

PROPOSED AMENDMENTS TO THE ADOPTED 2012 CODES

IPC INTERNATIONAL PLUMBING CODE

- Amend Section 403.3 Required public toilet facilities, Exception, as follows:

Exception: Public toilet facilities shall not be required in: ~~open or enclosed parking garages.~~
~~Toilet facilities shall not be required in parking garages where there are no parking attendants.~~

1. Open or enclosed parking garages where there are no parking attendants.

2. Structures and tenant spaces intended for quick transactions, including takeout, pickup and drop-off, having a public access area less than or equal to 300 square feet (28 m²).

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

- Amend Section 608, Protection of potable water supply, by adding new subsection 608.1.1, as follows:

608.1.1 Public water supply protection. The public water supply distribution system shall be protected from any cross connections. All nonresidential customers shall install, maintain, and test yearly, a reduced pressure principal backflow device. The device shall be installed as close as possible to the point where the potable water service enters the building or as approved by the water purveyor. No branch lines or taps will be allowed between the water meter and the backflow device. The installation of the backflow assembly shall be required as a condition for any new nonresidential service and for permitted modifications to an existing nonresidential service where more than four drainage fixture units, as defined in Table 709.1, are installed. The draining fixture unit value for pot sinks and three compartment sinks is defined as two.

Note: Language appearing in **bold** is to be added.

- Amend Section 701 General, Subsection 701.2 Sewer required, as follows.

701.2 Sewer required. Buildings in which plumbing fixtures are installed ad premises having drainage piping shall be connected to a public sewer, where available, or an approved private sewage disposal system in accordance with in International Private Sewage Disposal Code.

Connections to a public sewer shall conform to Public Works Standard Drawing Details for Public Improvements, including Standard Drawing Details SAN-24 and SAN-25, included herewith.

Note: Language appearing in **bold** is to be added.

- Amend Section 708 Cleanouts, Subsection 708.3.2 Building sewers, as follows:

708.3.2 Building sewers. Building sewers shall be provided with cleanouts located not more than 30 100 feet (30 480 mm) apart measured form the upstream entrance of the cleanout, **and as shown on Public Works Standard Drawing Detail SAN-25.** For building sewers 8 inches (203

mm) and larger, manholes shall be provided and located not more than 200 feet (60 960 from the junction of the building drain and public sewer, at each change in direction and at intervals of not more than 400 feet (122 m) apart. Manholes and manhole covers shall be of an approved type.

Note: Language appearing in **bold** is to be added.

- Amend Section 1003 Interceptors and Separators, by deleting subsection 1003.2.1 as follows:

~~1003.2.1 Design Standard and Sizing. All interceptors shall be Plumbing and Drainage Institute (PDI) certified and sized in accordance with PDI or manufacturer's design criteria. All noncertified devices shall be subject to the approval of the authority having jurisdiction.~~

Note: Language appearing as ~~stricken~~ is to be removed.

IMC INTERNATIONAL MECHANICAL CODE

- Amend Section 307, Condensate Disposal , by a new subsection, 307.2.5, Drain line maintenance, and a new subsection, 307.3 Condensate pumps, as follows:

307.2.5 Drain Line Maintenance. Condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance without requiring the drain line to be cut.

307.3 Condensate pumps. Condensate pumps located in uninhabited spaces, such as attics and crawl spaces, shall be connected to the appliance or equipment served such that when the pump fails, the appliance or equipment will be prevented from operating. Pumps shall be installed in accordance with the manufacturers' instructions.

Note: Language appearing in **bold** is to be added.

- Amend Section 504 Clothes Dryer Exhaust, by adding a new subsection, 504.4.1 Dryer exhaust duct power ventilators, and a new subsection, 504.6.4.3 Dryer exhaust duct power ventilator length as follows:

504.4.1 Dryer exhaust duct power ventilators. Domestic dryer exhaust duct power ventilators shall be listed and labeled to UL705 for use in dryer exhaust duct systems. The dryer exhaust duct power ventilator shall be installed in accordance with the manufacturers' instructions.

