

Ad Hoc Code Review and Rulemaking Committee 2018 UPC Recommendations to the Board

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cccept (R)eject (M)odify
1.	PB0097	RFA	Thomas Johnson	Chapter 1	Add chapter 1 of the UPC into the Plumbing Code	Proposal: add chapter 1 of the UPC to the Plumbing Code. Recommendation: do not add chapter 1 of the UPC because MN uses rule chapter 1300 for code administration.	8/29/19	The Board accepted the recommendation as presented.	Accept
2.	Letter	N/A	Jeff Quinn, Farr Plumbing and Heating		Letter to Board re: Dishwasher air gaps, venting floor drains, boiler water fill, for next rule cycle.	Addressed in RFAs below.	8/29/19	Items were addressed in RFA's submitted to the Ad Hoc Committee – no further discussion.	N/A
3.	PB0135	RFA (2018 UPC) Also see Final Interpretation at line #8	DLI	Chapter 2 definitions	Definition of "building supply" and registered design professional	Proposal: amend definitions of "building supply" and change term "Registered Professional Engineer" to "Registered Design Professional" Recommendation: amend the definitions of "building supply" and "Registered Professional Engineer" as proposed. See PB0135 .	8/29/19	The Board accepted the recommendation as presented to amend term "Registered Professional Engineer" to Registered Design Professional. The Board accepted the recommendation to amend the definition of "building supply" with one modification: Remove "is" as follows: "Building Supply. The pipe is carrying potable water from municipal water supply..."	1. Accept Registered Design Professional as presented 2. Accept building supply with modification (remove "is")
4.	PB0128	RFA (2018 UPC)	Scott Thompson	Chapter 2	Definition of "floor drain" and "floor drain – emergency"	Proposal: amend definition of "floor drain" and "floor drain – emergency" as proposed. Recommendation: define "floor drain – emergency" as "Floor drains that <u>DO NOT SERVE AS A RECEPTOR THAT</u> are located in restrooms, under emergency eyewash/shower equipment and in laundry rooms." No definition for "floor drain."	8/29/19	1. Floor drain: The Board agreed to keep the definition of floor drain with a modification to add language shown in ALL CAPS: Floor drains that DO NOT SERVE AS A RECEPTOR THAT are located in restrooms, under emergency eyewash/shower equipment and in laundry rooms."	1. Accept with modifications noted in ALL CAPS 2. Amend to emergenc

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
								<p>2. Floor drain – emergency: The Board agreed to amend to “emergency floor drain” in lieu of “floor drain – emergency.”</p> <p>The Board discussed whether the language should read “floor drain, emergency” or “emergency floor drain.” The language “floor drain, emergency” is used in Table 702.1; however, “emergency floor drain” is defined in the definitions; therefore, the Board agreed to accept the recommendation but amend to “emergency floor drain” in lieu of “floor drain – emergency.”</p>	y floor drain
5.	PB0137	RFA (2018 UPC)	MDH	Chapter 2	Definition of “potable water”	<p>Proposal: amend definition of “potable water” as proposed.</p> <p>Recommendation: leave definition of “potable water” as is in 2018 UPC.</p>	8/29/19	<p>The Board agreed with the recommendation as presented after discussion noted below.</p> <p>Weum read the definition of potable water. The Board discussed leaving “potable water” but defining “water for human consumption” The definition of Human Consumption in Section 604.2 of the 2018 UPC would affect the manufacturer’s lead content. Tran read Exception 2 of Section 604.2 of the 2018 UPC.</p>	Accept
6.	PB0129	RFA (2018 UPC)	Scott Thompson	Chapter 2	Definition of “quick-acting valve”	<p>Proposal: amend definition of “quick-acting valve” as proposed</p> <p>Recommendation: Full-board discussion</p>	8/29/19	<p>The Board rejected the proposal and accepted language to modify the 2018 UPC, Section 609.10 as follows: “Building water supply systems where <u>water hammer occurs</u> shall be provided with water hammer arrestors to absorb the <u>resulting</u> high pressures. Water hammer ...”</p>	Reject proposal. Amend 2018 UPC Section 609.10 as shown
7.	PB0083	Final Interpretation	Patrick Lorio, City of Minneapolis	2012 UPC, sections 414.3 & 807.4, MN	Air gap fittings and drainage from domestic dishwashers	<p>Question: May a domestic dishwasher be drained to a lower floor, without the installation of an approved air gap fitting with an indirect drain?</p>	N/A	<p>The Board agreed that no further discussion was needed at the 8/29/2019 meeting.</p> <p>5.11.2016: No, a domestic dishwasher cannot drain to a lower floor without the installation of</p>	

