Plumbing and Mechanical Systems Board
Plumbing Code Committee
February 28, 2013
Lucas Room 518 at 3:00 p.m.

1. Mick Gage, Chair called the meeting to order at 3:05 p.m.
2. February 18, 2013 Notes were approved with correction of heading.
3. Code adoption update

Brita Van Horne reviewed the proposed amendments for adoption of the 2012 UPC and provided the following adding all of the inspection, plan review, permits, and testing modifications:

641-25.1(105) Adoption. Section 101 and Chapters 2 to 17 of the Uniform Plumbing Code, 2012 Edition, as published by the International Association of Plumbing and Mechanical Officials, 20001 South Walnut Drive, Walnut, California 91789-2825, are hereby adopted by reference with amendments as the state plumbing code authorized by Iowa Code section 105.4.

641—25.2(105) Applicability. The provisions of this code are applicable to the plumbing in buildings or on premises in Iowa.

641—25.3(105) Fuel gas piping. Fuel gas piping shall comply with the requirements of Chapter 12 of the Uniform Plumbing Code, 2012 Edition, unless the provisions conflict with 661—Chapter 226, Liquefied Petroleum Gas, Iowa Administrative Code. Where Chapter 12 conflicts with 661—Chapter 226, the provisions of 661—Chapter 226 shall be followed.

641—25.4(105) Amendments to the Uniform Plumbing Code.

25.4(1) Modify Section 101.11.5 Moved Buildings, by deleting "except as provided for in Section 103.5.8.2" from the last sentence in the Section.

25.4(2) Delete Section 301.4.1 Permit Applications, without substitution.

25.4(3) Modify Section 421.1 Fixtures and Fixture Fittings for Persons with Disabilities, General, by deleting "Table 1401.1 of this code" and inserting the following: "Chapter 11 of the 2012 International Building Code".

25.4(4) Modify Section 422.1 Fixture Count by deleting the first paragraph and inserting the following: Plumbing fixtures shall be provided in each building, for the type of building occupancy, and in the minimum number shown in Table 422.1. The design occupant load and occupancy classification shall be determined in accordance with Section 1004 of the 2012 International Building Code. Required public facilities shall be designated by a legible sign for each sex. Signs shall be readily visible and located near the entrance to each toilet facility.

25.4(5) Modify Section 422.1.1 Family or Assisted-Use Toilet and Bathing Facilities by adding the following second sentence: Family or assisted-use fixtures are permitted to be included in the number of required fixtures for either the male or female occupants in assembly and mercantile occupancies.

25.4(6) Delete Table 422.1 and insert the following:

Table 422.1 MINIMUM PLUMBING FACILITIES
(Reprinted, with permission,* from the 2012 IPC, Table 403.1)

Comment [VHB1]: Insert Table Here, including footnotes.

				Water Closets (urinals seeSection						
No.	**Classifications**	**Occupany**	**Description**	**Male**	**Female**	**Male**	**Female**	**Bathtubs/Showers**	**Drinking Fountain**	**Other**

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25.4(7) add Section 422.6, Pay Facilities as follows: 422.6 Pay Facilities. Where pay facilities are installed, such facilities shall be in excess of the required minimum facilities. Required facilities shall be free of charge.

25.4(8) Add Section 422.7, Substitution for Water Closets as follows: 422.7 Substitution for Water Closets. In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and educational occupancies. Urinals shall not be substituted for more than 50 percent of the required water closets in all other occupancies.

25.4(9) Delete Section 503.0 Inspection, without substitution.

25.4(10) Modify Section 710.1 Backflow Protection by adding the following sentences to the end of the section: The requirement for the installation of a backwater valve shall apply only when determined necessary by the authority having jurisdiction based on local conditions. When a valve is required by the authority having jurisdiction, it shall be a manually operated gate valve or full way ball valve. An automatic backwater valve may also be installed but is not required.

25.4(11) Delete Section 807.4 Domestic Dishwashing Machine Delete the section and insert the following: 807.4 Domestic Dishwashing Machine. No domestic dishwashing machine shall be directly connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine, or by looping the discharge line of the dishwasher as high as possible near the flood level of the kitchen sink where the waste disposer is connected. Listed air gap fittings shall be installed with the flood level (FL) marking at or above the flood level of the sink or drain board, whichever is higher.

25.4(12) Modify Section 906.7 Frost or Snow Closure by deleting “two (2) inches (50.8 mm)” and inserting “three (3) inches (76.2 mm)” in the first sentence.

