection.

Assembly Action: **None**

FG29-06/07

Committee Action: **Disapproved**

Committee Reason: Current text does not prohibit the installation of excess flow valves and applies only to devices installed in the interior of pipe or fittings. This text needs to remain to address any future devices that may be installed inside of piping systems.

Assembly Action: **None**

FG30-06/07

Committee Action: **Approved as Submitted**

Committee Reason: The stricken text is too prescriptive and subjective in nature. A single properly installed sediment trap is capable of protecting multiple appliances all located together.

Assembly Action: **None**

FG31-06/07

Committee Action: **Approved as Modified**

Modify proposal as follows:

408.4 Sediment trap. Where a sediment trap is not incorporated as part of the gas utilization equipment, a sediment trap shall be installed downstream of the equipment shutoff valve as close to the inlet of the appliance as practical. The sediment trap shall be either a tee fitting having a capped nipple of any length installed in the bottommost opening of the tee or other device approved as an effective sediment trap. Illuminating appliances, ranges, clothes dryers and outdoor grills need not be so equipped.

Committee Reason: The proposed revisions allow varying designs for sediment traps and clarify that the receptacle length is not critical to the trap's function. The modification prevents the trap from being upstream of the shutoff valve where servicing of the trap would require shutting off the gas to the entire building.

Assembly Action: **None**

FG32-06/07

Committee Action: **Approved as Modified**

Modify proposal as follows:

409.5 Appliance shutoff valve. Each appliance shall be provided with a shutoff valve in accordance with Section 409.5.1, 409.5.2 or 409.5.3.

409.5.1 Located within same room. ~~Where~~ The shutoff valve ~~is~~ shall be located in the same room as the appliance. The shutoff valve shall be within 6 feet (1829 mm) of the appliance, and shall be installed upstream of the union, connector or quick disconnect device it serves. Such shutoff valves shall be provided with access. Appliance shutoff valves located in the firebox of a fireplace shall be installed in accordance with the appliance manufacturer's instructions.

409.5.2 Vented decorative appliances and room heaters. Shutoff valves for vented decorative appliances and decorative appliances for installation in vented fireplaces shall ~~not be prohibited from being~~ be permitted to be installed in an area remote from the appliances where such valves are provided with ready access. Such valves shall be permanently identified and shall serve no other appliance. The piping from the shutoff valve to within 6 feet (1829 mm) of the appliance shall be designed, sized and installed in accordance with Sections 401 through 408.

409.5.3 Located at manifold. Where the appliance shutoff valve is installed at a manifold, such shutoff valve shall be located within 50 feet (15 240 mm) of the appliance served and shall be readily accessible and permanently identified. The piping from the manifold to within 6 feet (1829 mm) of the appliance shall be designed, sized and installed in accordance with Sections 401 through 408.

Committee Reason: The proposed new text is consistent with the NFGC, Z223.1 and allows an option to utilize shutoff valves located on a manifold. The revisions also clarify that it is not the intent to prevent shutoff valves from being installed within an appliance enclosure. The modification clarifies that the intent of Section 409.5.1 is to require the shutoff valve to be in the same room as the appliance. Section 405.5.2 was modified in an attempt to address room heaters and to provide language consistent with other code sections.

Assembly Action: **None**

FG33-06/07

Committee Action: **Disapproved**

Committee Reason: Disapproval is consistent with the committee recommendation for FG32-06/07.

Assembly Action: **None**

FG34-06/07

Committee Action: **Approved as Submitted**

Committee Reason: The proposed text describes what is current practice and common design specification and should be made mandatory for occupancies such as high school science labs.

Assembly Action: **None**

FG35-06/07

Committee Action: **Approved as Submitted**

Committee Reason: Current code lacks coverage for the materials allowed for regulator vents.

Assembly Action: **None**

FG36-06/07

Committee Action: **Approved as Modified**

Modify the proposal as follows:

410.3.1 Vent piping. Vent piping shall be not smaller than the vent connection on the pressure regulating device. Vent piping serving relief vents and combination relief and breather vents shall be run independently to the outdoors and shall serve only a single device vent. Vent piping serving only breather vents is permitted to be connected in a manifold arrangement where sized in accordance with an approved design that minimizes back pressure in the event of diaphragm rupture. Regulator vent piping shall not exceed the ~~developed~~ length specified in the regulator manufacturer's installation instructions.