Line #	PB #	RFARFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cccept (R)eject (M)odify
				Rule 4714.0050		Answer: No. The Minnesota Plumbing Board interprets UPC Sections 414.3 and 807.4 as incorporated into the Minnesota Plumbing Code by Minnesota Rule 4714.0050, to require a domestic dishwasher to discharge through a listed air gap fitting. The air gap fitting must be referenced in chapter 14 of the 2012 UPC as amended by Minnesota Rules chapter 4714.		an approved air gap fitting with an indirect drain. The air gap fitting must be referenced in chap 14 of the 2012 UIPC as amended by MN Rules chapter 4714	
8.	Definition of "Building Supply" See also PB0135	Final Interpretation	Gordon Granse, Polyethylene Technology	2012 UPC section 204.0, MN Rule 4714.0050	Definition of Building Supply	Question: Is the pipe supplying water to a water meter or pressure tank inside the building considered part of the building supply? Answer: Yes.	N/A	Final Interpretation issued (in response to a letter) May 11, 2016. Yes, the pipe supplying water to a water meter or pressure tank inside the building is considered part of the building supply.	
9.	PB0085 See also PB0135	Final Interpretation	David Henrich, Bergerson Caswell, Inc./MN Water Well Assoc	2012 UPC section 204, Table 604.1, and IS 7 (2.6.1), MN Rule, part 4714.0050	Use of polyethylene piping for building supply piping	Question: Based on the Plumbing Board's May 11, 2016, Final Interpretation, can polyethylene piping, when used for building supply, be installed inside and under buildings? Answer: Yes.	N/A	Final Interpretation issued June 15, 2016. Yes, polyethylene piping, when used for building supply, can be installed inside and under buildings	
10.	PB0088	Final Interpretation	Sean Flaherty, President MN Chapter of the NFSA	Sec. 603.5.15, part 4714.0050	Double Check backflow prevention assemblies (DC) and double check detector fire protection backflow prevention assemblies that are an integral	Question: Is additional backflow protection required if all of the following conditions are met: (1) an individual licensed under Minnesota Statutes chapter 299M installs a fire protection system; (2) the fire protection system includes as an integral component a double check backflow prevention assembly (DC) that meets ASSE 1015 and meets the requirements of NFPA 13, Parts 8.16.1.1.3.1 and 8.16.1.1.3.2 or a double check detector fire protection backflow prevention assembly that meets ASSE 1048	8/29/19	The Board agreed that no modifications were necessary following discussion below: Final interpretation issued March 20, 2017. Todnem asked the Board if there needed to be any further discussion and Peterson said this should be addressed in the Licensing rules, not the Plumbing Code. Minnesota Plumbing Code 603.5.15.1 (renumbered to 603.5.14) would not be affected. Backflow protector is part of the fire system per Tran.	No modifications necessary

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cccept (R)eject (M)odify
					part of a fire protection system.	and meets the requirements of NFPA 13, Parts 8.16.1.1.3.1 and 8.16.1.1.3.2; and (3) neither a reduced pressure principle backflow prevention assembly nor a reduced pressure detector fire protection backflow prevention assembly is required by section 603.5.15.1 of the Minnesota Plumbing Code? Answer: No. Uniform Plumbing Code section 603.5.23, as adopted in the Minnesota Plumbing Code, Minn. R. parts 4716.0096 and 4716.0097, and Minn. Stat. § 326B.437 still apply to the backflow assembly			
11.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0301	chapters 3-5, various	(1) Proposal: Delete Minn. rule part 4714.0301 (default to use 2018 UPC) Recommendation: Delete Minn. rule part 4714.0301	6/17/19	The Board agreed to accept recommendation as presented. The Board previously determined that 4714 is the controlling document and the 2018 UPC would be adopted as the reference.	Accept
12.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	301.2.5	chapters 3-5, various	(2) Proposal: Delete 2018 UPC sec. 301.2.5 (Existing Buildings) in its entirety. Already addressed in Minn. rule 4714.0101, subparts 3 and 6. Recommendation: Delete 2018 UPC sec. 301.2.5 in its entirety.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
13.	N/A	N/A	Committee	312 and 313	Pipe expansion	Proposal: Becker to make tables to address ΔT 50 (conditioned space) and ΔT 100 (unconditioned space). Recommendation: Use proposed Table 313.3.1 as modified	8/29/19, 6/17/19	8/29/2019: Becker submitted Exhibit A and Jim Peterson and Zach Barnaal submitted Exhibits B and C on behalf of DLI. <ul style="list-style-type: none"> The Board agreed to accept Exhibit B with modifications. Modifications are shown on attached Exhibit B2. Add a footnote #6 to Table 313.3, at line "Schedule 40 PVC and ABS DWV" under column "Horizontal": For expansion loops, see Table 313.3.1 	8/29/19: Accept with modifications as noted on Exhibit B.1 . Modifications accepted with addition of 10 and 20 feet – See Exhibit B.2