504.6.4.3 Dryer exhaust duct power ventilator length. The maximum length of the exhaust duct shall be determined by the dryer exhaust duct power ventilator manufacturers' installation instructions.

Note: Language appearing in **bold** is to be added.

- Amend Section 504, Clothes Dryer Exhaust, Subsection 504.6.5 Length identification, as follows:

504.6.5 Length identification. Where the exhaust duct ~~is concealed within the building construction~~ **equivalent length exceeds 35 feet (10 668 mm)**, the equivalent length of the exhaust duct shall be identified on a permanent label or tag. The label or tag shall be located within 6 feet (1829 mm) of the exhaust duct connection.

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

- Amend Section 506 Commercial Kitchen Hood Ventilation System Ducts and Exhaust Equipment, Subsection 506.3.2.5 Grease duct test, as follows.

506.3.2.5 Grease duct test. Prior to use or concealment of any portion of the grease duct system, a leakage test shall be performed. Ducts shall be considered to be concealed where installed in shafts or covered coatings or wraps that prevent the ductwork from being inspected on all sides. The permit holder shall be responsible to provide the necessary equipment and perform the grease duct leakage test. **The grease duct shall be tested by drawing a vacuum on or pressurizing the installed, in place, grease duct to a minimum of 4 inches water column (995 pa, 0.144 psi). The test shall be witnessed by an authorized inspector. The grease duct will pass inspection if the pressure or vacuum applied holds for 15 minutes with zero leakage.** A light test shall be performed to determine that all welded and brazed joints are liquid tight.

~~A light test shall be performed by passing a by passing a lamp having a power rating of not less than 100 watts through the entire section of ductwork to be tested. The lamp shall be open so as to emit light equally in all directions perpendicular to the duct walls. A test shall be performed for the entire duct system, including the hood to duct connection. The duct work shall be permitted to be tested in sections, provided that every joint is tested. For listed factory-built grease duct, this test shall be limited to duct joints assembled in the field and shall exclude factory welds.~~

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

- Amend Section 506, Commercial Kitchen Hood Ventilation System Ducts and Exhaust, Subsection 506.3.8 Grease duct cleanouts and openings, Item 2, as follows:

2. Sections of grease ducts that are inaccessible from the hood or discharge openings shall be provided with cleanout openings **spaced not more than 20 feet (6096 mm) apart and not more than 10 feet (3048 mm) from changes in direction greater than 45 degrees (0.79 rad).**

Note: Language appearing in **bold** is to be added.

IFGC INTERNATIONAL FUEL GAS CODE

- Amend Section 307, Condensate Disposal, by adding a new subsection, 307.6 Condensate pumps, as follows:

307.6 Condensate pumps. Condensate pumps located in uninhabitable spaces, such as attics and crawl spaces, shall be connected to the appliance or equipment served such that when the pump fails, the appliance or equipment will be prevented from operating. Pumps shall be installed in accordance with the manufacturer's instructions.

- Amend Section 310 (IFGS) Electrical Bonding, Subsection 310.1.1, CSST, as follows:

310.1.1 CSST Corrugated stainless steel tubing (CSST) gas piping systems and piping systems **containing one or more segments of CSST** shall be bonded to the electrical service grounding electrode system **or, where provided, the lightning protection grounding electrode system**. ~~The bonding jumper shall connect to a metallic or fitting between the point of delivery and the first downstream CSST fitting. The bonding jumpers shall not be smaller than 6 AWG copper wire or equivalent. Gas piping systems that contain one or more segments of CSST shall be bonded in accordance with this section.~~

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

310.1.1.1 Point of connection. The bonding jumper shall connect to a metallic pipe, pipe fitting or CSST fitting.

310.1.1.2 Size and material of jumper. The bonding jumper shall be not smaller than 6 AWG copper wire or equivalent.

310.1.1.3 Bonding jumper length. The length of the bonding jumper between the connection to a gas piping system and the connection to a grounding electrode system shall not exceed 75 feet (22 860 mm). Any additional grounding electrodes used shall be bonded to the electrical service grounding electrode system or, where provided, the lightning protection grounding electrode system.