Committee Reason: The proposed text serves to remind the code user that the regulator manufacturer will limit the length of vent piping. The modification deletes a term that is alien to gas codes and more at home in plumbing codes.

Assembly Action: **None**

FG37-06/07

Committee Action: **Disapproved**

Committee Reason: The text “maximum flow anticipated” is not defined. The product standards for these devices are not completed or are applicable to service line devices. Current code does not prohibit the installation of such devices.

Assembly Action: **None**

FG38-06/07

Committee Action: **Disapproved**

Committee Reason: Current Sections 410.1 and 410.3 already cover what is being proposed. The text borrowed from Section 413 is for high pressure systems, unlike the scope of Section 410.

Assembly Action: **None**

FG39-06/07

Committee Action: **Approved as Submitted**

Committee Reason: The stricken text is redundant with current Section 411.1.1. Appliances that are rarely or occasionally moved and that do not have casters should be able to be connected with rigid pipe or tubing. CSST manufacturers’ instructions will prohibit the direct connection of CSST to appliances that are moved.

Assembly Action: **Disapproved**

FG40-06/07

Committee Action: **Approved as Modified**

Modify the proposal as follows:

411.1.3.3 Prohibited locations and penetrations. Connectors shall not be concealed within, or extended through, walls, floors, partitions, ceilings or appliance housings.

Exceptions:

1. Connectors constructed of materials allowed for piping systems in accordance with Section 403 shall be permitted to pass through walls, floors, partitions and ceilings where installed in accordance with the exception to Section 409.5.
2. Rigid steel pipe connectors shall be permitted to extend through openings in appliance housings.
3. Fireplace inserts that are factory equipped with grommets, sleeves or other means of protection in accordance with the listing of the appliance.
4. Semirigid tubing and listed connectors shall be permitted to extend through an opening in an appliance housing, cabinet or casing where the tubing or connector is protected against damage.

Committee Reason: The proposed text corrects two flaws in the code that unintentionally limit connector pass-throughs. Under the exception to Section 409.5, the piping downstream from the remote shutoff valve is a connector and such piping needs to pass through walls, floors, etc. in order to reach the appliance that is remote from its shutoff valve. Rigid steel pipe downstream from the shutoff valve is a connector and is the most common material used to pass through appliance housings and enclosures. The modification allows properly protected semirigid tubing and listed connectors to pass through all appliance housings and enclosures because there is no reason to limit such to fireplace inserts.

Assembly Action: **None**

FG41-06/07

Committee Action: **Disapproved**

Committee Reason: Disapproval is consistent with the committee recommendation for FG40-06/07.

Assembly Action: **None**

FG42-06/07

Committee Action: **Disapproved**

Committee Reason: The proposed text is too prescriptive and does not address other possible installation configurations.

Assembly Action: **None**

FG43-06/07

Committee Action: **Disapproved**

Committee Reason: There is no standard to which to list outdoor gas hose connectors. The text “accumulation of foreign matter” is ambiguous.

Assembly Action: **None**

FG44-06/07

Committee Action: **Approved as Modified**

Modify the proposal as follows:

411.1.5 Unions. A union fitting shall be provided ~~in the for~~ for appliances ~~connector for appliances~~ connected by ~~item 1 or 2 of Section 411.1 rigid~~ rigid metallic pipe. Such unions shall be accessible and located ~~downstream of the shutoff valve required by Section 409.5~~ within 6 feet of the appliance.

Committee Reason: The NFGC covers unions but the IFGC lacks coverage for this fundamental requirement. The modification limits the requirement to rigid metallic pipe because CSST fittings can be disassembled, thereby serving as a union. The modification also coordinates the last sentence with the action taken on FG32-06/07.

Assembly Action: **None**

FG45-06/07

Committee Action: **Approved as Submitted**

Committee Reason: The proposed revision serves to inform the code user that Section 503 also covers venting of appliances in addition to Section 504.