25.4(13) Section 1002.2. Delete Table 1002.2 Horizontal Lengths of Trap Arms and insert the following:

TABLE 1002.2
Horizontal Lengths of Trap Arms

Trap Arm Diameter	**Distance Trap to Vent**	
	Minimum	**Maximum**
Inches	**Inches**	**Feet**
1¼	2½	5
1½	3	6
2	4	8
3	6	12
4	8	12
> 4	2 × Diameter	12

Maintain one-fourth (¼) inch per foot slope
For SI units: 1 inch = 25.4 mm

25.4(14) Delete Section 1203.0 Inspection, without substitution.

25.4(15) Delete Section 1204.0 Certificate of Inspection, without substitution.

25.4(16) Delete Section 1205.0 Authority to Render Gas Service, without substitution.

25.4(17) Delete Section 1207.0 Temporary Use of Gas, without substitution.

25.4(18) Delete Section 1311.0 Plan Review, without substitution.

25.4(19) Delete Section 1326.3 Advanced Notice, without substitution.

25.4(20) Delete Section 1326.4 Responsibility, without substitution.

25.4(21) Delete Section 1326.5 Testing, without substitution.

25.4(22) Modify Section 1326.6 Retesting, by deleting “the Authority Having Jurisdiction finds that” and “or inspection” from the first sentence without substitution.

25.4(23) Modify Section 1327.4 Report Items, by deleting “Authority Having Jurisdiction” and inserting the following: “responsible facility authority”.

25.4(24) Delete Section 1506.0 Required Inspection, without substitution.

25.4(25) Delete Section 1601.3 Permit, without substitution.

25.4(26) Modify Section 1601.6 Operation and Maintenance Manual, by deleting “required to have a permit in accordance with Section 1601.3” from the first sentence without substitution.

25.4(27) Delete Section 1603.2 Permit, without substitution.

25.4(28) Modify Section 1603.11.2.1 Visual System Inspection, by deleting “by the Authority Having Jurisdiction and other authorities having jurisdiction” from the first sentence without substitution.

25.4(29) Modify Section 1603.11.2.2 Cross-Connection Test, by deleting “by the applicant in the presence of the Authority Having Jurisdiction and other authorities having jurisdiction” from the first sentence without substitution.

25.4(30) Modify Section 1603.11.2.3 Discovery of Cross-Connection, by deleting “, in the presence of the Authority Having Jurisdiction,” without substitution.

25.4(31) Delete Section 1604.2, Plumbing Plan Submission, without substitution.

25.4(31) Modify Section 1604.5 Initial Cross-Connection Test, by deleting “by the applicant in the presence of the Authority Having Jurisdiction and other authorities having jurisdiction” and delete the last sentence without substitution.

25.4(32) Modify Section 1604.12.2.1 Visual System Inspection, by deleting “by the Authority Having Jurisdiction and other authorities having jurisdiction” without substitution.

25.4(32) Modify Section 1604.12.2.2 Cross-Connection Test, by deleting “in the presence of the Authority Having Jurisdiction and other authorities having jurisdiction” without substitution.

25.4(33) Modify Section 1604.12.2.3 Discovery of Cross-Connection, by deleting “, in the presence of the Authority Having Jurisdiction,” without substitution.

25.4(34) Delete Section 1702.2 Plumbing Plan Submission, without substitution.

25.4(35) Modify Section 1702.5 Initial Cross-Connection Test, by deleting the second and third sentences without substitution.

25.4(36) Modify Section 1702.11.2.1 Visual System Inspection, by deleting “by the Authority Having Jurisdiction and other authorities having jurisdiction” without substitution.

25.4(37) Modify Section 1702.11.2.2 Cross-Connection Test, by deleting "by the applicant in the presence of the Authority Having Jurisdiction and other authorities having jurisdiction" without substitution.

25.4(38) Modify Section 1702.11.2.3 Discovery of Cross-Connection by deleting ", in the presence of the Authority Having Jurisdiction," without substitution.

641—25.5(105) Backflow prevention with containment. Cities with populations of 15,000 or greater as determined by the 1990 census or any subsequent regular or special census shall have a backflow prevention program with containment. The minimum requirements for a program are given in sub rules 25.5(1) through 25.5(5). These requirements are in addition to the applicable requirements of Section 603 of the Uniform Plumbing Code, 2012 Edition.

25.5(1) *Definitions.* The following definitions are added to those in Chapter 2 of the Uniform Plumbing Code, 2012 Edition, for the purposes of rule 641—25.5(105) only.

a. Administrative authority. The administrative authority for this rule is the city council and its designees.

b. Approved backflow prevention assembly for containment. Approved backflow prevention assembly for containment means a backflow prevention assembly which is approved by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research. The approval listing shall include the limitations of use based on the degree of hazard. The backflow prevention assembly shall also be listed by the International Association of Plumbing and Mechanical Officials (IAPMO) or by the American Society of Sanitary Engineering (ASSE) as having met the requirements of one of the standards listed below.