Line #	PB #	RFARFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
								<ul style="list-style-type: none"> Table title change: <u>Schedule 40 PVC and ABS DWV and Storm Pipe Expansion Table</u> <p>6/17/19 Discussion: Installation shall compensate for thermal expansion and contraction. Expansion joints shall be utilized in vertical straight runs in excess of thirty (30) feet (9,144 mm) provided they are installed per manufacturer's installation instructions. Except piping buried below ground, horizontal and vertical piping must be installed with restraint fittings or a minimum twenty-four (24) inches (610 mm) 45 degree offset every thirty (30) feet (9144 mm) Becker said he would revise the tables to incorporate formulas for ABS and PVC and bring back to the Board at a later date.</p>	6/17/19: Modify
14.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	Table 313.3	chapters 3-5, various	(4) Proposal: Add footnote 6 to Table 313.3. Recommendation: DLI will bring recommendation to Board for discussion. See also Item 13 above as part of discussion	6/17/19	6/17/2019: Table 313.3 is connected to the above tables; therefore, it will be discussed when tables above are revised and brought back to Board.	See above 6/17/19: Modify
15.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0314	chapters 3-5, various	(3) Proposal: Delete Minn. rule 4714.0314 (default to use 2018 UPC for tunneling/trenching) Recommendation: Delete Minn. rule 4714.0314	6/17/19	The Board agreed to accept recommendation as presented.	Accept
16.	N/A	N/A	Committee	407.4	Transient Public Lavatories	Proposal: delete section 407.4 Transient Public Lavatories	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
						Recommendation: delete section 407.4 of 2018 UPC.			
17.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0409	chapters 3-5, various	(5) Proposal: Amend Minn. rule 4714.0409 Recommendation: Amend rule part 4714.0409 to reflect the additions of nationally recognized standards in the body of the code that are also referenced standards under Chapter 17 of the UPC 2018, strike IAPMO IGC 155 references (see PB0102)	6/17/19	The Board agreed to accept recommendation as presented.	Accept
18.	PB0090 PB0099 PB0101 PB0110	RFA	Multiple	4714.0414.3	Redundancy - Dishwasher listed air gap device	Proposal: Delete “through an air gap fitting in accordance with Section 807.4 in section 414.3 and delete section 807.4. Recommendation: add language to sections 414.3 and 807.3, “or run the discharge line as high as possible under the countertop, securely fastened.” (Section 807.3 of 2018 UPC renumbered section 807.4) See 1/14/19 Ad Hoc meeting minutes .	6/17/19	The Board agreed to accept recommendation as presented. Note: Tran noted that the recommendation as presented is correct. Marciniak previously confirmed that IGC 155 (2018 version) was superseded by ASME A112.19.7 (2012 version).	Accept
19.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0418	chapters 3-5, various	Proposal: Amend Minn. rule 4714.0418, regarding section 418.7, add a reference to other sections (1017, 1009.1, 1011.1, and 1017.1) Recommendation: Full Board review; committee recommends adding definitions for “open parking garage” and “enclosed parking garage.”	6/17/19	The Board agreed to accept recommendation as presented. Currently neither are defined; therefore, DLI references the building code for “open parking garage” and “enclosed parking garage” definitions.	Accept
20.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0421	chapters 3-5, various	Proposal: Use 2018 UPC language, delete Minn. rule 4714.0421, result: change temperature from 110 degrees F to 120 degrees F (relocated to section 407.3 in 2018 UPC).	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
						Recommendation: delete Minn. rule 4714.0421, result: change temperature from 110 degrees F to 120 degrees F.			
21.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0501	chapters 3-5, various	Proposal: Amend Minn. rule 4714.0501 to exclude chimneys, vents and their connectors because not plumbing. Recommendation: Amend Minn. rule 4714.0501 to exclude chimneys, vents and their connectors because not plumbing.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
22.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0504	chapters 3-5, various	Proposal: Amend Minn. rule 4714.0504, subp. 2, to add "Discharge piping shall be installed in accordance with Section 608.5." Recommendation: Amend Minn. rule 4714.0504, subp. 2, to add "Discharge piping shall be installed in accordance with Section 608.5." Delete "[NFPA 54: 10.25.5]" that is in the rule.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
23.	N/A	N/A	Committee	505.4.1	Single-wall heat exchanger	Discussion of the change for single-wall exchange in UPC 2018, Section 505.4.1, and current Minn. rule 603.5.4.1. Minn. Rule does not have a heat-transfer medium that is listed as a toxicity rating or Class of 1. No recommendation.	6/17/19	No recommendation	No Action
24.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0507	chapters 3-5, various	Proposal: Amend Minn. rule 4714.0507, subp. 2 regarding Relief Valve Discharge, to replace the Minnesota amendment and use 2018 UPC language. Recommendation: Amend Minn rule 4714.507, subp. 2 regarding Relief Valve Discharge, to replace the Minnesota amendment and use 2018 UPC language.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
25.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0508	chapters 3-5, various	Proposal: Amend Minn. rule 4714.0508 to effectively use 2018 UPC language for 508.4 Appliances in Attics and Under-Floor	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
						Spaces, and maintain deletion of sections 508.0 to 508.3.3. Recommendation: Amend Minn. rule 4714.0508 to effectively use 2018 UPC language for 508.4 Appliances in Attics and Under-Floor Spaces, and maintain deletion of sections 508.0 to 508.3.3.			
26.	PB0102	RFA (2018 UPC)	Cathy Tran, DLI	4714.0509	chapters 3-5, various	Proposal: Amend Minn. rule 4714.0509 to include deletion of UPC section 509.15, Venting of Appliances. Recommendation: delete section 509 in its entirety, including 509.15, of the 2018 UPC.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
27.	PB0104	RFA (2018 UPC)	Richard Becker	509-510.2.27	Delete those section in their entirety	Proposal: Delete UPC sections 509.0 through 510.2.27 in their entirety. Recommendation: Delete UPC sections 509.0 through 510.2.27; these deletions already covered in other recommendation or already in Minn. rule 4714.0510.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
28.	N/A			4714.0511	Delete 4714.0511	Proposal: Delete Minn. rule 4714.0511 because no section 511 in 2018 UPC. Recommendation: Delete 4714.0511.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
29.	PB0115	RFA (2018 UPC)	DLI	4714.0601	Various chapter 6 proposals (DLI)	Proposal: renumber section 601 (4714.0601) to 602, per 2018 UPC Recommendation: correct numbering	6/17/19	The Board agreed to accept recommendation as presented.	Accept
30.	PB0114	RFA (2018 UPC)	MDH	4714.0603	Various chapter 6 proposals (MDH)	Proposal: Keep the current Minnesota amendment in Minn. rule 4714.0603, subp. 1 as is. Recommendation: Keep the current Minnesota amendment in Minn. rule 4714.0603, subp. 1 as is. (No action necessary)	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
31.	PB0114	RFA (2018 UPC)	MDH	4714.0603	Various chapter 6 proposals (MDH)	<p>Proposal: Keep the current Minnesota amendment in Minn. rule 4714.0603, subp. 5.</p> <p>Recommendation: Keep the current Minnesota amendment in Minn. rule 4714.0603, subp. 5. (No action necessary)</p>	6/17/19	The Board agreed to accept recommendation as presented.	Accept
32.	PB0092	Final Interpretation	Douglas R. Morin	603.2	Double check assembly	<p>Question 1: Can a backflow preventer approved to ASSE 1022 be installed on a domestic water line serving a combi-oven pursuant to Minnesota Plumbing Code section 603.2?</p> <p>Answer: No. Table 603.2 explicitly states that a backflow preventer approved to ASSE 1022 is appropriate for carbonated beverage machines or dispensers. A combi-oven is not a carbonated beverage machine or dispenser. UPC section 603.2, as adopted in chapter 4714, requires backflow prevention devices or assemblies to comply with Table 603.2.</p> <p>Question 2: Is a backflow preventer approved to ASSE 1012 a suitable device for the installation on a combi-oven under section 603.2 when approved by the Authority Having Jurisdiction?</p> <p>Answer: Yes. ASSE 1012 is not specifically listed in Table 603.2. Devices approved to ASSE 1012 are not explicitly addressed as approved devices in Table 603.2 so the Authority Having Jurisdiction must approve its use, including for use on a combi-oven.</p>	6/17/19	No action necessary – clarification only	No action