310.1.1.4 Bonding connections. Bonding connections shall be in accordance with NFPA 70.

310.1.1.5 Connection devices. Devices used for making the bonding connections shall be listed for the application in accordance with UL 467.

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

- Amend Section 614 (IFGC) Clothes Dryer Exhaust, by adding a new subsection, 614.8.4.3 Manufacturer's instructions, and a new subsection, 614.11 Exhaust duct power ventilators as follows.

[M] 614.8.4.3 Dryer exhaust duct power ventilator length. The maximum length of the exhaust duct shall be determined by the dryer exhaust duct power ventilator manufacturer's instructions.

[M] 614.11 Dryer exhaust duct power ventilators. Domestic dryer exhaust duct power ventilators shall be listed and labeled to UL 705 for use in dryer exhaust duct systems. The

dryer exhaust duct power ventilator shall be installed in accordance with the manufacturer's instructions.

Note: Language appearing in **bold** is to be added.

IRC INTERNATIONAL RESIDENTIAL CODE

- Amend Section R308.4.2 Glazing adjacent doors, as follows:

R308.4.2 Glazing adjacent **to** doors : Glazing in an individual fixed or fixed or operable panel adjacent to a door **shall be considered to be a hazardous location** ~~where the nearest vertical edge of the glazing unit is within a 24-inch (610mm) arc of either vertical edge of the door in a closed position and~~ where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) above the floor or walking surface ~~shall be considered as a hazardous location~~ **and it meets either of the following conditions:**

- 1. Where the glazing is within 24 inches (610 mm) of either side of the door in the plane of the door and in a closed position.**
- 2. Where the glazing is on a wall perpendicular to the plane of the door in a closed position and within 24 inches (610 mm) of the hinge side of an in-swinging door.**

Exceptions:

1. Decorative glazing.
 2. When there is an intervening wall or other permanent barrier between the door and the glazing.
 - ~~3. Glazing in the walls on the latch side of and perpendicular to the plane of the door in a closed position.~~
 - ~~4~~ **3.** Where access to through the door is to a closet or storage are 2 feet (914 mm) or less in depth. Glazing in this application shall comply with the section R308.4.3.
 - ~~5~~ **4.** Glazing that is adjacent to the fixed panel of patio doors.
- Amend Section R310 Emergency Escape and Rescue Openings, by adding a new subsection, R310.6 Alterations or repairs to existing basements, as follows:

R310.6 Alterations or repairs to existing basements. An emergency escape and rescue opening is not required where existing basements undergo alterations or repairs.

Exception: New sleeping rooms created in an existing basement shall be provided with emergency escape and rescue openings in accordance with R310.1.

Note: Language appearing in **bold** is to be added.

- Amend Section R802 Wood Roof Framing, Subsection R802.3 Framing details, as follows:

R802.3 Framing details. Rafters shall be framed to ridge board or to each ~~not more than 1½-inch (38mm) offset from each other to the ridge board or directly opposite~~ each other with a gusset plate as a tie. Ridge board shall not be less than 1-inch (25 mm) nominal thickness and not less than the cut end of the rafter. At valleys and hips there shall be a valley or hip rafter not less than 2-inch (51mm) nominal thickness and not less in depth than the cut end of the rafter, Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where the roof pitch is less than three units vertical in twelve horizontal (25-percent slope), structural members that support rafters and ceiling joists, such as ridge beams, hips and valleys, shall be designed as beams.

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

- Amend Chapter 11 Energy Efficiency, by deleting Section N1101 General, Section N1102.4 (R402) Air Leakage (Mandatory), and Sections N1103 Systems through Section N1105 Simulated Performance Alternative (Mandatory), including all their subsections. Climate Zone 4A shall be used to determine the applicable requirements of Chapter 11 Energy Efficiency.

- Amend Section M1411 Heating and Cooling Equipment, by adding a new subsection, M1411.3.4 Drain line maintenance, and M1411.7 Condensate pumps, as follows:

M1411.3.4 Drain line maintenance. Condensate drain lines shall be configured to permit clearing of blockages and performance of maintenance without requiring the drain line to be cut.