Assembly Action: **None**

FG46-06/07

Committee Action: **Approved as Modified**

Modify the proposal as follows:

501.15.4 Clearances. Chimneys and vents shall have airspace clearance to combustibles in accordance with the *International Building Code* and the chimney or vent manufacturer’s installation instructions.

Exception: Masonry chimneys equipped with a chimney lining system tested and listed in accordance with UL 1777. Masonry chimneys without the required air-space clearances shall be permitted to be used if lined or relined with a chimney lining system listed for use in chimneys with reduced clearances in accordance with UL 1777. The chimney clearance shall be not less than permitted by the terms of the chimney liner listing and the manufacturer's instructions.

501.15.4.1 Fireblocking. Noncombustible ~~firestopping~~ or fireblocking shall be provided in accordance with the *International Building Code*.

Committee Reason: The proposed revision clarifies the code by separating the fire blocking requirements from a section that addresses clearances. The modification clarifies the actual intent of the exception by stating that the lining system listed to UL 1777 must be listed specifically for use in chimneys with reduced clearances. A further modification deletes the term existing because a chimney is "existing" immediately after it is built.

Assembly Action: **None**

FG47-06/07

Committee Action: **Disapproved**

Committee Reason: The proposed coverage is redundant with Section 506.3.1, is too prescriptive and limiting and slopes between flat and 12/12 are not addressed.

Assembly Action: **None**

FG48-06/07

Committee Action: **Disapproved**

Committee Reason: The proposed text is an intended fix for the problem created by the interlock requirement. The interlock requirement is the problem that needs to be addressed, thereby eliminating the need for "bandaids" to correct the conditions caused by the interlock.

Assembly Action: **Approved as Submitted**

FG49-06/07

Committee Action: **Disapproved**

Committee Reason: The exception is needed because this text is extracted from the IFGC and placed in the IRC.

Assembly Action: **None**

FG50-06/07

Note: The following analysis was not in the Code Change Proposal book but was published in the "Errata to the 2006/2007 Proposed Changes to the International Codes and Analysis of Proposed Referenced Standards" provided at the code development hearings.

Analysis: Review of the proposed new standard indicated that, in the opinion of ICC Staff, the standard did comply with ICC standards criteria.

Committee Action: **Disapproved**

Committee Reason: UL 2200 is not known to be applicable to all equipment of this description.

Assembly Action: **None**

FG51-06/07

Committee Action: **Disapproved**

Committee Reason: There is not enough evidence provided to cause an appliance listed to a nationally recognized standard to be banned. New and existing mobile homes would not be allowed to have such heaters installed. Unvented room heaters are required by Section 621.2 to be for supplemental use only.

Assembly Action: **None**

FG52-06/07

Committee Action: **Disapproved**

Committee Reason: Ventless firebox enclosures are listed products whether or not there is an appliance installed therein. The code cannot dictate the completion point of any installation.

Assembly Action: **None**

FG53-06/07

Committee Action: **Disapproved**

Committee Reason: Current Section 623.3 prohibits what is being proposed. Appliances that are listed to the appropriate household appliance standard are available and such appliances will perform as well as the commercial appliances. Commercial appliances may not have tip-over protection as required by the CPSC.

Assembly Action: **None**

FG54-06/07

Committee Action: **Approved as Submitted**

Committee Reason: Current code does not permit hydrogen piping to be concealed.

Assembly Action: **None**

FG55-06/07

Note: The following analysis was not in the Code Change Proposal book but was published in the "Errata to the 2006/2007 Proposed Changes to the International Codes and Analysis of Proposed Referenced Standards" provided at the code development hearings.

Analysis: Review of the proposed new standard F1802-04 indicated that, in the opinion of ICC Staff, the standard did comply with ICC standards criteria.

Review of the proposed new standards Z21.93 and CSA3-92 was not done because the standards were not provided.

Committee Action: **Disapproved**

Committee Reason: A non-consensus standard should not be referenced in the code. Disapproval is consistent with the committee recommendation for FG14-06/07 and FG37-06/07.

Assembly Action: **None**