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
33.	PB0098	Final Interpretation	Thomas Johnson	4714.0603.2 and table	Whether an AVP can have a valve downstream.	Pending litigation.		Final Interpretation issued 10/8/2018;	
34.	PB0100	RFA	Joel Hipp	Table 603.2	Table 603.2, Atmospheric Vacuum Breaker Installation	Proposal: Amend Table 603.2 (and 1401) to replace “No valve downstream” with “have outlet open to atmospheric pressure” consistent with the 2017 edition of ASSE 1001. Recommendation: leave language as is in the code because proposed amendment would require updating reference to the 2017 edition of ASSE for consistency; concern that updating this referenced standard edition could lead to other referenced standard updates, which would defeat the purpose of adopting a model code.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
35.	PB0115	RFA (2018 UPC)	DLI	603.5.8	Various chapter 6 proposals (DLI)	Proposal: renumber 603.5.18 to 603.5.17 Recommendation: renumber	6/17/19	The Board agreed to accept recommendation as presented.	Accept
36.	PB0105 PB0116	RFA (2018 UPC)	Scott Eggen, Steve Tiedman	603.5.10	Exception to Steam or Hot Water Boilers	Proposal: Amend section 603.5.10 by adding an exception for 1- and 2-family dwellings. Recommendation: do not add an exception for 1- and 2-family homes; use 2018 UPC language as is.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
37.	PB0114	RFA (2018 UPC)	MDH	603.5.18	Various chapter 6 proposals (MDH)	Proposal: Renumber section 603.5.18 to 603.5.17 to reflect 2018 UPC numbering. Recommendation: Renumber section 603.5.18 to 603.5.17.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
38.	PB0114	RFA (2018 UPC)	MDH	603.5.21	Various chapter 6 proposals (MDH)	Proposal: Section 603.5.21 is new to the 2018 UPC, keep it incorporated as is.	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
						Recommendation: Incorporate (new) 2018 UPC section 603.5.21 as is. (No action necessary)			
39.	PB0114 PB0115	RFA (2018 UPC)	DLI	4714.0604	Various chapter 6 proposals (DLI)	Proposal: repeal rule Minn. rule 4714.0604 in its entirety. Recommendation: repeal Minn. rule 4714.0604. Use 2018 UPC language re: lead content (604.2)	6/17/19	The Board agreed to accept recommendation as presented.	Accept
40.	PB0137	RFA (2018 UPC)	MDH	604.2 (formerly 604.11)	Amend 2018 UPC language re: potable water and lead content	Proposal: amend 2018 UPC language regarding definition of potable water and Section 604.2 on lead content by revising "water for human consumption" to "potable water" (Committee recommends deleting MN amendment) Recommendation: do not amend; use 2018 UPC language.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
41.	PB0114	RFA (2018 UPC)	MDH	604.11	Various chapter 6 proposals (MDH)	Proposal: Do not amend Minn. rule section 604.11, keep the 2018 UPC language. Recommendation: Do not amend section 604.11, keep the 2018 UPC language (604.2). (No action necessary)	6/17/19	The Board agreed to accept recommendation as presented.	Accept
42.	PB0118	RFA (2018 UPC)	Rich Olson	Table 604.1, chapter 14	Add NSF SE 17304 to the Referenced Standards Fittings column for CPVC fittings in Table 604.1	Proposal: Amend Table 604.1 and add NSF SE 17304 to the Referenced Standards chapter. Recommendation: do not amend Table 604.1 to add NSF SE 17304.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
43.	PB0114	RFA (2018 UPC)	MDH	604.10	Various chapter 6 proposals (MDH)	Proposal: Renumber Minn. rule 604.10 to 604.9 to reflect 2018 UPC numbering. Recommendation: Renumber 604.10 to 604.9	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)ccept (R)eject (M)odify
44.	PB0114	RFA (2018 UPC)	MDH	607.3	Drinking water protection	Proposal: Amend 2018 UPC section 607.3 for potable water tanks Recommendation: Amend 2018 UPC section 607.3 as written in the RFA.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
45.	PB0114	RFA (2018 UPC)	MDH	607.4	Tanks used in commercial settings	Proposal: Amend 2018 UPC section 607.4 Recommendation: Amend 2018 UPC section 607.4 as written in RFA except last sentence of RFA language should read: "Overflow pipe shall discharge through an air gap."	6/17/19	The Board agreed to accept recommendation as presented in chart – The word "No" is removed from the last sentence as shown in PB0114. "No e-Overflow may be connected directly to any drain, sanitary sewer, or storm sewer"	Accept
46.	PB0115	RFA (2018 UPC)	DLI	4714.0608	Various chapter 6 proposals (DLI)	Proposal: repeal Minn. rule 4714.0608, use 2018 UPC language. Recommendation: repeal part 4714.0608	6/17/19	The Board modified the proposal and recommendation as shown below and accepted the modified recommendation. MODIFIED Proposal: Amend Minn. rule 4714.0608, use 2018 UPC language. MODIFIED Recommendation: Amend MN Rule 4714.0608, use the 2018 UPC but amend 608.5 and use the verbiage as presented in PB0115.	Accept modified language
47.	PB0103	RFA (2018 UPC)	Brent Marsolek, Dave Wagner	UPC 609.1, 312.6	UPC sec. 609.1. Installation	Proposal: amend 2018 UPC sections 312.6 , 609.1 Recommendation: Amend water pipe bury depth requirements: "Building supply and yard piping shall be not less than 12 inches (305 mm) below the maximum local frost depth in accordance with Section 312.6, or an alternative approved by the Authority Having Jurisdiction." PB to define "maximum frost depth" or find a published source of maximum frost depth.	6/17/19	The recommendation matches NFPA 24 and the Board agreed to accept the recommendation with no need for the PB to define "maximum frost depth" or find a published source of maximum frost depth. Wagner and Tran no longer need to review and bring a revised recommendation back to the Board as discussed earlier.	Accept as modified
48.	PB0113	RFA	Brent Marsolek, Dave Wagner	4714. 609	Meter location, section 609.11	Proposal: amend Minn. rule 4714.0609.11 to require water meters be located as close as possible to the point of entrance of the potable water supply pipe.	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)ccept (R)eject (M)odify
						Recommendation: amend Minn. rule 4714.0609.11 as drafted in RFA.			
49.	PB0114	RFA (2018 UPC)	MDH	609.6 and 611.0 through 611.3	Various chapter 6 proposals (MDH)	Proposal: Maintain Minnesota amendments in rule chapter 4714 to sections 609.6 and 611.0 through 611.3. Recommendation: Maintain Minnesota amendments to sections 609.6 and 6110 through 611.3.	6/17/19	The Board agreed to accept recommendation as presented.	Accept
50.	PB0106 PB0129	RFA (2018 UPC)	Multiple	609.10	Quick acting valves, water hammer, section 609.10	Proposal: define "quick-acting valve" as used in section 609.10. Recommendation: Full-board discussion	6/17/19	The Board agreed that it would be too difficult to define "quick-acting valve" and after much discussion agreed to table this item.	Table
51.	PB0114	RFA (2018 UPC)	MDH	609.11 to 609.12	Various chapter 6 proposals (MDH)	Proposal: Renumber in Minn. rule, section 609.11 to 609.12, keep Minnesota amendment. Recommendation: Renumber in Minn. rule, section 609.11 to 609.12, keep Minnesota amendment.	6/17/19	The Board rejected the recommendation as presented because section 609.11 would be replaced. Pipe insulation removed.	Reject
52.	PB0115	RFA (2018 UPC)	DLI	611.3.1	Various chapter 6 proposals (DLI)	Proposal: add subsection 611.3.1 to Minn. rule 4714.0611 Recommendation: add subsection 611.3.1 as proposed. See RFA PB0115.	6/17/19	The Board agreed to accept modified proposal and recommendation as shown below. MODIFIED Proposal: add subsection 611.5 to Minn. rule 4714.0611 MODIFIED Recommendation: add subsection 611.5 as proposed. See RFA PB0115.	Accept as modified
53.	PB0119	RFA (2018 UPC)	Jason Kruger	Table 701.2	Amend Table 701.1 to allow the use of reinforced concrete pipe as described in ASTM C76	Proposal: Amend Table 701.2 of Chapter 7 to add ASTM C76 reinforced concrete pipes and ASTM C443 as proposed Recommendation: amend as proposed with addition of footnote stating, "***For storm sewer application only"	6/17/19	The Board agreed to accept recommendation as presented.	Accept
54.	PB0121	RFA (2018 UPC)	DLI	701.1	chapter 7, various	Proposal: minor corrections and renumbering to coordinate with numbering changes in the 2018 UPC	6/17/19	The Board agreed to accept recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
						Recommendation: amend as proposed. See 3/11/19 meeting minutes .			
55.	PB0107	RFA (2018 UPC)	Aaron Ganson	Table(s) 701.1 (and 1701.1)	polypropylene pipe per ASTM F2764, Table 701.1 and Table 1701.1 (referenced standards)	Proposal: Add polypropylene pipe per ASTM F2736 and ASTM F2764 to Tables 701.1 and 1701.1 for sanitary building sewers. See 3/11/19 meeting minutes . Recommendation: add the ASTM standards, and joints and connections section as proposed (with updated numbering per the UPC 2018).	10/15/19 (added language: add deflection test) 6/17/19	MODIFIED recommendation: <ul style="list-style-type: none"> Add footnote *** With no change in direction and deflection test. Add the ASTM standards with updated numbering per the UPC 2018 under building sewer pipe and fittings. No directional changes. If good enough for sanitary sewer use then acceptable for storm use. Storm use would have cheaper pipe options available that could be used.	Accept as modified (and deflection test was added at the 10.15.19 Board meeting).
56.	PB0133	RFA (2018 UPC)	Robert G Moore	Table 701.1	Add ASTM F2562 to Table 701.1	Proposal: add ASTM F2562 standard to Table 701.1 (renumbered Table 701.2) Recommendation: do nothing, do not add ASTM F2562 to Table 701.1.	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
57.	PB0121	RFA (2018 UPC)	DLI	705.10.2 Expansion Joints	chapter 7, various	Proposal: delete Minnesota rule amendment and use the 2018 UPC language Recommendation: amend as proposed (use the 2018 UPC language)	8/29/19, 7/16/19	8/29/2019: The Board agreed with their decision to Accept the recommendation on 7/16/2019. 7/16/2019: The Board agreed to accept the recommendation as presented.	Accept
58.	PB0121 PB0108 PB0109	RFA (2018 UPC)	DLI	707.4.1	chapter 7, various	Proposal: eliminate the cleanout requirement for back-to-back (or common) vertical fixture drains installed at same level by deleting Section 707.4.1 Recommendation: delete section 707.4.1	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
59.	PB0121	RFA (2018 UPC)	DLI	707.4	chapter 7, various	Proposal: delete exception #3 of Section 707.4 Recommendation: keep exception #3 (DLI can review the RFA and resubmit)	7/16/19	The Board agreed to accept the recommendation as re-submitted using the 2021 UPC preprint language as follows: Exceptions: (3) Excepting the building drain, its horizontal branches, kitchen sinks, and urinals, a cleanout	Accept as modified