M1411.7 Condensate pumps. Condensate pumps located in uninhabitable spaces, such as attics and crawl spaces, shall be connected to the appliance or equipment served such that when the pump fails, the appliance or equipment will be prevented from operating. Pumps shall be installed in accordance with the manufacturer's instructions.

Note: Language appearing in **bold** is to be added.

- Amend Section M1502 Clothes Dryer Exhaust, by adding a new subsection, M1502.4.4.3 Dryer exhaust duct power ventilator, and M1502.4.8 Dryer exhaust duct power ventilators, as follows:

M1502.4.4.3 Dryer exhaust duct power ventilator. The maximum length of the exhaust duct shall be determined in accordance with the manufacturer's instruction for the dryer exhaust duct power ventilator.

M1502.4.8 Dryer exhaust duct power ventilators. Domestic dryer exhaust duct power ventilators shall conform to UL 705 for use in dryer exhaust duct systems. The dryer exhaust duct power ventilator shall be installed in accordance with the manufacturer's instructions.

- Amend Section P3005 Drainage System, by adding a new subsection, P3005.2.12 Building sewer and public sewer junction, as follows:

P3005.2.12 Building sewer and public sewer junction. Connections to a public sewer shall conform to Public Works Standard Drawing Details for Public Improvements, including Standard Drawing Details SAN-24 and SAN-25, included herewith.

Note: Language appearing in **bold** is to be added.

- Amend Section E3601, General services, by adding new subsection E3601.8, Residential Service Upgrades, as follows:

E3601.8 Residential Service Upgrades.

1. All structures used for residential purposes, requiring a service upgrade or modification shall mandate the following electrical system improvements.

a. GFI receptacles in the kitchen(s) and bathroom(s) shall be installed if outlets are in existence at the time of the service upgrade.

b. Approved hard-wired, dual-powered, interconnected smoke detectors shall be installed and located as per the adopted building code.

c. The kitchen shall be provided with a minimum of two grounded small appliance branch circuits.

d. Carbon monoxide detectors shall be installed in accordance with R315.1 where the structure has an attached garage or has fuel fired appliances.

e. All apparent hazards shall be corrected.

2. If a fire occurs, or other similar incident that damages any part of the electrical system within a residential structure, in addition to all damaged systems being repaired, it is mandated that all apparent hazards within the structure be corrected. Hard-wired, dual-powered, interconnected smoke detectors shall be installed and located as per the adopted building codes. If the service portion of the electrical system is damaged or upgraded as a result of a fire or other incident, it shall require that all items listed in paragraph E(1) of this section shall be provided.

3. A total or partial upgrade of the electrical system may be required, if in the opinion of the Code Official, or his designee, the condition of the existing electrical system constitutes a potential threat to the safety and welfare of current or future occupants.

Note: Language appearing in **bold** is to be added.

IBC INTERNATIONAL BUILDING CODE

- Amend Section 407 Group I-2 by adding a new subsection 407.2.5 Nursing home cooking facilities, as follows:

407.2.5 Nursing home cooking facilities. In Group 1-2 Condition 1, occupancies, rooms or spaces that contain a cooking facility with domestic cooking appliances shall be permitted to be open to the corridor where all of the following criteria are met:

- 1. The number of care recipients housed in the smoke compartment is not greater than 30.**
- 2. The number of care recipients served by the cooking facility is not greater than 30.**
- 3. Only one cooking facility area is permitted in a smoke compartment.**
- 4. The types of domestic cooking appliances permitted are limited to ovens, cooktops, ranges, warmers, and microwaves.**
- 5. The corridor is a clearly identified space delineated by construction or floor pattern, material or color.**
- 6. The space containing the domestic cooking facility shall be arranged so as not to obstruct access to the required exit.**
- 7. A domestic cooking hood installed and constructed in accordance with Section 505 of the *International Mechanical Code* is provided over the cooktop or range.**
- 8. The domestic cooking hood provided over the cooktop or range shall be equipped with an automatic fire-extinguishing system of a type recognized for protection of domestic cooking equipment. Pre-engineered automatic extinguishing systems shall be tested in accordance with UL 300A and *listed* and *labeled* for the intended application. The system shall be installed in accordance with this code, its listing and the manufacturer's instructions.**
- 9. A manual actuation device for the hood suppression system shall be installed in accordance with Sections 904.12.1 and 904.12.2.**
- 10. An interlock device shall be provided such that upon activation of the hood suppression system, the power or fuel supply to the cooktop or range will be turned off.**
- 11. A shut-off for the fuel and electrical power supply to the cooking equipment shall be provided in a location that is accessible only to staff.**
- 12. A timer shall be provided that automatically deactivates the cooking appliances within a period of not more than 120 minutes.**
- 13. A portable fire extinguisher shall be installed in accordance with Section 906 of the *International Fire Code*.**