Standard Product Covered

ANSI¤/ASSE* 1013-2009 Reduced Pressure Principle Backflow Preventers
ANSI¤/ASSE* 1015-2009 Double Check Backflow Prevention Assembly
ANSI¤/ASSE* 1047-2009 Reduced Pressure Detector Backflow Preventer
ANSI¤/ASSE* 1048-2009 Double Check Detector Assembly Backflow Preventer
ANSI¤/AWWA† C510-07 Double Check Valve Backflow Prevention Assembly
ANSI¤/AWWA† C511-07 Reduced-Pressure Principle Backflow Prevention Assembly

¤American National Standards Institute, 1819 L Street NW, Washington, DC 20036
*American Society of Sanitary Engineering, 901 Canterbury Road, Suite A, Westlake, OH 44145
†American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235

c. Approved backflow prevention assembly for containment in a fire protection system. Approved backflow prevention assembly for containment in a fire protection system means a backflow prevention assembly to be used in a fire protection system which meets the requirements of Factory Mutual Research Corporation (FM) and Underwriters Laboratory (UL) in addition to the requirements of 25.5(1)*"b."*

d. Containment. Containment is a method of backflow prevention which requires a backflow prevention assembly on certain water services. Containment requires that the backflow prevention assembly be installed on the water service as close to the public water supply main as is practical.

e. Customer. Customer means the owner, operator or occupant of a building or property which has a water service from a public water system, or the owner or operator of a private water system which has a water service from a public water system.

f. Degree of hazard. Degree of hazard means the rating of a cross connection or a water service which indicates if it has the potential to cause contamination (high hazard) or pollution (low hazard).

g. Water service. Depending on the context, water service is the physical connection between a public water system and a customer's building, property or private water system, or the act of providing potable water from a public water system to a customer.

25.5(2) *Proposed Water Service.*

a. No person shall install, or cause to have installed, a water service to a building, property or private water system before the administrative authority has evaluated the proposed water service for degree of hazard.

b. The administrative authority shall require the submission of plans, specifications and other information deemed necessary for a building, property or private water system to which a water service is proposed. The administrative authority shall review the information submitted to determine if cross connections will exist and the degree of hazard.

c. The owner of a building, property or private water system shall install, or cause to have installed, an approved backflow prevention assembly for containment as directed by the administrative authority before water service is initiated.

d. Reconstruction of an existing water service shall be treated as a proposed water service for the purposes of rule 641—25.5(135).

25.5(3) *Existing Water Services.*
a. The administrative authority shall publish the standards which it uses to determine the degree of hazard for a water service. Reference AWWA Standards Here.
b. Each customer shall survey the activities and processes which receive water from the water service and shall report to the administrative authority if cross connections exist and the degree of hazard.
c. The administrative authority may inspect the plumbing of any building, property and private water system which has a water service to determine if cross connections exist and the degree of hazard.
d. If, based on information provided through 25.5(3)*"b"* and *"c,"* the administrative authority determines that a water service may contaminate the public water supply, the administrative authority shall require that the customer install the appropriate backflow prevention assembly for containment.
e. If a customer refuses to install a backflow prevention assembly for containment when it is required by the administrative authority, the administrative authority may order that water service to the customer be discontinued until an appropriate backflow prevention assembly is installed.

Comment [VHB2]: John working on this?

25.5(4) *Backflow Prevention Assemblies for Containment.*
a. Backflow prevention assemblies for containment shall be installed immediately following the water meter or as close to that location as deemed practical by the administrative authority.
b. A water service determined to present a high hazard shall be protected by an air gap or an approved reduced-pressure principle backflow prevention assembly.
c. A water service determined to present a low hazard shall be protected by an approved double check valve assembly or as in 25.5(4) *b.*
d. A water service to a fire protection system shall be protected from backflow in accordance with the recommendations of American Water Works Association Manual M14. Where backflow prevention is required for a fire protection system, an approved backflow prevention assembly for containment in a fire protection system shall be used.

25.5(5) *Backflow Incidents.*
a. The customer shall immediately notify the agency providing water service when the customer becomes aware that backflow has occurred in the building, property or private water system receiving water service.
b. The administrative authority may order that a water service be temporarily shut off when a backflow occurs in a customer's building, property or private water system.

Respectfully submitted