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
								shall not be required on a pipe or piping that is above the floor level of the lowest floor of the building.	
60.	PB0121	RFA (2018 UPC)	DLI	710.10	chapter 7, various	Proposal: add an exception to Section 710.10 for vents serving elevator sumps and pool sumps to not terminate through the roof Recommendation: amend as proposed, add an exception.	7/16/19	The Board agreed to accept the recommendation as presented. Exception: <u>Vents serving sumps connected to elevator pit drains or swimming pool deck drains need not extend through the roof and must not connect to any other vent pipe.</u>	Accept
61.	PB0096	Final Interpretation	Peter Daniels, PE	710.10 and 906.4	Do Plumbing Code sections 710.10 and 906.4 apply to exterior sumps and receiving tanks?	Final Interpretation: Yes, if the sump and receiving tank are located within in the property lines and not covered by a utility easement. If the sump and receiving tank are covered by a utility easement, then the Plumbing Code does not apply.	7/16/19	Final Interpretation issued on 8/29/2018 The board agreed to take no action.	No Action
62.	PB0127	RFA (2018 UPC)	Scott Thompson	Sec. 712.1	Amend section 712.1 [and 4714.0712, subp. 1]	Proposal: repeal MN amendment to section 712.1 and use 2018 UPC 712.1 language. Recommendation: keep current MN amendment in Minn. rule part 4714.0712 .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
63.	PB0121	RFA (2018 UPC)	DLI	715 - CIPP	chapter 7, various	Proposal: amend Minn. rule 4714.0715 regarding section 715.3 to reflect the language of UPC 2018 Recommendation: full board should have a full discussion and make a decision on this proposed change. See 3/11/19 ad hoc meeting minutes for discussion notes.	7/16/19	The Board agreed to reject the recommendation as presented.	Reject
64.	PB0121	RFA (2018 UPC)	DLI	717.1, Table 717.1	chapter 7, various	Proposal: add language to provide an option for the AHJ to accept fixture loading less than the minimum fixture loading required by this table for building sewers while maintaining the minimum scouring pipe velocity of two feet per second: "Loadings less than the listed minimums must be approved by the Authority Having Jurisdiction."	7/16/19	The Board agreed to accept the recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)ccept (R)eject (M)odify
						Recommendation: add language as proposed. See RFA PB0121 .			
65.	PB0121	RFA (2018 UPC)	DLI	719.6	chapter 7, various	Proposal: add an additional option to join pipe to manholes and similar structures to provide a water tight connection Recommendation: amend as proposed. See 3/11/19 meeting minutes .	7/16/19	The Board agreed to accept the recommendation as presented but noted that the word "follow" should be "follows" as shown below. <u>Connections to manhole and similar structures must be provided as follows:</u> add "s" to follow	Accept w-amendment (adding "s" to follow)
66.	PB0136	RFA (2018 UPC)	DLI	4714.0724	Add a table to section 724, Recreational Vehicle, drainage pipe sizes	Proposal: amend section 724.1 as proposed Recommendation: Amend section 724.1 as proposed in PB0136 .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
67.	PB0131	RFA (2018 UPC)	Cathy Tran, DLI	810.1	Chapter 8, various	Proposal: Amend 810.1 Steam and Hot Water Drainage Condensers and Sumps and delete sections 810.1 (remaining) to 814.1 (see RFA PB0131) Recommendation: amend as proposed. See 3/29/19 meeting minutes .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
68.	PB0131	RFA (2018 UPC)	Cathy Tran, DLI	4714.0813	Chapter 8, various	Proposal: amend current Minn. rule 4714.0813 SWIMMING POOLS Recommendation: amend as proposed. See 3/29/19 meeting minutes .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
69.	PB0130	RFA (2018 UPC)	Scott Thompson	905.3	Adopt 2018 UPC section 905.3 in its entirety	Proposal: adopt Section 905.3 of the 2018 UPC in its entirety, delete MN amendment to section 905.3 in Minn. rule 4714.0905 Recommendation: no recommendation, full board to consider the proposal. See 3/29/19 meeting minutes .	7/16/19	The proposal was rejected.	Rejected
70.	PB0117	RFA (2018 UPC)	Dennis Anderson	908.2	delete 908.2	Proposal: delete section 908.2 in its entirety (Horizontal Wet Venting for a Bathroom Group)	7/16/19	The Board agreed to accept the recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cept (R)eject (M)odify
						Recommendation: keep section 908.2 in its entirety.			
71.	PB0122	RFA (2018 UPC)	Richard Blaylock	911	add/keep section 911.0 through 911.5	Proposal: adopt circuit venting method under 2018 UPC Recommendation: adopt circuit venting method (no action necessary to include)	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
72.	PB0089	RFA	Cathy Tran, DLI	1002.2 Fixture traps	Chapter 10	Proposal: add an exception to 1002.2: "Exception: Emergency floor drains, tell tail floor drains, and floor drains not used as waste receptors installed within 25 feet of a vented branch or main." Recommendation: Amend as modified, see 3/29/19 meeting minutes .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
73.	PB0089	RFA	Cathy Tran, DLI	1006.1	Chapter 10	Proposal: Add an exception to the end of 1006.1: "Exception: Floor drains or trench drains which connect to sand interceptors or oil and flammable liquid interceptors do not need to be trapped." Recommendation: Amend as modified, see 3/29/19 meeting minutes .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
74.	PB0089	RFA	Cathy Tran, DLI	1016.4	Chapter 10	Proposal: Amend section 1016.4 Recommendation: Amend as modified, see 3/29/19 meeting minutes .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
75.	PB0089	RFA	Cathy Tran, DLI	1017.1	Chapter 10	Proposal: Amend section 1017.1 Recommendation: Amend as modified, see 3/29/19 meeting minutes .	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
76.	PB0111	RFA (2018 UPC)	Ken Loucks	1014.2.2	Exception to section 1014.2.2 vents	Proposal: Add an exception to Section 1014.2.2 Vent Recommendation: do not add exception, leave 2018 UPC language as is.	7/16/19	The Board agreed to accept the recommendation as presented.	Accept