Note: Language appearing in **bold** is to be added.

- Amend Section 705 Exterior Walls, by revising Table 705.2 and Exception, as follows (all other provisions of Section 705 shall remain unchanged):

TABLE 705.2
MINIMUM DISTANCE OF PROJECTION

Fire Separation Distance (FSD)	Minimum Distance from Line Used to Determine FSD
0 feet to less than 2 feet	Projections not permitted
Greater than 2 feet to less than 5 feet-3 feet	24 inches
5 feet or greater Greater than 3 feet to less than 30 feet	40 inches 24 inches plus 8 inches for every foot of FSD beyond 3 feet or fraction thereof
30 feet or greater	20 feet

Exception: Buildings on the same lot and considered as portions of one building in accordance with Section 705.3 are not required to comply with this section **for projections between buildings.**

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

- Amend Section 714 Penetrations, by amending subsection 714.4.1.2 Membrane penetrations, Exception 7, as follows (all other provisions of subsection 714.4.1.2 shall remain unchanged):

7. The ceiling membrane of 1- and 2- hour fire-resistance-rated horizontal assemblies is permitted to be interrupted with the double wood top plate of a ~~fire-resistance-rated wall assembly~~ **assembly that is sheathed with Type X gypsum wallboard**, provided that all penetrating items though the double top plate are protected in accordance with Section 714.4.1.1.1 or 714.4.1.1.2 **and the ceiling membrane is tight to the top plates.** ~~The fire-resistance rating of the wall shall not be less than the rating of the horizontal assembly.~~

Note: Language appearing in **bold** is to be added. Language appearing as ~~stricken~~ shall be removed.

- Amend Section 904 Alternative Automatic Fire-Extinguishing Systems by adding a new subsection 904.12 Domestic cooking systems in Group I-2 Condition 1, as follows:

904.12 Domestic cooking systems in Group I-2 Condition 1. In Group I-2 Condition 1, occupancies where cooking facilities are installed in accordance with Section 407.2.6 of this code, the domestic cooking hood provided over the cooktop or range shall be equipped with an automatic fire-extinguishing system of a type recognized for protection of domestic cooking equipment. Preengineered automatic extinguishing systems shall be tested in accordance with ULK 300A and listed and labeled for the intended application. The system shall be installed in accordance with this code, its listing and the manufacturer's instructions.

904.12.1 Manual system operation and interconnection. Manual actuation and system interconnection for the hood suppression system shall be installed in accordance with Sections 904.11.1 and 904.11.2, respectively.

904.12.2 Portable fire extinguishers for domestic cooking equipment in Group I-2 Condition 1. A portable fire extinguisher complying with Section 906 shall be installed within a 30-foot (9144 MM) distance of travel from domestic cooking appliances.

Note: Language appearing in **bold** is to be added.

- Amend Section 1016 Exit Access Travel Distance by adding a new subsection 1016.2.2 Group F-1 and S-1 increase, as follows:

1016.2.2 Group F-1 and S-1 increase. The maximum exit access travel distance shall be 400 feet (122 m) in Group F-1 or S-1 occupancies where all of the following conditions are met.

- 1. The portion of the building classified as Group F-1 or S-1 is limited to one story in height.**
- 2. The minimum height from the finished floor to the bottom of the ceiling or roof slab or deck is 24 feet (7315 mm),**
- 3. The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.**

Note: Language appearing in **bold** is to be added.