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)ccept (R)eject (M)odify
77.	PB0112	RFA (2018 UPC)	Mike Johnson	1017.2	Design of interceptors, section 1017.2	<p>Proposal: Establish set sizing for garages used for storage with 10 or more vehicles</p> <p>Recommendation: amend section 1017.2 and add subsection 1017.2.1, to read as stated in 3/29/19 meeting minutes.</p>	7/16/19	The Board agreed to accept the recommendation as presented.	Accept
78.	PB0123	RFA (2018 UPC)	Aaron Ganson	Table 1101.4.5	Add materials and standards to Building Storm Sewers, create Table 1101.4.5	<p>Proposal: create a table in chapter 11 and add referenced standards to the table, or add the referenced standards to Table 701.2.</p> <p>10/15/2019: Recommendation: Do not create table in Chapter 11. Include F2306 and F2881 standards for storm sewer use only, include F2648 and add footnote #1 for yard drainage only, to Table 701.2, add proposed joints language, to section 1101.4.5 and referenced standards 1701.1. Add joints and connections section as proposed (with updated numbering per the UPC 2018). Add Footnote #2 to require deflection testing for pipes 12" and larger. Note: Reference PB0142 to renumber.</p> <p>7/16/19: Recommendation: Do not create table in Chapter 11. Include F2306 and F2881 standards for storm sewer use only, include F2648 for yard drainage only, to Table 701.2, add proposed joints language, to section 1101.4.5 and referenced standards 1701.1. Add joints and connections section as proposed (with updated numbering per the UPC 2018)</p>	10/15/19 (modified) 7/16/19	<p>10/15/19 – The board made modifications as shown in recommendation.</p> <p>7/16/19: After the discussion below, the Board agreed to accept the recommendation with a modification to replace ASTM C1628 with ASTM C443 in Section 1101.2.1 Mechanical Joints.</p> <p>Riley Dvorak, Forterra Pipe and Precast, and Jennifer Schaff, County Materials Corp, addressed the Board after Jason Kruger’s email regarding Line #78 of PB0123 was read aloud by the Chair (see Correspondence section of the 7.16.2019 minutes).</p> <p>Dvorak said there are two standards C443 and C1628 – both will have the same performance requirements, both are required to meet 13 PSI. There is one major difference in that C1628 requires additional tolerance requirements. Their standard product meets the performance criteria of C443, but the joint tolerances are slightly different.</p> <p>Schaff said that through this process she found that C1628 was created for a sanitary sewer mechanism for a joint. C443 is standard for storm sewer applications which is what is being discussed. The federal standard referenced in the submittal is C443 as well, therefore, Schaff said if the intention is for storm sewer use only, then refer just to C443. If using for sanitary</p>	Accept as modified on 10/15/19 and 7/16/19

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)ccept (R)eject (M)odify
								sewer application, then that would be something different.	
79.	PB0125	RFA (2018 UPC)	Cathy Tran, DLI	1101.11.2.1 and 1101.11.2.2	Chapter 11, various	Proposal: add subsections 1101.11.2.1 Location and 1101.11.2.2 Engineered System. Recommendation: amend as submitted. See PB0125 .	8/29/19	The Board reviewed the 4/22/2019 Ad Hoc Committee meeting minutes for modifications that the Committee made to PB0125, item 1, page 3, and the Board accepted the modifications. The Committee's recommendation includes clarity to adding secondary roof drains. The Board agreed to accept the recommendation as modified in the 4/22/2019 Committee minutes. (4/22/2019 minutes, page 3 of 5, PB0125, item 1 should read 1101.11.2.1 not 1101.2.1)	Accept as modified in 4/22 Ad Hoc minutes
80.	PB0125	RFA (2018 UPC)	Cathy Tran, DLI	Chapter 11	Chapter 11, various	Proposal: amend sections 1103.1 and 1103.2 (renumbered from 1106). Add to both sections. Recommendation: amend as submitted. See PB0125 .	8/29/19	The Board reviewed the 4/22/2019 Ad Hoc Committee meeting minutes for modifications that the Committee made to PB0125, item 2, page 3, and the Board accepted the modifications.	Accept as modified in 4/22 Ad Hoc minutes
81.	PB0132	RFA (2018 UPC)	Arthur Schwidder	1106	Add a new section 1106.5 Sump Manhole/Catch Basin with Vertical Baffle	Proposal: require a minimum of 18 inches between nearest inlet pipe and a vertical baffle Recommendation: take no action, do not require a minimum of 18 inches.	8/29/19	The Board this could restrict the use of products. The Board agreed to take no action as recommended by the Committee.	Accept
82.	PB0124	RFA (2018 UPC)	MDH	Chapter 15	Do not adopt chapter 15	Proposal: Do not adopt chapter 15 Recommendation: do not incorporate chapter 15.	8/29/19	The Board agreed to accept the recommendation as presented.	Accept
83.	PB0124	RFA (2018 UPC)	MDH	Table 1702.9.4	Update Table 1702.9.4	Proposal: Amend Table 1702.9.4 as proposed. Recommendation: amend Table 1702.9.4 as proposed in PB0124 .	8/29/19	The Board reviewed the 5/31/2019 Ad Hoc Committee minutes for modifications made to PB0124 and accepted these modifications.	Accept as modified in 5/31 Ad Hoc minutes

Line #	PB #	RFA/RFI	Submitter	Rules affected	Brief Title	Proposal and Committee recommendation	Date reviewed by PB	PB action	(A)cccept (R)eject (M)odify
84.	N/A	N/A	Committee	Chpts. 16, 17	Chpts. 16, 17	Proposal: Keep current chapter 17 regarding rainwater catchment systems (renumber as appropriate for consistency with 2018 UPC), with RFA proposals recommended	8/29/19	The Board agreed to accept the proposal as noted with the change to Table 1702.9.4 as amended above.	Accept proposal as presented
85.	N/A	N/A	Committee	App. E	App. E	Proposal: do not include Appendix E in the Minnesota Plumbing Code Recommendation: do not include Appendix E in the Minnesota Plumbing Code	8/29/19	The Board agreed to accept the recommendation as presented.	Accept

PB = Minnesota Plumbing Board

Accept, Reject, Deny column = in reference to the Board's determination in regard to the committee's recommendation

Some PB numbers are not included for a variety of reasons (e.g., RFA was withdrawn, RFA/RFI was incomplete, was for the plumber licensing chapter, etc.).

All UPC section and table numbers that have changed in the 2018 UPC will be adjusted as necessary, even if not indicated on this table. The substantive change is addressed here and renumbering corrections will be made as necessary for any proposed rules stemming from this document.